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MAEJO UNIVERSITY

MAEJO UNIVERSITY

2026
The Operation Green
University Report



The operation green university report 2026

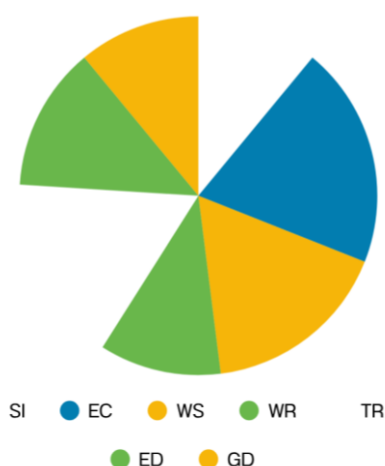
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Green University Strategy Board

Executive Summary

Operation of Maejo University to join the Green University Ranking

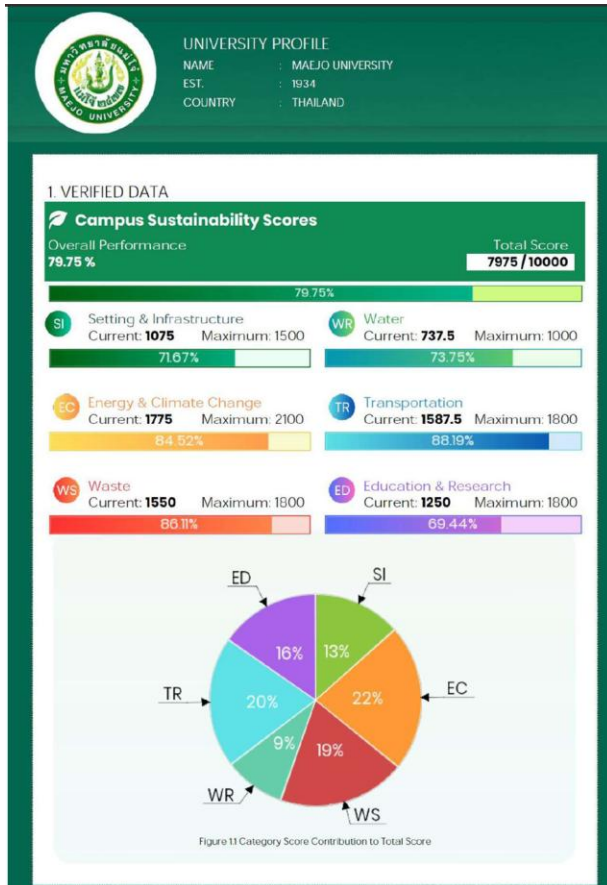
The UI GreenMetric World University Ranking serves as a key global initiative promoting the advancement of environmentally friendly and sustainable universities. Its evaluation framework is developed from contributions by universities worldwide, representing a collective commitment to sustainability. In 2017, a more comprehensive method for calculating and assessing key indicators and sub-measures was introduced to ensure greater transparency in the evaluation process. This improvement has encouraged universities to plan strategically, address weaknesses (as outlined in the World Green Universities Ranking Guide), and make continuous progress across all criteria and indicators each year. As participation continues to grow globally, the ranking's details and assessment criteria are updated annually to maintain relevance and accuracy. New dimensions such as Sustainable Development Goals (SDGs), climate change strategies, biodiversity management, and pandemic preparedness have been incorporated, while the evaluation remains grounded in seven main indicators.

1. Setting and infrastructure - 11%
2. Energy and Climate Change - 20%
3. Waste - 17%
4. Water - 11%
5. Transportation - 17%
6. Education and research - 13%
7. Governance and Digitalization - 11%



Maejo University first appeared in the UI GreenMetric World University Ranking in 2013, debuting at 194th place globally. The following year, in 2014, it rose to become 10th in Thailand, establishing a consistent presence in both national and international rankings. Over the past decade, Maejo University has demonstrated steady and impressive progress. In 2018, it ranked 215th out of 719 universities, improving to 181st out of 780 in 2019, and further advancing to 110th out of 912 universities globally the following year. By 2023, Maejo University achieved an international ranking of 143rd among 1,183 institutions and 11th nationally, reflecting its continuous commitment to sustainability and green campus development. The university's national performance has also strengthened, reaching 6th place with a score of 7,400, marking a 74% increase from its 2019 score of 6,175 (61.75%). Maejo's strongest area is Setting and Infrastructure (SI), where it achieved 5th place globally and 1st in Thailand, showcasing its leadership in sustainable campus design. In 2025, Maejo University attained its highest score to date with 7,975 points and secured 4th place nationally in the Energy and climate change category, highlighting significant advancements in sustainable energy management practices and overall environmental performance.





2. RESULTS SUMMARY



3. WORLD RANKINGS HISTORY

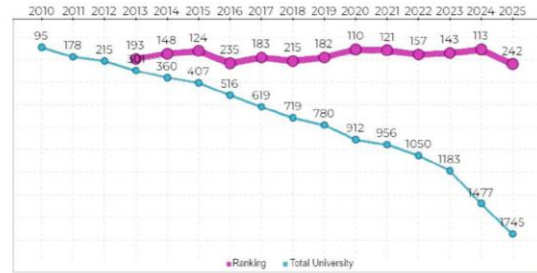


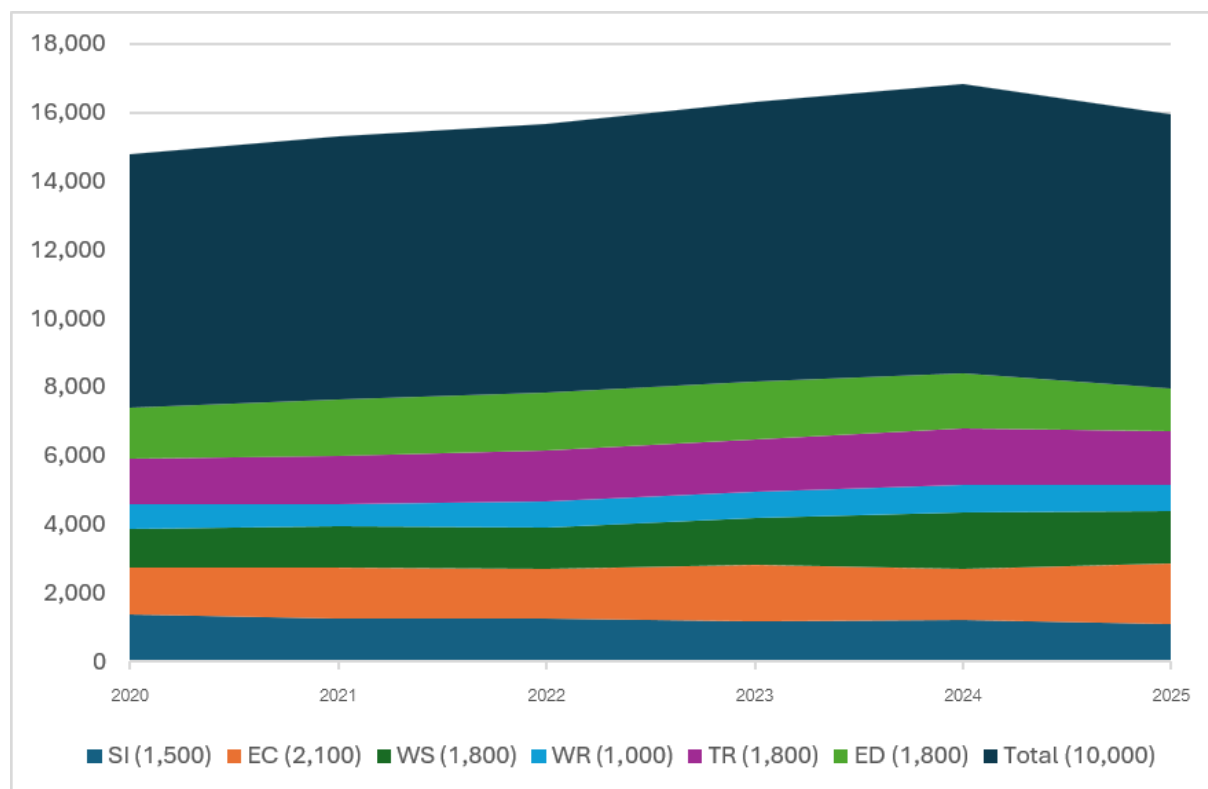
Figure 3.1 World Rankings History Diagram

4. RANKING IN THAILAND



Self – assessment of university

The results of the assessment of scores according to the criteria of all 6 indicators of Maejo University from 2020 - 2025 as shown below.



The MJU team gathered data on operations and initiatives aimed at strengthening Maejo University's progress toward becoming a leading green university, in accordance with the UI GreenMetric 2025 assessment criteria. The 2025 results, compared with data from 2020 to 2025, are summarized as follows :

	SI (1,500)	EC (2,100)	WS (1,800)	WR (1,000)	TR (1,800)	ED (1,800)	Total (10,000)
2020	1,350	1,375	1,125	725	1,325	1,500	7,400
2021	1,250	1,500	1,200	650	1,375	1,675	7,650
2022	1,250	1,450	1,200	750	1,500	1,675	7,825
2023	1,175	1,650	1,350	750	1,550	1,675	8,150
2024	1,200	1,490	1,650	800	1,650	1,625	8,415
2025	1,075	1,775	1,550	737.5	1,587.5	1,250	7,975

Overall Performance (2020 - 2025)

Maejo University has continuously strengthened its commitment to sustainability by implementing policies, infrastructure improvements, environmental management systems, and educational initiatives aligned with the UI GreenMetric World University

Rankings. The assessment covers six key categories: Setting and Infrastructure (SI), Energy and Climate Change (EC), Waste (WS), Water (WR), Transportation (TR), and Education and Research (ED).

Between 2020 and 2024, the University's overall performance demonstrated a consistent upward trend, with the total score increasing from 7,400 points in 2020 to 8,415 points in 2024, representing an improvement of 1,015 points (13.7%). This growth reflected the University's sustained investment in green infrastructure, renewable energy initiatives, waste management systems, sustainable transportation, and environmental education.

The 2025 assessment recorded a total score of 7,975 points, representing a decrease of 440 points (5.2%) compared with 2024. Although the overall score declined, the results reveal important achievements alongside areas requiring further attention.

Among the six assessment categories:

Energy and Climate Change (EC) achieved its highest score on record, increasing from 1,375 points in 2020 to 1,775 points in 2025 (+29.1%). This reflects significant progress in energy efficiency, renewable energy adoption, greenhouse gas reduction measures, and climate action.

Waste (WS) also showed remarkable long-term improvement, rising from 1,125 points in 2020 to 1,550 points in 2025 (+37.8%), demonstrating the effectiveness of waste reduction, recycling, composting, and circular economy initiatives.

Transportation (TR) improved steadily over the six-year period, increasing from 1,325 to 1,587.5 points (+19.8%), indicating continued enhancement of sustainable mobility policies and transportation infrastructure.

Water (WR) recorded only modest overall improvement, increasing from 725 points in 2020 to 737.5 points in 2025, after reaching a peak of 800 points in 2024. This suggests that additional efforts are needed to strengthen water conservation and management practices.

Setting and Infrastructure (SI) declined gradually over the study period, from 1,350 points in 2020 to 1,075 points in 2025, indicating the need for renewed investment in green open spaces, sustainable buildings, and campus infrastructure to meet evolving assessment criteria.

Education and Research (ED) remained consistently strong between 2021 and 2024, with scores above 1,600 points, but decreased to 1,250 points in 2025, contributing significantly to the overall reduction in total score. This highlights opportunities to expand sustainability-related research outputs, publications, courses, community engagement, and reporting.

Overall, the six-year trend demonstrates that Maejo University has made substantial progress toward becoming a more sustainable and environmentally

responsible university. The University achieved its highest overall performance in 2024, while the 2025 assessment indicates that future improvements should focus particularly on Setting and Infrastructure, Water, and Education and Research, without compromising the strong achievements already established in Energy and Climate Change, Waste Management, and Sustainable Transportation. These findings provide valuable guidance for strategic planning and resource allocation, enabling Maejo University to further strengthen its sustainability performance and enhance its competitiveness in future UI GreenMetric World University Rankings.

Challenges and Gaps for Improvement

The 2025 UI GreenMetric assessment highlights several challenges that should be addressed to enhance Maejo University's sustainability performance and strengthen its future rankings.

1. Declining Performance in Setting and Infrastructure (SI)

The SI score declined from **1,350 points in 2020** to **1,075 points in 2025**, representing the largest long-term decrease among all assessment categories. As UI GreenMetric continually updates its indicators, the University should further improve green open spaces, biodiversity conservation, sustainable campus planning, and smart infrastructure to remain competitive.

2. Reduced Score in Education and Research (ED)

The ED category decreased from **1,625 points in 2024** to **1,250 points in 2025**. Since this category carries a high weighting (1,800 points), strengthening sustainability-related research publications, funded projects, academic courses, student engagement, community outreach, and international collaborations should be a strategic priority.

3. Fluctuating Water Management Performance (WR)

Although water management improved slightly compared with 2020, the score dropped from **800 points in 2024** to **737.5 points in 2025**. Further efforts are needed to improve water conservation practices, wastewater reuse, rainwater harvesting, smart irrigation systems, and comprehensive water monitoring across the campus.

4. Maintaining Momentum in High-Performing Categories

Energy and Climate Change (EC), Waste (WS), and Transportation (TR) have shown significant long-term improvements. However, maintaining these achievements will require continuous investment in renewable energy, carbon reduction initiatives, circular economy practices, sustainable transportation infrastructure, and regular monitoring to ensure continued compliance with evolving UI GreenMetric criteria.

5. Adapting to Evolving UI GreenMetric Indicators

The UI GreenMetric assessment framework is periodically updated to reflect emerging global sustainability priorities. Some score reductions may result from revised indicators rather than reduced institutional performance.

Therefore, systematic review of new assessment criteria, improved data collection, stronger evidence documentation, and cross-unit coordination will be essential to maximize future scores.

6. Strengthening Data Management and Institutional Coordination

One of the key challenges is ensuring that sustainability initiatives are consistently documented and supported by verifiable evidence. Establishing a centralized sustainability data management system, improving collaboration among faculties and administrative units, and conducting regular internal audits would enhance reporting quality and reduce the risk of losing points due to incomplete documentation.

Strategic Priorities Moving Forward

To improve future UI GreenMetric performance, Maejo University should focus on:

- Enhancing green campus infrastructure and biodiversity conservation.
- Increasing sustainability-related research outputs, publications, and educational activities.
- Expanding water conservation and water reuse initiatives.
- Maintaining leadership in energy efficiency, climate action, waste management, and sustainable transportation.
- Strengthening institutional coordination, monitoring systems, and evidence-based reporting.
- Aligning campus operations with emerging international sustainability standards and future UI GreenMetric assessment criteria.

By addressing these gaps while building upon its existing strengths, Maejo University will be well positioned to improve its overall sustainability performance and reinforce its reputation as a leading green university at both the national and international levels.

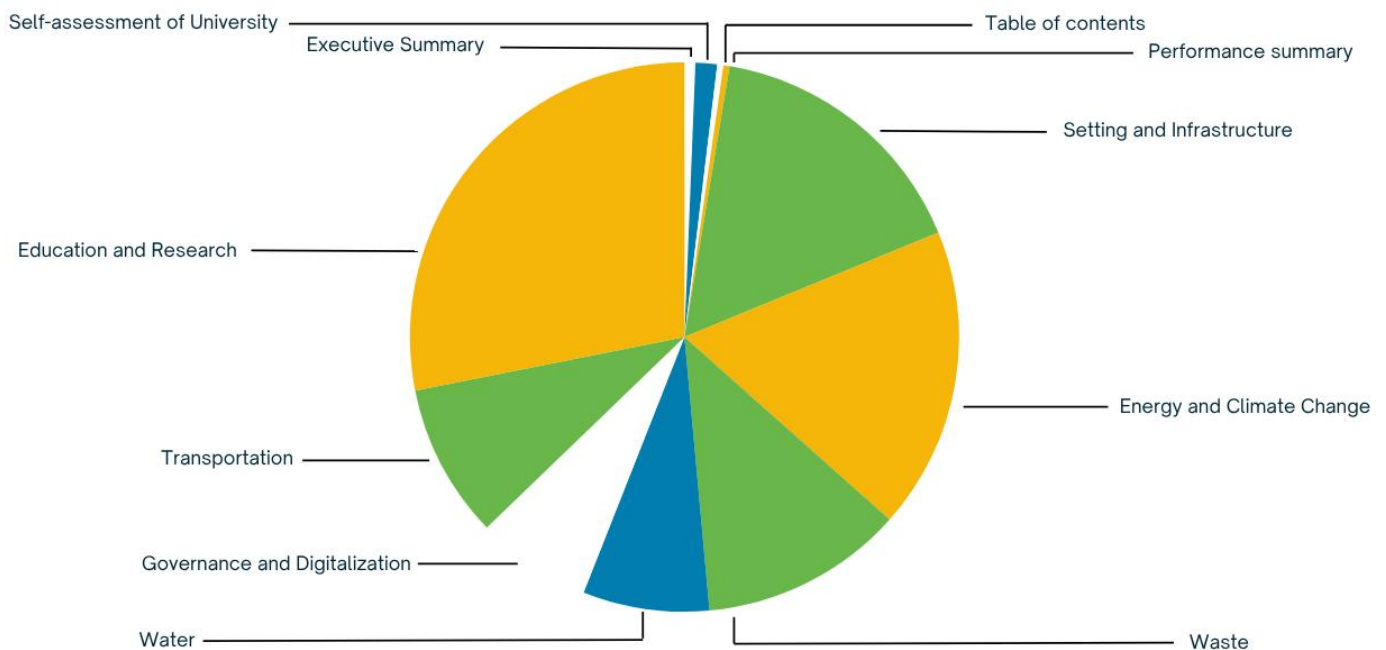
MAEJO GO ECO UNIVERSITY

2026

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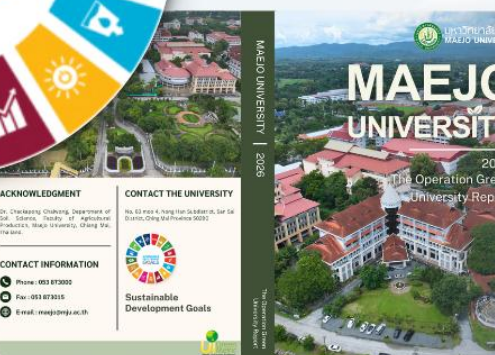
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04



SI

SETTING AND INFRASTRUCTURE

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[Read more >>](#)

3 GOOD HEALTH
AND WELL-BEING



9 INDUSTRY, INNOVATION
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13 CLIMATE
ACTION



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ON LAND



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



17 PARTNERSHIPS
FOR THE GOALS



Number of Campus Sites



Maejo University

Due to the year 2025, Maejo University area has changed physically, the university area has changed the area as follows.

Maejo University is an academic institution in Chiangmai with an area of 12,879 rai (20,606,400 m²) and divided into 3 campuses:

1. Main campus (2,097.24 rai / 3,355,583.71 m²)
2. Phrae campus (2,000 rai / 3,200,000 m²)
3. Chumphon campus (2,005 rai / 3,208,000 m²)



Main Campus (2,097.24 rai / 3,355,583.71 m²)

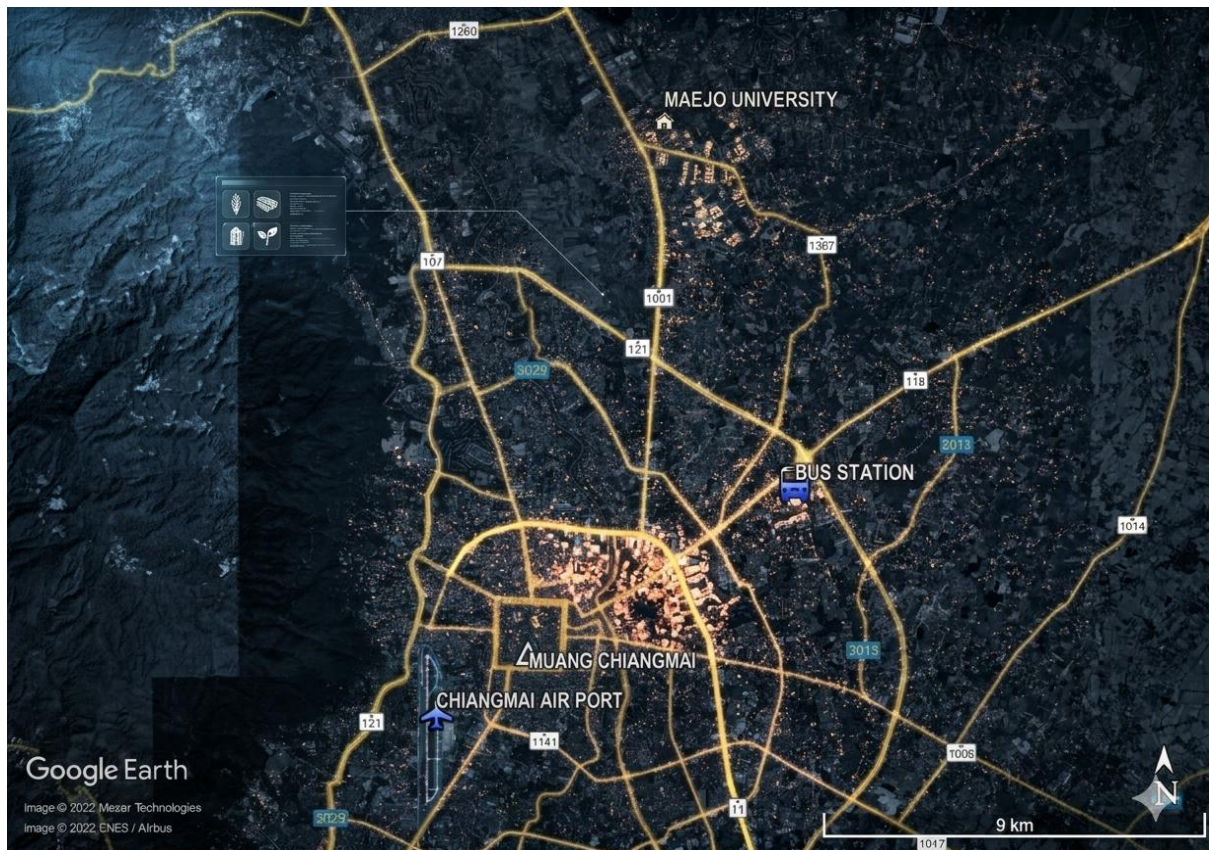


MJU Phare Province Campus (2,000 rai / 3,200,000 m²)



MJU Chumporn Province Campus ; Area (2,005 rai / 3,208,000 m²)
Consists of buildings, farms, beach, and forests

Campus Setting



Maejo University Location GPS : 501387.19 E 2089382.34 N

Maejo University is located in Sansai District, Chiang Mai Province, Thailand. It is in the suburb of Chiang Mai and approximately 15 km away from the city.

Total campus area (m²)



Maejo University Main Campus Chiang Mai Province

Main campus (776.46 rai / 1,242,331.79 m²) and Faculty of Animal Science and Technology (293 rai / 468,806.71 m²) School of Renewable Energy (25.25 rai / 40,401.42 m²) Maejo Farm (1,002.53 rai / 1,604,043.79 m²)



Main Campus Chiang Mai



Main Campus Chiang Mai



Faculty of Animal Science and Technology



School of Renewable Energy



Maejo Farm

The area evaluated for UI green issues is composed of the main campus of Chiang Mai and an agricultural farm. The lands on the campus are as follows :

Area description	Total area (m ²)
Total main campus area - Main campus 776.46 rai - Faculty of Animal Science and Technology 293.00 rai - School of Renewable Energy 25.25 rai - Agricultural farm 1,002.53 rai - Total : 2,097.24 rai Total area = (776.46+1,002.53+25.25+293.00 rai) x 1,600} = 3,355,584 m ²	3,355,584 m ²

Total population

Student (full time)	=	19,675
Staff	=	1,299
Sum	=	20,974

The ratio of total open space to the population of the University

$$= \text{(Total area - ground buildings) / total population}$$

$$= (3,355,584 - 115,320.70) / 20,974 = 154.49 \text{ square meter per person}$$

Total campus buildings area (m²)

The total campus building of Maejo University is 350,669.75 m²

Building's on main campus area of Maejo University (Chaing Mai)

Order	Building's name	Area of the building (m ²)	Number of Floor	Ground Buildings (m ²)
Central				
1	Thep Sat Sathit Building	1,200.00	2	600.00
2	Chutiwat Auditorium	170.00	1	170.00
3	Phaephuch Building	1,552.00	1	1552.00
4	Wutthakard Building	631.00	2	315.50
5	MAEJO UNIVERSITY GYMNASIUM ZONE A	18,700.00	3	6233.00
6	MAEJO UNIVERSITY GYMNASIUM ZONE B	5,859.50	4	1464.88
7	Inthanin Stadium's Stand	1,821.92	2	910.96
8	Waterworks building 2	0.00	0	0.00
9	Ruentham Building	607.25	2	303.63
10	Thai Agricultural museum	640.00	2	320.00
11	70th year maejo building	13,421.87	5	2684.37
12	Princess maha Chakri Sirindhorn Building	12,637.25	3	4212.42
13	Greenhouse building	1,827.00	1	1827.00
14	80th year maejo building	10,200.00	5	2040.00

Order	Building's name	Area of the building (m ²)	Number of Floor	Ground Buildings (m ²)
Central				
15	New theory's agricultural center	124.00	1	124.00
16	Low Pressure water pumping building	30.00	1	30.00
17	High Pressure water pumping building	72.00	1	72.00
18	Chemical storage building	60.00	1	60.00
19	Phra Chuwng Krasetsilp Building	1,863.00	2	931.50
20	Dean office 1	860.00	2	430.00
21	Dean office 2	5,975.00	5	1195.00
22	Dean office 3	1,496.00	2	748.00
23	Office of the President Parking Garage	-	0	0.00
24	Radio Communication club	28.00	1	28.00
25	UMNUAY YOTSUK BUILDING	16,262.60	5	3252.52
26	Building and Facility unit Office	465.00	1	465.00
27	Water Supply and Sanitation Office	354.60	1	354.60
28	Electrical office	328.00	2	164.00
29	The maintenance Building and Facility Office	828.00	2	414.00
30	Transportation Office	280.00	1	280.00
31	Parking Garage	-	0	0.00
32	Total Wastewater Treatment System Building (Including Bathroom Building)	183.00	1	183.00
33	UBOLRATANA RAJAKANYA SWIMMING POOL	4,180.60	2	2090.30
34	Terdkrasikorn Canteen	4,325.00	2	2162.50
35	International students dormitory	1,048.40	2	524.20
36	MALE DORMITORY 2	5,576.00	5	1115.20
37	MALE DORMITORY 3	1,200.00	2	600.00
38	MALE DORMITORY 4	3,854.00	5	770.80
39	MALE DORMITORY 5	1,160.00	2	580.00
40	MALE DORMITORY 6	3,854.00	5	770.80
41	Female dormitory 7	3,854.00	5	770.80
42	Female dormitory 8	6,651.00	5	1330.20
43	Female dormitory 9	6,651.00	5	1330.20
44	Female dormitory 10	7,175.00	7	1025.00
45	Female dormitory 11	1,722.25	7	1025.00
46	Suwanwajokkasikit Building	1,544.00	2	772.00
47	Patthanavisaitad Building	3,463.80	2	1731.90
48	Prasert Na Nakorn Buildind	7,639.41	6	1273.24
49	Wiphat Boonsri Wangsai Building	4,000.00	3	1333.33
50	Phitthayalongkorn Building	2,782.00	3	927.33
51	25th year of Faculty of Business Administration Building	4,042.00	5	808.40
52	Thep Pongphanit Building	9,523.00	3	3174.33
53	Princess mother memorial Building	6,853.56	5	1370.71
54	60th-Year maejo Building	18,500.00	6	3083.33

Order	Building's name	Area of the building (m ²)	Number of Floor	Ground Buildings (m ²)
Central				
55	Saowarat Nityawattana Building	3,694.22	2	1847.11
56	Chulabhorn Building	9,146.00	4	2286.50
57	Yangyong Sitthichai Building	4,880.00	4	1220.00
58	75th-Year maejo Building	5,562.50	3	1854.16
59	Architecture and Environmental Design Building	5,469.65	4	1367.41
60	Architecture and Environmental Design Building (New)	5,022.50	5	1004.50
61	200th-Year Rattanakosin Building	11,429.00	2	5714.50
62	Academic of Soil Science and Training Center of Advanced Soil and Fertilizer Building	4,000.00	5	800.00
63	Pomology Laboratory Building	480.00	1	480.00
64	Agronomy Office Building	162.00	1	162.00
65	Tissue Culture Building	135.00	1	135.00
66	Permpool Building	10,723.00	4	2680.75
67	Laboratory and Plant Seeding Building	444.00	1	444.00
68	Seed Drying Building	128.00	1	128.00
69	Kumjorn Boonpang Building	885.00	2	442.50
70	MUSHROOM LEARNING CENTER	-	0	0.00
71	Tissue Building	947.00	2	473.50
72	Vegetable Laboratory Building	375.50	1	375.50
73	Vegetable Storage Buildings	360.00	1	360.00
74	Vegetable plant Office	58.00	1	58.00
75	Plant-Vegetable Greenhouses	-	0	0.00
76	Plant-Vegetable Greenhouses	-	0	0.00
77	Economic mushroom production Learning Center	114.00	1	114.00
78	Planting Seeds and Propagating Ornamental Plants Greenhouses	288.00	1	288.00
79	Production of Ornamental Plants Technology Building	576.00	1	576.00
80	Orchids And Ornamental Plants Dome	708.75	1	708.00
81	Thai Orchids Building	500.00	1	500.00
82	Seedling Incubation Building	228.80	1	228.80
83	Flower Decoration Class Building	320.00	1	320.00
84	Rice mill Building (old)	405.00	1	405.00
85	Earthworm Building	64.00	1	64.00
86	Sericulture Building 1	181.20	1	181.20
87	Sericulture Building 2	129.00	1	129.00
88	Thummasakmontri Building	1,644.00	3	548.00
89	The Office of Agricultural Research and Extension maejo university Canteen	248.00	2	124.00
90	mongkolcahisit Building	1,021.00	2	510.50

Order	Building's name	Area of the building (m ²)	Number of Floor	Ground Buildings (m ²)
Central				
91	Comprehensive Production of Ornamental Plants and Flowers Center	-	0	0.00
92	Demonstration rice field	-	0	0.00
93	Energy Research Center 1	242.00	1	242.00
94	Energy Research Center 2	78.57	1	78.57
95	International Education and Training Center	6,000.00	3	2000.00
96	Engineering Laboratory Building Classroom	17,175.00	6	2862.50
97	Engineering Laboratory Building	2,187.00	1	2187.00
98	Service Building and Showroom	350.00	1	350.00
99	Smithanon Building	9,350.00	6	1558.33
100	Pilot factory building	2,632.00	1	2632.00
101	Agricultural Produce Packaging Building	2,187.00	1	2187.00
102	Rubber and Polymer Technology Building	2,262.00	1	2262.00
103	Fishery Thchnology Building	2,390.00	3	796.66
104	Fishery Thchnology Laboratory Building	3,980.50	2	1990.25
105	Fishery Incubation Building	494.00	1	494.00
106	Fishery's Club Building	115.50	1	115.50
107	Fishery Food Production Building	105.00	1	105.00
108	Fishery Research Building	18.00	1	18.00
109	Fishery's Warehouse	155.40	1	155.40
110	Fishery Breeding Building	144.00	1	144.00
111	Fishery Aquarium Building	48.00	1	48.00
112	Renewable Energy Calssroom Building	11,360.59	4	2840.15
113	Workshop Building	1,123.50	2	561.75
114	Renewable Energy Comphehensive Knowlwdge Center	1,071.56	1	1071.56
115	Sport Complex	7,347.00	2	3673.50
Total Buildings Area		350,669.75	-	115,320.70



Some Building of Maejo University, Chiang Mai



Some Building of Maejo University, Chiang Mai

The ratio of open space area to total area (SI1)

Area Description	Total Area	Duration (in Hours per Week)
Total main Campus ground floor of building	350,669.75 m ²	119
The ratio of open space toward total area {(3,374,680.54 – 350,669.75)/3,374,680.54 x 100}	89.60%	



Open Space Area in Maejo Farm

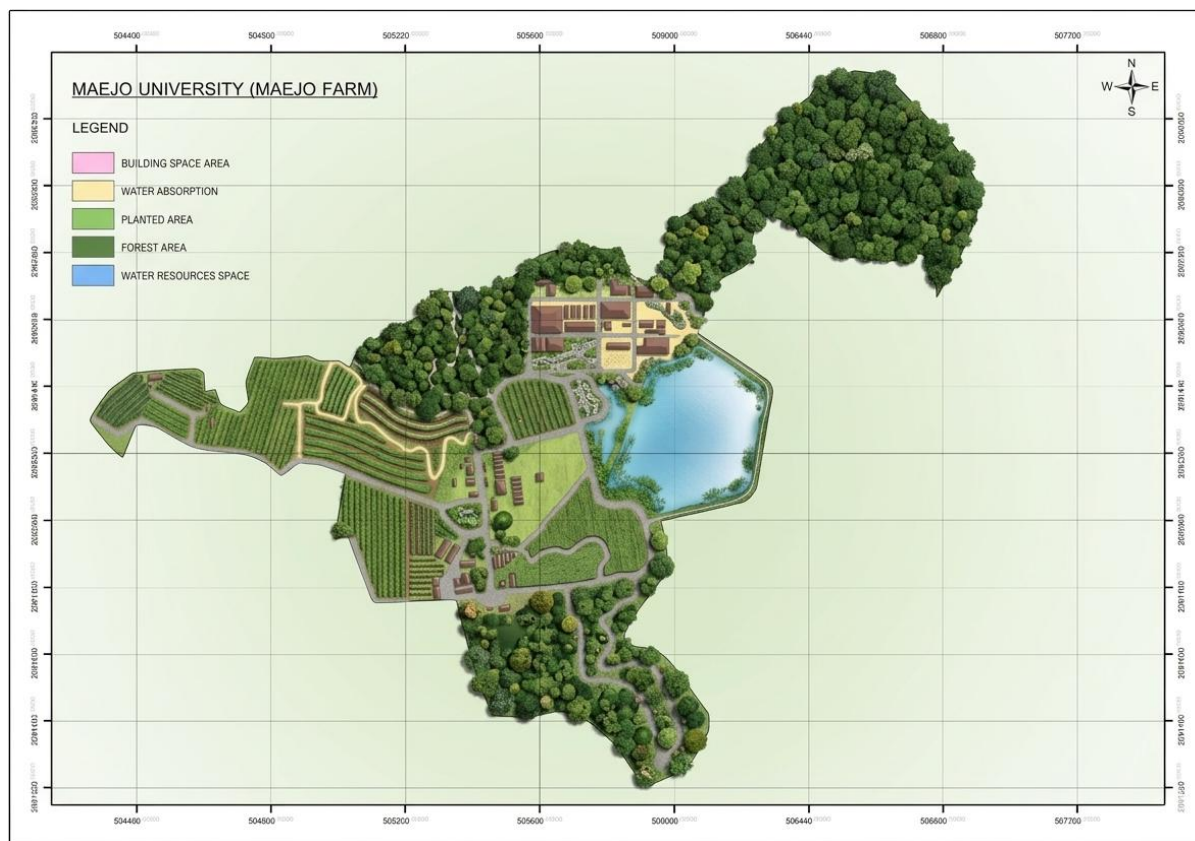


Open Space Area in Maejo Farm



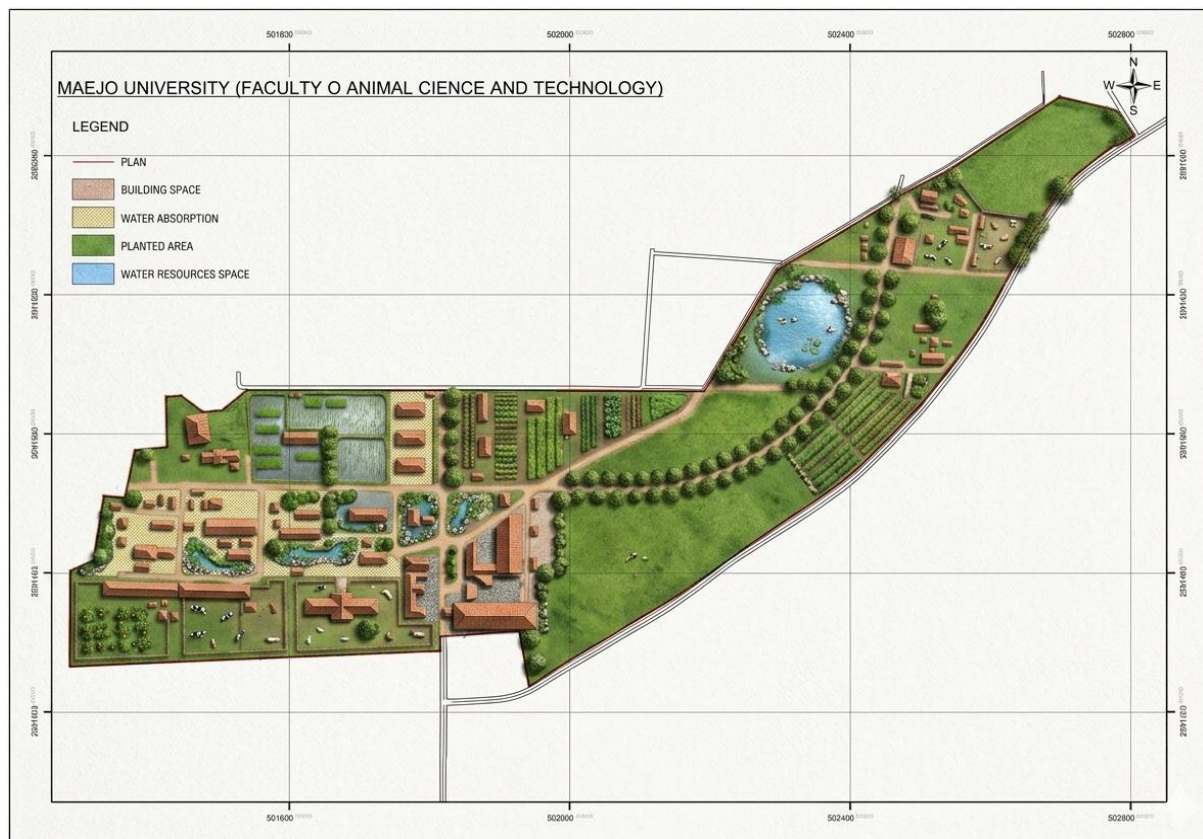
Building and Open Space on the Main Campus

Maejo University Main Campus				
No.	List	Square Meter Area	Rai Area	Percentage (%)
1	Building Space	518,506.03	324.07	41.74
2	Water Apsorption	373,594.54	233.50	30.07
3	Planted Area	212,805.32	133.00	17.13
4	Forest Area	40,650.13	25.41	3.27
5	Water Resource Space	96,775.77	60.48	7.79
Total		1,242,331.79	776.46	100.00



Building and open Space in Maejo farm

Maejo University (Maejo Farm)				
No.	List	Square Meter Area	Rai Area	Percentage (%)
1	Building Space	117,952.00	73.72	7.35
2	Water Apsorption	50,272.02	31.42	3.13
3	Planted Area	894,901.02	559.31	55.80
4	Forest Area	529,437.60	330.90	33.00
5	Water Resource Space	11,489.35	7.18	0.72
Total		1,623,140.59	1,002.53	100.00



Building and Open Space in Faculty of Animal Science and Technology

Maejo University (Maejo Farm)				
No.	List	Square Meter Area	Rai Area	Percentage (%)
1	Building Space	82,420.98	51.51	17.58
2	Water Apsoption	62,522.59	39.08	13.34
3	Planted Area	312,155.48	195.10	66.59
4	Forest Area	0.00	0.00	0.00
5	Water Resource Space	11,707.67	7.32	2.50
Total		468,806.71	293.00	100.00



Building and Open Space in School of Renewable Energy

Maejo University (Maejo Farm)				
No.	List	Square Meter Area	Rai Area	Percentage (%)
1	Building Space	17,665.90	11.04	43.73
2	Water Absorption	16,226.18	10.14	40.16
3	Planted Area	4,323.65	2.70	10.70
4	Forest Area	0.00	0.00	0.00
5	Water Resource Space	2,185.68	1.37	5.41
Total		40,401.42	25.25	100.00

Total area on campus covered in forest vegetation used for research, teaching, and/or community engagement (SI2)

The forest in our main campus area is referred to the previous trees and old trees that are still conserved until now, although some areas were already developed

Area Description	Total Area
Total area on campus covered in forest (percentage) - Main campus = 40,650.13 m ² - Farm = 529,437.60 m ² % total area campus covered in forest is $\{(40,650.13 + 529,437.60) / 3,374,680.54\} \times 100 = 16.89 \%$	16.89 %



Some area on the campus are covered with forest



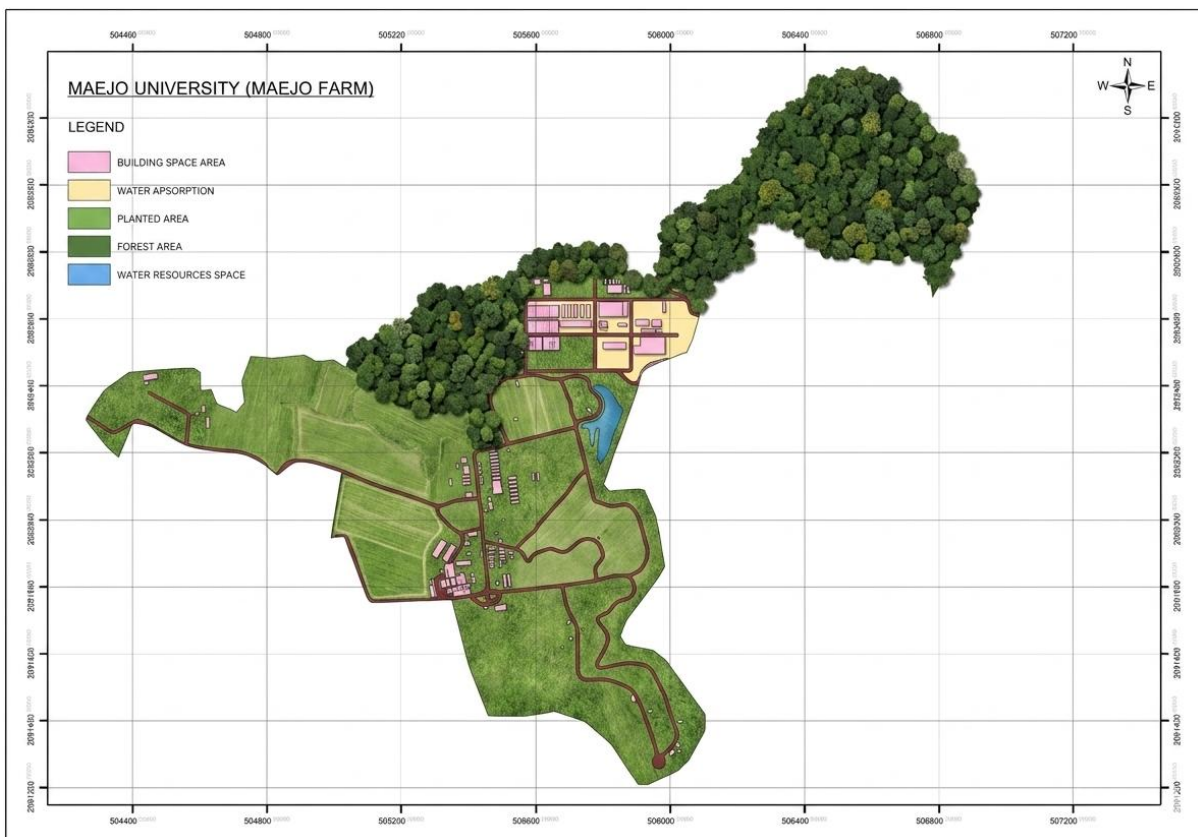
Some area on the campus are covered with forest



Maejo Farm at Sansai District, Farm and Conservation Forest



Forest Area on Main Campus (Dark Green Color)



Forest Area in Maejo farm (Dark Green Color)

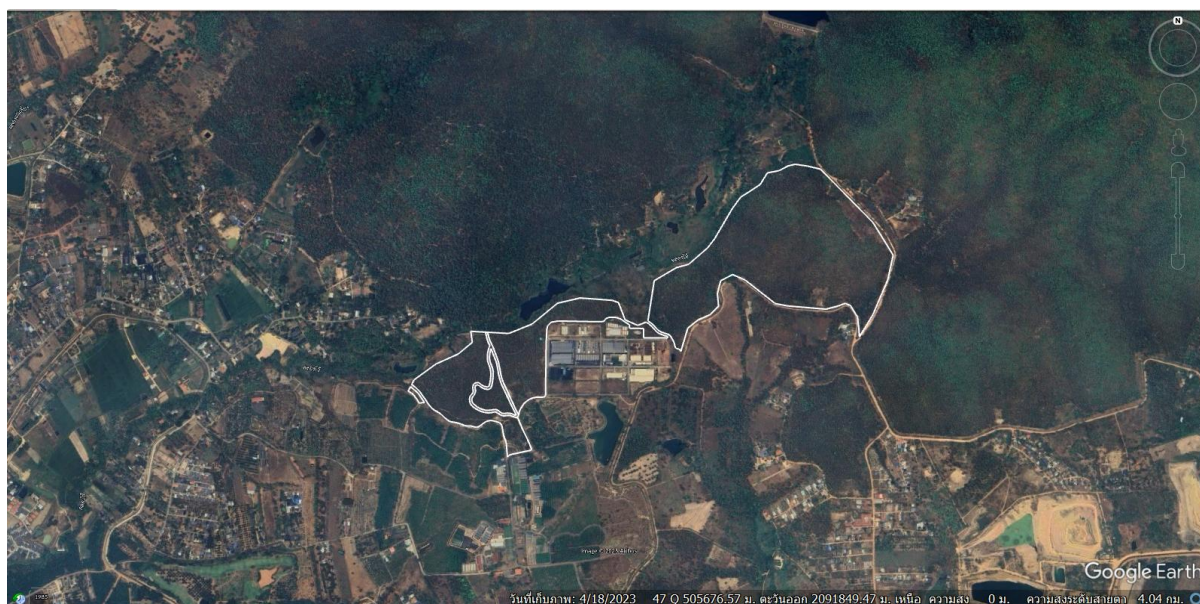


The population of big trees in main campus were recorded for tree care management

Those trees are one of important factors that can help us have carbon storage and decrease air pollution.



Total area : 40,650.13 m²
Total distance circumference : 2,473.70 m



Total area : 529,437.60 m²
Total distance circumference : 9,487.07 m

Total area on campus covered in planted vegetation (SI3)

Area Description	Total Area
Total area on campus covered in planted vegetation (percentage)	
- Main campus = 212,805.32 m ²	
- Farm = 894,901.02 m ²	
- Faculty of Animal Science and Technology = 312,155.48 m ²	
- School of Renewable Energy = 4,323.65 m ²	
Total planted vegetation area: 1,424,185.47 m ²	
Total Area: 3,374,680.54 m ²	42.20 %

In our university area, both annual flowering and perennial plants are cultivated. The field crops and ornamental plants are cultivated for educational and research study purposes as well as for events and landscape. Thus, our campus can support environment in case of air pollution and water absorption.



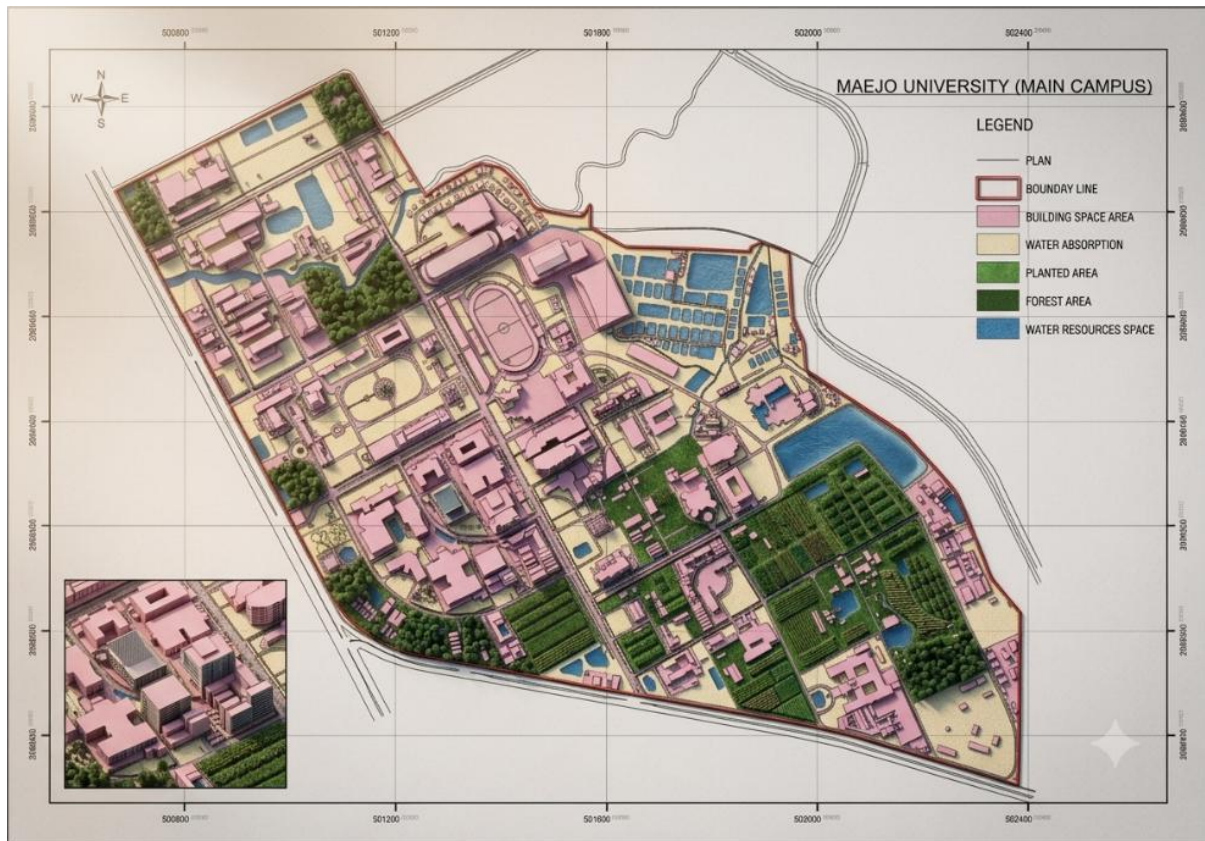
Planted Vegetation and Water Absorption Area

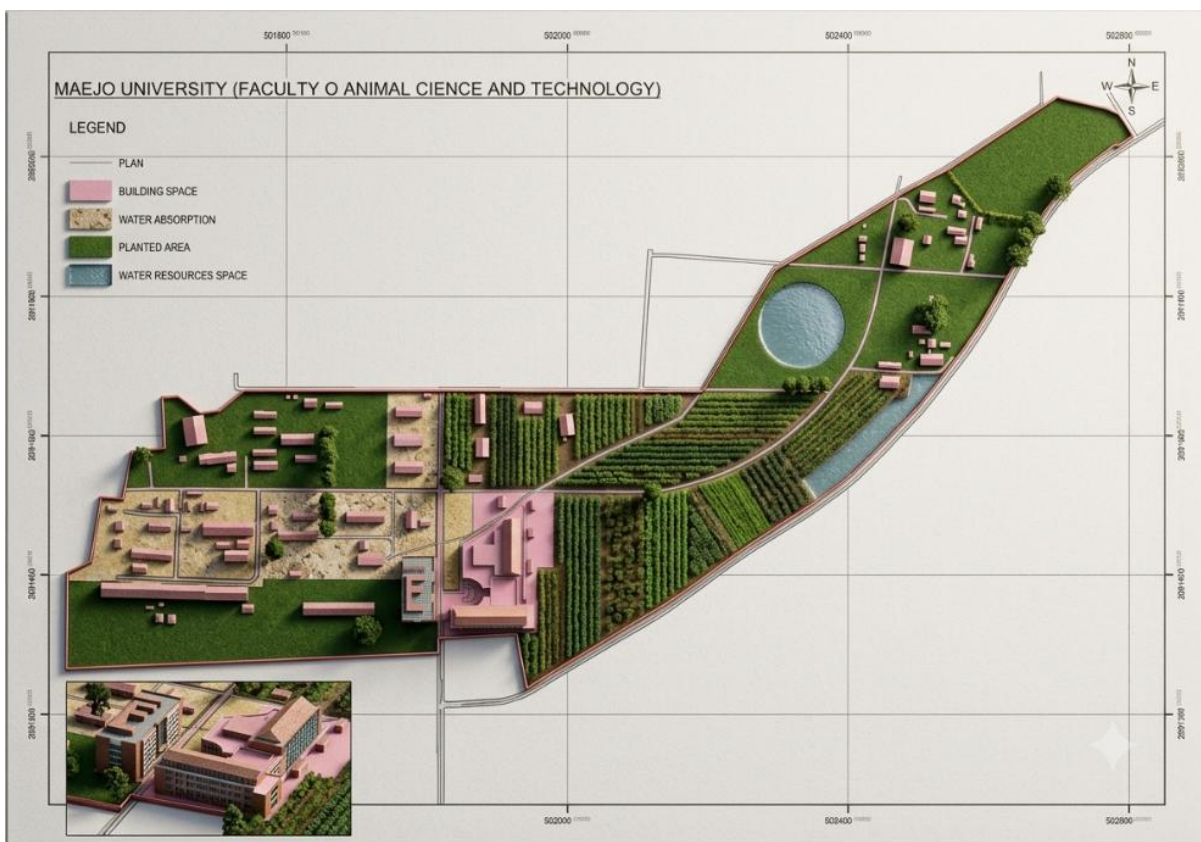


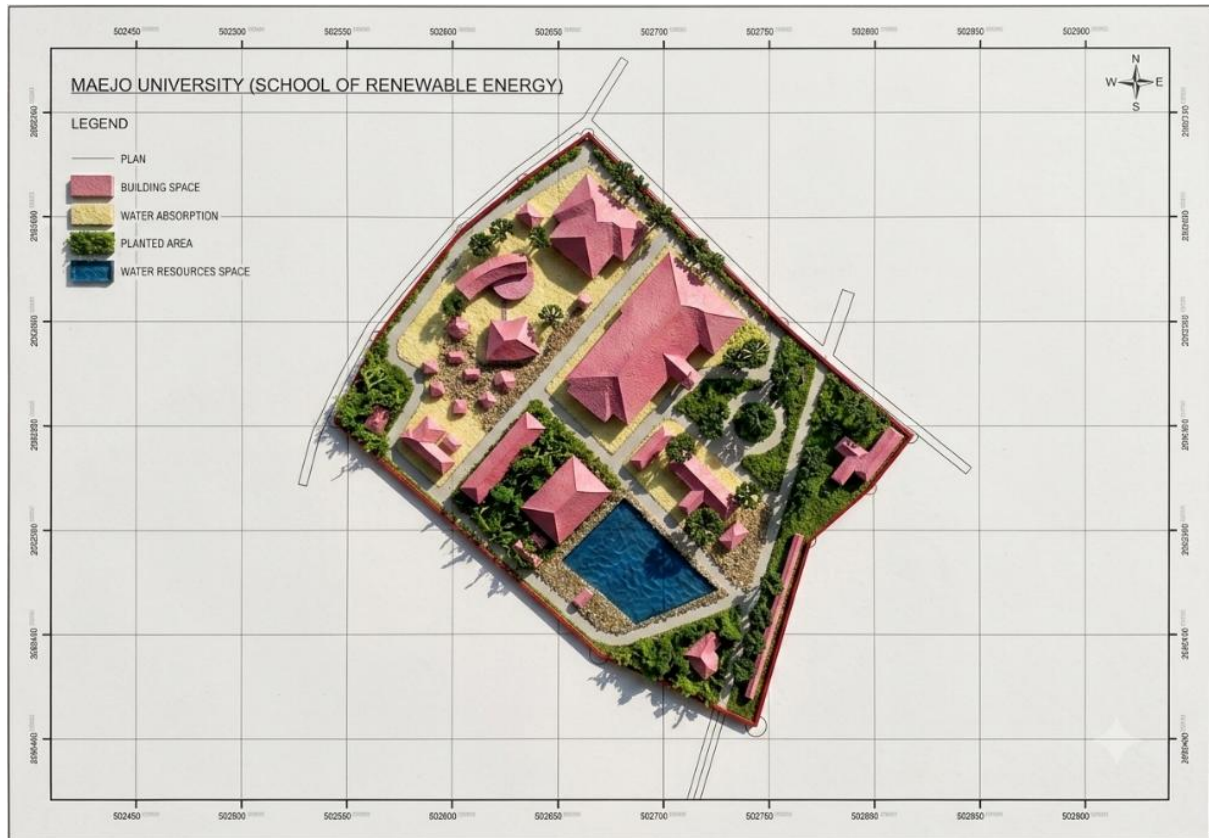
Maejo Farm



Maejo Farm



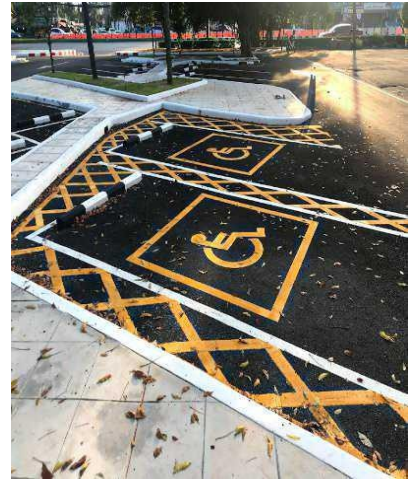
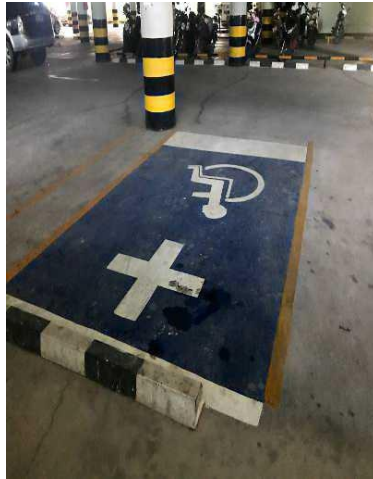




Campus facilities for disable, special needs and or maternity care (SI5)



Disabled Parking



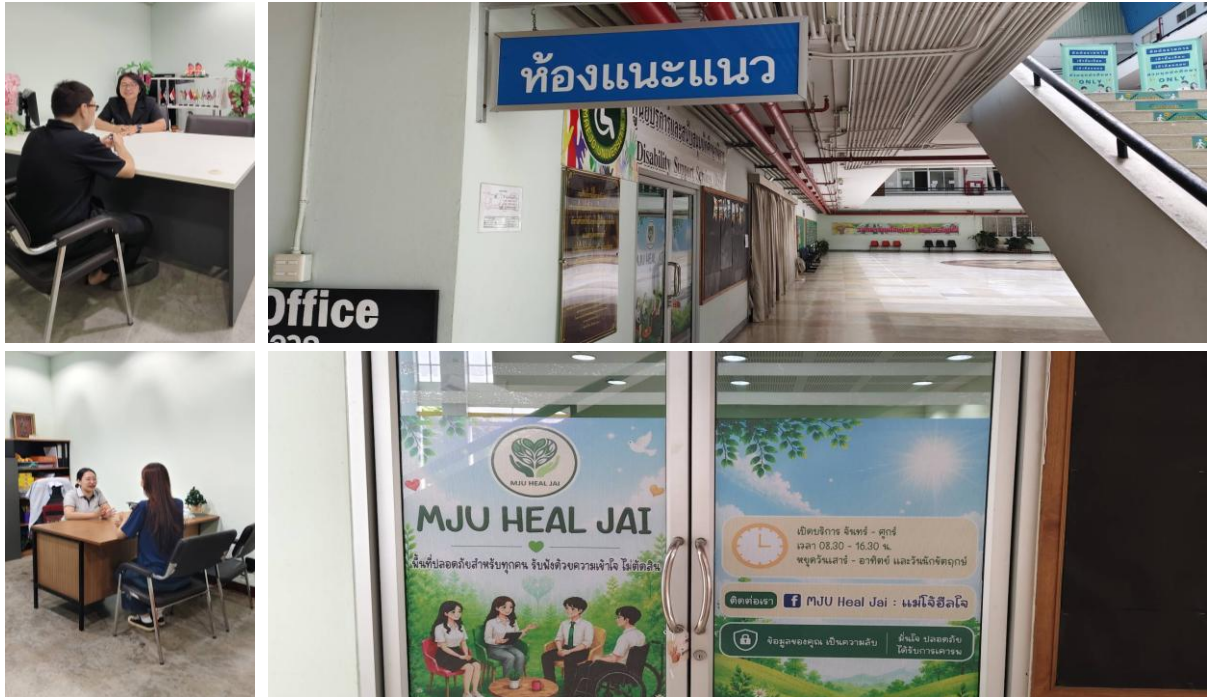
Disabled Parking



Wheelchair Ramp



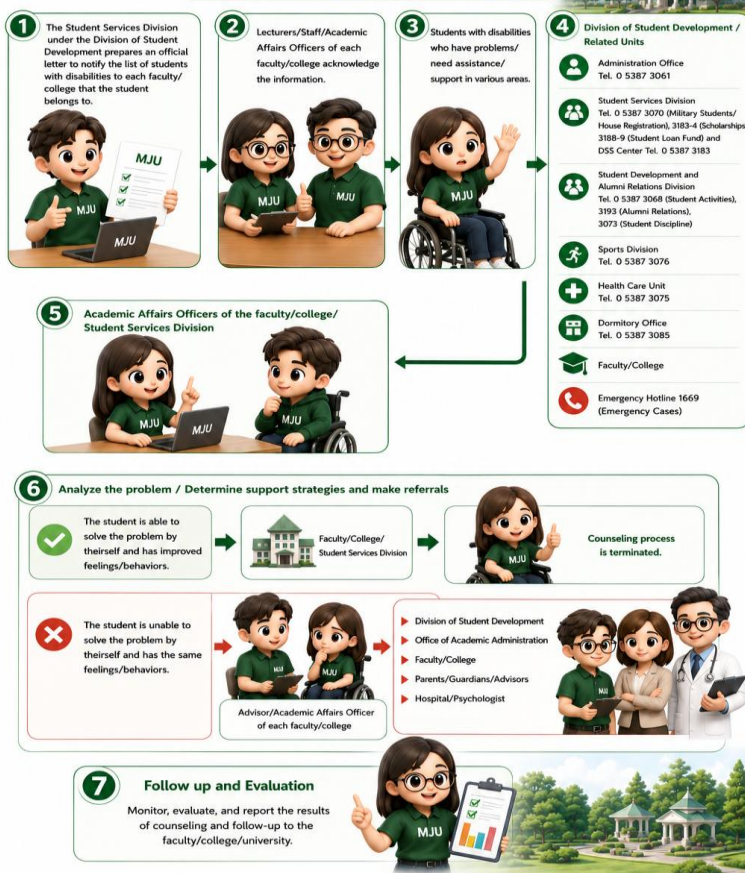
Accessible Toilet



Disabled Student Counseling Room



Counseling Process for Students with Disabilities at Maejo University (Academic and Quality of Life Support)



Maejo University cares about the well-being and lifestyle of all students, and personnel, both public utilities and public facilities, have been arranged to facilitate the disabled, the elderly, women and children and accessible for the public.

1. Disabled parking for disabled people to park their car which located at the nearest space building

2. Accessible toilet for disabled people

There is a counseling room at the guidance room and a service and support center for students with disabilities.

Security and safety facilities (SI6)

CCTV camera system



The university CCTV system control room



CCTV cameras at different key points within the university



CCTV cameras at the intersections inside the university



CCTV cameras at intersections at the university's main gates

CCTV camera system



CCTV cameras in the building



CCTV cameras around the university's dormitories areas

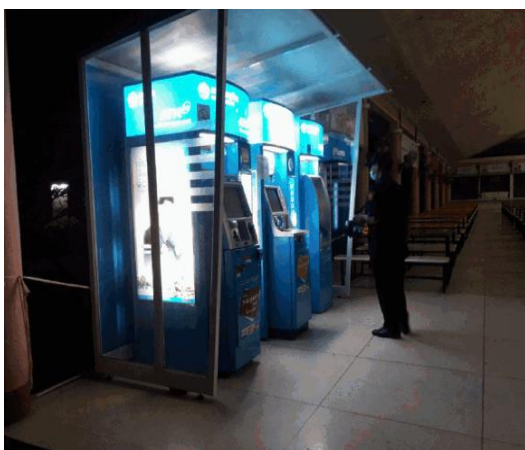
Security personnel patrols the university's area for safety



24 hours security



Station at the university gates



Security personnel patrols all important area including ATMs location

Fire extinguisher and building alarm equipment



FHC fire extinguishers and equipment ready for use in case of fire



Fire extinguishers and equipment



Graphic Annunciator informs the location of the incident in the building

Fire extinguisher and building alarm equipment



Install fire extinguishers and fire escape flags in various buildings



Fire exit sign

Fire escape route

Disaster Prevention and Mitigation Plan Training



Fire exit sign

Fire escape route

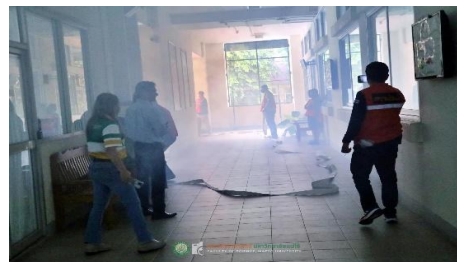
Disaster Prevention and Mitigation Plan Training



Fire exit sign



Fire escape route



Fire evacuation drill



Assembly point

Disaster Prevention and Mitigation Plan Training



Basic CPR Training



Fire evacuation drill



Disaster Prevention and Mitigation Drills



Lecturer team



The team of lecturers and participants participates in the training

รายงานผลการฝึกซ้อมดับเพลิงและฝึกซ้อมอพยพหนีไฟ
(สำหรับหน่วยงานที่ได้รับใบอนุญาตเท่านั้น)

ชื่อหน่วยงานที่ได้รับใบอนุญาต เทศบาลเมืองแม่โจ้
หมายเลขใบอนุญาต ๐๑๐๒-๐๒-๒๕๖๖-๐๐๓๖
อ้างอิงหนังสือแจ้งการฝึกอบรม กองกายภาพและสิ่งแวดล้อม สำนักงานมหาวิทยาลัย มหาวิทยาลัยแม่โจ้
ลงวันที่ ๑๓ สิงหาคม ๒๕๖๘

๑. ข้อมูลตามประกอบกิจการที่เข้ารับการฝึกอบรม
ชื่อสถานที่ประกอบกิจการ กองกายภาพและสิ่งแวดล้อม สำนักงานมหาวิทยาลัย มหาวิทยาลัยแม่โจ้
ประเภทกิจการ สถานศึกษา
๒. วัน เดือน ปี ฝึกอบรม ๑๖ กันยายน ๒๕๖๘
๓. จำนวนผู้เข้ารับการฝึกซ้อมดับเพลิงและฝึกซ้อมอพยพหนีไฟ ๔๘๐ คน
ผู้ฝึก ๑๐๘ คน ผู้ช่วย ๓๕ คน
๔. ระยะเวลาในการฝึกซ้อมอพยพหนีไฟ ๔ นาที
(เริ่มต้นด้วยสัญญาณอพยพหนีไฟดังขึ้น จนถึงคนสุดท้ายนำธงจุดรวมพล)
๕. ชื่อวิทยากรผู้ดำเนินการฝึกซ้อมดับเพลิงและฝึกซ้อมอพยพหนีไฟ
๕.๑ นายอุเทน นานา ๕.๒ นายบัณฑิต ธรรมธิ
๕.๓ นายพิพัฒน์ วชิยุโธ ๕.๔ นายสุวิทย์ ทองแก้วไข
๖. ชื่อผู้ดูแลการฝึกซ้อม นางสาววันพร ทวีสุข หัวหน้าฝ่ายปกครอง

ลงชื่อ (นางพัชรินทร์ ทวีเดช) หัวหน้าฝ่ายปกครอง ผู้จัดทำรายงาน
ลงชื่อ (นางพัชรินทร์ ทวีเดช) นายกเทศมนตรีเมืองแม่โจ้ ผู้มีอำนาจของหน่วยงานฝึกซ้อมดับเพลิงและฝึกซ้อมอพยพหนีไฟ หรือผู้รับผิดชอบ

วันเดือนปี ที่รายงาน ๑๓ กันยายน ๒๕๖๘

ส่วนที่ ๒ การรับรอง
ข้าพเจ้าขอรับรองว่าได้มีการฝึกอบรมตามรายละเอียดข้างต้นจริง

ลงชื่อ (นายอุเทน นานา) วิทยากร
ลงชื่อ (นายบัณฑิต ธรรมธิ) วิทยากร
ลงชื่อ (นายพิพัฒน์ วชิยุโธ) วิทยากร
ลงชื่อ (นายสุวิทย์ ทองแก้วไข) วิทยากร

ลงชื่อ (นายสุวิทย์ ทองแก้วไข) ที่ได้รับการฝึกอบรม
(ผู้เขียนเอกสารนี้) (คนเขียน) (ผู้สอน)

เทศบาลเมืองแม่โจ้
เลขที่ ๑๕ หมู่ที่ ๑๒ ตำบลหนองหาร อำเภอสันทราย จังหวัดเชียงใหม่
ได้รับใบอนุญาตจากกรมสวัสดิการและคุ้มครองแรงงาน ใบอนุญาตเลขที่ ๐๑๐๒-๐๒-๒๕๖๖-๐๐๓๖
ขอรับรองว่า

กองกายภาพและสิ่งแวดล้อม สำนักงานมหาวิทยาลัย มหาวิทยาลัยแม่โจ้
ได้ดำเนินการฝึกซ้อมดับเพลิงและฝึกซ้อมอพยพหนีไฟ
ตามกฎหมายกระทรวงกำหนดมาตรฐานในการบริหาร จัดการ และดำเนินการด้านความปลอดภัย อาชีวอนามัย
และสภาพแวดล้อมในการทำงานเกี่ยวกับการป้องกันและระงับอัคคีภัย พ.ศ. ๒๕๕๕
มีผู้เข้ารับการฝึกซ้อม ๑๘๐ คน
เมื่อวันที่ ๑๖ กันยายน ๒๕๖๘
ให้ไว้ ณ วันที่ ๑๖ กันยายน ๒๕๖๘
(นางทัศนีย์ ทัพณี)
นายกเทศมนตรีเมืองแม่โจ้

เทศบาลเมืองแม่โจ้
เลขที่ ๑๕ หมู่ที่ ๑๒ ตำบลหนองหาร อำเภอสันทราย จังหวัดเชียงใหม่
ได้รับใบอนุญาตจากกรมสวัสดิการและคุ้มครองแรงงาน ใบอนุญาตเลขที่ ๐๑๐๒-๐๒-๒๕๖๖-๐๐๓๖
ขอรับรองว่า

สำนักหอสมุด มหาวิทยาลัยแม่โจ้
ได้ดำเนินการฝึกซ้อมดับเพลิงและฝึกซ้อมอพยพหนีไฟ
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มีผู้เข้ารับการฝึกซ้อม ๓๒๖ คน
เมื่อวันที่ ๑๔ กุมภาพันธ์ ๒๕๖๘
ให้ไว้ ณ วันที่ ๑๔ กุมภาพันธ์ ๒๕๖๘
(นายสุวิทย์ จันทร์ขาว)
รองนายกเทศมนตรี วิชาการการแทน
นายกเทศมนตรีเมืองแม่โจ้

Training certificate

1. CCTV at University's gate
2. Fire Hidrant at Maejo University
3. Preparation of plans and fire drill drills once a year

The university has a safety infrastructure and safety response times for accidents, crimes, fires and natural disasters in less than 10 minutes. As for the security of the buildings, student dormitories, sports fields, and other university facilities, security personnel are stationed at key points and CCTVs are installed to enhance security. Security personnel patrols around the university's area 24 hours to secure the bank located in the campus and the area with ATMs. If any abnormal events are found, they will be reported to the radio center. The radio center has staff stand by 24 hours. They will coordinate with related parties or external agencies such as Mae Jo Police Station to support the personnel or to suppress the incident immediately after the incident. They also help to take care of the safety of assets such as wallets, ATM cards that students or owners have left at the ATMs, which can be picked up at the Kasetsil Network Radio Control Center.

The university has a policy for various faculties to participate in the Green Office project, with some activities related to the environment and safety in the office. Disaster prevention and mitigation plan drills will be conducted at least once a year by external speakers. The goal of the drill is to use the safety response time in fire evacuation drills not more than 10 minutes/time.

Additional evidence link :

- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6779&lang=>
- https://secretary-science.mju.ac.th/wtms_newsDetail.aspx?nID=34964&lang=th-TH
- https://rae.mju.ac.th/wtms_newsDetail.aspx?nID=34134&lang=th-TH
- <https://thelibrary.mju.ac.th/?p=22190>
- https://nurse.mju.ac.th/wtms_newsDetail.aspx?nID=35847&lang=th-TH

Health infrastructure facilities for students, academics and administrative staffs' wellbeing (SI7)



Health and Nursing Room



Consulting Service Center



Providing basic medical care Take your illness history,
do a physical examination, measure your temperature, measure your blood pressure,
etc.



Outdoor Stadium
Inthanin football court, tennis court, basketball court,
five-a-side football court, basketball court and volleyball court.



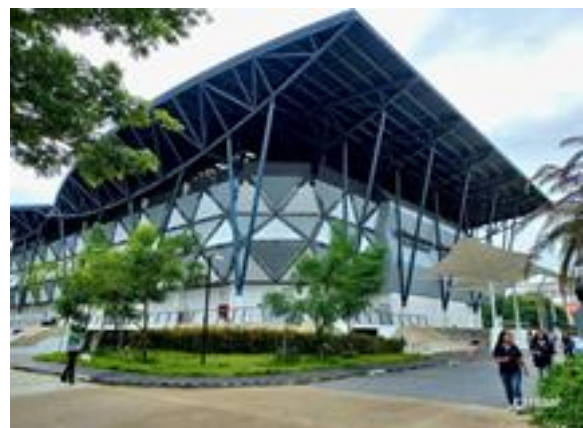
Chalerm Phra Kiat Sports Center Building, Zone B



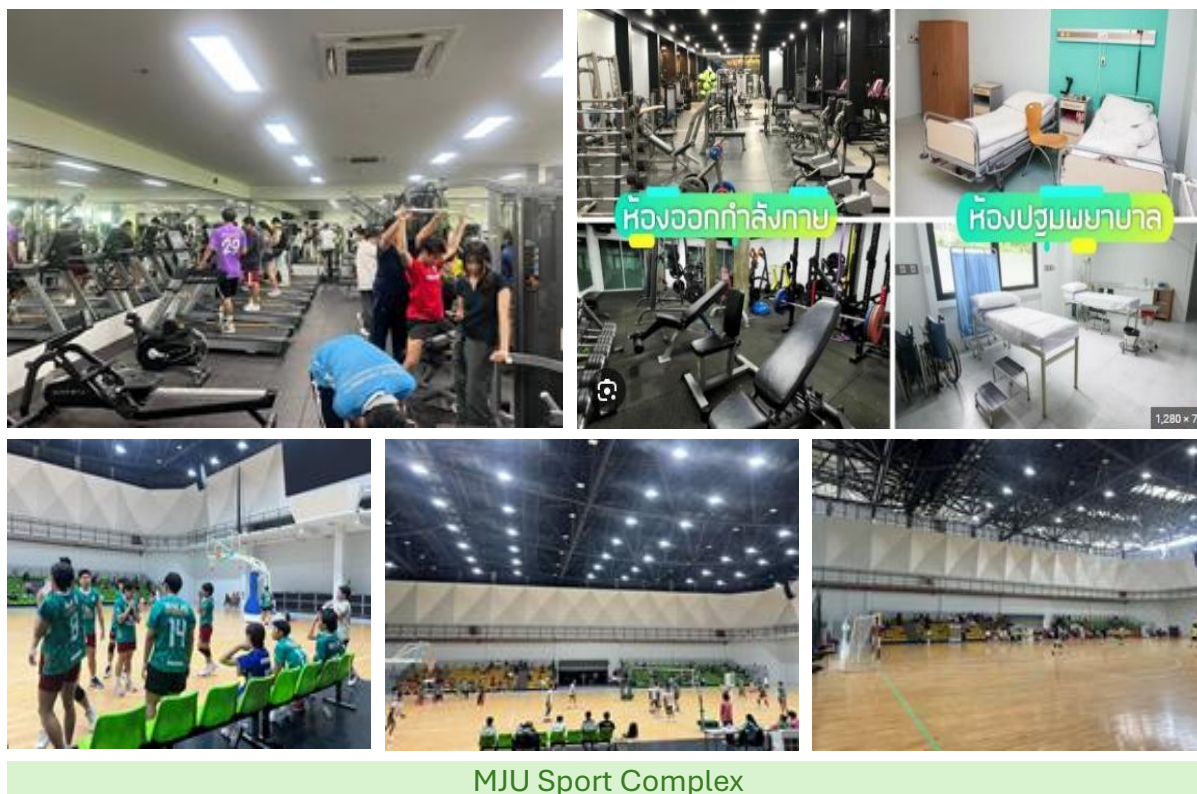
Ubonratana Rajakanya Swimming Pool



Campaign to reduce car use motorcycle by traveling by bicycle or walking



MJU Sport Complex



MJU Sport Complex

1. The university provides healthcare services to students and staff in order to promote good health throughout their time at the university. Professional nurses are responsible for providing these services, which include basic medical treatment and rehabilitation for sick students, ensuring they receive prompt and convenient care on campus without the need to visit a hospital. Service usage is recorded, and appointments are made for those requiring ongoing care. In cases where a student's illness is severe or beyond the nurse's capacity, they are referred to a nearby hospital for further treatment.

Additionally, the university provides accident insurance for all students to reduce their expenses if they are injured and require hospital treatment. Students who live far from the university are encouraged to transfer their universal healthcare rights to a hospital near the university so they can receive treatment without incurring any costs. The university has implemented processes to reduce student illness by maintaining medical records to analyze the causes of diseases and find preventive measures. There is also a system in place to ensure student satisfaction with the healthcare services, along with a feedback system to assess satisfaction. The results are used for planning and improving services to better meet students' needs.

2. The dormitory office has set up counseling service centers within the student dormitory buildings. The counseling room for male students is located in The Thepnaruemit Dormitory, while the counseling room for female students is in Ratama Dormitory. These centers provide a space for students facing academic issues, difficulties adjusting to university life, emotional or stress-related problems, and other personal matters. They also offer guidance on intellectual development and further education opportunities, among other services.

3. The outdoor sports facilities, including Inthanin Football Stadium, tennis courts, basketball courts, futsal stadium, Takraw stadium, and volleyball stadium,

promote physical activity and foster a sense of unity among students, faculty, staff, and the local community around Maejo University who utilize these facilities

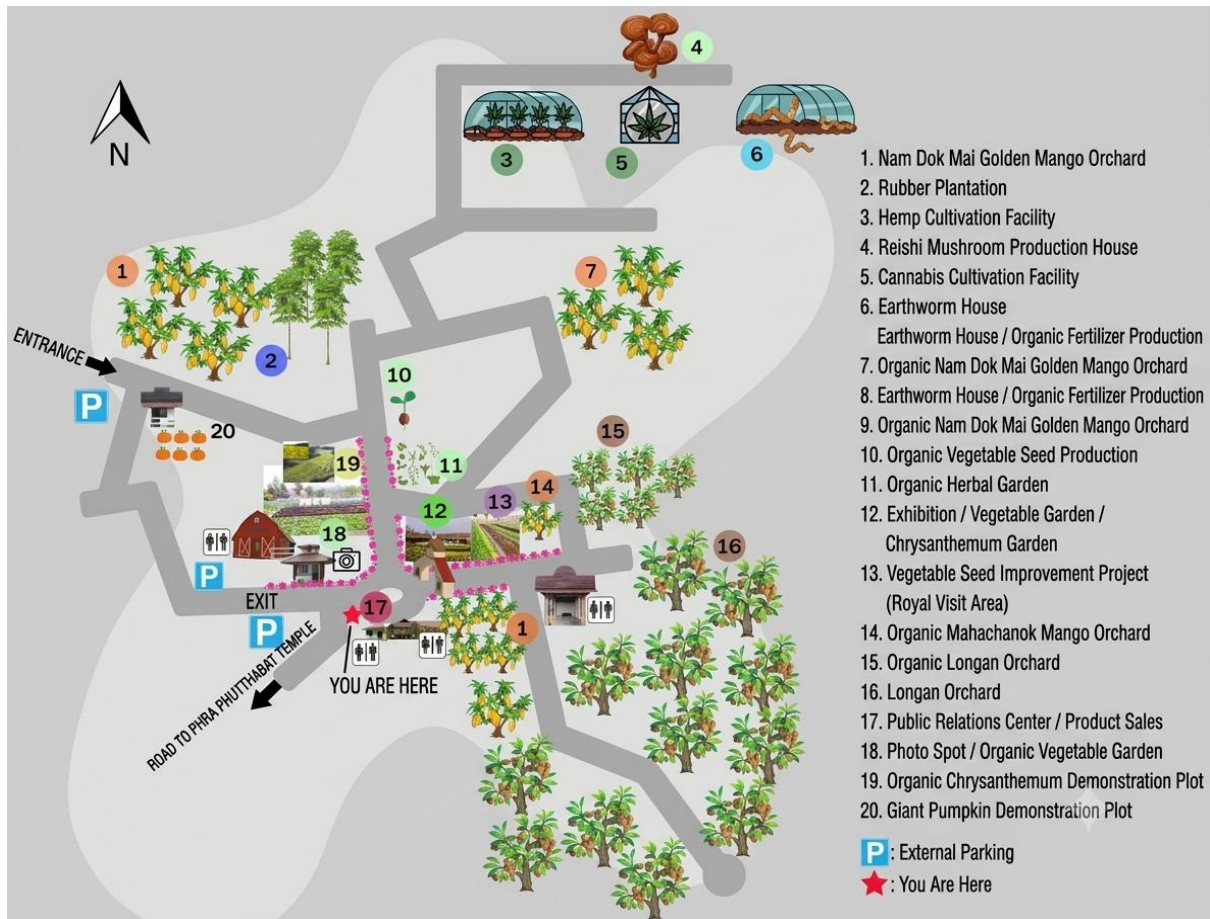
4. Chalerm Phra Kiat Sports Center Building, Zone B, facilitates the transfer of students injured while playing sports at the university to a hospital within the university's network for treatment.

5. Ubonratana Rajakanya Swimming Pool is an international standard indoor facility with a 50 -meter pool, covering an area of 8,000 square meters.

6. The campaign encourages reducing the use of cars and motorcycles by promoting cycling or walking as alternatives. This aims to decrease fuel consumption, lower air and noise pollution, and reduce traffic congestion. Bicycles are an ideal option as they require no fuel, promote the rider's health, produce no toxic emissions, and generate no noise pollution. Additionally, they help save on travel costs. The initiative also encourages all departments to contribute toward making Maejo University a green university

7. MJU Sport Complex, a large facility dedicated to sports and recreation. This comprehensive sports center will support a wide range of activities, promoting healthy exercise for students, staff, and the surrounding community. The MJU Sport Complex is a four-story building (including the basement) with a usable area of 14,920 square meters, designed to accommodate a wide range of sports activities for students, staff, and the local community. This facility embodies the concept of interconnected triangles, inspired by the inflorescence of Maejo University's flowers, which symbolize love, unity, and harmony. The design reflects these themes in both its structural forms and architectural features. The building incorporates smart technology to optimize energy consumption from wind, water, and electric sources, making it an efficient and cost-effective facility. As the first energy-saving sports building among Thai universities, it aims to promote green initiatives and support the development of a Green University.

Conservation: plant (flora), animal (fauna), or wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities (SI8)



Agricultural, fruit, and economic plant germplasm collection area
at the university farm.



Database of plants and animal species on
The Office of Agricultural Research and Extension Maejo University website

พันธุ์พืชกลุ่มพืชสวน (33)



ไม้ดอกไม้ประดับ (36), พืชผัก (9), ไม้ผล (88)

พันธุ์พืชกลุ่มพืชไร่ (9)



ข้าว (2), ถั่วลิสง (6), ข้าวโพดหวาน (1)



ข้าว กข-แม่โจ้ 2
รายละเอียด »



ข้าวเจ้าเก่าหอมแม่โจ้ 1
รายละเอียด »



ถั่วแขก
รายละเอียด »



มะเขือเปราะพวงหยกจักรพันธ์
รายละเอียด »



รองเท้านารี สไปเซเรียม 'แม่โจ้ 75 ปี'
รายละเอียด »



รองเท้านารี สไปเซเรียม 'แม่โจ้ 80 ปี'
รายละเอียด »

Database of plants and animal species on The Office of Agricultural Research and Extension Maejo University website



Green house; Herbs, orchids, foliage plants



Animal farm



Fish conservation



Conservation : We maintain plots for vegetables, herbs, field crops, and ornamental plants, alongside livestock and animal husbandry facilities, serving purposes of genetic conservation as well as education and training. Additionally, we engage in reforestation on open land and the release of native fish species to maintain ecological balance.

Additional evidence link :

- <https://www.facebook.com/FarmMJU>
- <https://researchex.mju.ac.th/dbplant/>
- https://rspg.mju.ac.th/wtms_index.aspx?&lang=th-TH

Impact of Setting and Infrastructure programs in supporting the Sustainable Development Goals (SDGs)



Installation of rooftop solar systems on buildings and student dormitories



Udomslip Female Dormitory (11th Dorm)



Building receiving a certificate of honor
in the “Universal Design Building” category



Regarding sustainable transportation,
there are bicycle lanes and pedestrian walkways



Water Treatment and Reuse in Landscape Applications



Green space



Raw water storage pond

The university has implemented various infrastructure and environmental setting programs that directly contribute to the achievement or impact of Sustainable Development Goals (SDGs). The key programs include:

Maejo University has continuously developed its infrastructure and environmental management systems within the university, with a focus on sustainability and the efficient use of resources. These efforts play an important role in supporting the achievement of the Sustainable Development Goals (SDGs) in environmental, social, and economic dimensions. The various activities and projects implemented contribute to improving environmental quality, enhancing resource use efficiency, promoting equitable access, and strengthening the quality of life of the university community.

1. The University has implemented projects to construct and renovate buildings with energy-efficient performance in accordance with Green Building principles. Buildings are designed to maximize the use of natural lighting and natural ventilation, thereby reducing electricity consumption and greenhouse gas emissions. In addition, Solar Photovoltaic Systems have been installed in suitable buildings to increase the proportion of renewable energy use. These initiatives are aligned with SDG 7: Affordable and Clean Energy and SDG 13: Climate Action. Furthermore, one of the University's buildings received the "Building for All" Honorary Award from the Universal Design Foundation for All, in collaboration with the Ministry of Social Development and Human Security, the United Nations Population Fund (UNFPA), and partner organizations, at the Thailand Friendly Design Expo 2024: The 8th Friendly Design, Health Innovation, and Tourism for All Expo, held at the Bangkok International Trade and Exhibition Centre (BITEC), Bangkok.

2. The University has expanded and developed Green Open Spaces (GOS) throughout the campus to increase carbon dioxide absorption, reduce ambient temperatures, promote biodiversity, and improve air quality within the University. These

efforts contribute to ****SDG 11: Sustainable Cities and Communities**** and ****SDG 15: Life on Land****.

3. In terms of water resource management, Maejo University has raw water sources consisting of a pond with a capacity of ****75,000 cubic meters**** supplying Water Supply System No. 1, a pond with a capacity of ****20,000 cubic meters**** supplying Water Supply System No. 2, a pond with a capacity of ****32,200 cubic meters**** supplying Water Supply System No. 3, and a pond with a capacity of ****60,000 cubic meters**** for agricultural use. In addition, the University benefits from the Mae Faek–Mae Ngat Somboon Chon Irrigation Project and natural canals flowing through the campus. At present, the University has sufficient surface water resources to support both the water supply systems and agricultural activities. The University also promotes efficient water use in its buildings by encouraging the installation of water-saving fixtures, such as automatic faucets and water-efficient toilets. Furthermore, treated water is reused (Water Reuse) for landscape maintenance and area cleaning.

4. In terms of sustainable transportation, the University has developed pedestrian walkways and bicycle lanes to promote low greenhouse gas emission transportation, reduce air pollution, and encourage environmentally friendly modes of travel. These initiatives are aligned with ****SDG 11: Sustainable Cities and Communities**** and ****SDG 13: Climate Action****.

5. In addition, the University places importance on developing infrastructure that is equally accessible to everyone by providing ramps for persons with disabilities, accessible toilets, and a Barrier-Free Learning Environment. These facilities enable staff, students, and visitors, including persons with disabilities, to access services and facilities conveniently and equitably. These efforts are aligned with ****SDG 4: Quality Education**** and ****SDG 10: Reduced Inequalities****.

6. The University has also adopted digital technologies to monitor and manage energy consumption, water use, and the performance of various infrastructure systems by utilizing data for planning and decision-making. These efforts enhance operational efficiency, reduce unnecessary resource consumption, and promote responsible consumption and production in accordance with ****SDG 12: Responsible Consumption and Production****.

Through these integrated efforts in infrastructure development and environmental management, Maejo University has demonstrated its commitment to developing the University as a sustainable learning environment that is resilient to change, inclusive of all people, and environmentally friendly. These efforts support and drive the achievement of the Sustainable Development Goals (SDGs) in a tangible manner.

These programs support the following SDGs: 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 17, addressing key aspects such as poverty alleviation (through equitable access to public space and facilities), good health and well-being, quality education, gender equality, clean water and sanitation, affordable and clean energy, green economic growth, resilient infrastructure, reduced inequalities, sustainable cities and communities, responsible consumption and production, climate action, and the protection of terrestrial and aquatic ecosystems, as well as global partnerships.

Additional evidence link :

- <https://green.mju.ac.th/?lang=en>
- MJU Green University 2025 (youtube.com)
- https://stu2.mju.ac.th/wtms_newsDetail.aspx?nID=27507&lang=th-TH
- https://planning2.mju.ac.th/goverment/20111119104835_planning/Doc_25680317095011_738611.pdf
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6314&lang=>

EC

ENERGY AND CLIMATE CHANGE

7 AFFORDABLE AND
CLEAN ENERGY



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



17 PARTNERSHIPS
FOR THE GOALS



MAEJO GO ECO UNIVERSITY 
THE OPERATION GREEN UNIVERSITY REPORT 2026

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Energy efficient appliances usage (EC1)

One of Maejo University's most essential policies is to encourage using energy-efficient appliances in the university leading to Eco University. Over the year, the university's physical system and environment division has surveyed additional appliances: computers, monitors, printers, televisions, and Refrigerators. **Maejo University also provided significant additional appliances with an emphasis on the energy star symbol and number five label, which is the label, in Thailand, displaying it is an energy-saving appliance.** The percentage of energy-efficient appliances observed over the previous year was around 56 percent. The number of appliances that were surveyed is depicted in Table 2.1. **Appendix 1** demonstrates the number of appliances categorized by factors.

Table 2.1 Number and percentage of energy-efficient appliances compared to all appliances on the campus.

Number of Lighting Appliances	Number of total light bulb	Number of Energy Efficient Appliances (LED)	Percentage of Energy Efficient Lighting Appliances
	62,989	32,654	51.84%
Number of Air Conditioners	Number of total A/C	Number of Energy Efficient Inverter A/C	Percentage of Energy Efficient A/C
	3,089	498	16.12%
Number of Monitors and Computers	Number of total monitors	Number of Energy - Saving certified monitors	Percentage of Energy Efficient Monitors
	2,885	2,656	92.06%
Number of Printers	Number of total printers	Number of Energy-Saving certified printers	Percentage of Energy Efficient printers
	388	141	36.34%
Number of TVs	Number of total TVs	Number of Energy – Saving certified TVs	Percentage of Energy Efficient TVs
	89	82	92.13%
Number of Refrigerators	Number of total Refrigerators	Number of Energy – Saving certified Refrigerators	Percentage of Energy Efficient Refrigerators
	84	43	51.19%
Average Percentage			56.61%

Smart Building Implementation (EC2)

*Min. at least five requirements for each building

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
1	Chutiwat Auditorium	Chiangmai / Thailand							x		x					x				x	461
2	water pumping building 2	Chiangmai / Thailand							x		x					x				x	32
3	Inthanin Stadium's Stand	Chiangmai / Thailand							x		x					x				x	1,821.92
4	New theory's agricultural center	Chiangmai / Thailand							x		x					x				x	124
5	Chemical storage building	Chiangmai / Thailand							x		x					x				x	60
6	Maejo University Gymnasium Zone A	Chiangmai / Thailand				x	x		x		x	x					x	x		x	18,648.39
7	Maejo University Gymnasium Zone B	Chiangmai / Thailand			x	x	x		x		x	x	x	x			x	x		x	5,859.50
8	Princess Maha Chakri Sirindhorn Building	Chiangmai / Thailand				x	x		x		x	x		x		x	x	x		x	12,637.25
9	Thep Sat Sathit Building	Chiangmai / Thailand			x		x		x		x					x	x	x		x	2,803.50
10	Phaephuch Building	Chiangmai / Thailand							x		x					x				x	1,904.00
11	Phra Chuwng Krasetsilp Building	Chiangmai / Thailand							x		x					x				x	2,223.76
12	Thai Agricultural Museum	Chiangmai / Thailand							x		x					x				x	640

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
13	80th year Maejo Building	Chiangmai / Thailand			x	x	x		x		x					x	x	x		x	10,200.00
14	70th year Maejo Building	Chiangmai / Thailand			x	x	x		x		x			x		x	x	x		x	13,421.87
15	Greenhouse building	Chiangmai / Thailand							x		x					x				x	1,827.00
16	Low Pressure water pumping building	Chiangmai / Thailand							x		x					x				x	30
17	High Pressure water pumping building	Chiangmai / Thailand							x		x					x				x	72
18	Electirc bus parking.	Chiangmai / Thailand							x		x					x				x	390
19	Radio communication club	Chiangmai / Thailand							x		x					x				x	28
20	Electrical office	Chiangmai / Thailand							x		x					x				x	328
21	Maintenance building and facility office	Chiangmai / Thailand							x		x					x				x	828
22	Transportation office	Chiangmai / Thailand							x		x					x				x	280
23	Ruean Dhamma Building	Chiangmai / Thailand							x		x			x		x	x			x	607.25
24	Office of president parking garage	Chiangmai / Thailand							x		x					x				x	-
25	Wutthakard Building	Chiangmai / Thailand			x		x		x		x			x		x	x	x		x	631
26	Water supply and sanitation office	Chiangmai / Thailand							x		x					x				x	354.6

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
27	President's office 1	Chiangmai / Thailand			x	x	x		x		x					x	x	x	x	x	1,496.00
28	President's office 2	Chiangmai / Thailand			x	x	x		x		x	x				x	x	x	x	x	6,646.00
29	President's office 3	Chiangmai / Thailand			x	x	x		x		x	x				x	x	x	x	x	893
30	Total wastewater treatment system building (Including bathroom building)	Chiangmai / Thailand							x		x					x				x	183
31	Building and facility unit office	Chiangmai / Thailand							x		x					x				x	828
32	Um Nuay Yotsuk Building	Chiangmai / Thailand			x	x	x		x		x	x				x	x	x		x	16,262.60
33	Ubolratana Rajakanya swimming pool	Chiangmai / Thailand				x	x		x		x					x	x	x		x	4,180.60
34	Terdkrasikorn Canteen	Chiangmai / Thailand					x		x		x					x				x	4,325.00
35	Male dormitory 2	Chiangmai / Thailand			x		x		x		x	x					x			x	5,968.00
36	Male dormitory 3	Chiangmai / Thailand			x		x		x		x	x				x	x			x	1,200.00
37	Male dormitory 4	Chiangmai / Thailand			x		x		x		x	x				x	x			x	3,854.00
38	Male dormitory 5	Chiangmai / Thailand			x		x		x		x	x				x	x			x	1,160.00
39	International students dormitory	Chiangmai / Thailand			x		x		x		x	x				x	x			x	1,048.40

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
40	Female dormitory 10	Chiangmai / Thailand			x	x	x		x		x	x				x	x			x	7,175.00
41	Female dormitory 11	Chiangmai / Thailand			x	x	x		x		x	x				x	x			x	14,500.00
42	Female dormitory 6	Chiangmai / Thailand			x		x		x		x	x				x	x			x	3,854.00
43	Female dormitory 7	Chiangmai / Thailand			x		x		x		x	x				x	x			x	3,854.00
44	Female dormitory 8	Chiangmai / Thailand			x		x		x		x	x				x	x	x		x	6,651.00
45	Female dormitory 9	Chiangmai / Thailand			x		x		x		x	x				x	x	x		x	6,651.00
46	Fishery's Club Building	Chiangmai / Thailand				x			x		x					x	x			x	115.5
47	Fishery Food Production Building	Chiangmai / Thailand				x			x		x					x	x			x	105
48	Fishery Technology Building	Chiangmai / Thailand				x	x		x		x					x	x			x	3,661.64
49	Fishery Technology Laboratory Building	Chiangmai / Thailand				x	x		x		x					x	x			x	3,980.50
50	Fishery Breeding Building	Chiangmai / Thailand				x			x		x					x	x			x	144
51	Fishery's Warehouse	Chiangmai / Thailand				x			x		x					x				x	155.4
52	Fishery Incubation Building	Chiangmai / Thailand				x			x		x					x				x	494
53	Fishery Aquarium Building	Chiangmai / Thailand				x			x		x					x	x			x	48
54	Fishery Research Building	Chiangmai / Thailand				x			x		x					x	x			x	18

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
55	25th year of Faculty of Business Administration Building	Chiangmai / Thailand			x	x	x		x		x					x	x			x	4,042.00
56	Phitthayalongkorn Building	Chiangmai / Thailand			x	x	x		x		x					x	x			x	2,976.97
57	Economic mushroom production learning Center	Chiangmai / Thailand			x				x		x					x				x	114
58	Mushroom learning Center	Chiangmai / Thailand			x				x		x					x				x	-
59	Vegetables planting Greenhouse	Chiangmai / Thailand			x				x		x					x				x	-
60	Rice Mill Building	Chiangmai / Thailand			x				x		x					x				x	405
61	Thai Orchids Building	Chiangmai / Thailand			x				x		x					x				x	500
62	Kumjorn Boonpang Building	Chiangmai / Thailand			x				x		x					x				x	1,212.18
63	Vegetables storage buildings	Chiangmai / Thailand			x				x		x					x				x	360
64	Orchids and ornamental plants learning Building	Chiangmai / Thailand			x				x		x					x				x	320
65	Orchids and ornamental plants exhibition Dome	Chiangmai / Thailand			x				x		x					x				x	708.75

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
66	Production of Ornamental Plants Technology Building	Chiangmai / Thailand			x				x		x					x				x	576
67	Tissue Building	Chiangmai / Thailand			x				x		x					x				x	947.01
68	Vegetable Laboratory Building	Chiangmai / Thailand			x				x		x					x				x	375.5
69	Tissue culture building	Chiangmai / Thailand			x				x		x					x				x	135
70	Pomology Laboratory Building	Chiangmai / Thailand			x				x		x					x				x	480
71	Agronomy Laboratory Building	Chiangmai / Thailand			x				x		x					x				x	444
72	Permpool Building	Chiangmai / Thailand			x	x	x		x		x	x				x	x			x	10,723.00
73	200 yaer Rattanakosin Building	Chiangmai / Thailand			x				x		x					x				x	1,551.15
74	Academic of Soil Science and Training Center of Advanced Soil and Fertilizer Building	Chiangmai / Thailand			x				x		x					x				x	4,846.25
75	Planting Seeds and	Chiangmai / Thailand			x				x		x					x				x	288
76	Earthworm Building	Chiangmai / Thailand			x				x		x					x				x	64
77	Vegetable plant Office	Chiangmai / Thailand			x				x		x					x				x	58

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
78	Agronomy Office Building	Chiangmai / Thailand			x				x		x					x				x	162
79	Suriculture Building 1	Chiangmai / Thailand			x				x		x					x				x	181.2
80	Suriculture Building 2	Chiangmai / Thailand			x				x		x					x				x	129
81	Seedling Incubation Building	Chiangmai / Thailand			x				x		x					x				x	228.8
82	Seed drying silo	Chiangmai / Thailand			x				x		x					x				x	128
83	Patthanavisaitad Building	Chiangmai / Thailand			x	x	x		x		x					x	x			x	3,463.80
84	Suwanwajokkasikit Building	Chiangmai / Thailand			x		x		x		x					x	x			x	2,211.44
85	Chulabhorn Building	Chiangmai / Thailand			x	x			x		x					x	x			x	9,146.00
86	60th year Maejo Building	Chiangmai / Thailand			x	x			x		x					x	x	x		x	25,409.25
87	Saowarat Nityawattana Building	Chiangmai / Thailand			x				x		x					x	x			x	3,694.22
88	Agricultural products' packaging Building	Chiangmai / Thailand				x			x		x					x				x	2,187.00
89	Service Building and Showroom	Chiangmai / Thailand							x		x					x				x	350
90	Engineering Laboratory Building	Chiangmai / Thailand							x		x					x	x			x	3,803.00

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
91	Rubber and Polymer Technology Building	Chiangmai / Thailand				x			x		x					x	x			x	2,262.00
92	Smithanon Building	Chiangmai / Thailand					x		x		x					x	x			x	9,739.66
93	Engineering Laboratory and Classroom Building	Chiangmai / Thailand			x	x	x		x		x					x	x	x		x	19,615.08
94	Pilot factory building	Chiangmai / Thailand					x				x					x	x			x	2,632.00
95	Prasert Na Nakorn Building	Chiangmai / Thailand			x		x		x		x					x	x			x	7,639.41
96	Yangyong Sitthichai Building	Chiangmai / Thailand			x	x			x		x					x	x	x		x	4880
97	Architecture and Environmental Design Building	Chiangmai / Thailand			x		x		x		x					x	x			x	5,469.65
98	Architecture and Environmental Design Building (New)	Chiangmai / Thailand			x	x	x		x		x					x	x			x	5,022.50
99	75th year Maejo Building	Chiangmai / Thailand			x	x	x		x		x					x	x	x		x	5,562.50
100	Canteen	Chiangmai / Thailand							x		x					x				x	248
101	Thammasakmontri Building	Chiangmai / Thailand							x		x					x				x	1,801.50
102	Thep Pongphanit Building	Chiangmai / Thailand			x	x			x		x					x	x			x	9,523.00

No.	Name	Place	Automation		Safety				Energy		Water		Indoor environment				Lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
103	Renewable Energy Classroom Building	Chiangmai / Thailand			x	x			x	x	x	x					x	x	x	x	11,360.59
104	Workshop Building	Chiangmai / Thailand			x				x		x					x				x	1,123.50
105	Renewable Energy Comprehensive Knowledge Center	Chiangmai / Thailand			x	x			x	x	x	x					x	x	x	x	1,071.56
106	Princess Mother Memorial Building	Chiangmai / Thailand			x	x			x		x					x	x			x	6,853.56
107	Energy Research Center 1	Chiangmai / Thailand							x		x					x	x			x	242
108	Energy Research Center 2	Chiangmai / Thailand							x		x					x				x	119
109	International Education and Training Center	Chiangmai / Thailand				x	x		x		x					x	x			x	7,128.51
101	Comprehensive production of ornamental plants and flowers Center	Chiangmai / Thailand							x		x					x				x	-
111	Demonstration rice field	Chiangmai / Thailand							x		x					x				x	-
112	Mongkolcahisit Building	Chiangmai / Thailand							x		x					x				x	1,021.00
113	Wiphat Boonsri Wangsai Building	Chiangmai / Thailand			x	x	x		x		x	x				x	x	x		x	10,377.55
Total																					371,577.77

According to Table 2.1 The area of the smart buildings in Maejo University has qualified at least 5 features, There are **87** buildings qualifying as smart buildings in Table 2.1, which is **369,078.85 m²**. of the area of smart buildings. Compared to all building areas in Maejo University, the percentage of smart building implementation is **99.32%** approximately.

$$\frac{\text{total smart building area}}{\text{total building area}} \times 100\%$$

$$\frac{369,078.85 \text{ m}^2}{371,577.77 \text{ m}^2} \times 100\% = \mathbf{99.32 \% \text{ of the total building area of Maejo University.}}$$

Note : One building could be classified as a smart building if it has a minimum of 5 features. Please add the total smart building area from buildings which are classified as smart buildings.

The evidence provided may also include maps showing the location, area size, or distribution of facilities relevant to the indicators.



Maejo University
Gymnasium Zone A,B



Princess Maha
Chakri Sirindhorn
Building



Thep Sat Sathit
Building



80th year Maejo
Building



70th year Maejo Building



Um Nuay Yotsuk
Building



Female
dormitory 11



Permpool
Building



60th year Maejo Building



Engineering
Laboratory and
Classroom Building



Renewable Energy
Classroom Building



Wiphat Boonsri
Wangsai Building



President's office 2



Male dormitory 2



Female
dormitory 9



Female
dormitory 8



Chulabhorn Building



Smithanon Building



Prasert Na Nakorn
Building



Architecture and
Environmental
Design Building



Architecture and
Environmental
Design Building
(New)



75th year
Maejo
Building



Thep
Pongphanit
Building



Princess Mother
Memorial
Building



International
Education and
Training Center

Renewable energy sources and their amount of the energy produced

Maejo University has eventually pushed the use of renewable energy as an atonement energy source to generate both electricity and heat, Following the university's Green University and Green Office goals. Over the course of a decade, the university's renewable energy-producing capacity has steadily expanded. The University now uses five renewable energy sources such as.

- Solar Power
- Biogas
- Biodiesel
- Biomass
- Wind Power

Solar power (Solar rooftop and Solar Collectors) is the primary renewable energy source on campus. Solar rooftop and solar collectors have been put in the offices and student dormitories to reduce energy consumption from daily activities. The solar rooftop panels were installed at

- The Office of President => 110 kW
- School of Renewable Energy => 660 kW
- Udomslip Female Dormitory => 80 kW
- Faculty of Economics => 20 kW
- Intanin Stadium Stands => 40 kW
- Water production building => 20 kW
- Wastewater treatment=>10 kW

This year, The university completed the installation of a 300 kW solar rooftop plant at Umnuay Yodsuk building, which was finished in July.

In addition, the solar collector panels are installed at

- All dormitories => 1,331 m²
- International Education and Training Center => 85 m²

Maejo University has also used biogas as renewable energy. the Faculty of Animal Science (650 m³) has established a biogas plant, which utilizes livestock byproducts to generate electricity, while the School of Renewable Energy (3 m³) has installed a biogas facility that uses residential raw waste to generate heat.

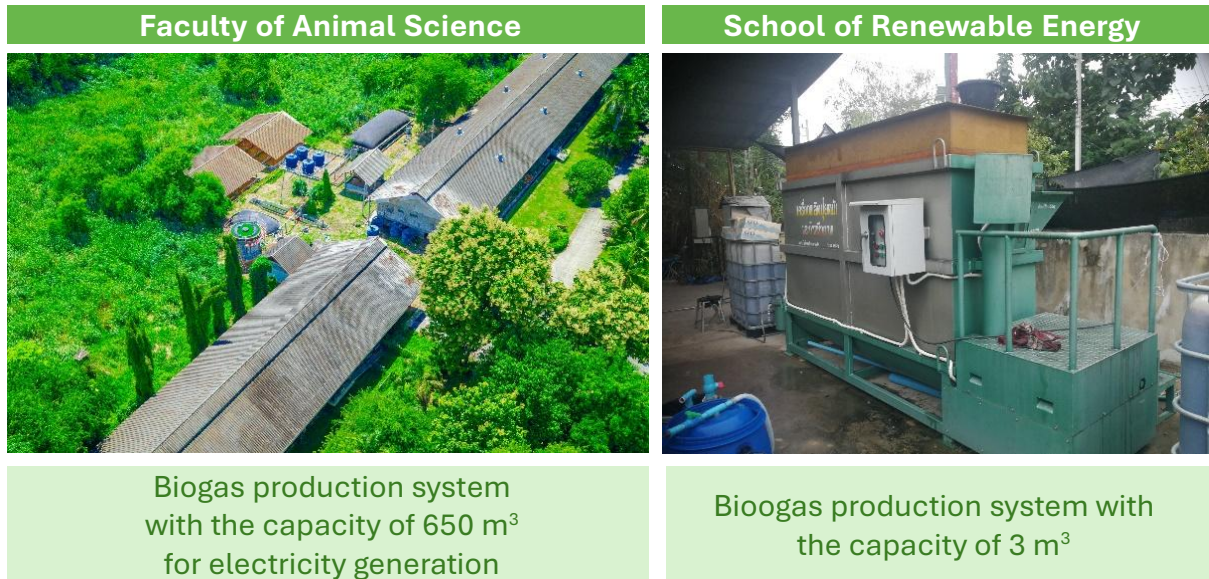
Biodiesel is another renewable energy source that Maejo University has used to manufacture oil from leftover cooking oil. The oil waste delivered from the canteen and cookery shop is converted by transesterification from the biodiesel station, 150-liter production capacity, that is located at the School of Renewable Energy; The biodiesel is used for trucks and tractors at the institution.

Furthermore, Maejo University has implanted the biomass and ORC (Organic Rankine Cycle) plants, each producing 20 kW of electricity, using refuse-derived fuel (RDF) as a fuel. Gases from biomass plant's gasification process are used to generate electricity, which is subsequently sent to a gas generator. The ORC plant, on the other hand, generates electricity by boiling water into superheated steam and operating steam turbine.

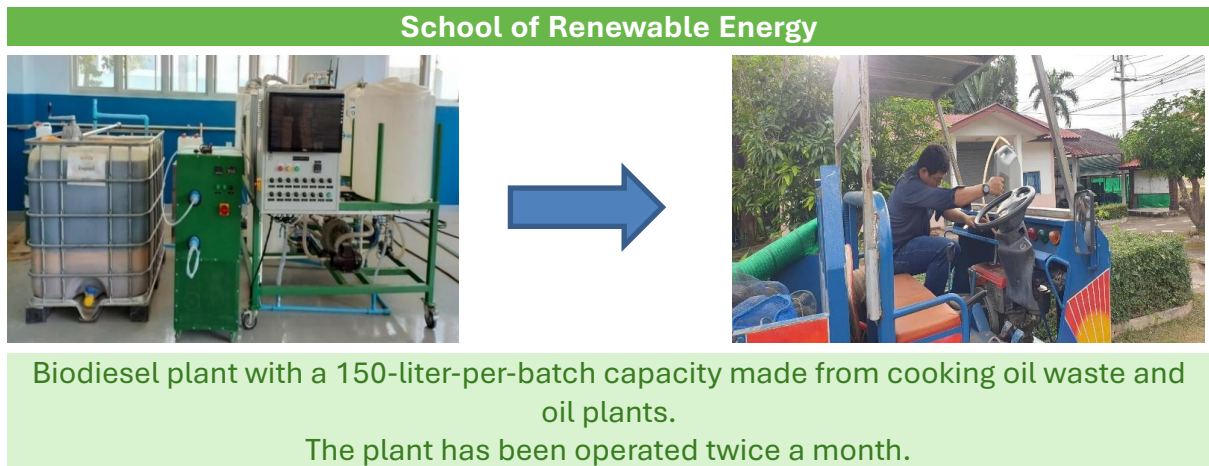
Finally, at the School of Renewable Energy, wind power is clean energy that is used for street lights and generates electricity. In the case of street lights, the wind turbine on the street light, which is powered by the wind, generates power for the battery. On the other hand, the wind turbine (16.5 kW) generates power for the buildings of the School of Renewable Energy, reducing energy consumption from the primary source.

Fig. 2.1 The renewable energy sources at Maejo University.

- **Biogas**



- **Biodiesel**



- **Biomass and ORC**

School of Renewable Energy



Biomass plant



ORC plant

The biomass and ORC power plant with a 20 kW capacity have been built.

- **Solar Power**

President's Office



Solar rooftop with a 110-kW installed capacity

School of Renewable Energy



Solar rooftop with a 40 kW installed capacity at a parking lot



Solar rooftop with a 300-kW capacity on a renewable energy classroom building



Solar panels on the roof of the School of Renewable Energy have a capacity of 660 kW.



A solar tracking station with a capacity of 20 kW has been erected.

Udomslip Female Dormitory (11th Dorm)



Solar rooftop with 80-kW installed capacity

Faculty of Economics



Solar panels with 20-kW installed capacity at a parking lot.

Inthanin Stadium's Stand



Solar panels with 40-kW installed capacity at the stand

Umnua Yodsuk



Solar panels with 300-kW installed capacity on the roof



Solar panels with 10 -kW installed capacity on the roof
Wastewater treatment



Solar panels with 20 -kW installed capacity on the roof
Water production building

• Solar Collectors

All Student Dormitories



Tanks atop the students' dorm and solar collectors with a 1331 m² installed capacity

International Education and Training Center



The International Education and Training Center's roof is covered with solar collectors and an installed capacity of 84 m² tanks.

- **Wind Power**

School of Renewable Energy		
		
For street lighting, 35 units of hybrid system of solar and wind turbines are used.	For street lighting, 35 units of hybrid system of solar and wind turbines are used. (cont.)	On the school of renewable energy, wind turbines with a total capacity of 16.5 kW generate electricity.

Electricity usage per year (in kilo watt hour)

Maejo University's annual electricity consumption 10,805,658.71 kWh/year (January 2025 to December 2025), which is approximately 4.24 % less than the previous year (11,263,938.92 kWh) compare the data of previous year. Maejo University opens every trimester every year. The first term begins in early July and concludes in October. The second term embarks in late November and finishes in March and the summer term, when the number of students is less than the first and second term, starts in mid-April and ends in June. This year, the university has opened fully for academic activities and research. Moreover, the number of students entering the university increased by around 9.65% compared to the previous year compare the data of the previous year. Therefore, the electricity consumption of Maejo University has could save from the previous year.

In this section, it is desired to determine the amount of electricity used on a yearly basis per person working and studying inside the campus. The total electricity consumption divided by the total campus population is equal to 533.21 kWh/person.

- | | |
|--|--------------------------|
| • Electricity usage per year of MJU in 2025 | = 10,805,658.71 kWh/year |
| • Campus population (158,725) | = 20,265 persons |
| • The total electricity usage divided by the campus population | = 533.21 kWh/person |

Figure 1, Electricity consumption over a three-year period at MJU, from 2023, 2024, and 2025. Notably, there was fluctuation in energy usage between January 2023

and December 2025. In July 2024, there was a significant increase, reaching a peak of 1,207,468.00 kWh compared to the same period in other years. After that, for the overall year 2025, from October to December, electricity usage decreased steadily. Over these three years, the lowest usage was 678,131.01 kWh in January 2025. However, in June 2025, there was a significant increase to 959,812.99 kWh, representing an increase of approximately 16.32% compared to September 2024. Comparing electricity usage from 2023 to 2025, it is evident that 2024 showed higher electricity usage in almost every month due to the full resumption of university activities and teaching. However, energy consumption is expected to improve and decrease by 2025.

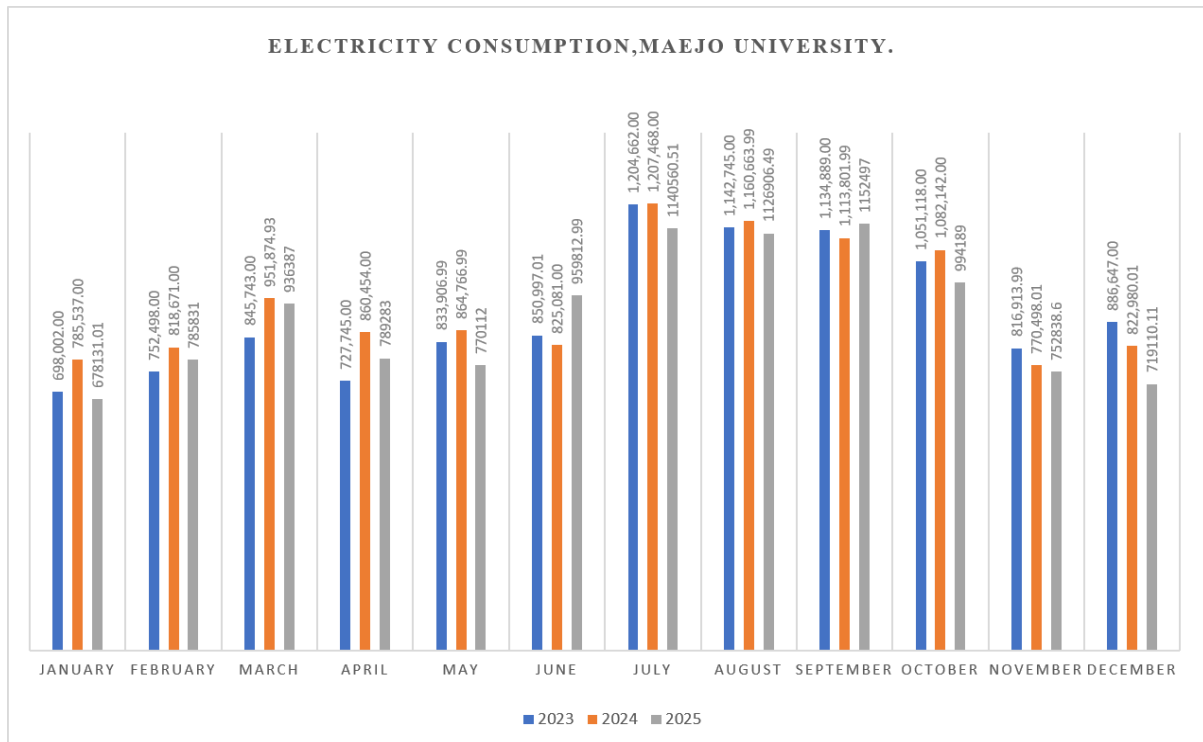
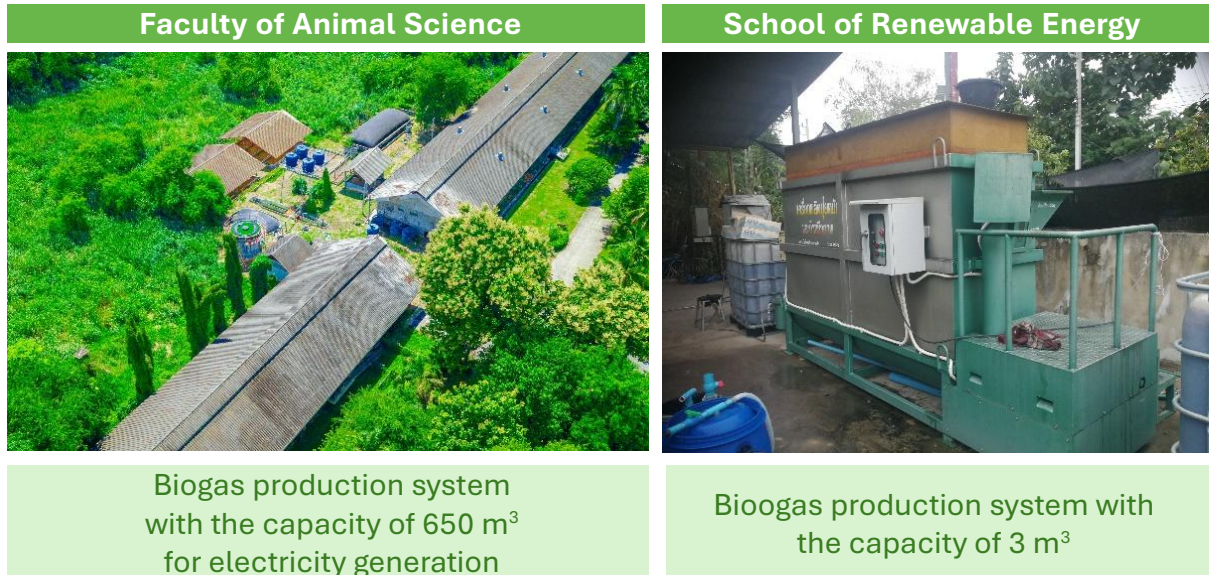


Figure 1. Electricity usage over a four-year period at MJU University, from January 2023 to December 2025.

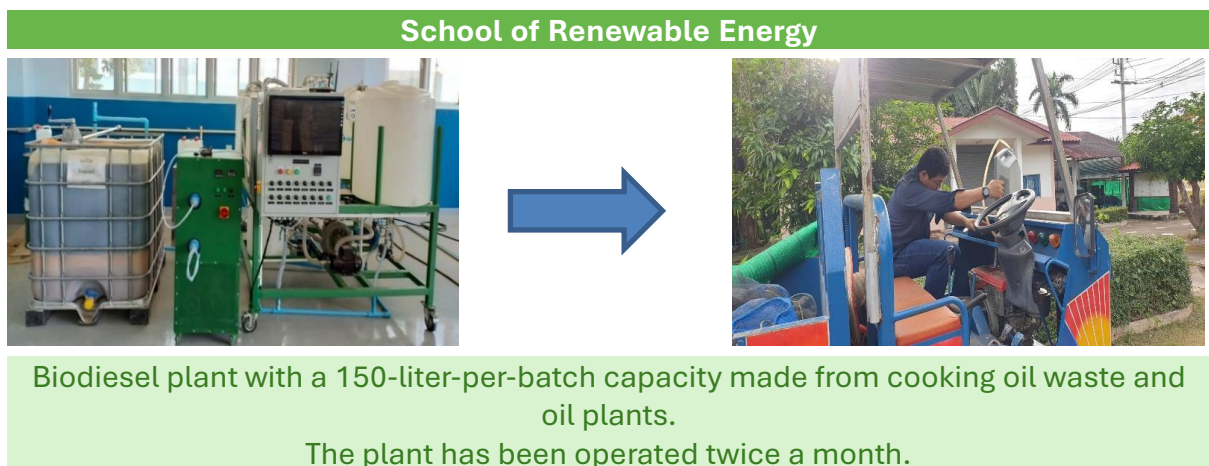
The ratio of renewable energy production divided by total energy usage per year (EC5)

Fig. 2.1 The renewable energy sources at Maejo University.

- Biogas**



- Biodiesel**



- **Biomass and ORC**

School of Renewable Energy



Biomass plant



ORC plant

The biomass and ORC power plant with a 20 kW capacity have been built.

- **Solar Power**

President's Office



Solar rooftop with a 110-kW installed capacity

School of Renewable Energy



Solar rooftop with a 40 kW installed capacity at a parking lot



Solar rooftop with a 300-kW capacity on a renewable energy classroom building



Solar panels on the roof of the School of Renewable Energy have a capacity of 660 kW.



A solar tracking station with a capacity of 20 kW has been erected.

Udomslip Female Dormitory (11th Dorm)



Solar rooftop with 80-kW installed capacity

Faculty of Economics



Solar panels with 20-kW installed capacity at a parking lot.

Inthanin Stadium's Stand



Solar panels with 40-kW installed capacity at the stand

Umnua Yodsuk



Solar panels with 300-kW installed capacity on the roof



Solar panels with 10 -kW installed capacity on the roof
Wastewater treatment



Solar panels with 20 -kW installed capacity on the roof
Water production building

• Solar Collectors

All Student Dormitories



Tanks atop the students' dorm and solar collectors with a 1331 m² installed capacity



International Education and Training Center



The International Education and Training Center's roof is covered with solar collectors and an installed capacity of 84 m² tanks.

- Wind Power

School of Renewable Energy



For street lighting, 35 units of hybrid system of solar and wind turbines are used.



For street lighting, 35 units of hybrid system of solar and wind turbines are used. (cont.)



On the school of renewable energy, wind turbines with a total capacity of 16.5 kW generate electricity.

Included in this file :



Example of Biodiesel Combined Cooling Heating and Power Integration Unit (Shandong Normal University - Lishan College, China)



Example of Biomass Pellet Vacuum Boilers Provide Heating for the Building in winter (Shandong Normal University - Lishan College, China)



Example of Roof and Façade Mounted Solar Panels (Umwelt-Campus Birkenfeld, Germany)



Example of Windmill Parks (Wageningen University & Research, Netherlands)

The production of renewable energy

Table 2.3 illustrates the production of renewable energy compared in kWh/year. Biogas production systems with 653 m³ capacity compensate for 48,238 kWh/year of electricity usage. as well as biomass and ORC power plant can replace 144,000 kWh/year. The biodiesel production system, has produced 3,420 liters of biodiesel/year which can secure 26,331.95 kWh/year of electricity usage. Solar sources including solar power systems and solar collector systems are the most electricity production generating at 2,033,159.31 kWh/year. Furthermore, Wind power systems produce 11,869.80 kWh/year generating electricity and light. Therefore, the summary of the renewable energy produced on campus is around 2,263,599.46 kWh/year. Appendix 3 eventually depicts the energy compensation calculation of the renewable energy sources on the campus. Table 2.4 shows the electricity production of solar power annually from January 2025 to December 2025.

Table 2.3 Electricity Compensation from renewable energy sources at Maejo University in 2025

Sources	Place(s) where the system is installed	Capacity of the system(s)	Electricity Compensation in kWh/year
Biogas	Biogas production system at the Faculty of Animal Science	650 m ³	47,450.00
	Biogas production system at School of Renewable Energy	3 m ³	788.40
	Total	653 m ³	48,238.40
Biodiesel	Biodiesel production system at School of Renewable Energy	150 Liters	26,331.95
Biomass and ORC	Biomass Power Plant at School of Renewable Energy	20 kW	57,600.00
	ORC Power Plant at School of Renewable Energy	20 kW	86,400.00
	Total	40 kW	144,000.00
Solar Power	President's Office	110 kW	115,520.00
	Inthanin Stadium's Stand	40 kW	41,726.00
	Solar Tracking Station at School of Renewable Energy	660 kW	436,476.00
	Udomslip Female Dormitory (11th Dorm)	80 kW	77,804.00
	Faculty of Economics	20 kW	16,309.65
	Umnuay Yodsuk	300 kW	348,630.00
	Water production building	20 kW	18,450.32
	Wastewater treatment	10 kW	8,780.29
	Total	1,240 kW	1,063,696.26
	All dormitories	1,313 sq.m.	910,779.72

Sources	Place(s) where the system is installed	Capacity of the system(s)	Electricity Compensation in kWh/year
Solar Collector	International Education and Training Center	84.60 sq.m.	58,683.33
	Total	1,397 sq.m.	969,463.05
Wind Power	Street Light system at School of Renewable Energy	35 x 100 w	10,731.00
	Wind Power Plant	10 x 1 kW	1,051.20
	Wind Power Plant	1 x3 kW	87.60
	Total	16.5 kW	11,869.80
Sum of Total			2,263,599.46

Elements of green building implementation as reflected in all buildings (EC6)



In alignment with Maejo University's (MJU) comprehensive Green University and Green Office Policy, all campus construction, structural renovation, and retrofitting initiatives are strictly governed by a mandate for ecological sustainability. The university enforces a rigorous design and engineering framework requiring all new architectural developments and modifications to comply with advanced energy-efficient, low-carbon, and eco-friendly standards.

This institutional mandate serves as a core mechanism within MJU's overarching strategy to consolidate and elevate its position in global sustainability benchmarks, specifically the UI Green Metric World University Rankings. To systematically reduce the campus's environmental footprint while fostering climate resilience, the university's infrastructural policies prioritize the following foundational green building elements;

Core Elements of Green Building Implementation

1. Energy Efficiency & Smart Building Integration

The university requires a structural transition from conventional architectures to Smart Buildings. To qualify under MJU's infrastructure goals, building renovations and new installations incorporate:

- **Building Management Systems (BMS)** : Automation networks to actively monitor, manage, and optimize energy and electrical distribution.
- **Advanced Lighting Controls** : Universal deployment of high-efficiency LEDs, movement/occupancy sensors, and design structures that maximize natural daylighting to reduce daytime electricity loads.
- **Climate Adaptation** : Design adjustments aimed at lowering heat transfer (thermal transmittance), such as specialized insulation materials for roofs and ceilings, and minimizing expansive glass facades that cause excessive solar radiation absorption.

Based on the 2021 Green University Report, the completion of Maejo University's Sports Complex marks a significant milestone in the university's sustainable campus development. The facility serves as a multifunctional venue for community engagement, national sporting events, and sports training for students and staff. Importantly, the Sports Complex was designed in accordance with Green Building principles, emphasizing environmental sustainability and energy efficiency.

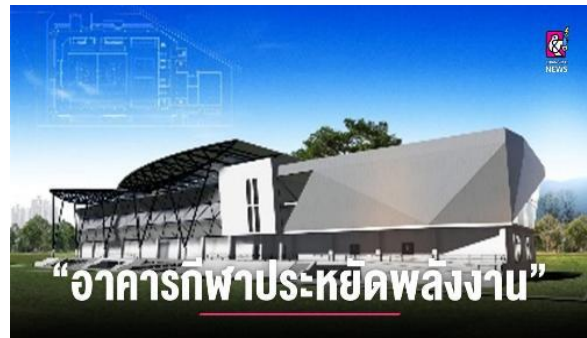
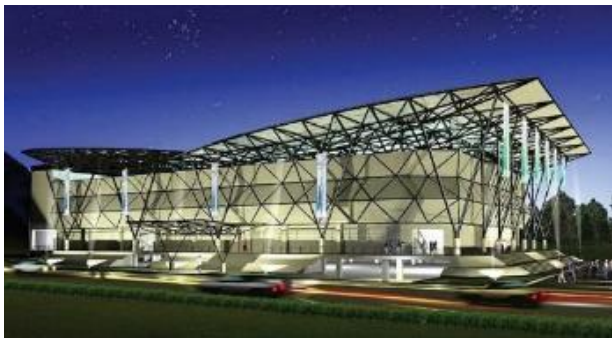
The building incorporates passive design strategies, including natural ventilation to regulate indoor thermal conditions and the extensive use of daylighting to reduce reliance on artificial lighting throughout the facility. These design features contribute to improved energy performance while providing a comfortable and environmentally responsible space for users.

Architectural Design and Sustainable Infrastructural Specifications

To advance Maejo University's Green University mandate, the proposed 4-story facility (including a basement level) spans a total functional area of 14,920 square meters, designed to accommodate approximately 4,000 occupants. The building

integrates low-carbon engineering and energy-saving architectural innovations through the following key features:

- **Renewable Energy Integration** : The rooftop is equipped with a solar photovoltaic (PV) array to generate on-site electricity for building operations, with future scalability to power dedicated Electric Vehicle (EV) charging stations.
- **Water Harvesting & Resource Circularity** : A specialized rooftop drainage system is engineered to harvest rainwater, which is channeled and recycled to sustain the campus futsal field.
- **Thermal Performance & Envelope Optimization** : The building envelope incorporates a structural buffer zone and is clad in high-performance Aluminium Composite Panels (ACP). This material mitigates thermal mass accumulation, prevents heat conduction, and reflects solar radiation, thereby reducing indoor ambient temperatures.
- **Daylight Harvesting & Natural Ventilation** : Strategic upper-level glazing maximizes natural daylighting to minimize artificial lighting loads. Concurrently, the architectural layout optimizes passive cooling and natural ventilation pathways to drastically reduce HVAC energy consumption.



2. Renewable Energy Sourcing

A major cornerstone of the renovation policy is retrofitting current university infrastructure to act as power generation sites.

Solar Rooftop Programs : MJU mandates the strategic installation of solar photovoltaic (PV) power generation systems across faculty buildings, central cafeterias, and covered pedestrian footpaths.

Maejo University's (MJU) deployment of Solar Rooftop Systems represents a cornerstone of its "Green University" framework, heavily influencing its performance in the UI Green Metric World University Rankings.

Under MJU's Green University roadmap, the university actively transitions away from total reliance on the national grid (historically costing around 60 million Baht annually) by progressively scaling internal alternative energy infrastructure. During peak daytime operating hours, when campus electrical loads surge, on-site solar installations consistently offset a significant portion of this demand.

To maintain this growth, MJU established a major formal service agreement with PEA Encom International Co., Ltd. (a subsidiary of the Provincial Electricity Authority). This project dynamically manages, installs, and optimizes rooftop solar power generation across various university faculties, common facilities, footpaths, and student cafeterias.

Unlike most institutions that purely outsource solar parts, Maejo University leverages its own specialized academic resource—the School of Renewable Energy (SRE).

- **Thailand's First University Solar Factory :** MJU operates the first dedicated on-campus solar panel manufacturing plant in a Thai educational institution. This plant manufactures custom, purpose-built photovoltaic panels tailored to unique agricultural and architectural installations.
- **Smart Agri-Voltaics (GIPV) :** MJU researchers developed Glass-In-Building Photovoltaics (GIPV). These semi-transparent solar greenhouses allow specific light spectrums through for crop photosynthesis while simultaneously collecting solar energy to run automated crop monitoring systems.
- **Industrial Testing Equipment :** Backed by partnerships with leading alternative energy firms (such as Solar PPM), the university houses industrial Solar Simulators to test panel efficiencies, degradation rates, and load performance under exact climate variations.





3. Natural Ventilation and Environmental Design

MJU policies emphasize human-centric design that blends structural mechanics with the natural landscape:

- **Air Circulation** : Architectural layouts must support passive cooling and natural indoor airflow, lowering the community's reliance on energy-heavy air conditioning units.
- **Biophilic Elements** : Integrating indoor plant features and maintaining structural shade from surrounding native large trees to mitigate localized urban heat island effects around building envelopes.

4. Water Management and Conservation

Water infrastructure inside new and renovated facilities is bound by localized ecological guidelines:

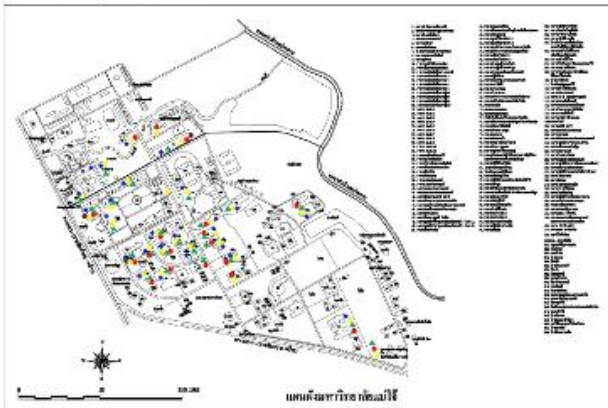
- **High-Efficiency Fixtures** : Installation of low-flow, water-saving appliances to steadily decrease the per-capita tap water consumption across campus zones.
- **Recycling Infrastructure** : Ensuring facilities hook into the university's central wastewater treatment system so that treated water can be effectively reclaimed and diverted exclusively for agricultural and landscape maintenance.



Green University and Green Office Policies



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Map for sorting and recycling bins on the campus



Examples of sorting bins for general waste, recycled waste, organic waste, hazardous waste, and small buckets or ice and liquid

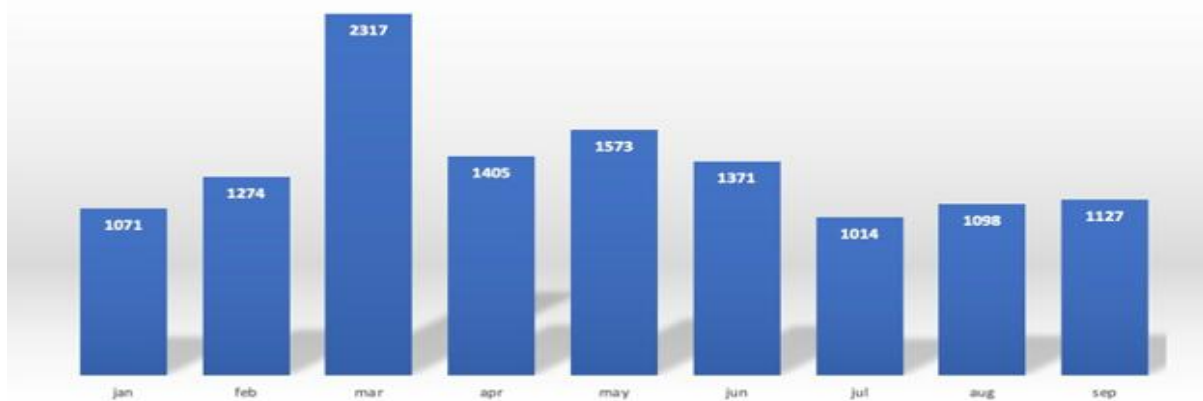


Sorting and Collecting used paper for recycling



Paper shredding to be sold to local recycling companies for recycling

Quantity of Recycle Waste 2022 (Kg.)



Amount of recycle waste generated and sorted in 2022



Aerated static composting systems for yar waste management on the campus

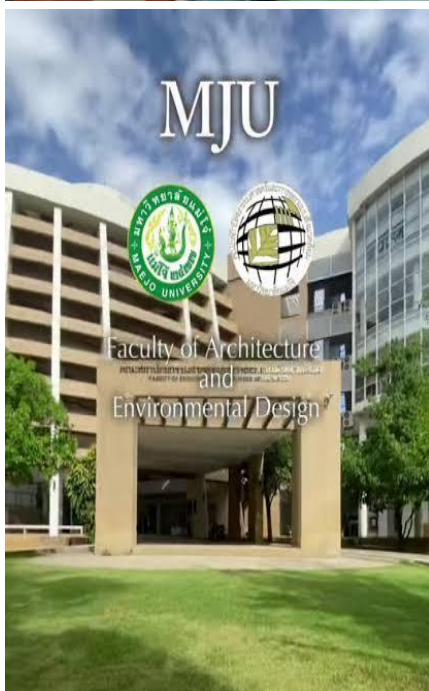


Flowchart of organic waste management.
Food waste was separated and treated by black soldier fly cultivation

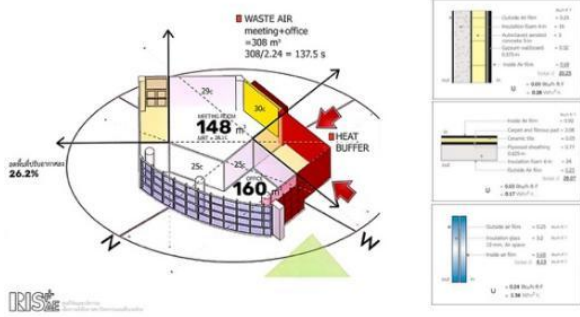


Black soldier fly cultivation for food waste treatment project has been launched and developed for future MJU solid waste management and recycling center

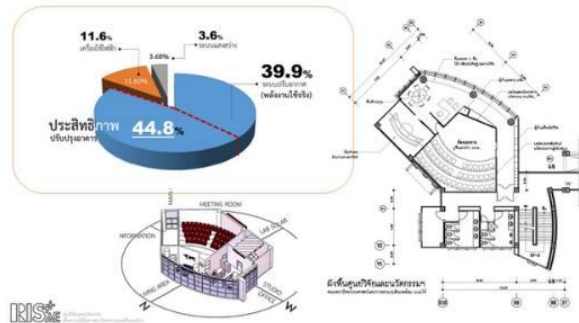
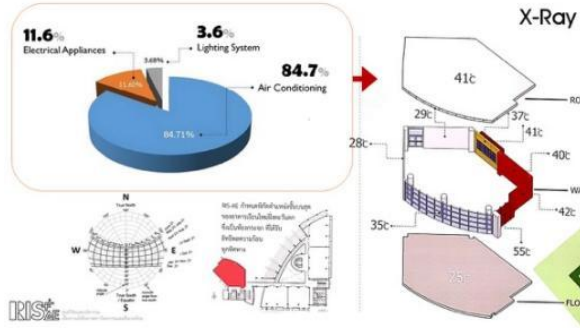
Furthermore, the university has repurposed an underutilized space within the library into a collaborative workspace in accordance with its Green Building principles. The redesign emphasizes the effective use of natural daylight, thereby reducing dependence on artificial lighting and improving overall energy efficiency. This adaptive reuse of existing infrastructure demonstrates the university's commitment to sustainable resource management while providing a functional and comfortable learning environment. By integrating green building practices into campus facilities, the university promotes environmentally responsible operations and supports a culture of sustainability among students, faculty, and staff.



The Architecture and Environmental Design Classroom Building within the Faculty of Architecture and Environmental Design has recently undergone energy-efficiency improvements to enhance its environmental performance. The original building design, in which air-conditioning accounted for approximately 65 % of total energy consumption, was upgraded through the installation of low thermal transmittance insulation and the implementation of an architectural design approach that considers building occupancy and operational patterns. These passive and energy-efficient design strategies have significantly reduced cooling demand, resulting in an estimated 54% reduction in air-conditioning load compared with the original building design. This initiative demonstrates the university's commitment to improving building energy performance while advancing sustainable campus development.



"ปรับปรุง-ก่อสร้าง พื้นที่ศูนย์ RIS-AE ชั้น 5 คณะสถาปัตยกรรมศาสตร์ฯ"



Greenhouse gas emission reduction program (EC7)

Maejo University is a comprehensive agricultural university. So, the greenhouse gas emission programs taking care of the environment are essential for both the university and nearby communities. Maejo University has willingly proceeded the completed program throughout the year categorized by greenhouse gas emission sources into 3 scopes.

Scope 1 :

• Mobile Combustion

- **Car Free Day** : Maejo University has continued to promote the Car Free Day project, which encourages students and staff to utilize bicycles as an alternative mode of transportation for short distances in all departments, reducing reliance on fossil fuel vehicles, and addressing pollution and traffic issues. This effort supports Maejo University's commitment to becoming a Green University. The pictures of this activity can be seen on this [LINK](#)

- **Electric Vehicle for Transportations** : Maejo University has introduced electric shuttle buses, which serve as a means of transportation within the campus for students and staff as part of the university's educational initiatives. The buses follow two designated routes, marked as the red and blue lines, to navigate the university grounds. Next year, the electrical vehicle will be increase to 5.



• Fugitive Emissions

- **Inspecting the condition of the air comfort system** : The university places a strong emphasis on the annual inspection and upkeep of its air comfort systems, an essential practice for optimizing system efficiency and energy conservation. To ensure the highest standard of maintenance, the university has enlisted the expertise of a third-party service provider. This external party is responsible for the meticulous examination and cleaning of the university's air conditioning units. This proactive and outsourced approach guarantees that the systems operate at their best, creating a comfortable and eco-friendly environment for all.



Scope 2 :

- **Purchased Electricity**

- **Cleaning Air conditioners** : Maejo University's commitment to maintaining its air conditioning systems in peak condition remains an annual practice. This year, the university has gone a step further by enlisting the services of a third-party specialist to carry out a thorough cleaning of all air conditioning units across the campus. This proactive approach ensures that every corner of the university benefits from clean and efficiently running air conditioners, fostering a comfortable and conducive environment for its students and staff.



Scope 3 :

- **Waste**

A waste separation system at MJU: The university has completed the construction of a waste separation system capable of handling up to 5 tons of waste per day. The project had an estimated budget of 14,540,000 Thai Baht, spread over six installments across 270 days. The final installment was concluded on October 9, 2023.

The waste separation system comprises:

1. Weighing System
2. Wet Waste Separation
3. Conveyor Belts
4. Metal Sorting Machine
5. Soil Screening Machine
6. RDF Compressor

This process achieves a 100% waste separation rate with the following breakdown:

- Recyclable Waste: 5% (250 kg/day)
- Organic Waste: 45% (2.25 tons/day)
- Incinerable Waste: 30% (1.5 tons/day)
- Residual Waste sent to landfill: 20% (1 ton/day)



• **Commuting**

- **Providing bicycles to students and personnel :** As per the formal agreement established between Maejo University and Anywheel Co. Ltd., a unique opportunity has arisen for students to access bicycles conveniently located near the university's designated stop points. These bicycles are offered at an exclusive and cost-effective rate, catering specifically to the student community. This collaborative initiative promotes sustainable and eco-friendly transportation options, making it easier for students to navigate the campus and its surroundings while contributing to a greener and more environmentally conscious university environment. Total number of bicycle and scooter use in our campus 150 and 50 respectively.



Additional evidence link : <https://erp.mju.ac.th/informationDetail.aspx?newsId=5437&lang=>

The Total Carbon Footprint (CO₂ emission in the last 12 months, in metric tons)

Option 2: Recommended by UI GreenMetric

Data : - Electricity usage per year = 10,805,658.71 kWh/year

The approximate daily travel distance of vehicle inside the campus was calculated from the transportation 4-step model and calibrated with traffic surveying data as follows;
Vehicle type Vehicle Kilometer of Travel

Personal Car	= 2,551.62 km/day
Bus and Truck	= 0 km/day
Motorbike	= 3,298.52 km/day

- Electricity Usage Per Year**

CO₂ emission from electricity = (10,805.65871 × 0.84)
= 9,076 metric ton

- Transportation per year (Car)**

CO₂ emission from car = (approximate travel distance of a car each day inside campus only (in kilometers) * 240/100) * 0.02
= (2,551.62 × 240/100) × 0.02
= 122.48 metric ton

- Transportation per year (shuttle bus)**

CO₂ emission from shuttle bus. = (approximate travel distance of a shuttle bus each day inside campus only (in kilometers) * 240/100) * 0.02
= (0 × 240/100) × 0.02
= 0 metric ton

- Transportation per year (Motorcycle)**

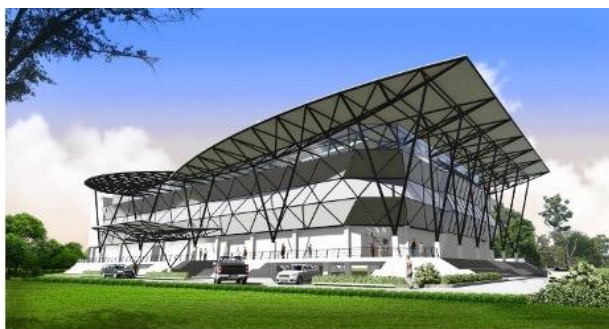
CO₂ emission from motorcycle = (approximate travel distance of a motorcycle each day inside campus only (in kilometers) * 240/100) * 0.01
= (3,298.52 × 240/100) × 0.01
= 79.16 metric ton

Total Emission per year = 9,076 + 122.48 + 0 + 79.16 = 9,277.64 metric ton

Example of Total Carbon Footprint (UI GreenMetric)

Number of innovative program(s) in energy and climate change (EC9)

Based on the 2021 Green University Report, this year marks the completion of the construction of Maejo University's sports complex. This facility serves as a hub for community and national sports events, as well as sports training for Maejo University students and staff. Notably, the sports complex has been designed with a strong emphasis on adhering to Green Building standards. It incorporates natural ventilation to regulate interior temperatures and maximizes the use of daylight to illuminate the entire area of the sports complex.



The Thammasakmontri building is currently undergoing renovation with a strong emphasis on green building strategies. While construction is ongoing, the primary objective is to integrate sustainable features into the design. One of the key components of this design is to maximize natural lighting throughout the day, reducing the need for artificial lighting and saving energy costs. Additionally, the building incorporates highly effective insulation to minimize heat penetration, ensuring a comfortable indoor environment while reducing energy consumption. This commitment to eco-friendly building practices aligns with the university's dedication to sustainability and creating a greener future for its employees and students.



Furthermore, the university has transformed an empty library room into a collaborative workspace, aligning with its green building principles. This innovative conversion aims to minimize the reliance on electrical lighting by capitalizing on the abundance of natural light. This approach not only fosters an environmentally sustainable atmosphere but also encourages a more eco-conscious and energy-efficient way of working, showcasing the university's commitment to incorporating green building practices into its everyday operations.



The Architecture and Environmental Design Classroom within the Faculty of Architecture and Environmental Design has recently undergone energy-efficient upgrades. The earlier design, responsible for 65% of the overall energy consumption related to air conditioning, has been enhanced with the introduction of low heat-transfer insulation and a new architectural concept that considers the occupancy levels and usage patterns of the building. Consequently, when compared to the original design, these modifications have led to a remarkable 54% reduction in the air conditioning load.

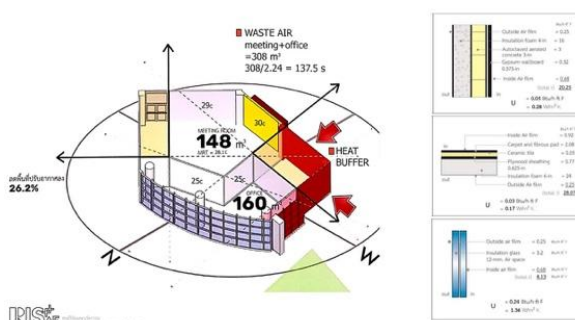
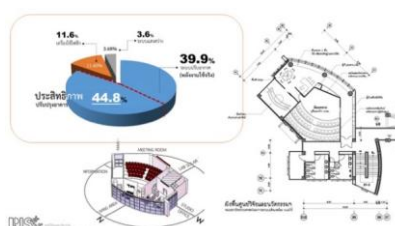
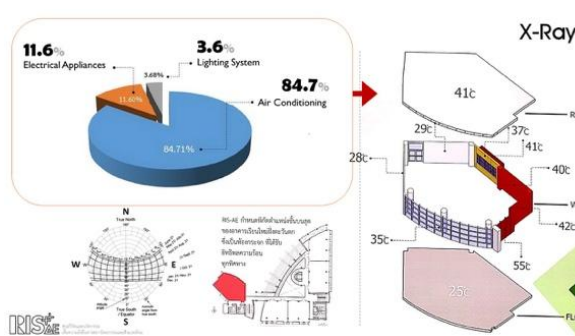
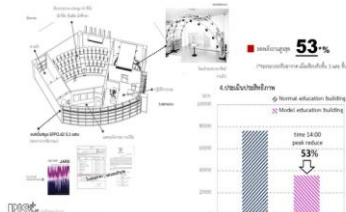


Figure 1 consists of three panels labeled D, E, and F, showing the construction of an experimental facility. Panel D shows a large glass window being installed in a room. Panel E shows a large glass wall being installed in a room. Panel F shows a large glass floor being installed in a room.



*ตรวจรับงานปรับปรุง ศูนย์ RES-AE ชั้น 5 คณะสถาปัตยกรรมศาสตร์

[illegible]

Impactful university program(s) on climate change (EC10)

Community

A project to improve the quality of life for the elderly in San Sai District by generating income from the production of traditional Thai fragrances, specifically Thai perfumed water.

On Thursday, June 5, 2025, Associate Professor Dr. Veerapol Thongma, President of Maejo University, presided over the opening ceremony of MJU ECO DAY, commemorating World Environment Day 2025. Associate Professor Chakrapong Pimpimon, Vice President, gave a report at the event, which aimed to raise awareness of environmental conservation, fostering interconnectedness and understanding the impacts of environmental problems. A large number of university administrators, staff, students, and schoolchildren participated in the event at the Phae Phuech Building, Maejo University.

MJU ECO DAY included various activities such as a Green Talk on the environment by distinguished speakers, Mr. Jirakorn Suwong, a member of the Chiang Mai Tourism Industry Council, and Mr. Prem Phruksathayanon, owner of the "Uncle Saleng and the Missing Trash" Facebook page; a Green Showcase featuring **10** schools from the "Kids Love the World" project network showcasing and sharing their eco-friendly ideas; Green Lifestyle activities such as DIY making bags from recycled vinyl; and knowledge sharing and exchange. The initiative included sharing used items, as well as promoting Green Food—safe and healthy food—which garnered significant interest. Additionally, the organization held a Big Cleaning Day, encouraging everyone to participate in environmental conservation and driving the university's Green Office and Green University initiatives.

The faculty of Agricultural Production at Maejo University welcomed and provided lectures to 25 exchange students participating in the World Assembly 2023 project. The event took place on Wednesday, July 5, 2023, at the Soil and Fertilizer Research Building, Faculty of Agricultural Production. The lectures covered the topic of "Effects of Climate Change on Agricultural Systems in Northern Thailand," and were presented in various subtopics as follows:

- Associate Professor Dr. Suphithida Ongthong lectured on "Soil under Agriculture: Impacts and Mitigating Climate Change."
- Assistant Professor Dr. Sutheera Hemheuk presented on the "Effect of Climate Change on Forestry in Thailand."
- Dr. Wongpan Phromwongsang delivered a lecture on "Black Soldier Fly Addressing Biowaste and Mitigating Climate Change."

The pictures of this activity can be seen on this [LINK](#).

The Coordinating Center for OHEC-MJU (Office of Higher Education Commission - Maejo University) conducted training and development in the learning process related to carbon credits for the course "Biodiversity Management and Area Development for Expanding Learning Outcomes."

On August 21-22, 2023, the Coordinating Center for OHEC-MJU conducted a training program on carbon credit learning for the course "Biodiversity Management and Area Development for Expanding Learning Outcomes" at Maejo University, Chiang Mai. The program was led by Dr. Tipasuda Tatrakoon, with Dr. Pattipan Sutthikulbutr overseeing it. The opening ceremony featured Assistant Professor Pawin Manochai, and lectures were delivered by Associate Professor Khanit Thanuthamcharoen and Mrs. Sirinthip Pacharoen. Practical activities involved local communities from Sakaam Forest Village in Doi Saket, Chiang Mai, and Pong Village in San Sai, Chiang Mai, along with participants from Chor Hea Sub-district Municipality in Phrae and Ban On Tai Sub-district Municipality in Chiang Mai, totaling 40 individuals. The pictures of this activity can be seen on this [LINK](#).

National

Green Office Award

The President of Maejo University presented the G Green Award and certificates of honor to the departments that underwent evaluation for the Green Office program in the fiscal year 2022.

On September 27, 2023, Maejo University awarded four departments for their Green Office program performance in the fiscal year 2022. The results were as follows:

Excellent rating (Gold G)

- Maejo University office (Excellent rating cont. 3 times)
- Maejo University Library (Excellent rating cont. 3 times)
- Faculty of Science (Excellent rating cont. 2 times)
- Ratthanakosin 200 year Building Faculty of Agricultural Product (First evaluation)
- Office building Faculty of Fisheries Technology and Aquatic Resource (First evaluation)
- Campus building faculty of Architecture and Environmental Design (First evaluation)

Excellent rating (Silver G)

- Faculty of Information and Communication (Excellent rating cont. 3 times)
- Numchai Tanuphol Building Maejo University Phrae Campus (First evaluation)

Good rating (Copper G)

- School of Administrative Studies (First evaluation)

These departments will continue as Green Offices. In 2026, the Faculty of Arts will aim to enhance its rating through an external evaluation. Other departments will be evaluated internally and externally every three years to maintain their environmentally friendly certifications, in line with the Department of Environmental Quality Promotion's standards.

The Green Office Steering Committee, chaired by Associate Professor Dr. Surachai Kangwal, officially presented the G Green Award and certificates during the event to recognize and encourage their ongoing efforts in environmental sustainability. The pictures of this activity can be seen on this [LINK](#).

Maejo University's Faculty of Architecture and Environmental Design organized the "BAM Property Design Contest: Green Smart Concept" (Eco-Friendly Home Innovation).

On October 3, 2023, Dr. Chokanan Wanicharotsanasar, the Dean of the Faculty of Architecture and Environmental Design, along with the university administrators and architecture faculty members, joined Khun Chatchawal Kamnil, the Head of Property Development for the Northern Region, and the management of Bangkok Commercial Asset Management Public Company Limited (BAM) to organize the "BAM Property Design Contest: Green Smart Concept." The purpose of this project was to promote educational activities, provide scholarships to architecture students, and integrate their knowledge, skills, and creative thinking to design and enhance residential properties for BAM. These designs aimed to add value to the real estate properties for the benefit of the general public and serve as a model for interested individuals. The event took place in Room 202 at the Faculty of Architecture and Environmental Design. The pictures of this activity can be seen on this [LINK](#).

International

Maejo University's research achievements were recognized with three global awards at the 16th International Invention and Innovation Show (INTARG 2023) held in the Republic of Poland.

Maejo University had two research projects recognized at the 16th International Invention and Innovation Show (INTARG 2023) in Poland, organized by Eurobusiness-Haller. These projects received three awards:

Gold Medal for "Herder Technology" to reduce coronavirus contamination in exported durians, led by Prof. Dr. Jaturapit Varuth. This innovative technology combines ozone and chemical spraying, ensuring safer fruit exports.

Gold Medal and Certificate of Appreciation for the "Air-to-Water Production System" by Assoc. Prof. Dr. Nikorn Homdoun and Assoc. Prof. Dr. Kittikorn Sasujit. This system extracts water from the air using ground cooling and solar energy, addressing water scarcity and promoting water-efficient crop cultivation.

These achievements have practical implications, improving durian export safety and providing water solutions for regions with limited resources in Thailand. The pictures of this activity can be seen on this [LINK](#).

Maejo University International College participated in and delivered lectures on international cooperation at the "2023 China ASEAN Forum on Agricultural Vocational Education" held from September 17th to 19th, 2023, in Nanning, Guangxi, People's Republic of China.

Associate Professor Dr. Raphiphan Dangtongkee, Dean of the International College at Maejo University, participated in and delivered a lecture on international cooperation at the "2023 China ASEAN Forum on Agricultural Vocational Education," held from September 17th to 19th, 2023, in Nanning, Guangxi, People's Republic of China.

During the event, Dr. Raphiphan Dangtongkee emphasized the importance of international collaboration between Maejo University and ASEAN member institutions to enhance education and research in the field of organic agricultural management. The key points discussed during the presentation included:

The Significance of International Cooperation: Dr. Dangtongkee highlighted the importance of collaboration between Maejo University and ASEAN members in advancing education and research in organic agricultural management, possibly through mutual Memoranda of Understanding (MOUs).

Student Exchange Programs: Creating opportunities for students to participate in exchange programs that focus on agricultural education and practical experience at the local level.

Supporting Skills and Education: Supporting international students in developing professional skills and local language proficiency.

Collaborative Research and Problem Solving: Promoting collaborative research to improve organic agriculture and address professional challenges. This involves conducting high-quality joint research.

Dr. Dangtongkee also emphasized the importance of promoting cultural understanding and mutual support in activities that foster cross-cultural exchange among international students. The pictures of this activity can be seen on this [LINK](#).

Additional evidence link :

- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5287&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5375&lang=>
- https://liberalarts.mju.ac.th/wtms_index.aspx?&lang=th-TH
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5448&lang=>
- https://pr.mju.ac.th/wtms_newsDetail.aspx?nID=27605&lang=th-TH
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5418&lang=>

Impact of Energy and Climate Change programs in supporting the Sustainable Development Goals (SDGs)





The university has undertaken a wide range of energy and climate-related programs that contribute significantly to the achievement of the **17 Sustainable Development Goals (SDGs)**. These initiatives demonstrate a strong commitment to reducing carbon emissions, enhancing energy efficiency, and fostering climate resilience. Key programs include:

Maejo University (MJU), recognized as a leading organic and innovation-driven university in Thailand, has aligned its strategic development with the United Nations Sustainable Development Goals (SDGs). In its 2025–2026 framework, MJU has significantly amplified the impact of its Energy and Climate Change programs, integrating them heavily with its specialized agricultural roots to drive measurable progress across multiple SDGs.

The specific impacts of MJU's energy and climate initiatives across key SDGs highlight how these efforts shape a sustainable campus and broader community.

1. Direct Impact on Environmental and Resource SDGs

SDG 7 : Affordable and Clean Energy Maejo University acts as a living laboratory for renewable energy transition.

- **Solar and Biogas Integration:** MJU relies on a combination of decentralized solar rooftop systems and smart building implementation across campus.
- **Agricultural Waste-to-Energy:** Utilizing its swine farms and organic farming waste, the university scales up community-based biogas production systems. This technology treats wastewater while generating clean electricity, establishing a self-sufficient loop that serves as a regional model.

SDG 13 : Climate Action MJU has set a hard target for carbon neutrality, driven by systemic institutional programs.

- **Carbon Offsetting and Tree Health:** MJU runs data-driven tree health assessments across its expansive grounds to audit and compile precise carbon storage data for offsetting.
- **MJU Car Free Day & Sustainable Mobility:** Campaigns like the “900,000 Steps: Walk to Reduce Carbon” and strict policies restricting first-year students from using motorbikes on campus severely curtail scope 1 emissions while fostering low-carbon health habits.

SDG 12 : Responsible Consumption and Production

Energy conservation at MJU is deeply coupled with circular economy practices.

- **The "SUSTAININDUSTRY" Project:** Launched by MJU’s Agricultural and Food Technology Science Park, this initiative actively pushes local SMEs and startups to adopt eco-friendly business models that cut resource depletion and curb industrial pollution emissions.
- **Zero Waste-to-Fertilizer:** Biomass and agricultural waste are diverted into massive community composting initiatives. The processed organic fertilizers displace fossil-fuel-intensive synthetic alternatives.

2. Socio-Economic and Educational Intersections

SDG 2 : Zero Hunger & Sustainable Agriculture

Climate change poses an existential threat to food security. MJU counteracts this by pioneering Net-Zero Agriculture.

- By combining energy programs with agroecology, the university creates climate-resilient farming frameworks.
- Innovations like solar-powered precision irrigation systems protect crop yields against erratic weather patterns, proving that clean energy is fundamental to modern food security.

SDG 4 : Quality Education

MJU effectively bridges the gap between passive academic theory and active green entrepreneurship.

- Energy efficiency, greenhouse gas reduction, and climate adaptation metrics are directly embedded into university curricula.

- Through initiatives like the "Eco Life in U" project and the Green Office Steering Committee, students gain operational skills by auditing the institution's own carbon footprint.

SDG 17 : Partnerships for the Goals MJU extends the impact of its internal climate frameworks to global and regional partners.

- TICA Partnerships: Under the Thailand International Cooperation Agency (TICA), MJU hosts annual international training courses on the Green Circular Economy.
- Tech Alliances: Through collaborations with external tech hubs (such as the PEA Innovation Hub), MJU pilots cutting-edge energy management software (e.g., Hinghoihome and Carbonform), converting academic research into commercialized, scalable climate solutions.

For the previous year, the information was informed us that Since 2023, Maejo University's institutional reporting has highlighted substantive advancements in environmental sustainability and community engagement across diverse operational domains. Central to these strategic initiatives is the codification of green building standards for both newly constructed and retrofitted campus infrastructure.

Additionally, the university has actively promoted sustainable commuting paradigms through the deployment of electric vehicle (EV) shuttle systems and integrated bicycle-sharing networks. Complementing these infrastructure adjustments is a rigorous, comprehensive waste management strategy designed to systematically mitigate, monitor, and process hazardous materials.

Furthermore, Maejo University engages in strategic partnerships with local government authorities to advance regional planning initiatives, with a specific emphasis on the development of affordable housing and the enhancement of environmental protection frameworks. In tandem with these civic efforts, the institution's green procurement policy systematically prioritizes the acquisition of localized, organic, and fair-trade commodities and provisions.

Beyond its environmental and logistical mandates, the university actively contributes to regional cultural preservation through target-oriented projects and the establishment of dedicated pedagogical repositories, such as the Thai Agricultural Culture Museum. Collectively, these initiatives operationalize the university's institutional commitment to environmental stewardship, ethical sourcing, and participatory community collaboration—thereby advancing its longitudinal strategic goals of cultivating a sustainable, inclusive educational ecosystem.

These integrated efforts underscore the university's commitment to transforming its campus into a low-carbon, resource-efficient ecosystem while fostering sustainable behavioral shifts within the broader academic community.

Transportation Program	SDG3	SDG4	SDG7	SDG9	SDG11	SDG12	SDG13	SDG17
1. MJU Car Free Day and MJU Cycling Club	✓	✓			✓	✓	✓	✓
2. Pedestrian Path Service	✓	✓	✓		✓	✓	✓	

Transportation Program	SDG3	SDG4	SDG7	SDG9	SDG11	SDG12	SDG13	SDG17
3. Zero Emission Vehicle Service	✓		✓	✓	✓	✓	✓	✓
4. Road Safety Education for Student	✓	✓			✓			✓
5. MJU Transit EV Shutter Service	✓		✓		✓	✓	✓	
6. Parking Control Activities	✓		✓		✓	✓	✓	
7. Gate Restriction and Vehicle Registration System	✓			✓	✓			
8. MJU Information and Bus Stop Service	✓			✓	✓			
9. MJU Mobile Application by KTB	✓	✓		✓	✓			✓

Appendix 1

Number of appliances categorized by factors

Number of Light bulbs in MJU categorized by type

LED	PLC	INC	HG	MH	SN	FL	T5	SL	SP	HS	MC	PAR	PL
32,654	3,852	426	511	370	52	4257	20,246	80	101	93	63	183	101

Note : FL : Fluorescent

HG : Halohen

HS : High-pressure sodium

INC : Incandescent

LED : Light-emitting diode

MC : Mercury-vapor

MH : Metal halide

PAR : Parabolic aluminized reflector

PL : Compact Fluorescent (Outside Ballard)

PLC : Compact Fluorescent (Inside Ballard)

SL : Compact Fluorescent (Inside Ballard)

SN : Spotlight

SP : Superlux

T5 : T5 Fluorescent

Number of Computers, Printers, TVs, and Refrigerators

		Tourism	Nursing	Animal Clinic	Engineering	Orchid	Central	Plan	Fishery	Agri Production
Computers	Energy-Certified	64	5	1	139	2	61	24	114	17
	Non Energy-Certified	12	0	0	48	0	5	6	25	0
Printers	Energy-Certified	8	0	0	24	0	0	0	0	0
	Non Energy-Certified	0	1	4	14	2	16	6	10	11
TVs	Energy-Certified	3	0	1	4	0	1	0	0	0
	Non Energy-Certified	0	0	0	0	0	0	0	0	0
Refrigerator	Energy-Certified	5	1	2	1	0	0	1	6	3
	Non Energy-Certified	0	0	0	14	0	6	0	0	0

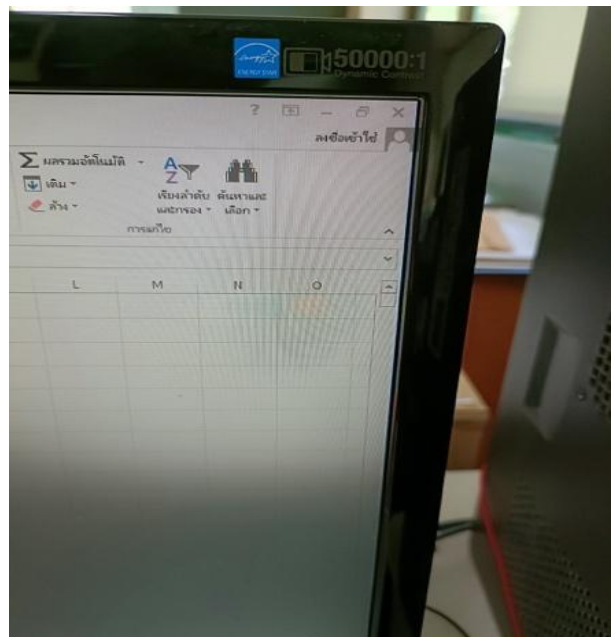
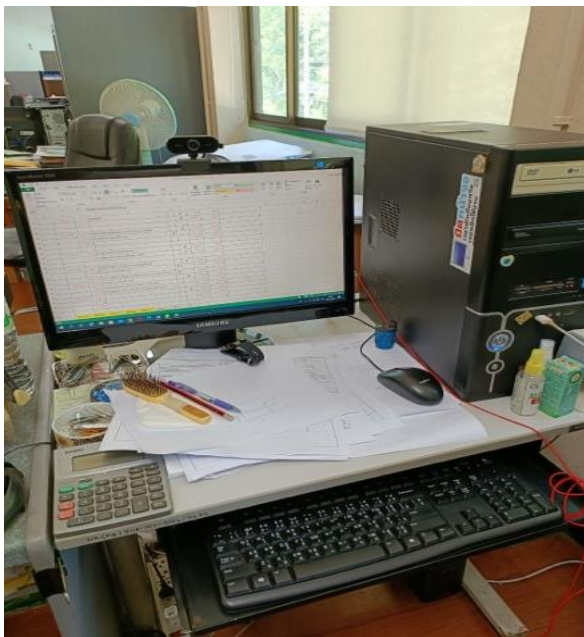
		Science	Liberal Arts	Architect	Econ	MJU Farm	Inter Center	Animal Science	Library
Computers	Energy-Certified	1124	462	105	222	1	29	82	204
	Non Energy-Certified	20	3	1	1	0	10	42	56
Printers	Energy-Certified	0	0	0	0	4	0	86	19
	Non Energy-Certified	75	50	15	23	2	1	0	17
TVs	Energy-Certified	10	7	10	3	3	0	8	32
	Non Energy-Certified	0	0	0	0	1	0	0	6
Refrigerator	Energy-Certified	13	2	2	2	3	2	0	0
	Non Energy-Certified	0	0	0	0	0	0	21	0

		Total
Computers	Energy-Certified	2656
	Non Energy-Certified	229
Printers	Energy-Certified	141
	Non Energy-Certified	247
TVs	Energy-Certified	82
	Non Energy-Certified	7
Refrigerator	Energy-Certified	43
	Non Energy-Certified	41

Pictures of Energy – Certified Appliances categorized by types of appliances



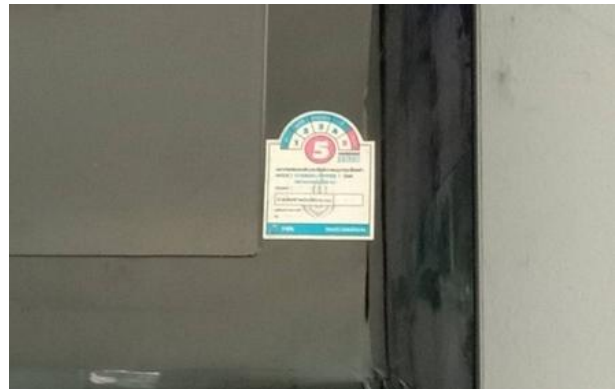
Air conditioner with Number 5 Energy – Certified label



Computer with Energy Start Energy – Certified label



Printers with Energy Start Energy – Certified label



Television with Number 5 Energy – Certified Label



Refrigerators with Number 5 Energy – Certified label

Label No.5 Performance Criteria for Appliances

Air conditioner (Fixed Speed)

* All the appliances at MJU are in No.5 standards. (Blue Shading Cell)

Size of A/C	Performance (BTU/hour/W)			
	No.5	No.5 ★	No.5 ★★	No.5 ★★★
Not over 8,000 W (not over 27,296 BTU/hour)	12.85 – 13.84	13.85 – 14.84	14.85 – 15.84	≥15.85
over 8,000 W – 12,000 W (>27,296 – 40,944 BTU/hour)	12.40 – 13.39	13.40 – 14.39	14.40 – 15.39	≥15.40
over 12,000 W – 18,000 W (>27,296 – 40,944 BTU/hour)	10.00 – 10.99	11.00 – 11.99	12.00 – 12.99	≥13.00

Air conditioner (Inverter / Variable Speed)

Size of A/C	Performance (BTU/hour/W)			
	No.5	No.5 ★	No.5 ★★	No.5 ★★★
Not over 8,000 W (not over 27,296 BTU/hour)	15.00 – 17.49	17.50 – 19.99	20.00 – 22.49	≥22.50
over 8,000 W – 12,000 W (>27,296 – 40,944 BTU/hour)	14.00 – 16.49	16.50 – 18.99	19.00 – 21.49	≥21.50
over 12,000 W – 18,000 W (>27,296 – 40,944 BTU/hour)	14.00 – 16.49	16.50 – 18.99	19.00 – 21.49	≥21.50

Television

Size of TV	Stand By Power	% of Brightness	Performance (W/m ²)			
			No.5	No.5 ★	No.5 ★★	No.5 ★★★
All of sizes	≤ 0.5	≥65%	90.00 – 77.51	77.50 – 65.01	65.00 – 52.51	≤ 52.50

Refrigerator

Type	Volume : AV	Energy Consumption (kWh/year)			
		No.5	No.5 ★	No.5 ★★	No.5 ★★★
Refrigerator	< 100	≤ 0.53AV + 170	≤ 0.50AV + 162	≤ 0.48AV + 153	≤ 0.45AV + 145
	≥ 100	≤ 0.51AV + 137	≤ 0.48 + 129	≤ 0.45AV + 121	< 0.42AV + 112
Refrigerator with Frozen zone	<450L	≤ 0.52AV + 319	≤0.47AV+290	≤0.43AV+262	≤ 0.38AV+233
	≥450L	≤ 0.71AV + 147	≤0.66AV+137	≤ 0.62AV+128	≤ 0.57AV+118

Appendix 3

Energy Compensation Calculation of The Renewable Energy Sources

1. Biodiesel (150 liters capacity)

a. Percentage of Biodiesel Production in the system	95 %
b. Biodiesel Density	822.00 kg/m ³
c. Heating Value of Biodiesel	33.72 MJ/kg
d. Wasted oil in each process	150 liters
e. Biodiesel after processing	$150 \times 0.95 = 142.50$ liters
f. Frequency of Biodiesel production	2 times/month
g. Total biodiesel Production	$142.50 \times 2 = 285.00$ liters/month
h. Total biodiesel Production per year	$285.00 \times 12 = 3,420.00$ liters /year
i. Total biodiesel Production by weight per year	$3,420 \times 0.822 = 2,811.24$ kg/year
j. Heating Value of Biodiesel production per year	$2,811.24 \times 33.72 = 94,795.01$ MJ/year
k. Energy Compensation per year	$= 94,795.01 / 3.6 = 26,331.95$ kWh/year

2. Biogas

a. 650 m ³ capacity at Faculty of Animal Science	
i. Percentage of Biogas Production	10.00 %
ii. Biogas Production per day	65.00 m ³ /day
iii. Biogas Production per year	23,725.00 m ³ /year
iv. Efficiency of Electricity Production per 1 m ³	2.00 kWh/m ³
v. Electricity Production per year	$23,725.00 \times 2 = 47,450.00$ kWh/year
b. 3 m ³ capacity at School of Renewable Energy	
i. Percentage of Biogas Production	36.00 %
ii. Biogas Production per day	1.08 m ³ /day
iii. Biogas Production per year	394.20 m ³ /year
iv. Efficiency of Electricity Production per 1 m ³	2.00 kWh/m ³
v. Electricity Production per year	$394.20 \times 2 = 788.40$ kWh/year

3. Wind Power

a. 100 W Wind Power Street Light	35 items
i. Electricity Capacity	100 W
ii. Average wind velocity at Maejo University	2.5 m/s
iii. Wind Power Production at 2 m/s	35 W
iv. Rough Capacity Factor	$35 / 100 = 0.35$
v. Annual Energy Production	$100 \times 0.35 \times 8760$ $= 306,600.00$ Wh/year
vi. Annual Energy Production of all wind power street lights	$= 306,600 \times 35 / 1000$ $= 10,731.00$ kWh/year
b. 1,000 W Wind Power Turbine	10 items
vii. Electricity Capacity	1,000 W
viii. Average wind velocity at Maejo University	2.5 m/s
ix. Wind Power Production at 2 m/s	120 W
x. Rough Capacity Factor	$120 / 1000 = 0.12$
xi. Annual Energy Production	$100 \times 0.12 \times 8760 = 105,120$ Wh/year

- xii. Annual Energy Production of all wind power street lights
 - = $105,120 \times 10 / 1000$
 - = 1,051.20 kWh/year
- c. 3,000 W Wind Power Turbine
 - 1 item
 - i. Electricity Capacity
 - 3,000 W
 - ii. Average wind velocity at Maejo University
 - 2.5 m/s
 - iii. Wind Power Production at 2 m/s
 - 300 W
 - iv. Rough Capacity Factor
 - $300 / 3,000 = 0.10$
 - v. Annual Energy Production
 - $100 \times 0.10 \times 8760 = 87,600 \text{ Wh/year}$
 - vi. Annual Energy Production of all wind power street lights
 - = $87,600 \times 1 / 1000 = 87.60 \text{ kWh/year}$

4. Solar Collector

- a. 1,313 m² Solar Collector system in every dormitory
 - i. Area of Solar Collectors
 - 1,313.00 m²
 - ii. Average rate of heat production per day
 - 0.7 kW/m²
 - iii. Average peak duration of a solar system
 - 5.23 hours/day
 - iv. Operation days per year
 - 180 days/year
 - v. Operation hours per year
 - $180 \times 5.23 = 941.4 \text{ hours/year}$
 - vi. Heat rate of the system
 - $1,313 \times 0.7 = 919.1 \text{ kW}$
 - vii. Heat compensation
 - $919.1 \times 3600 \times 941.4$
 - = 3,114.87 MJ/year
 - viii. Heater's heat efficiency
 - 95 %
 - ix. Heat compensation compared to the heater's efficiency
 - = $3,114.87 / 0.95 = 3,278.81 \text{ MJ/year}$
 - x. Electricity Compensation
 - $3,278.81 / 3.6 = 910.779.72 \text{ kWh/year}$
- b. 84.60 m² Solar Collector system in every dormitories
 - i. Area of Solar Collectors
 - 84.60 m²
 - ii. Average rate of heat production per day
 - 0.7 kW/m²
 - iii. Average peak duration of solar system
 - 5.23 hours/day
 - iv. Operation days per year
 - 180 days/year
 - v. Operation hours per year
 - $180 \times 5.23 = 941.4 \text{ hours/year}$
 - vi. Heat rate of the system
 - $84.60 \times 0.7 = 59.22 \text{ kW}$
 - vii. Heat compensation
 - $59.22 \times 3600 \times 941.4$
 - = 200.70 MJ/year
 - viii. Heater's heat efficiency
 - 95 %
 - ix. Heat compensation compared with the heater's efficiency
 - = $200.70 / 0.95 = 211.26 \text{ MJ/year}$
 - x. Electricity Compensation
 - $211.260 / 3.6 = 58,683.33 \text{ kWh/year}$

5. Biomass and ORC Power Plant

- a. Biomass Power Plant
 - i. Power Plant Capacity
 - 20 kW
 - ii. Working Day per year (Crop Harvesting Season)
 - 120 days
 - iii. Operation Hour per year
 - $120 \times 24 = 2,880 \text{ hours}$
 - iv. Electricity Production per year
 - $2,880 \times 20 = 57,600 \text{ kWh/year}$
- b. ORC Power Plant
 - i. Power Plant Capacity
 - 20 kW
 - ii. Working Day per year
 - 180 days
 - iii. Operation Hour per year
 - $180 \times 24 = 4,320 \text{ hours}$
 - iv. Electricity Production per year
 - $4320 \times 20 = 86,400 \text{ kWh/year}$

6. Solar Power

The annual electricity production of solar power which has been recorded by the database on the website is demonstrated on Table. 2.4

Table 2.4 Annually Electricity Production of Solar Power

Summary of electricity generation by solar power plant on the campus						
Month	School of Renewable Energy [660 kW]	President's office [110 kW]	Umuay Yodsuk [300 kW]	Faculty of Economics [20 kW]	Udomsilp Dormitory [80 kW]	Intanin Stadium's Stand [40 kW]
21-Sep	49206	9770	34010	1510	6744	2907
21-Oct	48012	8800	29878	1435	6591	3141
21-Nov	48904	9110	32096	1654	6745	3014
21-Dec	48260	9300	33730	1692	6601	3245
22-Jan	48989	9560	33984	1610	6517	2801
22-Feb	38740	9480	33921	1652	6491	2802
22-Mar	50526	11000	37883	1796	6342	2766
22-Apr	77472	10800	36892	1206	6088	3313
22-May	48997	10340	37442	1320	5981	3103
22-Jun	60723	9860	38695	1554	6025	3401
22-Jul	42287	9970	37305	1520	5684	3141
22-Aug	56619	8870	36858	1460	5715	2967
Total each plant	618736	116860	388684	18409	75524	36601
Total	1254814	kWh				

WS

WASTE

3 GOOD HEALTH
AND WELL-BEING



6 CLEAN WATER
AND SANITATION



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



14 LIFE BELOW
WATER



15 LIFE
ON LAND



17 PARTNERSHIPS
FOR THE GOALS



MAEJO GO ECO UNIVERSITY 
THE OPERATION GREEN UNIVERSITY REPORT 2026

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3R (Reduce, Reuse, Recycle) program for university's waste (WS1)



Maejo University's Announcement on
Maejo University Sustainability Action Policy

To establish the Maejo University Sustainability Action Policy, aligned with Maejo University's goal of becoming a leader in sustainable development and gaining international recognition, and to achieve the university's goals in the SDG Impact Ranking by Times Higher Education (THE) within three years (by 2570 B.E.), the following policies are hereby enacted.

Under the authority vested in Section 32 and Section 38 (1) of the Maejo University Act, B.E. 2560, and in conjunction with the resolution of the Executive Committee Meeting B.E. 2567, No. 13, dated August 6th, B.E. 2567. The policy to drive sustainable development goals, comprising 17 goals under 4 main areas, namely, Research, Stewardship, Outreach, and Teaching, is established as follows:



University policy for waste management



Maejo University's Announcement on
Policies and Guidelines for Achieving Sustainable Development Goals

In accordance with the necessity to establish policies and guidelines to achieve Maejo University's sustainable development goals, and under the authority granted by Section 32 and Section 38 (1) of the Maejo University Act, B.E. 2560, combined with the resolution of the Executive Committee Meeting B.E. 2567, No. 13, dated August 6th, B.E. 2567, the following announcement is made:

University policy for Green u and SDG



Green office policy and development



Reduce plastic



Reduce and recycle for Food waste



Reduce paper



Reused paper



Reused plastic waste



Example of 3R Program for University Waste
(Maejo University, Thailand) : Waste Station



Waste Segregation for Recycle



Waste Segregation for Recycle



Example of 3R Program for University Waste
(Maejo University, Thailand) - Reduce Reuse Recycle



Example of 3R Program for University Waste
(Maejo University, Thailand) - Reuse



Example of 3R Program for University Waste
(Maejo University, Thailand) - Recycling Plastic Waste
into Artificial Stones and Flower Pots



Implementation of 3R Program to Drive Maejo University Toward an Eco-University

In alignment with the **Maejo University 100-Year Roadmap**, the university is committed to becoming a **zero-waste community**. To achieve this vision, Maejo University has developed and implemented a comprehensive **3R Program (Reduce, Reuse, Recycle)** as part of its **Solid Waste Management Policy**, supporting both the **Eco University Initiative** (green.mju.ac.th) and the **Green Office Policy** (maejo.link?L=656j). To strengthen and align its waste management strategies with national and global sustainability efforts, Maejo University actively participates in several collaborative programs, including the **Sustainable University Network (SUN)**

Thailand (sunthailand.net), the **Sustainable Development Goals (SDGs)** initiative (sdg.mju.ac.th), the **Sustainable Community Development (SCD)** program (sdg.mju.ac.th/MainSCD.aspx), and the **Green Library Project** (library.mju.ac.th/greenlibrary).

Maejo University has implemented the **3R (Reduce, Reuse, and Recycle)** program as a key strategy to promote sustainable solid waste management and support the university's transition toward becoming an **Eco-University**. The program focuses on **waste reduction**, targeting foam food containers, single-use plastics, food and organic waste, and paper. To enhance **reuse and recycling**, the university has launched awareness campaigns through social media platforms, posters, workshops, and participatory activities that encourage staff and students to segregate and reuse materials effectively.

All faculties, through the Dean's Committee, have committed to the **Green Office** and **Green University** policies, in which solid waste management serves as one of the key performance indicators. Every office and building is equipped with **four waste bins**—for general waste, organic waste, recyclable waste, and hazardous/E-waste—allowing students and staff to easily sort waste. All recyclables such as paper, plastic, glass, and aluminum are placed in designated collection bins for transfer to the recycling center.

Additionally, **100% of food waste** is separated for animal feed and composting, while **100% of yard waste** is collected for the **aerated static composting system**. Alongside proper waste bin allocation, several **3R campaigns and practices** have been implemented, including reducing paper and plastic use, reusing A4 paper for printing, adopting e-meetings and e-documents, and promoting refillable mugs, water bottles, tote bags, reusable food containers, and green coffee breaks during meetings.

In public areas, sufficient **recycling hubs and waste separation stations** have been installed. Collaboration with **AIS**, a private company, was established to promote **E-waste management** through collection points and awareness campaigns encouraging separation of E-waste from general waste.

Maejo University has actively implemented the 3R (Reduce, Reuse, Recycle) Program as part of its comprehensive strategy to enhance sustainable waste management within the campus. For first-year students, a 3R orientation program was organized during the MJU Freshy Welcoming Days to introduce the university's waste management policies, objectives, and practices. In addition, the university organized a seminar entitled “Net Zero University: Learn and Take Action to Create Change”, which emphasized carbon reduction initiatives related to waste, energy, water, and resource management. Up to 200 students from year 1 to 4 attended. The seminar also promoted the application of 3R principles, waste recycling, and the development of value-added products from waste materials, aligning with the university's goal of achieving carbon neutrality.

On 5 June 2025, in recognition of World Environment Day, Maejo University further advanced its sustainability mission by engaging staff members in activities designed to foster a Low-Carbon Organization. These included a discussion forum and a DIY workshop on creating artificial stone pots from plastic waste. Collectively, these initiatives have strengthened awareness, understanding, and participation among both students and staff in waste segregation, reduction, and reuse, contributing to a more sustainable university community. These initiatives foster understanding and engagement among students in waste segregation, reduction, and reuse.

This year in November 2025, Maejo university hosted the 12th annual conference on the Plant Genetic Conservation Project under the Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn (RSPG) for 10 days. We organized waste separation activity at the event. The installation of categorized waste bins for the Maejo Agricultural Fair involved 100 volunteer students participating in the event. They were stationed at 15 waste disposal points, tasked with advising attendees on proper waste disposal practices.



In conclusion, we successfully achieved 100% of 3R (Reduce, Reuse and Recycle) Program for University Waste.

Additional evidence link :

- green.mju.ac.th
- maejo.link?L=656j
- sunthailand.net
- sdg.mju.ac.th
- sdg.mju.ac.th/MainSCD.aspx
- library.mju.ac.th/greenlibrary

Total volume of paper and plastic produced this year

Type of waste	Amount (ton)		
	Produced		Reduced
	Last year	This Year	
Plastic	208	165.22	42.78
- Soft plastic	163	144.01	18.99
- Hard plastic	21	21.21	-
Paper	21	36	-
- White paper	17	27	-
- Cardboard	4	5	-

Implementation of Paper and Plastic Reduction at Maejo University

Maejo University has launched and implemented a range of **policies and initiatives** to minimize **paper and plastic consumption** across the campus as part of its sustainability commitment.

1. Reduction of Foam and Single-Use Plastics

Since **2018**, Maejo University has enforced a policy to **ban foam and minimize single-use plastic products**. The university actively encourages staff and students to adopt environmentally friendly alternatives such as **tote bags, refillable mugs and bottles, reusable food containers**, and **biodegradable products** including **leaf-based plates (MJU Eco Products)** and **biodegradable straws** used in all university coffee shops.

2. Green Office Paper Reduction Policy

To promote efficient paper use, the **Green Office Policy** encourages staff and students to **print on both sides of paper, reuse scrap paper, double-check information before printing**, and **shift to online systems** instead of hard copies. This policy has been implemented across all faculties and administrative offices.

3. Paperless Digital Transformation

The **Maejo University IT Center** supports the transition toward a **paperless workplace** through digital systems such as **E-Meetings, E-Documents, and E-Evaluations**.

- From January to December 2025, the university held 2,040 E-Meetings, resulting in the use of 2,926,489 fewer sheets of paper compared to the previous year, which corresponds to a cost saving of 1,463,244.50 Baht. **(URL)**

Statistics on reducing paper use

Home / Electronic Conference System / Statistics on reducing paper use

Start Date: 01/01/2568 End Date: 31/12/2568 Document printing fee per page: 0.50 Baht Data Display

Departments	Number of Meetings	Number of Papers	Amount
Agricultural and Food Technology Science Park	1	14	7.00
- Agricultural and Food Technology Science Park	1	14	7.00
Faculty of Nursing	19	750	375.00
- Faculty of Nursing	19	750	375.00
Faculty of Engineering and Agro-Industry	25	37,461	18,730.50
- Faculty of Engineering and Agro-Industry	20	36,471	18,235.50
- Office of the Dean of the Faculty of Engineering and Agro-Industry	1	468	234.00
- Educational Services and Student Affairs (Office of the Dean, Faculty of Engineering and Agro-Industry)	4	522	261.00
Faculty of Architecture and Environmental Design	82	43,495	21,747.50
- Faculty of Architecture and Environmental Design	61	38,279	19,139.50
- Office of the Dean of the Faculty of Architecture and Environmental Design	4	496	248.00
- Policy, Planning and Quality Assurance (Office of the Dean, Faculty of Architecture and Environmental Design)	3	1,791	895.50
- Educational Services and Student Affairs (Office of the Dean, Faculty of Architecture and Environmental Design)	14	2,929	1,464.50
Maejo-Phrae University	146	139,628	69,814.00
- Maejo-Phrae University	117	94,447	47,223.50
- Policy, Planning and Quality Assurance (Office of the Dean of Maejo-Phrae University, Chalermprakiat)	6	2,577	1,288.50
- Educational Services and Student Affairs (Office of the Dean of Maejo-Phrae University)	23	42,604	21,302.00
Savings Cooperatives Maejo University	82	30,628	15,314.00
- Savings Cooperatives Maejo University	82	30,628	15,314.00
All departments are included.	2,040	2,926,489	1,463,244.50

- Through the **E-Document system**, an additional **5.81 million sheets of paper** were saved in 2025 (**source**) (15.17 Million sheet in 2024).

Paper Saving Statistics for Government Document System : Graph by Time



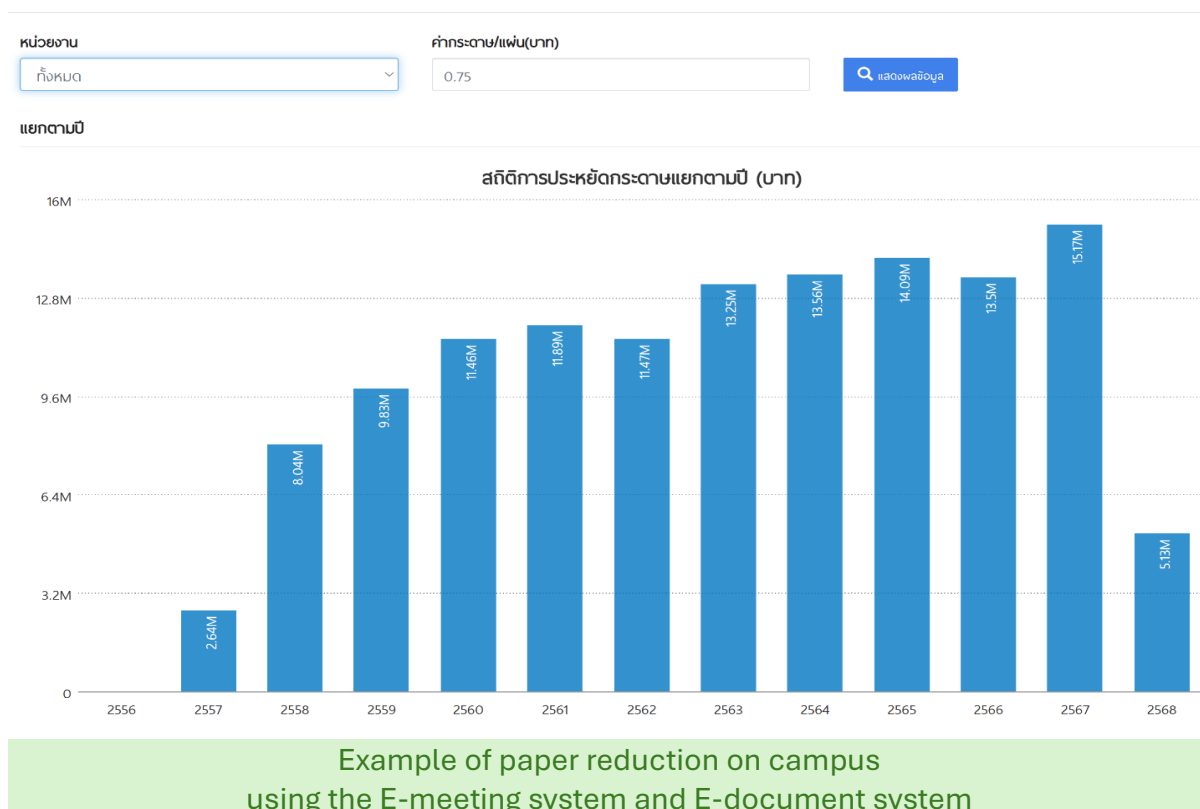
These initiatives significantly **reduce paper consumption**, thereby contributing to **lower CO₂ emissions** and supporting Maejo University's mission to **protect the environment and move toward a carbon-neutral campus**.

Total volume of paper and plastic produced last year

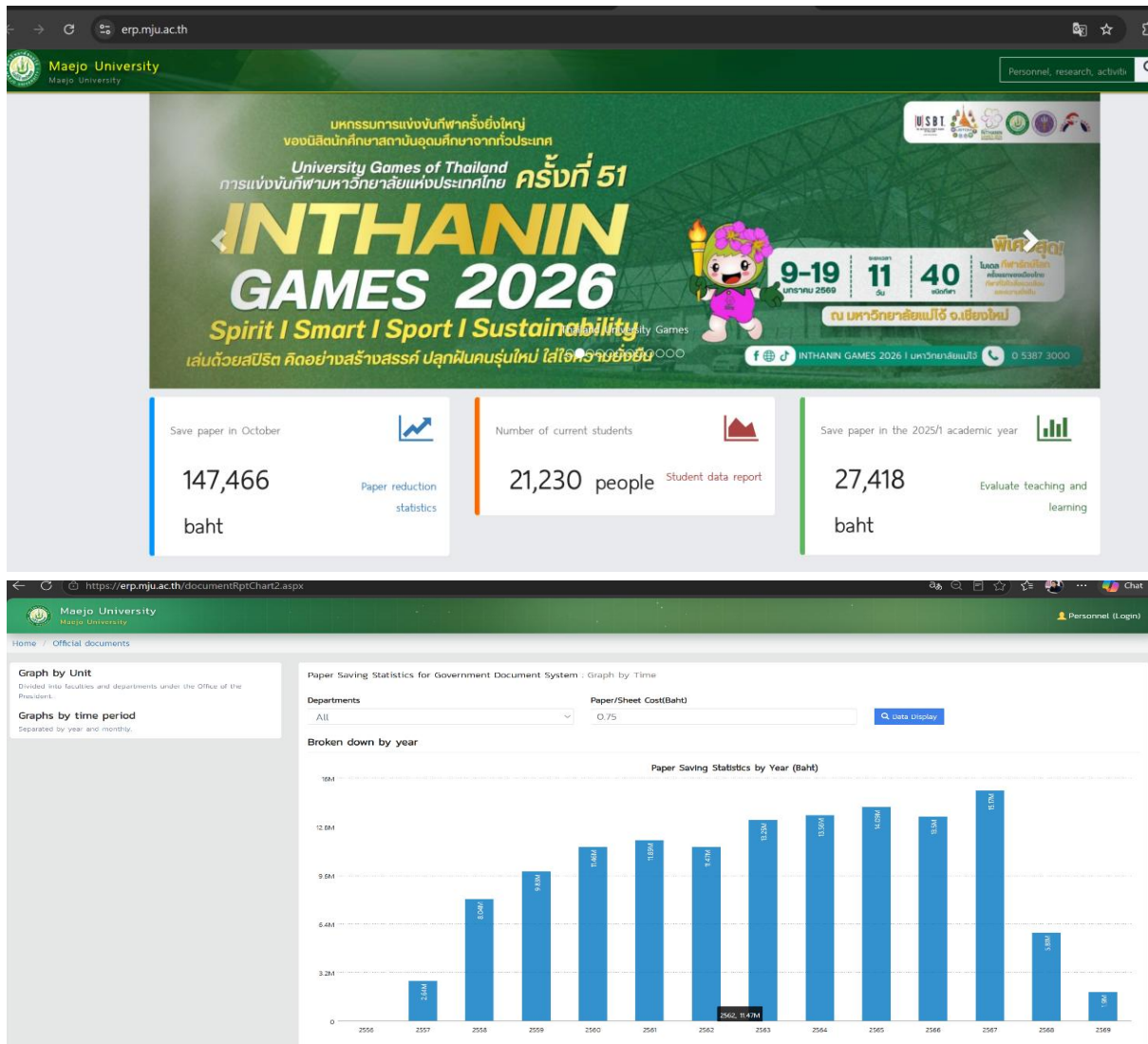
Type of waste	Amount (ton)		
	Produced		Reduced
	Last year	This year	
Plastic	208		
- Soft plastic	163		
- Hard plastic	21		
Paper	21		
- White paper	17		
- Cardboard	4		

Last year, a total of 229 tons of waste were generated on campus, consisting of 208 tons of plastic waste and 21 tons of paper waste. The plastic waste included 163 tons of soft plastic and 21 tons of hard plastic, while the paper waste comprised 17 tons of white paper and 4 tons of cardboard. From January to December 2024, the university held 1,998 E-Meetings, resulting in the use of 5,898,333 more sheets of paper compared to the year 2025, which corresponds to a cost of 2,949,166.50 Baht.

Additional evidence link : <https://erp.mju.ac.th/meetingUsePaperRpt.aspx> 2024



Program to reduce the use of paper and plastic on campus (WS2)



Example of paper reduction on campus using the E-meeting system and E-document system



Campaign for zero waste and plastic reduction



Example of plastic reduction on Campus: Campaign for Plastic Waste Separation and Recycling

Campaign for paper reduction Using 2 sides printing and using reuse papers



Example of plastic reduction on Campus: Green coffee break for the university meeting



Example of Program to plastic reduction on Campus : Collecting and delivering clean beverage cartons and plastic materials to Big C department store and the Green Road Project



Example of Program to plastic reduction activity
on Campus : “Rally Bike Rally Life” activity

Maejo University: Programs to Reduce Paper and Plastic Use

Maejo University has continuously implemented policies and activities to promote sustainable resource use and minimize environmental impacts, particularly focusing on reducing paper and plastic waste in alignment with the Sustainable Development Goals (SDGs) and Green University initiatives.

1. Policy on Reducing Foam and Single-Use Plastics

Since 2018, Maejo University has enforced a policy to eliminate foam and reduce single-use plastics across the campus. Staff and students are encouraged to use reusable items such as tote bags, refillable mugs and bottles, personal food containers, and biodegradable products — including **MJU Eco Products**, such as leaf-based plates and biodegradable straws used in all university coffee shops.

2. Green Office Practices for Paper Reduction

All faculties and departments apply the Green Office policy to minimize paper usage. Practices include:

- Printing on both sides of paper
- Reusing paper when possible
- Rechecking data before printing
- Prioritizing digital systems instead of hard copies

These actions help reduce paper consumption and promote environmental responsibility among staff and students.

3. Implementation of a Paperless System through IT Innovation

The **Maejo University IT Center** supports the transition toward a **paperless workplace** through digital systems such as **E-Meetings**, **E-Documents**, and **E-Evaluations**.

- From January to December 2025, the university held 2,040 E-Meetings, resulting in the use of 2,926,489 fewer sheets of paper compared to the previous year, which corresponds to a cost saving of 1,463,244.50 Baht. (**URL**)
- Through the E-Document system, an additional 5.81 million sheets of paper were saved in 2025 (**source**) (15.17 Million sheet in 2024).

These systems significantly reduce paper waste, lower CO₂ emissions, and contribute to environmental protection.

4. Sustainable Meeting and Event Practices

The university promotes and supports the use of **biodegradable packaging and local products** for meeting refreshments and coffee break sets to minimize plastic waste. Reusable bags, minimal packaging, and organic products are also encouraged and provided as souvenirs to reduce plastic consumption and support local sustainability.

5. Campaigns and Awareness Activities

Various campaigns have been conducted to promote behavioral change, such as encouraging the use of personal mugs and food containers. Discounts and promotional activities from university food and beverage shops support this “Bring Your Own” initiative to reduce plastic waste.

6. Research and Innovation for Eco-Containers

MJU researchers have developed **eco-friendly containers made from natural materials** as sustainable alternatives to plastic packaging. These containers have been distributed across faculties for practical use and to showcase innovation for waste reduction.

7. Collaboration in National Environmental Projects

Maejo University participates in “**The Turn-in Project for the World to Remember**” (**Level 2**) in partnership with **GC** and **AIS**. This project aims to promote waste separation, recycling of plastic waste, and proper management of electronic waste (e-waste), reinforcing the university’s commitment to a greener and cleaner campus.

8. University organized a plastic waste reduction campaign by collecting and delivering clean beverage cartons and plastic materials to Big C Donchan and the Green Road Project on September 10, 2025. This activity aims to support public benefit initiatives and promote environmental responsibility within the university community.
9. University organized the “Rally Bike Rally Life” activity in celebration of World Environment Day. The event aimed to promote bicycle use for transportation, reduce greenhouse gas emissions, and raise environmental awareness within the university community, especially plastic waste reduction to the landfill. The medals were made from recycled plastic, reflecting the commitment to sustainability and waste reduction.

Total volume organic waste produced this year

Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	Down-cycled	Up-cycled
Organic	99.44	87.5			42.5	45
- Food waste	54.44	42.5			42.5	
- Leaf, etc.	45.00	45.0				45
- etc.						

Organic Waste Generation and Management at Maejo University

Organic waste generated at Maejo University primarily consists of leftover food from university canteens, food shops, green bins located in various departments, and yard waste from campus landscape maintenance. The university has established an efficient system to collect, separate, and manage these organic wastes to ensure that they are not mixed with other waste types such as general, recyclable, or hazardous waste.

1. Food Waste Management

A total of 42,500 kilograms of food waste was separated and collected from university canteens, food shops, and green bins placed in each building in 2025. These organic wastes are properly managed for further treatment, as illustrated in the photos below. This separation process ensures that no food waste is discarded improperly or combined with other waste streams, supporting Maejo University's commitment to sustainable waste management practices.

2. Yard Waste Management

Yard waste at Maejo University includes grass clippings, leaves, stalks, twigs, branches, and other landscape debris generated from the maintenance of green and public spaces across the campus.

A total of 45,000 kilograms of yard waste per year is collected from public areas such as roadsides, footpaths, and parks by a contracted cleaning company and then transported to the university's composting area for organic waste recycling. Additionally, yard waste from green spaces within each faculty area is managed by university gardeners, promoting a decentralized yet effective waste management system.

Through these efforts, Maejo University effectively manages over 87,500 kilograms of organic waste annually, demonstrating the institution's strong commitment to sustainable waste management, circular economy principles, and the achievement of the Sustainable Development Goals (SDGs).

Food waste separation and collection from all university canteen and food shops



Yard waste collections



University composting area using the aerated static pile composting process



University composting area using the aerated static pile composting process

Total volume organic waste produced last year

Type of waste	Amount (ton)					
	Produced		Reduced	Reused	Treated	
	Last year	This Year			Down-cycled	Up-cycled
Organic	99.44	87.5			54.44	45
- Food waste	54.44	42.5			54.44	
- Leaf, etc.	45.00	45.0				45
- etc.						

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ปุ๋ยหมักมูลไส้เดือนดิน

เป็นปุ๋ยอินทรีย์ที่ได้จากมูลไส้เดือนดินและเศษวัสดุอินทรีย์...
วิธีการการใช้
 • ผสมกับปุ๋ยเคมีในอัตราส่วน 1 ส่วน มูลไส้ 9 ส่วน
 • ใช้รดแปลง ไร่ 1 ไร่ ใช้มูลไส้เดือนดิน 1 กิโลกรัม หรือใช้ปุ๋ย 1 กิโลกรัม
 • ใช้รดแปลง ไร่ 1 ไร่ ใช้มูลไส้เดือนดิน 1 กิโลกรัม หรือใช้ปุ๋ย 1 กิโลกรัม
 • ใช้รดแปลง ไร่ 1 ไร่ ใช้มูลไส้เดือนดิน 1 กิโลกรัม หรือใช้ปุ๋ย 1 กิโลกรัม

คู่มือการผลิตปุ๋ยไส้เดือนดิน

ศูนย์วิจัยและพัฒนาเกษตรธรรมชาติ มหาวิทยาลัยแม่โจ้
 63 หมู่ 4 ต.หนองหาร อ.สิรินธร จ.อุบลราชธานี 350290
 โทรศัพท์ 053-873730 , 084-4888305
 www.mjunaturalfarming.org
 Facebook.com/maejonaturalfarming

ใส่ดินอินทรีย์
กำจัดขยะอินทรีย์

ศูนย์วิจัยและพัฒนาเกษตรธรรมชาติ
 มหาวิทยาลัยแม่โจ้

Food waste separation and collection from all university canteen and food shops



Yard waste collections



University composting area using the aerated static pile composting process

Total volume organic waste produced treated this year

Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	Down-cycled	Up-cycled
Organic	99.44	87.5			54.44	45
- Food waste	54.44	42.5			54.44	
- Leaf, etc.	45.00	45.0				45
- etc.						

Total Volume of Organic Waste Treated on Campus

In **2025**, Maejo University achieved a **100% treatment rate** for all organic waste generated on campus, totaling **87,500 kilograms**. The university's waste management system ensures that all organic waste is properly separated and utilized through sustainable practices.

Of the total organic waste:

- **42,500 kilograms of food waste** were collected and **reused as animal feed**, preventing unnecessary disposal and promoting resource recovery.
- **42,500 kilograms of yard waste** were transferred to the **Maejo University composting area** for **compost production**.

The composting process converts yard waste—such as leaves, branches, and grass clippings—into nutrient-rich material used as **soil supplements** for campus landscape development. In addition, the compost is **packaged and distributed** to staff, students, and the public during special environmental events.

Each year, approximately **45,000 kilograms of compost** are produced through this initiative. Composting serves as an effective **upcycling process**, transforming organic waste into a **valuable product** that enhances soil quality and supports Maejo University's goals toward a **sustainable, zero-waste campus**.



University composting area using the aerated static pile composting process



Compost produced from MJU organic waste was used for soil amendments for the landscape areas in the campus



Compost produced from MJU organic waste was used for distribution to staff, students and community

Organic Waste Treatment (WS3)



Campaign to separate food waste



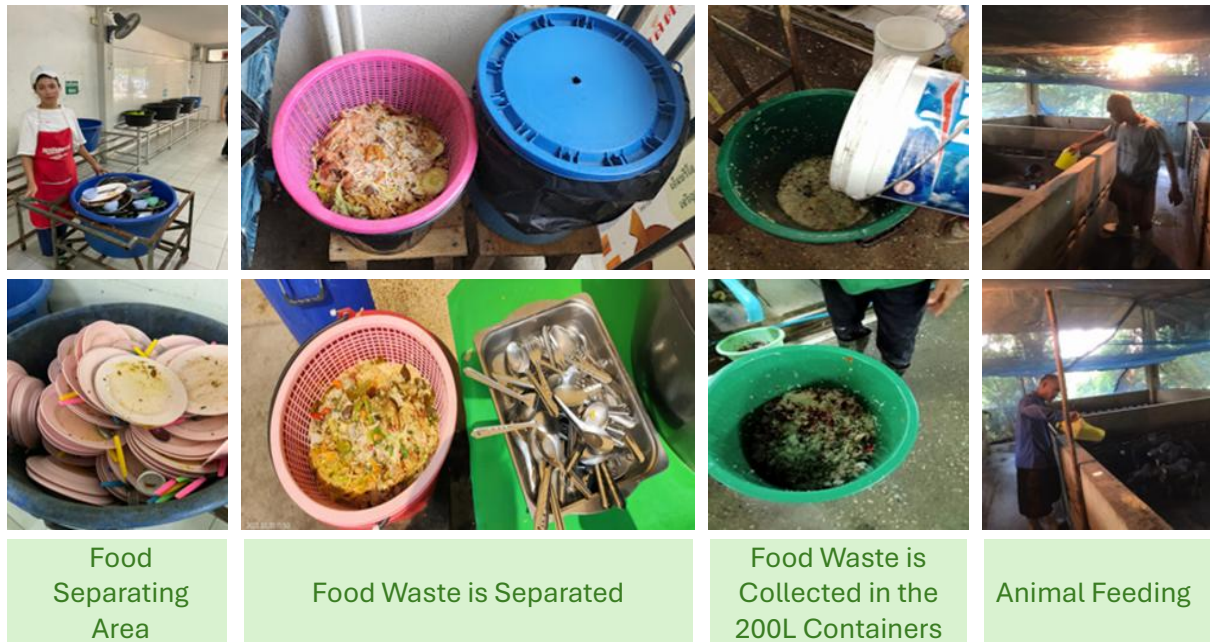
Organic Waste Treatment for food waste from office Green cone: Maejo University



Organic Waste Treatment for food waste from canteen : Maejo University



Organic Waste Treatment for food waste from canteen : Maejo University



Organic Waste Treatment for Yard Waste : Maejo University



Organic Waste Treatment for Yard Waste : Maejo University



Organic Waste Treatment for Yard Waste : Maejo University



Organic Waste Treatment for food waste using black soldier fly larvae



Output from Yard Waste Treatment : Composts



Output from Yard Waste Treatment : Composts

Organic Waste Treatment on Campus

Maejo University has established a comprehensive and efficient system for organic waste management, ensuring that all biodegradable materials are properly separated, treated, and reused in alignment with sustainable development principles.

Sources and Management Approach

Organic waste at Maejo University primarily originates from canteens, food shops, and yard maintenance activities. These materials are systematically managed through reuse and composting to minimize landfill disposal and promote circular resource use.

Food Waste Management

The university operates a structured system for food waste separation and collection, supported by continuous awareness campaigns encouraging students and staff to separate food waste from other waste streams. A dedicated collection system and designated storage locations are established at canteens and food shops to ensure proper handling. We have also launched a new project for efficient food waste management using black soldier fly larvae, which not only rapidly decomposes food waste but also converts it into a valuable animal feed supplement.

Maejo University collaborates with a local pig farmer under a contractual agreement to reuse collected food waste as animal feed. Food waste is collected daily and transported directly to the farmer's pig farm located near the university. This system enables the 100% utilization of food waste, effectively reducing organic waste disposal while supporting local livelihoods and promoting community sustainability. A flow chart illustrating the food waste treatment process is provided in the accompanying image.

Additionally, food waste generated from offices is managed through the Green Cone Project, initiated by the Green Office Committee. A total of 10 green cone composting bins has been installed across the campus to enable decentralized food waste treatment. Office staff actively participate by separating food waste daily, which is then processed in the green cones through natural composting.

Yard Waste Composting

Yard waste, including grass clippings, leaves, branches, and shrub trimmings, from campus landscape management is transported to the MJU Composting Area. Here, the waste is treated using the aerated static pile composting technology developed by Associate Professor Teerapong Sawangpunyangul and his research team. In addition, MJU staff have conducted research on biochar production, transforming agricultural waste into valuable products. This approach can be further extended to benefit and serve neighboring communities.

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CHARMIGHT
ด้านชีวภาพ
เสริมจุลินทรีย์บำรุงดิน

ด้านชีวภาพ หรือ Biochar
ด้านผลิตภัณฑ์ที่ได้จากการนำวัสดุเหลือใช้ (เช่น เศษไม้ เศษใบ) ในสภาพที่ไม่ออกซิเจนน้อย หรือเรียกว่า กระบวนการไพโรไลซิส (Pyrolysis) โดยไม่เผาไหม้จนเป็นถ่านหินจนเกินไป

ประโยชน์ของ ด้านชีวภาพ

- ช่วยบำรุงดิน
- ลดการใช้น้ำ
- ลดการปล่อยก๊าซเรือนกระจก
- ลดการใช้น้ำ
- เพิ่มผลผลิต
- ช่วยลดขยะ

จุดเด่นของ charmight

- ผลิตจากวัสดุเหลือทิ้งทางการเกษตร
- ไม่ปนเปื้อน
- ไม่ก่อให้เกิดมลพิษ
- ไม่ก่อให้เกิดกลิ่นเหม็น

การผลิตด้วยเทคนิคพิเศษ

- เผาแบบปิด
- ไม่ก่อมลพิษ
- เสริมจุลินทรีย์

ผลลัพธ์จากการใช้งานจริง

- เพิ่มผลผลิต
- ลดต้นทุน
- ลดต้นทุน
- ลดต้นทุน

การแก้ปัญหา ลดขยะ จากการเกษตร

ผศ.ดร.เบญจรัตน์ ผลจันทร์
หลักสูตรเทคโนโลยีสิ่งแวดล้อม
คณะวิทยาศาสตร์ ม.แม่โจ้

ในแบบฉบับ:

มหาวิทยาลัยแม่โจ้
ศูนย์จัดการขยะและของเหลือใช้
www.maejo.ac.th

In 2025, Maejo University successfully produced approximately 40 tons of high-quality compost. Laboratory analysis confirmed that the compost contained 26.1% organic matter, 1.3% total nitrogen, 1.68% total phosphorus, and 0.26% total potassium, meeting standards for soil enrichment. The resulting compost is used for campus landscape development and distributed to MJU staff and students during environmental awareness events.

Total volume inorganic waste produced this year

Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	Down-cycled	Up-cycled
Inorganic non-toxic	659.43	435.59	223.84			
- Paper	21 (3.18%)	36 (8.26%)		36	36	
- Soft plastic	163 (24.72%)	144.01 (33.06%)	18.99		144.01	
- Hard plastic	45 (6.82%)	21.21 (4.87%)	23.79		21.21	
- etc. (metal, glass bottle)	3.6 (0.55%)	8.41 (1.93%)			8.41	
Disposal	426.83 (64.73%)	225.96 (51.88%)	210.87			

Maejo University has continued to strengthen its commitment to sustainable waste management through systematic reduction, reuse, and recycling practices. In the current year, the total amount of inorganic non-toxic waste generated on campus was 435.59 tons, marking a significant 34% decrease from 659.43 tons recorded in the previous year. This reduction demonstrates the success of the university's proactive measures to minimize waste generation at the source and promote responsible consumption behaviors among staff and students.

A total of 223.84 tons of waste was reduced through various initiatives, including improved waste segregation systems, awareness campaigns, and the adoption of environmentally friendly materials. Within the inorganic waste categories, paper waste increased slightly from 21 tons (3.18%) to 36 tons (8.26%), mainly due to enhanced waste collection and reporting accuracy. However, all paper waste was effectively down-cycled for reuse as recycled paper products.

Soft plastic waste decreased from 163 tons to 144.01 tons, with 18.99 tons reduced at source and the remaining amount sent for down-cycling into secondary materials. Hard plastic waste also showed a notable decline from 45 tons to 21.21 tons, supported by 23.79 tons of source reduction and 21.21 tons treated through down-cycling. Furthermore, waste from metal and glass bottles increased slightly from 3.6 tons to 8.41 tons, reflecting better waste collection and recovery efforts, with all materials being down-cycled for reuse in recycling industries.

Importantly, disposal waste sending to landfill was significantly reduced from 426.83 tons (64.73%) to 225.96 tons (51.88%), equivalent to a 47% decrease. This achievement highlights the effectiveness of Maejo University's integrated waste management system, which emphasizes the 3Rs (Reduce, Reuse, Recycle) and promotes a circular approach to resource use.

Overall, the continuous decline in total waste generation and disposal reflects Maejo University's strong progress toward becoming a green and sustainable campus,

in alignment with its long-term Green and Sustainability Action Plan and the national roadmap for sustainable development.

Total volume inorganic waste produced last year

Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	Down-cycled	Up-cycled
Inorganic non-toxic	659.43					
- Paper	21			21	21	
- Soft plastic	163				163	
- Hard plastic	45				45	
- etc (metal, glass bottle)	3.6					
Disposal	426.83					

Inorganic Non-toxic Waste Management

Maejo University emphasizes effective inorganic non-toxic waste management in alignment with its Green University policy and Sustainable Development Goals (SDGs), particularly SDG 12: Responsible Consumption and Production.

During the previous year (2024), the university generated a total of **659.43 tons** of inorganic non-toxic waste. The main waste components included **paper (21 tons)**, **soft plastic (163 tons)**, **hard plastic (45 tons)**, and **other materials (3.6 tons)**.

Through the implementation of the 3R (Reduce, Reuse, Recycle) strategy, these wastes were managed systematically:

- **Paper** was **reused** for printing and note-taking purposes until no longer usable, after which it was **collected and sent for recycling**.
- **Soft plastics** such as packaging materials were **down-cycled** into new plastic products, reducing the demand for virgin plastic.
- **Hard plastics** were **recycled and up-cycled** into value-added materials such as artificial stones and flower pots for campus landscaping.

The university collaborates with certified waste management partners to ensure that all recyclable materials are properly treated and reintroduced into the circular economy. As a result, inorganic non-toxic waste was fully diverted from disposal, achieving a **100% recycling and recovery rate** for the reporting period.

Total volume inorganic waste treated this year

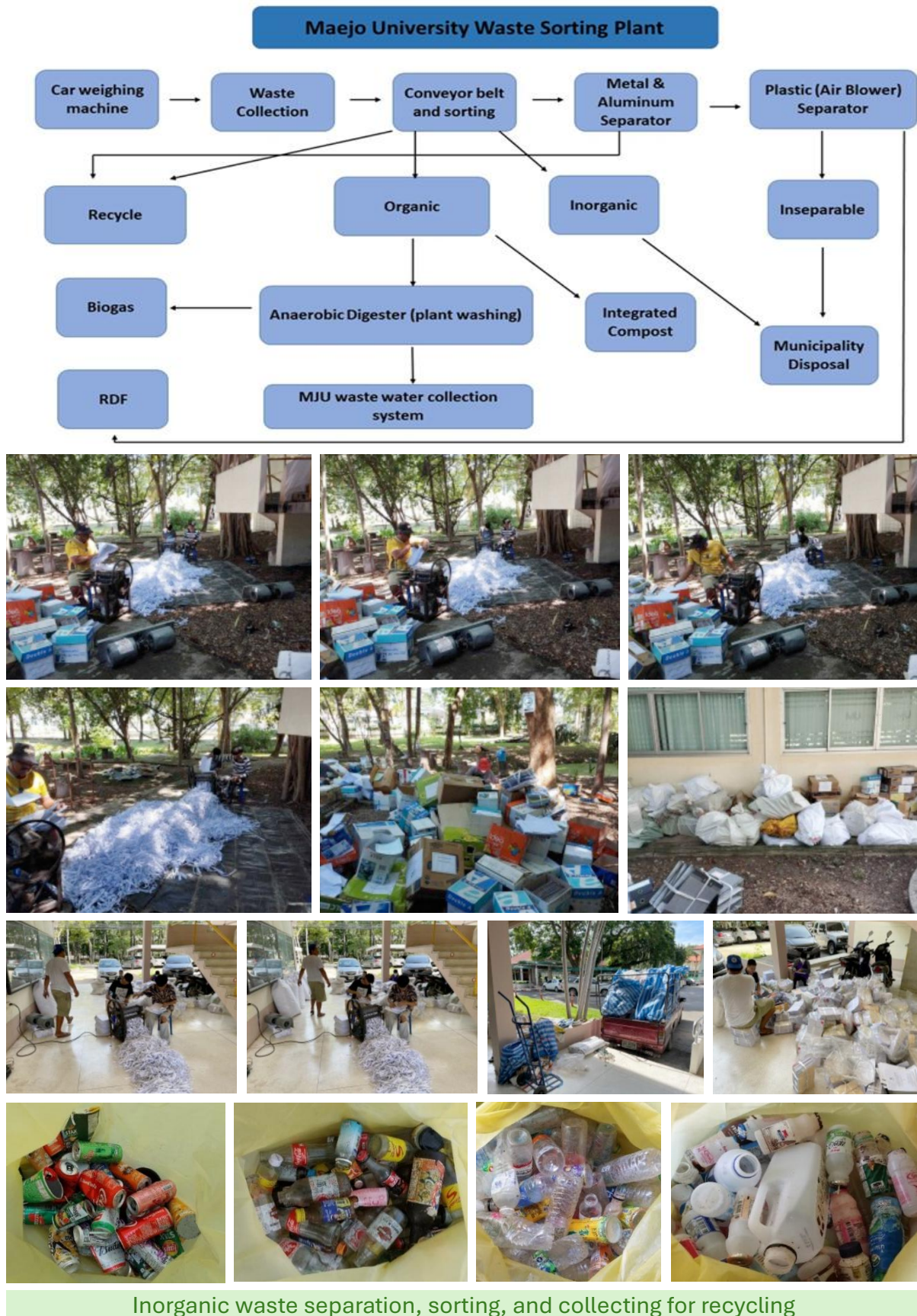
Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	Down-cycled	Up-cycled
Inorganic non-toxic	659.43	435.59	223.84			
- Paper	21	36.00		36	36	
- Soft plastic	163	165.22	18.99		144.01	
- Hard plastic	45	2.61	23.79		21.21	
- etc. (metal, glass bottle)	3.6	5.8			8.41	
Disposal	426.83	225.96	210.87			

Maejo University is deeply committed to advancing sustainable waste management in alignment with its **Green and Sustainability Action Plan** and the principles of the **circular economy**. In the current year, Maejo University treated a total of **209.63 tons** of inorganic non-toxic waste through various recycling and recovery processes, while **225.96 tons** were treated by engineering landfill. The treated waste comprised **36 tons of paper after reused**, **144.01 tons of soft plastic**, **21.21 tons of hard plastic**, and **8.41 tons of metal and glass bottles**. All treated materials were processed through **down-cycling** and **reuse applications**, transforming waste into useful secondary products such as recycled paper, artificial stones, flower pots, and reusable containers. These efforts demonstrate the university's strong commitment to reducing landfill dependency, promoting circular resource utilization, and advancing toward a more sustainable and eco-friendly campus.

All inorganic waste is **carefully sorted at the source** through an integrated waste segregation system implemented across academic buildings, offices, and student facilities. Paper materials are reused within offices and classrooms until they reach the end of their useful life, after which both paper and cardboard are collected for recycling. Plastics, glass, and metals are gathered through **designated collection points** to ensure proper recovery and reuse.

Through partnerships with **certified recycling companies**, these materials are processed via **down-cycling and material recovery technologies**, transforming waste into valuable secondary products such as recycled paper, artificial stones, and decorative items. These actions have effectively **reduced landfill waste**, **conserved raw materials**, and **lowered carbon emissions** associated with waste disposal.

By promoting responsible consumption and sustainable production patterns, Maejo University continues to strengthen its contribution to the **United Nations Sustainable Development Goals**, particularly **SDG 12 (Responsible Consumption and Production)** and **SDG 13 (Climate Action)**. This initiative reflects the university's ongoing efforts to become a **low-carbon, resource-efficient, and environmentally responsible campus**.





Inorganic waste separation, sorting, and collecting for recycling

Inorganic Waste Treatment (WS4)



Example of Inorganic Waste Treatment : Inorganic waste separation, sorting, and collecting for recycling



Example of Inorganic Waste Treatment : Inorganic waste separation, sorting, and collecting for recycling



Example of Inorganic Waste Treatment : Inorganic waste separation, sorting, and collecting for recycling



Example of Inorganic Waste Treatment : Inorganic waste separation, sorting, and collecting for recycling

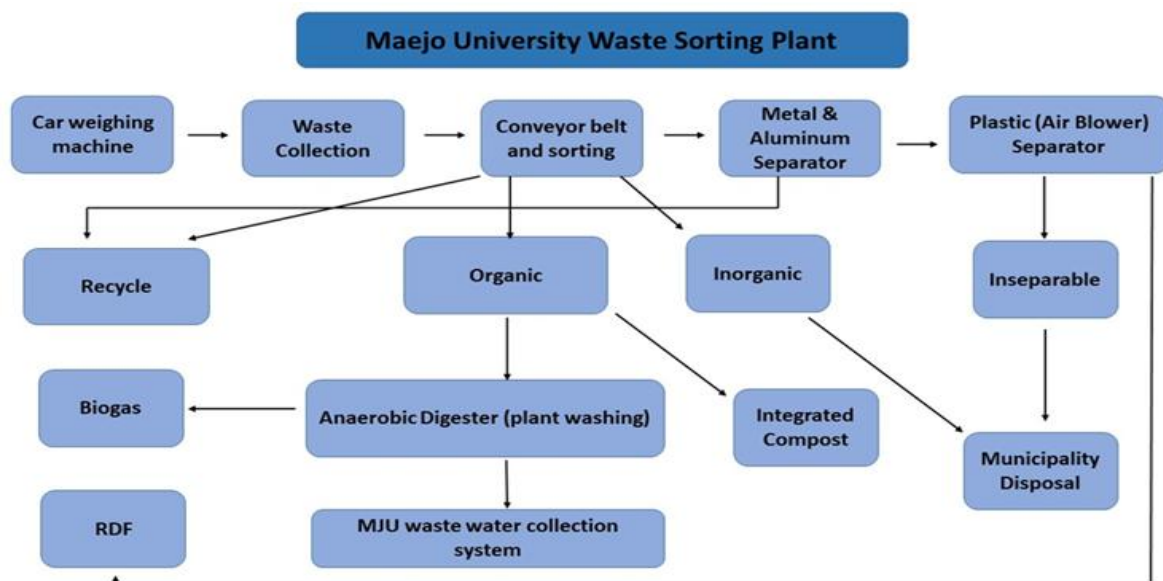
Inorganic Waste Management at Maejo University

Maejo University has implemented a comprehensive and systematic approach to **inorganic waste management**, integrating reduction, reuse, and recycling strategies to promote a circular economy and a sustainable campus.

1. Long-term Strategy: MJU Solid Waste Management and Recycling Center

The university's long-term strategy centers on the establishment of the **MJU Solid Waste Management and Recycling Center**, designed to enhance waste handling efficiency through effective **waste sorting, minimization, and resource recovery**. The center will serve as a hub for **downcycling, upcycling, and energy recovery** from inorganic waste.

As of **2023**, the construction progress of the facility has reached **90% completion**. A **master plan** and **sorting flow diagram** (shown below) illustrate the integrated system for collecting and processing inorganic waste across the campus.



In **2025**, Maejo University reinforced this initiative through a series of **waste reduction and awareness campaigns**, including source separation activities, **3R**

(Reduce, Reuse, Recycle) programs, and the **Big Cleaning Day** project. Green Office policies have been implemented in every faculty and building, contributing to the achievement of **100% inorganic waste recycling** on campus.

2. Waste Reduction (Reduce)

Maejo University actively reduces inorganic waste generation through innovative digital systems, sustainable procurement, and behavioral change initiatives:

- **Paperless Operations:**

The university's IT system supports **E-Meetings, E-Documents, and E-Evaluations**. From January to December 2025, the university held 2,040 E-Meetings, resulting in the use of 2,926,489 fewer sheets of paper compared to the previous year, which corresponds to a cost saving of 1,463,244.50 Baht. ([URL](#))

- **Ban on Foam and Single-Use Plastics:**

Since **2018**, the university has enforced a ban on foam and single-use plastics. Staff and students are encouraged to use **tote bags, refillable bottles, reusable containers**, and **biodegradable products** (MJU Eco Products). In **2025**, no foam containers were used in canteens or shops on campus.

- **Sustainable Meeting Sets and Souvenirs:**

The university promotes the use of biodegradable packaging and local organic products for meeting refreshments. Reusable bags and eco-friendly souvenirs are also encouraged to minimize plastic waste.

- **Bring-Your-Own Campaigns:**

Discounts are offered at university cafés and food shops for customers who bring their own mugs and containers, fostering sustainable habits.

- **Eco-Container Development:**

MJU researchers have developed **biodegradable containers from natural materials**, which have been distributed to faculties to replace conventional plastic packaging.



- **Tote bags donation campaign:**

Unused tote bags were collected for donation to be repurposed and utilized in activities for World Environment Day, June 5, 2025.



3. Waste Reuse (Reuse)

Reusing materials is a key component of the university's waste minimization efforts:

1. All faculties implement policies to **reuse paper** by printing on both sides and carefully reviewing data before printing.
2. Staff and students are encouraged to use **personal tote bags, mugs, bottles, and containers** to reduce waste generation.
3. **Coffee shop discount programs** reward the use of personal drinkware, reducing disposable cup waste.

4. Waste Recycling (Recycle)

Maejo University ensures that all inorganic waste collected on campus is **sorted, recycled, and repurposed** efficiently:

- **Recycling Process:**

Inorganic waste, including **paper, cardboard, plastic, glass, and metals**, is separated at the source and collected from offices and recycling bins. Recyclables are sold to and processed by **local recycling companies**, ensuring **100% recycling** of inorganic waste. Expired official documents are shredded before being recycled, with the proceeds reinvested in campus waste management programs.

- **Special Recycling and Upcycling Projects:**

- **Thin plastics and orphan plastics** are collected and donated to the **Green Road Project** for construction material production.
- **Plastic upcycling projects**—such as making **coasters, plant pots, and office decorations** from plastic lids—raise awareness and engage students and staff.
- **Donation Collection Points:** The MJU Central Library serves as a hub for collecting **milk cartons, aluminum can rings, and used stockings** for donation and reuse.
- **DIY Plastic Waste Initiatives:** Activities such as **“DIY from Plastic Waste”** encourage creative reuse and recycle, including plastic medals for

green university events such as Rally bike and 900000 steps for MJU car free day, artificial stone and flower plots.



- **Green Way Paper Project:** Used paper slips are collected in designated boxes across faculties and sent to the **Green Way Project** to be transformed into new notebooks and stationery.

5. Summary of Inorganic Waste Efficiency

Through these integrated initiatives, Maejo University ensures that 100% of inorganic waste is properly separated, reused, or recycled. The university's holistic approach, combining infrastructure development, digital transformation, and community engagement, positions MJU as a leading model of efficient and sustainable inorganic waste management in higher education.

Additional evidence link :

- URL
- <https://youtu.be/ZJsdoRU5pUY?si=8lf86DbIgtipXx6N>

Total volume toxic waste produced this year

Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	Down-cycled	Up-cycled
Toxic	5.509	5.71			5.71	
- Electronics waste	0.004					
- Lab. Chemicals waste	3.620	3.63			3.63	
- Domestic hazardous waste	1.890	2.08			2.08	

Hazardous Waste Management at Maejo University

Maejo University generates a variety of hazardous wastes, including chemical-contaminated materials, broken glass, sharp objects, chemical containers, spray cans, electronic equipment, batteries, fluorescent light bulbs, and other electronic waste.

These wastes originate from multiple sources across the campus—such as laboratories, research facilities, study areas, administrative offices, dormitories, and from electronic devices used by staff and students.

In 2025, the university produced a total of 5.71 tons of hazardous waste, consisting of: 3,630 kilograms of laboratory waste and 2,080 kilograms of domestic hazardous waste, such as fluorescent light bulbs, batteries, and spray bottles.

Although the quantity The total volume of hazardous waste in 2025 did not decrease significantly, it demonstrates effective management in properly collecting and disposing of waste according to scientific and engineering principles. This reflects Maejo University's ongoing commitment to improved waste management practices, pollution prevention, and the safe handling and disposal of hazardous materials.

Total volume toxic waste produced last year

Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	Down-cycled	Up-cycled
Toxic	5.509	5.71			5.509	
- Electronics waste	0.004				0.004	
- Lab. Chemicals waste	3.620	3.63			3.620	
- Domestic hazardous waste	1.890	2.08			1.890	

Last year, a total of 5.509 tons of toxic waste was generated on campus. This includes: electronics: 0.004 tons, laboratory chemicals: 3.620 tons and other toxic waste: 1.885 tons. All toxic waste was properly collected and sent for safe and well-managed disposal.

Total volume toxic waste produced last year

Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	Down-cycled	Up-cycled
Toxic	5.509	5.71			5.71	
- Electronics waste	0.004					
- Lab. Chemicals waste	3.620	3.63			3.63	
- Domestic hazardous waste	1.890	2.08			2.08	

Total Volume of Hazardous Waste Treated

Maejo University generates a diverse range of hazardous wastes arising from academic, teaching, and research activities, including chemically contaminated materials, household hazardous waste, and electronic waste. These materials originated from university laboratories, study areas, administrative offices, buildings, dormitories, and electronic devices used by both staff and students.

To ensure efficient, safe, and environmentally responsible management of these wastes, the university has implemented strict policies and standard operating procedures. Annual budgets for hazardous waste management are approved by the university's board council, and trained personnel are appointed to oversee collection, storage, and disposal processes.

In 2025, Maejo University successfully managed and treated **100% of its hazardous waste**, totaling 5.71 tons, through **authorized and licensed waste management companies** in full compliance with relevant laws and environmental regulations.

Each waste stream was handled using the most appropriate treatment method based on its characteristics. Recyclable materials such as metals and certain chemical residues were separated and processed through upcycling and downcycling to recover valuable resources. Other hazardous materials underwent detoxification or neutralization processes prior to final disposal to minimize their environmental impact.



Toxic Waste Treatment (WS5)

Example of Toxic Waste Treatment



Handling of domestic hazardous waste from 10 MJU collection pints and red bins. All hazardous waste was transported, treated, and disposed through the contract with Maejo municipality.

Dropping points of domestic hazardous waste in the campus

E-waste collection bin by MOU with AIS

Handling of chemically contaminated waste and chemical containers from laboratories. Collection from each building by MJU-certified lab technicians. Then all hazardous waste was transported, treated, and disposed through the contract with the certified hazardous waste company- Recycle Engineering Co., Ltd.

Hazardous Waste Disposal and Management at Maejo University

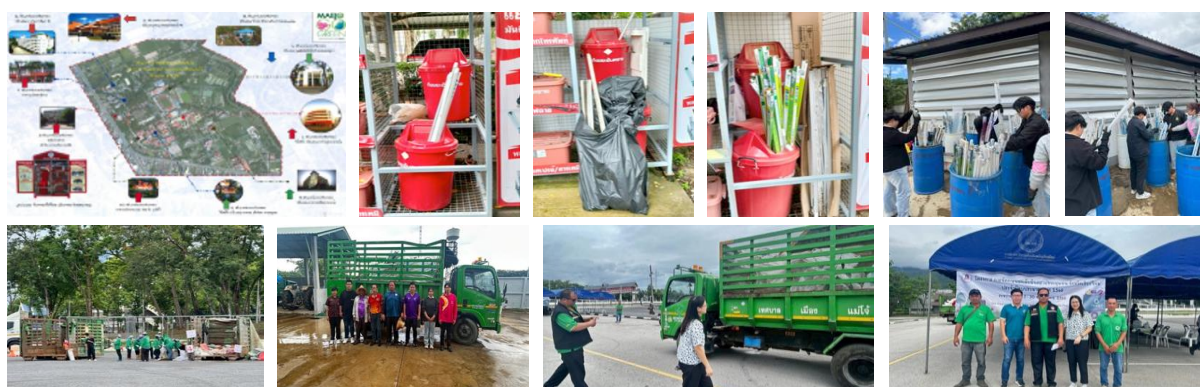
Maejo University demonstrates a strong commitment to environmental stewardship through the responsible and systematic management of hazardous waste. The university generates a wide spectrum of toxic and hazardous materials, including chemical residues, contaminated waste, broken glass, sharp objects, chemical containers, spray bottles, electronic devices, batteries, fluorescent light bulbs, and other forms of e-waste. These wastes originate from laboratories, study areas, administrative offices, buildings, dormitories, and electronic equipment used by both staff and students.

To ensure the safe, efficient, and environmentally sound disposal of these materials, Maejo University has implemented a comprehensive **Hazardous Waste Management Program**. This program aligns with national regulations and the university's sustainability goals, emphasizing prevention, proper segregation, safe storage, and certified disposal. The budget for hazardous waste management is approved annually by the university's board council, and trained and certified personnel are designated to oversee collection, recording, and control procedures.

In 2025, 100% of Maejo University's hazardous waste, totaling 5.71 tons, was successfully collected, treated, and disposed of by authorized and certified companies in full compliance with environmental laws and safety standards. The university's management process can be outlined as follows:

1. Domestic Hazardous Waste

Household hazardous waste, such as fluorescent light bulbs, batteries, and spray bottles, is collected through 10 designated collection points located across the Maejo University campus, along with red bins placed at each faculty. These wastes are gathered and transported under a formal contract with Maejo Municipality for disposal by Wongpanit Recycle Company, a certified waste treatment facility. This initiative forms part of the Community Hazardous Waste Management Project of Chiang Mai Province, promoting a safe and sustainable partnership between the university and the local community.



Handling of domestic hazardous waste from 10 MJU collection points and red bins. All hazardous waste was transported, treated, and disposed through the contract with Maejo municipality.

2. Laboratory and Chemical Waste

Chemical-contaminated waste, used chemicals, and laboratory containers are strictly managed by **certified laboratory technicians** trained in hazardous waste handling. The process includes identification, weighing, labeling, and recording of all waste types before temporary storage in a **secure and isolated containment area**. Some waste types undergo pretreatment to reduce hazards prior to disposal.

In 2025, all laboratory and chemical waste was collected and disposed of through Recycle Engineering Co., Ltd., a fully licensed hazardous waste management company. Disposal services were carried out on September 10, 2025, as documented in the official Manifest Ref.



Dropping points of domestic hazardous waste in the campus



3. E-Waste Management Collaboration

Since 2020, Maejo University has collaborated with AIS, a leading mobile network company, to establish E-waste collection bins across the campus. In 2025, the university further strengthened this partnership through a Memorandum of Understanding (MOU) under the AIS E-Waste+ Platform, which integrates blockchain technology for transparent waste traceability. This initiative aims to responsibly collect and recycle electronic items such as mobile phones, batteries, chargers, and IT equipment. MJU's waste management team ensures all collected items are safely packed and transferred to AIS's certified e-waste recycling facilities. The university also actively promotes e-waste awareness through campaigns, posters, online communications, and student workshops.

4. The Turn-In Project for the World to Remember

Maejo University also participates in **“The Turn-In Project for the World to Remember (Level 2 – Green University)”**, in partnership with **GC (PTT Global Chemical)** and **AIS**. This project enhances campus-wide waste separation and recycling practices, focusing on **plastic waste and e-waste recovery**, and reinforces MJU's leadership role as an environmentally responsible institution.

Through these integrated efforts, **Maejo University continues to set an exemplary standard in hazardous waste management**, demonstrating its dedication to sustainability, environmental protection, and the health and safety of the university community.

Additional evidence link :

- https://building.mju.ac.th/goverment/20111119104834_building/Doc_25681021095421_155516.pdf
- No. MK1-25/478 (MF 25/0171)

Sewage Disposal (WS6)



Primary and secondary wastewater treatment system : SBR



Tertiary wastewater treatment system : Constructed Wetland



The ecological sanitation or ecosan used on the campus



Wastewater treatment monitoring

Sewage Disposal System and Wastewater Recycling Program at Maejo University

Maejo University demonstrates its deep environmental responsibility and forward-thinking approach through the implementation of an advanced sewage disposal system and an innovative wastewater recycling program. These initiatives reflect the university's unwavering commitment to sustainable water resource management, pollution prevention, and circular economy principles within the campus.

1. Centralized Wastewater Treatment System

All wastewater generated from buildings across the Maejo University campus is conveyed through a separated sewer system to the MJU Wastewater Treatment Plant.

The facility employs the Sequencing Batch Reactor (SBR) process, which treats approximately 1,600 cubic meters of wastewater per day with an outstanding treatment efficiency of 100%.

The system is rigorously monitored and key parameters such as BOD, COD, pH, DO, TKN, and SS are routinely analyzed by skilled technicians. The results are also regularly verified by certified external laboratories, ensuring strict compliance with national water quality standards.

The sludge produced from the treatment process is stabilized, dried, and transformed into soil conditioners, which are then utilized in the university's agricultural plots and landscaped areas, closing the loop between wastewater treatment and sustainable land management.

Since 2024, Maejo University expanded its wastewater initiative through the establishment of a tertiary treatment system designed to upcycle treated effluent from the SBR process. This reclaimed water is safely stored and distributed through a smart piping network with automated valve systems for landscape irrigation, green space maintenance, and water conservation activities on campus.

2. Ecological Sanitation (Ecosan) Toilets and Greywater Reuse

Since 2018, Maejo University has installed and maintained 303 ecological sanitation (Ecosan) toilets across seven major facilities—including the main canteen, sports complex, 70-Year Study Center, 80-Year Study Center, Faculty of Agriculture, swimming pool, and Chootiwat Building.

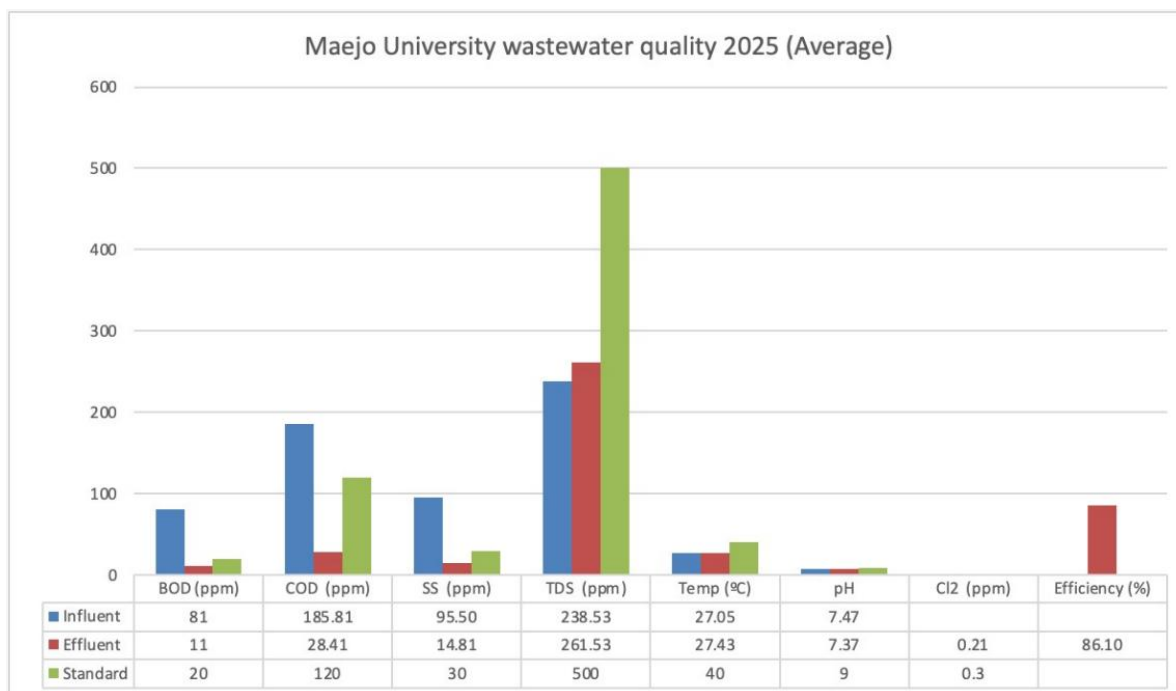
Through this system, nearly 50 cubic meters of urine are safely collected and reused annually via a dedicated piping network connected to five sprinkler distribution points, primarily serving landscape irrigation within the campus. Additionally, 50 cubic meters of greywater are reclaimed for similar non-potable uses.

This initiative not only conserves freshwater resources but also promotes nutrient recovery and sustainable sanitation practices—making MJU a model institution in eco-efficient campus management.

3. Commitment to Total Water Resource Recovery

Maejo University's integrated wastewater management approach ensures that 100% of wastewater generated on campus is effectively treated, reused, and upcycled. Through technological innovation, strict monitoring, and resource recovery practices, MJU successfully transforms wastewater from a potential pollutant into a valuable resource for sustainable development.

Future plans include enhancing water reuse capacity and developing long-term water storage systems to further strengthen water security and resilience against climate change. In essence, Maejo University's sewage disposal and wastewater recycling program exemplifies an advanced, environmentally conscious, and self-sustaining water management model, **where every drop of water is valued, recycled, and returned to the ecosystem responsibly.**



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TEST REPORT

Date of Issue : August 19, 2025
Report No. : TRCM68/22842
Page (s) : 01/01
Customer Name & Address : MAEJO UNIVERSITY
(provided by customer) 63 M.4, T. Nongharu, A. Samsai, Chiangmai 50290
Sample Description : น้ำเสียจากโรงบำบัด
(provided by customer)
Sample Code : CM68/14074-001
Sample Condition : Sample type: Waste Water
Packaging : glass bottle and plastic gallon, tightly sealed.
Quantity : 1 bottle and 1 gallon, Weight/Volume : 1 L./bottle and 5 L./gallon
Receipt condition : room temperature, normal condition.

Date of sample received : August 08, 2025
Date of analysis : August 08, 2025 - August 19, 2025

RESULT (S)

Test Item	Result	Unit	LOD	Reference Method
Oil and Grease	9.83	mg/L	-	APHA - AWWA (2017)
Total Kjeldahl Nitrogen	23.60	mg/L	-	APHA - AWWA (2017)
BOD	19.70	mg/L	-	APHA - AWWA (2017)
pH	7.20	-	-	APHA - AWWA (2017)
Settleable Solids *	4.50	mL/L	-	APHA - AWWA (2017)
Sulfide	2.90	mg/L	-	APHA - AWWA (2017)
Suspended Solids (SS)	179.50	mg/L	-	APHA - AWWA (2017)
Total Dissolved Solids	259.00	mg/L	-	APHA - AWWA (2017) 2540C

Note : * Sample was collected by customer.
- Method tests are not accredited by DOH.

-End of Report-
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(+139-9-0003)

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(M. Sriwantha Faknai)
Apex Laboratory
Central Laboratory (Thailand) Co., Ltd. (Chiangmai Branch)
CERTIFIED

The results apply to the sample as received.
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PM-QP-36-01-013-003(18/01/14)P11-CM

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Central Laboratory (Thailand) Co., Ltd.
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TEST REPORT

Date of Issue : August 19, 2025
Report No. : TRCM68/22843
Page (s) : 01/01
Customer Name & Address : MAEJO UNIVERSITY
(provided by customer) 63 M.4, T. Nongharu, A. Samsai, Chiangmai 50290
Sample Description : น้ำเสียจากโรงบำบัด
(provided by customer)
Sample Code : CM68/14074-002
Sample Condition : Sample type: Waste Water
Packaging : glass bottle and plastic gallon, tightly sealed.
Quantity : 1 bottle and 1 gallon, Weight/Volume : 1 L./bottle and 5 L./gallon
Receipt condition : room temperature, normal condition.

Date of sample received : August 08, 2025
Date of analysis : August 08, 2025 - August 19, 2025

RESULT (S)

Test Item	Result	Unit	LOD	Reference Method
Oil and Grease	4.17	mg/L	-	APHA - AWWA (2017)
Total Kjeldahl Nitrogen	4.39	mg/L	-	APHA - AWWA (2017)
BOD	4.55	mg/L	-	APHA - AWWA (2017)
pH	8.99	-	-	APHA - AWWA (2017)
Settleable Solids *	< 0.2	mL/L	-	APHA - AWWA (2017)
Sulfide	< 1.0	mg/L	-	APHA - AWWA (2017)
Suspended Solids (SS)	< 5.0	mg/L	-	APHA - AWWA (2017)
Total Dissolved Solids	702.00	mg/L	-	APHA - AWWA (2017) 2540C

Note : * Sample was collected by customer.
- Method tests are not accredited by DOH.

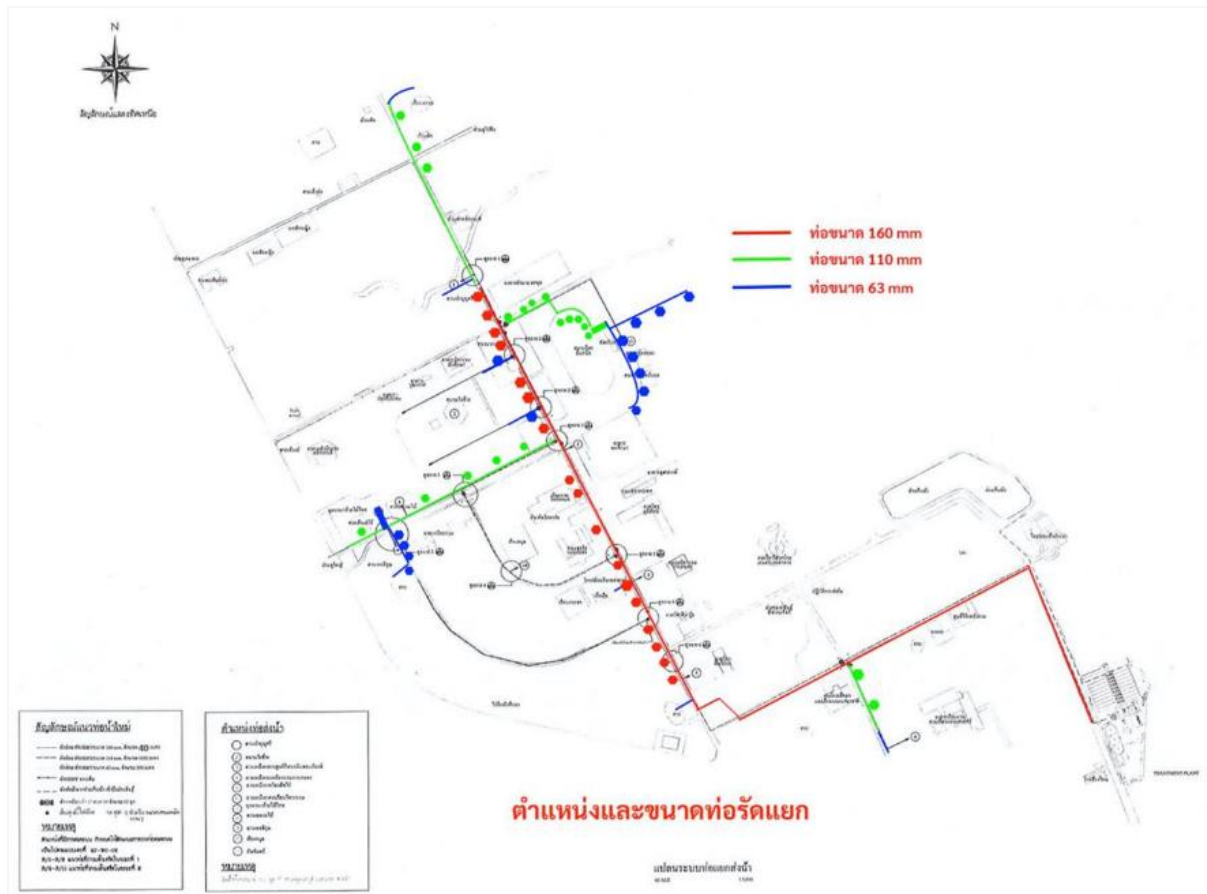
-End of Report-
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Data collection of wastewater and
treated wastewater quality of the wastewater treatment system



The piping system with automatic valve for treated water usage and distribution

Water quality monitoring and analysis from Constructed wetland is shown below;

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Central Laboratory (Thailand) Co., Ltd.

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Chiangmai Branch : 164/80 Moo 3, T. Nongbua, A. Sanrai, Chiangmai 50290 Thailand.
Tel : 053 5108 6131, 053 5108 6133 Fax : 053 5108 6252, 053 5108 6131 Email : 205
http://www.centralthailand.com

TEST REPORT

Date of Issue August 19, 2025
Report No. TRCM68/22844
Page (s) 01/01

Customer Name & Address MAEJO UNIVERSITY
(provided by customer) 63 M.4, T. Nongharn, A. Sansai, Chiangmai 50290

Sample Description น้ำสำหรับรดน้ำต้นไม้
(provided by customer)

Sample Code CM68/14074-003

Sample Condition Sample type: Waste Water
Packaging : glass bottle and plastic gallon, tightly sealed.
Quantity : 1 bottle and 1 gallon, Weight/Volume : 1 L/bottle and 5 L/gallon
Receipt condition : room temperature, normal condition.

Date of sample received August 08, 2025
Date of analysis August 08, 2025 - August 19, 2025

RESULT (S)

Test Item	Result	Unit	LOD	Reference Method
Oil and Grease	3.81	mg/L	-	APHA - AWWA (2017)
Total Kjeldahl Nitrogen	<4.00	mg/L	-	APHA - AWWA (2017)
BOD	2.75	mg/L	-	APHA - AWWA (2017)
pH	9.08	-	-	APHA - AWWA (2017)
Settleable Solids	<0.2	m/L	-	APHA - AWWA (2017)
Sulfide	<1.0	mg/L	-	APHA - AWWA (2017)
Suspended Solids (SS)	<5.0	mg/L	-	APHA - AWWA (2017)
Total Dissolved Solids	808.00	mg/L	-	APHA - AWWA (2017) 2540C

Note : Sample was collected by customer.
* : Marked tests are not accredited by OW.

-End of Report-

(Ms. Nutsinee Meesorn) (Mr. Somsak Tharatha)

(Ms. Sriwanma Faknai)
Approved Signatory
Central Laboratory (Thailand) Co., Ltd. (Chiangmai Branch)

WR

WATER



MAEJO GO ECO UNIVERSITY 
THE OPERATION GREEN UNIVERSITY REPORT 2026

[Read more >>](#)

6 CLEAN WATER
AND SANITATION



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



14 LIFE BELOW
WATER



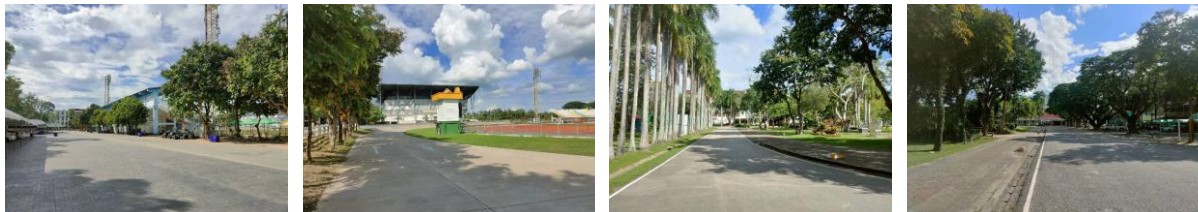
15 LIFE
ON LAND



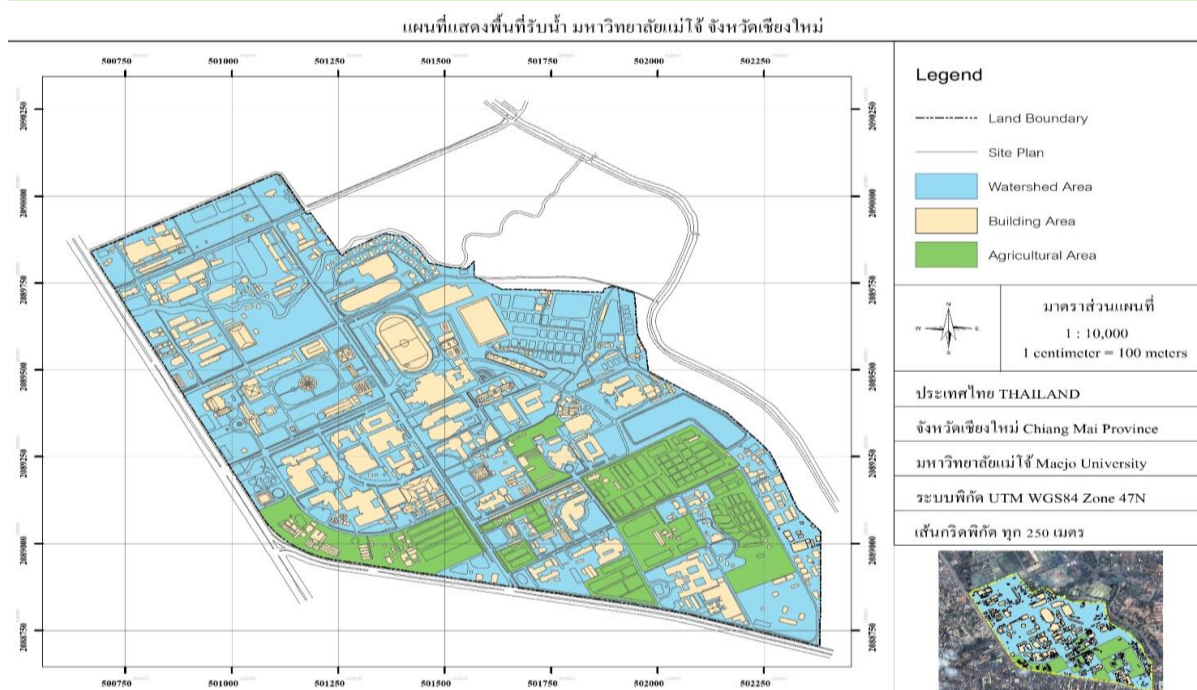
17 PARTNERSHIPS
FOR THE GOALS



Total area on campus for water absorption besides the forest and planted vegetation (WR1)



Example of area on campus for water absorption
besides the forest and planted vegetation



Map of area on campus for water absorption
besides the forest and planted vegetation

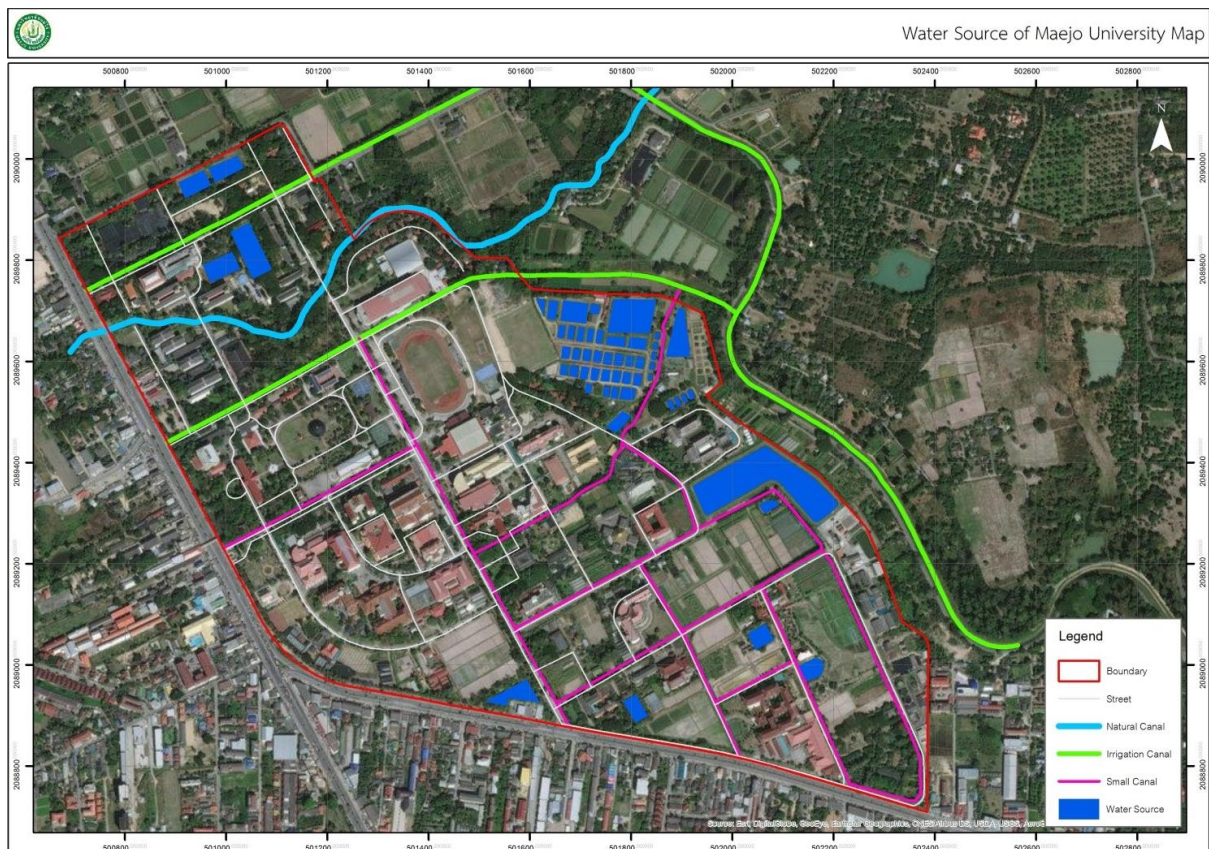
Percentage of Maejo university area

Area type	Area (m ²)	Percentage (%)
Water absorption	769,289.46	61.92
Bulding	276,707.42	22.27
Forest and planted vegetation	196,337.92	15.81
Total	1,242,334.80	100

The total Area of Maejo university is 1,242,334.80 m². The total water absorption area of Maejo university is 769, 289.46 m² about 61.92% of total Area.

Water conservation program and implementation (WR2)

Maejo University has a 75,000-cubic meter raw water pond that supplies water resource for the water supply plant no 1; a 20,000-cubic meter pond that provides water resource for the water supply plant no 2; a 32,200-cubic meter pond that supplies water resource for the water supply plant no 3 and a 60,000-cubic meter pond that is used for agricultural purposes; as well as the Mae Faek-Mae Ngat Somboonschon Operation and Maintenance Project and natural canals running through the university campus. There are sufficient surface water resources for the water supply systems and agriculture.



Map of water resource of Maejo University



Raw water pond that supplies water for water supply Plant no 1



Raw water pond that supplies water for water supply Plant no 2



Raw water pond that supplies water for water supply plant no 3

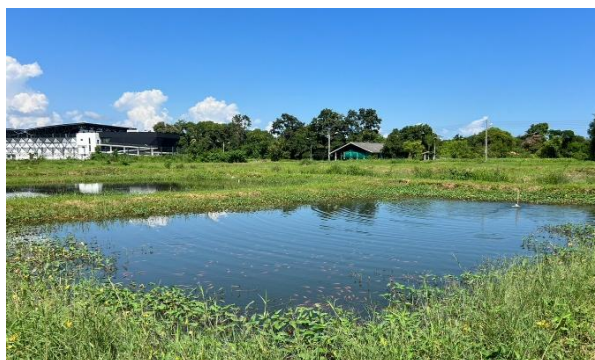


The natural canal

The water resources of Maejo university

No.	Location	Volume (m ³)
1	Lanna agriculture learning center	4,335
2	New theory agriculture learning center	4,470
3	Engineering Laboratory Building Classroom	1,196
4	Thummasakmontri Building 1	2,900
5	PTT Oil Station 1	2,912
6	PTT Oil Station 2	1,372
7	Thummasakmontri Building 2	740
8	Water supply pond	7,560
9	Agricultural area	1,196
10	water supply plant	1,475
11	Fishery Technology Laboratory Building	4,302

No.	Location	Volume (m ³)
12	Smithanon Building	73
13	Mekong giant catfish learning center 1	39,495
14	Mekong giant catfish learning center 2	22,824
15	Mekong giant catfish learning center 3	5,902
16	Mekong giant catfish learning center 4	1,528
17	Rest home	1,431
18	70th-year maejo building 1	2,457
19	70th-year maejo building 2	1,579
20	Production of Ornamental Plants Technology	832
21	Dean office 1	420
22	Dean office 2	800
23	Maejo shrine	240
24	Kaset-sanarn Pool 1	2,850
25	Kaset-sanarn Pool 2	2,850
26	Female dormitory 8	9,720
27	Female dormitory 8	17,124
28	Faculty of Animal Science and Technology 1	1,050
29	Faculty of Animal Science and Technology 2	900
30	Faculty of Animal Science and Technology 3	1,350
31	School of Renewable Energy 1	147
32	School of Renewable Energy 2	4,870
33	Cow farm	36,300
Total		187,200



Raw water pond at fishery technology laboratory building



Raw water pond at an engineering laboratory building



Raw water pond at Kaset-sanarn pools no 1 and no 2

Water recycling program implementation (WR3)

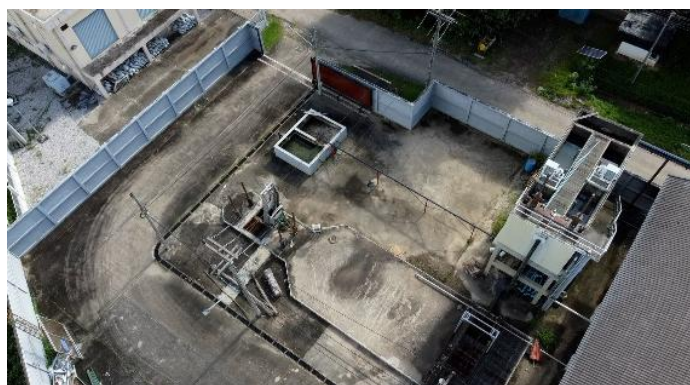
Maejo University has a piping system that collects wastewater from all buildings and transports to MJU wastewater treatment plant and subsequently collects and transfers the treated water to 61 distribution points as illustrated by the 3 main pipe lines on the map consist of pipe size are 160, 110 and 63 mm. Three of the distribution points further move the water to ponds for agricultural reserve, seven points supply water for usage in glass field agriculture, the university forest garden, and one additional point flows to a natural canal. Wastewater treatment system of Maejo University as shown in this video

The treated water of Maejo University between January 2025 to December 2025 has a total volume of 438,845 m³. All treated water was supplied into pile lines for agricultural use, such as landscape and garden.

The data of treated water in Maejo University

Month - Year	Treated water (m ³)
Jan-25	39,334
Feb-25	29,924
Mar-25	37,309
Apr-25	30,878
May-25	35,724
Jun-25	34,470

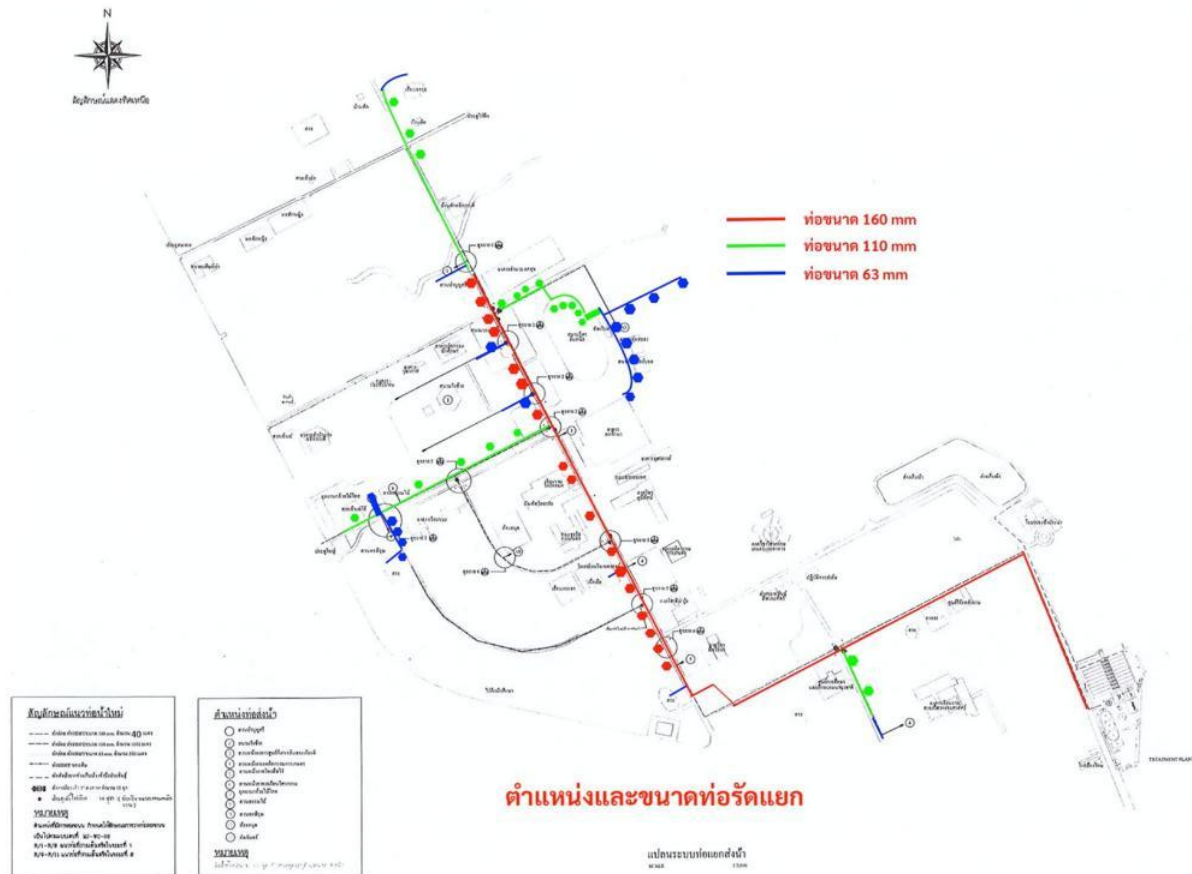
Month - Year	Treated water (m ³)
Jul-25	38,504
Aug-25	40,838
Sep-25	38,879
Oct-25	39,150
Nov-25	36,015
Dec-25	37,816
Total	438,845



Maejo University wastewater treatment plant



Wastewater treatment plants by constructed wetland



The map shows the pipe lines of treated wastewater release



Treated wastewater is released and collected to the pond for agriculture in flower cultivated areas



Treated wastewater is released and collected to the pond



Treated wastewater is used for watering university landscape;
i.g. grass fields by sprinkler system



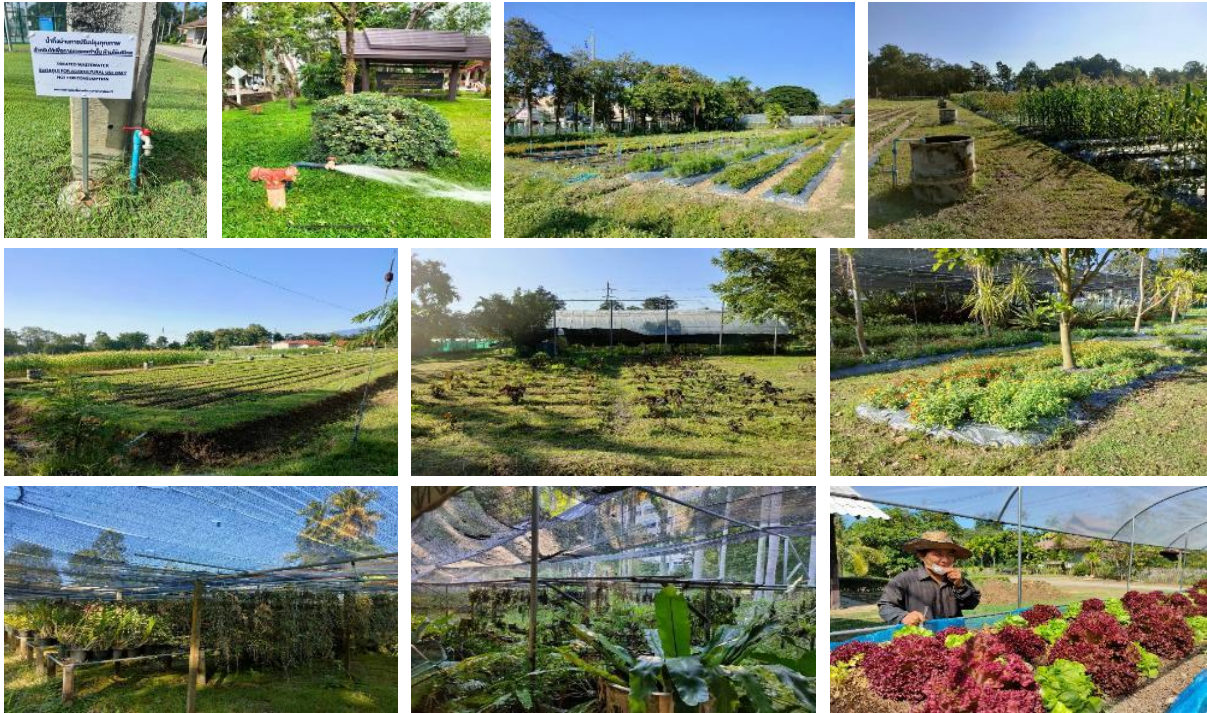
Treated wastewater is used for watering university landscape;
i.g. grass fields by sprinkler system



Boonsri Health Forest Park uses the treated wastewater from WWTP
for watering plants about 12.5 hectares



Treated wastewater is transferred to
Boonsri Health Forest Park by sprinkler system



Treated wastewater is transferred to Agricultural use

In addition, water from air conditioning systems is collected for watering plants and cleaning building floors.



Water collection from air conditioning systems

Additional evidence link : https://drive.google.com/file/d/1z5HICEHfrjSPcDuxg_x9o_tfdZtJnafa/view?usp=drivesdk

Water efficient appliances usage (WR4)

Maejo University has a policy to save water. By requiring each unit to change the equipment to save water. When the original device is damaged will change to a new one that saves water. Water-saving devices installed in the university such as low flow tap, automatic taps, waterless urinals, automatic urinals, and low flush tank toilet.



Low flow taps and automatic taps



Waterless urinals and automatic urinals



Low flush tank toilet

The quantity of appliances of each unit

Quantity												
Faculty of Agricultural Production												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	10	72	97	36	19	65	139	6	6	118	0	6
Sum	82		133		19	210			124		6	
Faculty of Science												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	0	0	157	51	0	132	125	0	66	41	12	2
Sum	0		208		0	257			107		14	
Faculty of Business Administration												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	80	0	1	0	0	0	66	0	27	11	0	0
Sum	80		1		0	66			38		0	
Faculty of Fisheries Technology and Aquatic Resources												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	10	0	5	27	0	0	52	0	4	16	0	1
Sum	10		32		0	52			20		1	

School of Tourism Development												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	15	0	0	6	0	0	23	0	7	3	0	0
Sum	15		6		0	23			10		0	
Faculty of Architecture and Environmental Design												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	0	0	0	95	0	0	92	0	0	36	0	5
Sum	0		95		0	92			36		5	
School of Administrative Studies												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	25	0	0	25	0	58	0	0	13	18	0	0
Sum	25		25		0	58			31		0	
School of Renewable Energy												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	0	0	0	122	0	0	148	0	0	4	21	35
Sum	0		122		0	148			4		56	
Faculty of Engineering and Agro-Industry												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	0	1	132	92	7	4	170	1	0	39	3	90
Sum	1		224		7	175			39		93	

Faculty of Economics													
Type	Handle Basin Faucet				Toilet				Urinal				
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type		
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level	
	44	0	0	0	0	0	53	0	26	0	0	2	
Sum	44		0		0	53			26		2		
Faculty of Liberal Arts													
Type	Handle Basin Faucet				Toilet				Urinal				
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type		
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level	
	0	0	15	40	1	10	43	0	0	6	0	19	
Sum	0		55		1	53			6		19		
Faculty of Information and Communication Maejo University													
Type	Handle Basin Faucet				Toilet				Urinal				
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type		
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level	
	22	0	0	0	30	0	0	0	18	0	0	0	
Sum	22		0		30	0			18		0		
Faculty of Animal Science and Technology													
Type	Handle Basin Faucet				Toilet				Urinal				
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type		
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level	pail flush
	109	0	6	6	0	97	4	3	35	20	2	6	23
Sum	109		12		0	104			55		31		
Maejo Farm													
Type	Handle Basin Faucet				Toilet				Urinal				
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type		
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level	
	0	0	9	31	6	0	29	3	0	2	0	12	
Sum	0		40		6	32			2		12		

Administrative building												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	347	0	61	103	36	19	523	0	244	51	2	15
Sum	347		164		36	542			295		17	
Maejo dormitory												
Type	Handle Basin Faucet				Toilet				Urinal			
	saving type		non-saving type		saving type	non-saving type			saving type		non-saving type	
	sensor	Press pop-up	cross	single level	double flush	flush valve	single flush	pail flush	sensor	Press pop-up	cross	single level
	0	3	285	611	0	188	314	159	0	60	0	0
Sum	3		896		0	661			60		0	

The number of appliance and percentage of water efficient appliance

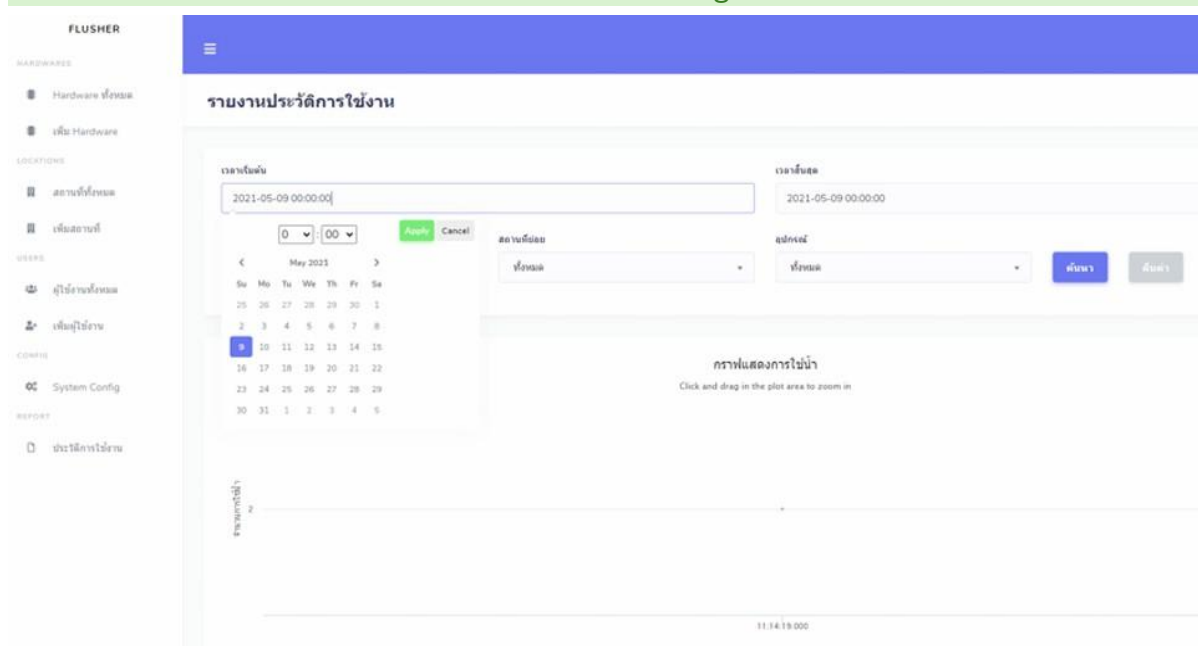
Appliance	Total Number	Total number water efficient appliance	Percentage
Handle Basin Faucet	2,581	738	28.6%
Urinal	1,118	862	77.1%
Flush toilet	2,520	99	3.9%
Average Percentage			36.5%

As shown in the table, it was found that the average percentage of water efficient appliance was 36.5%.

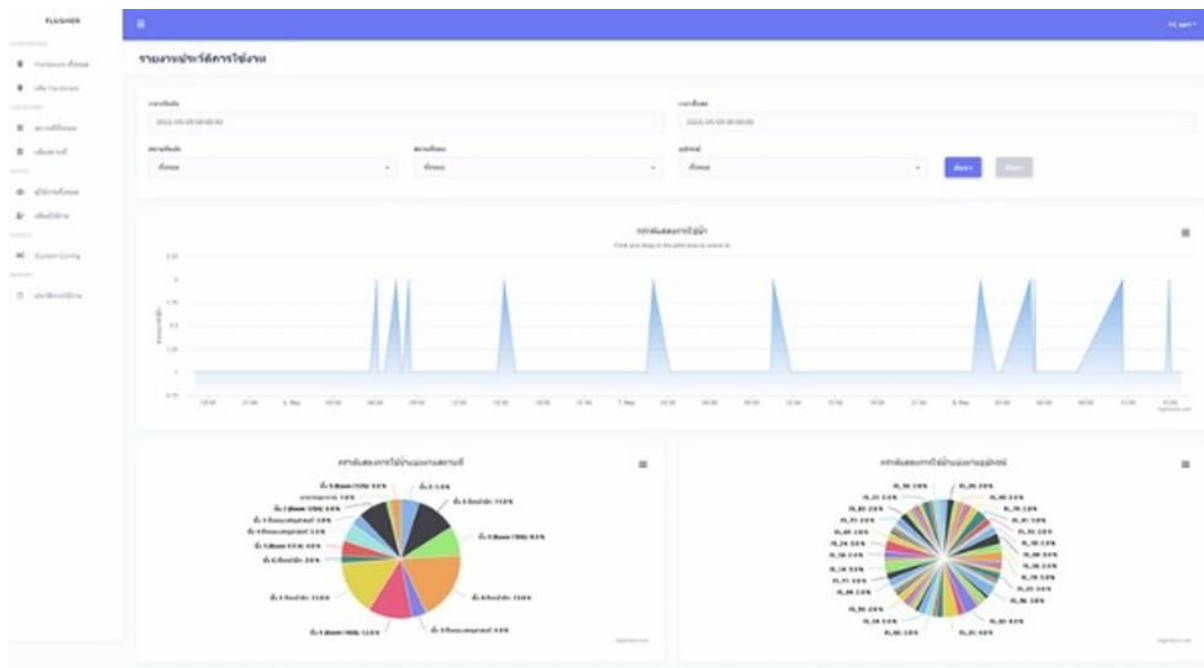
Installation of Smart Urinal Water-Saving Devices



Smart urinal water-saving devices



Data collection system of smart urinal water-saving device



Data display system of smart urinal water-saving device

Consumption of treated water (WR5)

Maejo University has a 75,000-cubic meter raw water pond that supplies water for water supply Plant 1; a 20,000-cubic meter pond that provides water for water supply Plant 2; a 32,200-cubic meter pond that supplies water for water supply Plant3; a 60,000-cubic meter pond that is used for agricultural purposes. Altogether, the total amount of surface water is 187,200 cubic meters as shown in Table 4.2 . Meanwhile, Maejo University is using a building water supply of 1,319,941 cubic meters this year as shown in Table 4.1

The percentage of treated water consumed from water system treatment compared to all water sources was 29.3 %, as shown in the equation below. The treated water of Maejo University between October 2024 to September 2025 has a total volume of 441,515 m³. All treated water was supplied into a pile line to the 61 points of treated wastewater released throughout the university area for utilization as show in topic 4.2 water recycling program implementation. The percentage of treated water consumed from water system treatment compared to all water sources as shown in equation below.

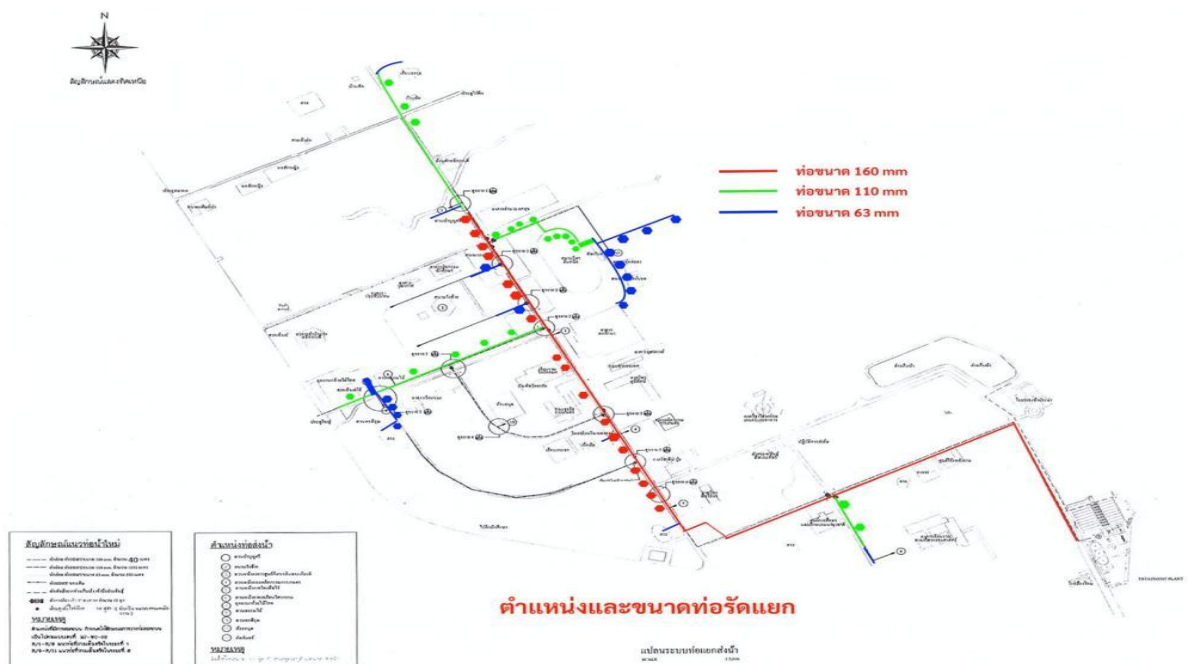
An amount of treated water consumed (441,515 m³)

An Amount of tap water supply (1,319,941 m³) + surface water sources (187,200 m³)

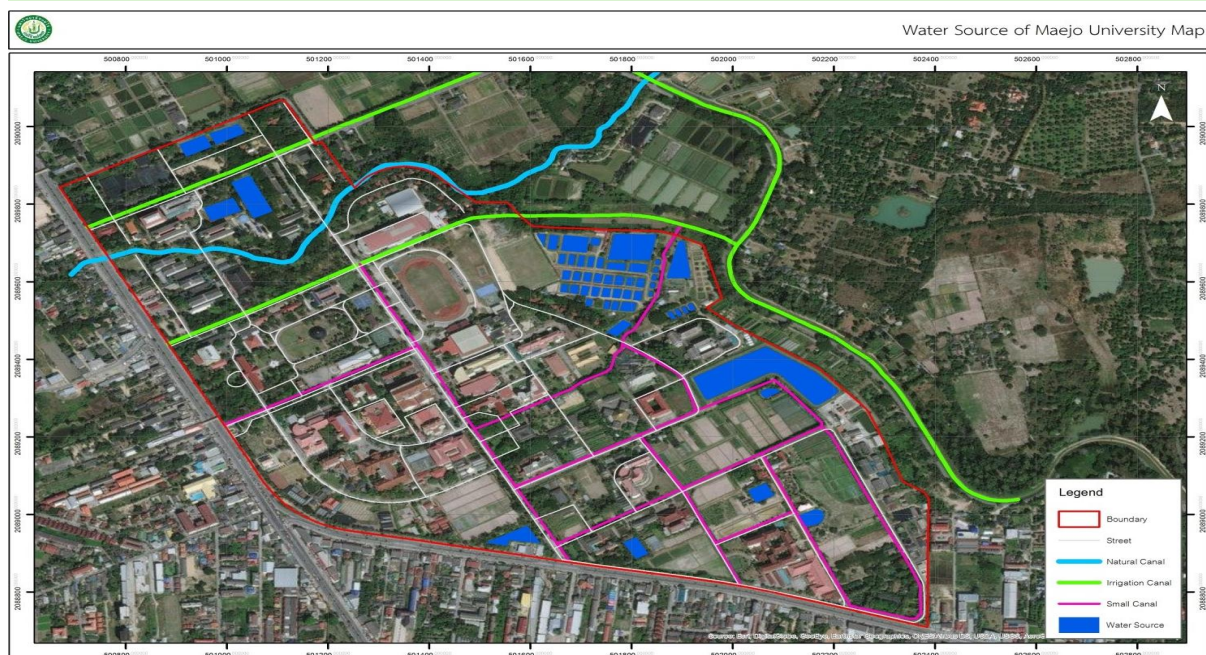
Table 4.1 Data of tap water supply and treated water in Maejo University

Month - Year	Building water supply (m3)	Treated water (m3)
Jan-25	121,255	39,334
Feb-25	112,832	29,924
Mar-25	118,873	37,309
Apr-25	93,452	30,878

Month - Year	Building water supply (m3)	Treated water (m3)
May-25	89,078	35,728
Jun-25	111,612	34,470
Jul-25	131,555	38,504
Aug-25	130,802	40,838
Sep-25	118,005	38,879
Oct-25	122,416	39,105
Nov-25	109,121	36,015
Dec-25	104,912	37,816
Total	1,363,913	438,845



The map shows the pipe lines of treated wastewater release



Map of water resource of Maejo University

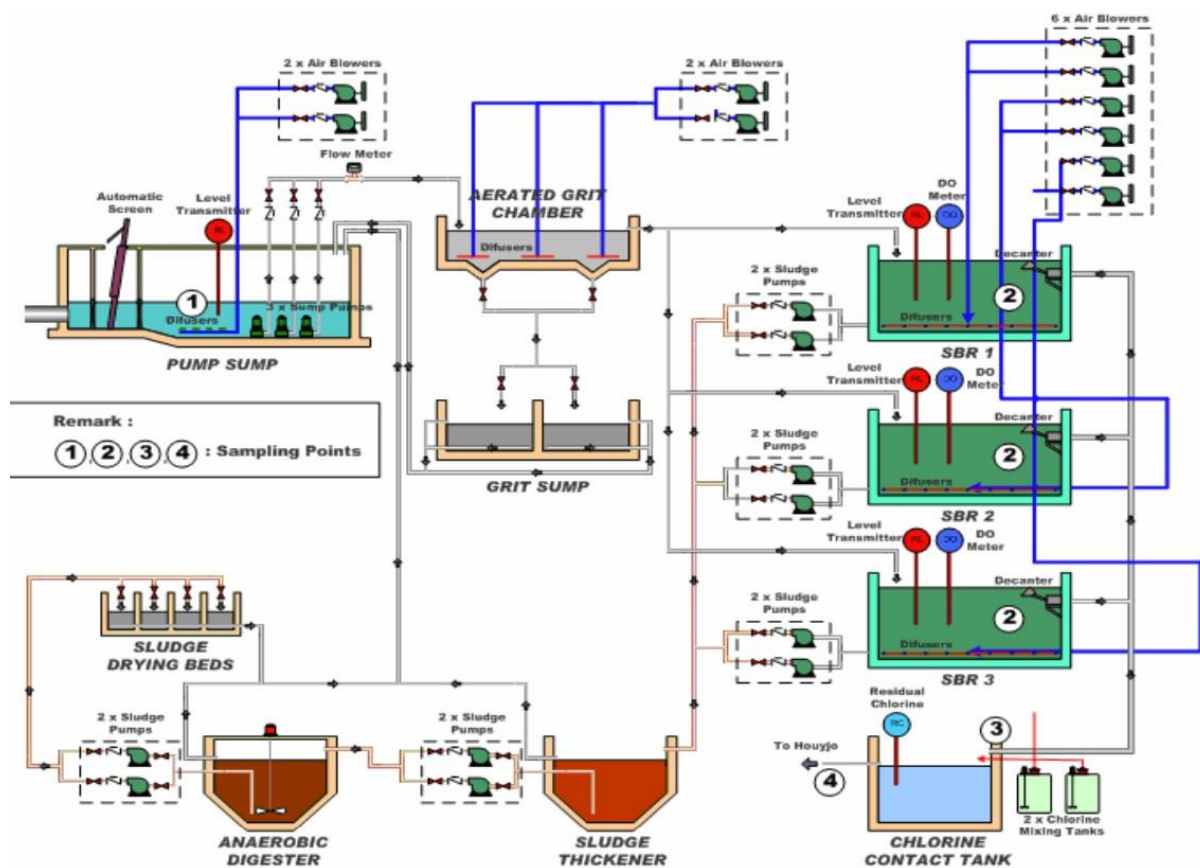
Table 4.2 Total amount of surface water resources of Maejo university

No.	Location	Volume (m ³)
1	Lanna agriculture learning center	4,335
2	New theory agriculture learning center	4,470
3	Engineering Laboratory Building Classroom	1,196
4	Thummasakmontri Building 1	2,900
5	PTT Oil Station 1	2,912
6	PTT Oil Station 2	1,372
7	Thummasakmontri Building 2	740
8	Water supply pond	7,560
9	Agricultural area	1,196
10	water supply plant	1,475
11	Fishery Technology Laboratory Building	4,302
12	Smithanon Building	73
13	Mekong giant catfish learning center 1	39,495
14	Mekong giant catfish learning center 2	22,824
15	Mekong giant catfish learning center 3	5,902
16	Mekong giant catfish learning center 4	1,528
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18	70th-year maejo building 1	2,457
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24	Kaset-sanarn Pool 1	2,850
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26	Female dormitory 8	9,720
27	Female dormitory 8	17,124
28	Faculty of Animal Science and Technology 1	1,050
29	Faculty of Animal Science and Technology 2	900
30	Faculty of Animal Science and Technology 3	1,350
31	School of Renewable Energy 1	147
32	School of Renewable Energy 2	4,870
33	Cow farm	36,300
Total		187,200

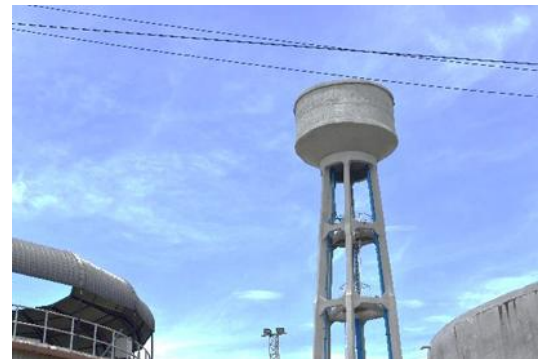
Water pollution control in the campus area (WR6)

Maejo University has a policy on water quality control after treatment. By referring to the quality of treated water with the standards of the Pollution Control Department. The sewage treatment system is Sequencing Batch Reactor (SBR) is a wastewater treatment system that uses aeration tanks. This system serves both aeration to decompose organic matter and serves to separate sludge by sedimentation within a single tank.

The treated wastewater system has the capacity to treat 1,600 cubic meters per day. The water after treatment will be sent to the pipes to agriculture such as lawns, trees, etc. The system operation is controlled by recording the controls daily and prepare a monthly performance report.



Schematic of the wastewater treatment system



Wastewater treatment plant of Maejo university



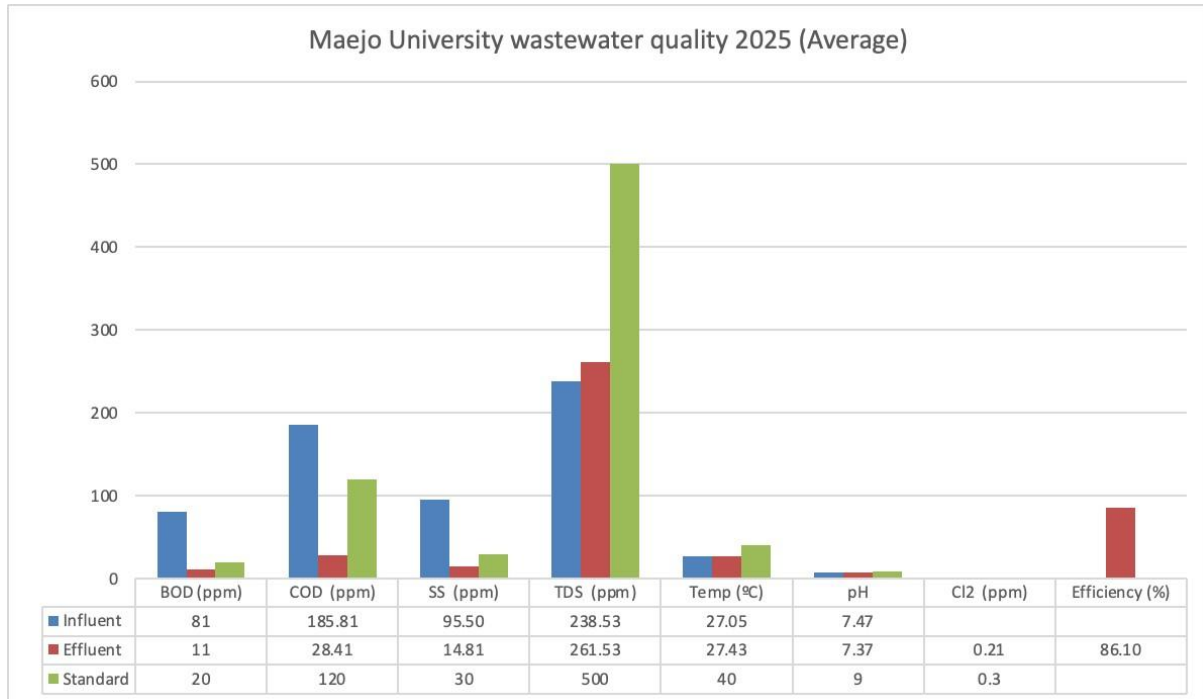
Wastewater treatment plant control room



Data collection of wastewater and treated wastewater of the wastewater treatment system in October 2024 to September 2025

All routine treatment parameters such as BOD, COD, pH, DO, TKN, SS, etc. were sampled and analyzed by technicians. Also, the results of treatment performances were confirmed by a certified laboratory. The figure below shows the performance of the wastewater treatment system. The treatment efficiency is reported via this link;

Additional evidence link : <https://docs.google.com/spreadsheets/d/1nvefVUYQYay-E6l1weryOl8LWwlSOYU-2IU-JaOk4LQ/edit?usp=sharing>



Data collection of wastewater and treated wastewater quality of the wastewater treatment system



บริษัท ห้องปฏิบัติการกลาง (ประเทศไทย) จำกัด
Central Laboratory (Thailand) Co., Ltd.
สาขาเชียงใหม่ : 164/86 หมู่ 3 ต.หนองบัว อ.สารภี จ.เชียงใหม่ 50180 ประเทศไทย
Chiangmai Branch: 164/86 Moo 3, Dongbuei, Mueang, Chiangmai 50180 Thailand
Tel : (66) 0 5389 6131, (66) 0 5389 6133 Fax : (66) 0 5389 6552, (66) 0 5389 6131 โทร 705
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TEST REPORT

Date of Issue August 19, 2025
Report No. TRCM68/22843
Page (s) 01/01

ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว - 139

Customer Name & Address (provided by customer) MAEJO UNIVERSITY
63 M.4, T. Nongharn, A. Sansai, Chiangmai 50290

Sample Description (provided by customer) น้ำทิ้งจากการบำบัด

Sample Code CM68/14074-002

Sample Condition Sample type: Waste Water
Packaging : glass bottle and plastic gallon, tightly sealed.
Quantity : 1 bottle and 1 gallon, Weight/Volume : 1 L./bottle and 5 L./gallon
Receipt condition : room temperature, normal condition.

Date of sample received August 08, 2025
Date of analysis August 08, 2025 - August 19, 2025

RESULT (S)

Test Item	Result	Unit	LOD	Reference Method
Oil and Grease	4.17	mg/L	-	APHA - AWWA (2017)
Total Kjeldahl Nitrogen	4.39	mg/L	-	APHA - AWWA (2017)
BOD	4.55	mg/L	-	APHA - AWWA (2017)
pH	8.59	-	-	APHA - AWWA (2017)
Settleable Solids *	< 0.2	mL/L	-	APHA - AWWA (2017)
Sulfide	< 1.0	mg/L	-	APHA - AWWA (2017)
Suspended Solids (SS)	< 5.0	mg/L	-	APHA - AWWA (2017)
Total Dissolved Solids	702.00	mg/L	-	APHA - AWWA (2017) 2540C

Note : Sample was collected by customer.
* : Marked tests are not accredited by DRV.

~End of Report~

(Ms. Sriwanna Faknai)
Approved Signatory
Central Laboratory (Thailand) Co., Ltd. (Chiangmai Branch)

(Ms. Nutsinee Meesorn)
(7-139-0-0003)

(Mr. Somsak Tharatha)
(7-139-0-0001)

The results apply to the sample as received.
The report shall not be reproduced without the written official approval, except in full.
FM-QP-24-01-013-R05(18/01/64)P1/1-CM



Treated wastewater test report

Impact of Water Management programs in supporting the Sustainable Development Goals (SDGs)

Maejo university has undertaken a wide range of water management programs that contribute significantly to the achievement of the Sustainable Development Goals (SDGs). These initiatives reflect a strong institutional commitment to water conservation, sustainable usage, and climate resilience. Key programs include:

Using condensed water from air conditioners to water plants



Water collection from air conditioning systems

Installation of water-saving devices

Maejo University has a policy to save water. By requiring each unit to change the equipment to save water. When the original device is damaged will change to a new one that saves water. Water-saving devices installed in the university such as low flow tap, automatic taps, waterless urinals, automatic urinals, and low flush tank toilet.



Automatic taps



Automatic urinals

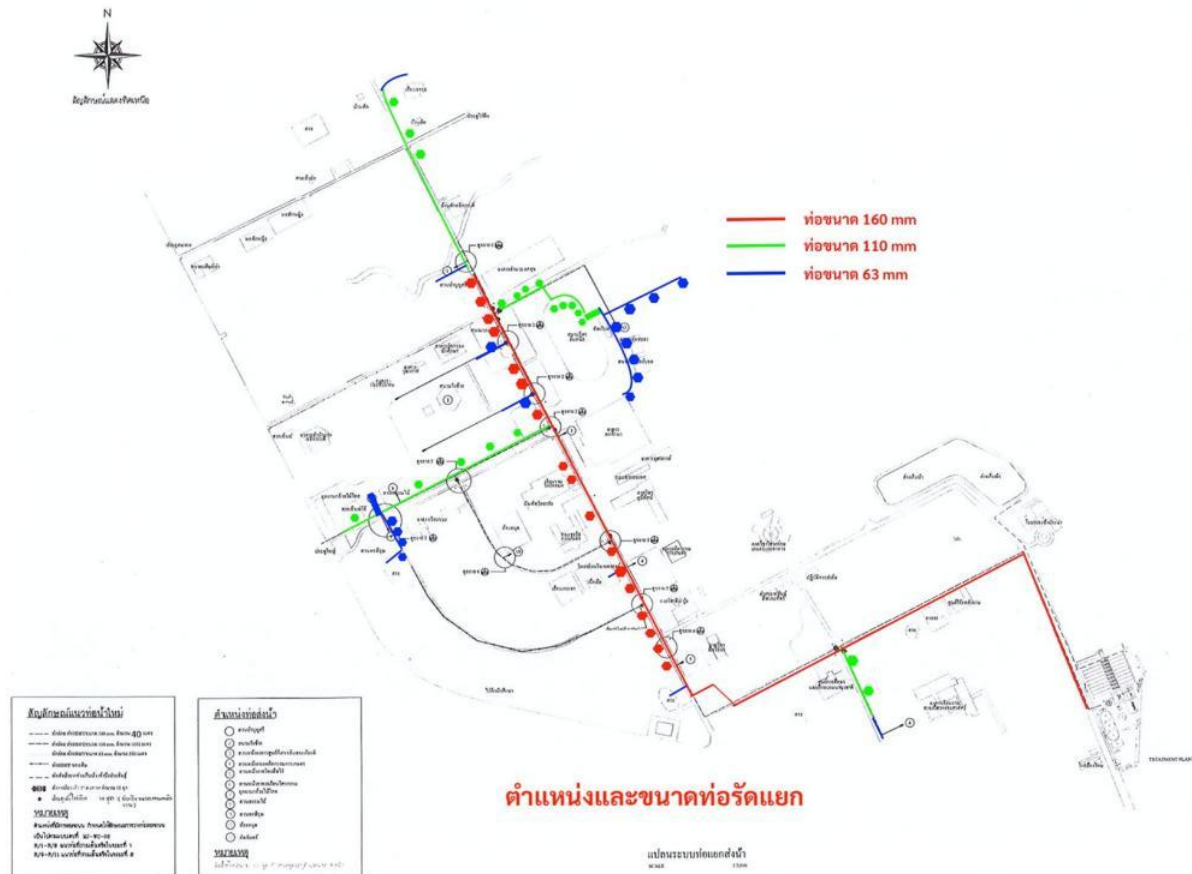
Utilization of treated wastewater



Maejo University wastewater treatment plant



Wastewater treatment plants by constructed wetland



The map shows the pipe lines of treated wastewater release



Treated wastewater is released and collected to the pond for agriculture in flower cultivated areas



Treated wastewater is released and collected to the pond



Treated wastewater is used for watering university landscape;
i.g. grass fields by sprinkler system



Treated wastewater is used for watering university landscape;
i.g. grass fields by sprinkler system



Boonsri Health Forest Park uses the treated wastewater from WWTP
for watering plants about 12.5 hectares

Training on underground water banks for farmers



Training on underground water banks for farmers

Additional evidence link : <https://www.youtube.com/watch?v=0llw8kXKE9g>

Water retardation weir construction project

The Safe Nature Project, in collaboration with Maejo University, local networks, and the Ban Mae Pan-Sankiang community, Mae Chaem District, Chiang Mai Province is promoting the "Creating Living Weirs Lam Pan, the River of Life" initiative, which aims to develop environmentally friendly careers



Water retardation weir construction project

Additional evidence link : <https://www.wearecp.com/cpcrt-great-story-08042025/>

TR

TRANSPORTATION

3 GOOD HEALTH
AND WELL-BEING



7 AFFORDABLE AND
CLEAN ENERGY



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11 SUSTAINABLE CITIES
AND COMMUNITIES



13 CLIMATE
ACTION



17 PARTNERSHIPS
FOR THE GOALS



MAEJO GO ECO UNIVERSITY 
THE OPERATION GREEN UNIVERSITY REPORT 2026

[Read more >>](#)

Number of cars actively used and managed by University

Number of cars actively used and managed by University = **89 vehicles**

Number of cars entering the university daily

ADT = **3,730 PCUs per day** (Motorbike = 0.33, Personal Car = 1.00, Bus/Truck = 1.50)
Number of cars = **3,730 cars**

Number of motorcycles entering the university daily

ADT = **1,592 PCUs per day** (Motorbike = 0.33, Personal Car = 1.00, Bus/Truck = 1.50)
Number of motorcycles = **4,824 motorcycles**

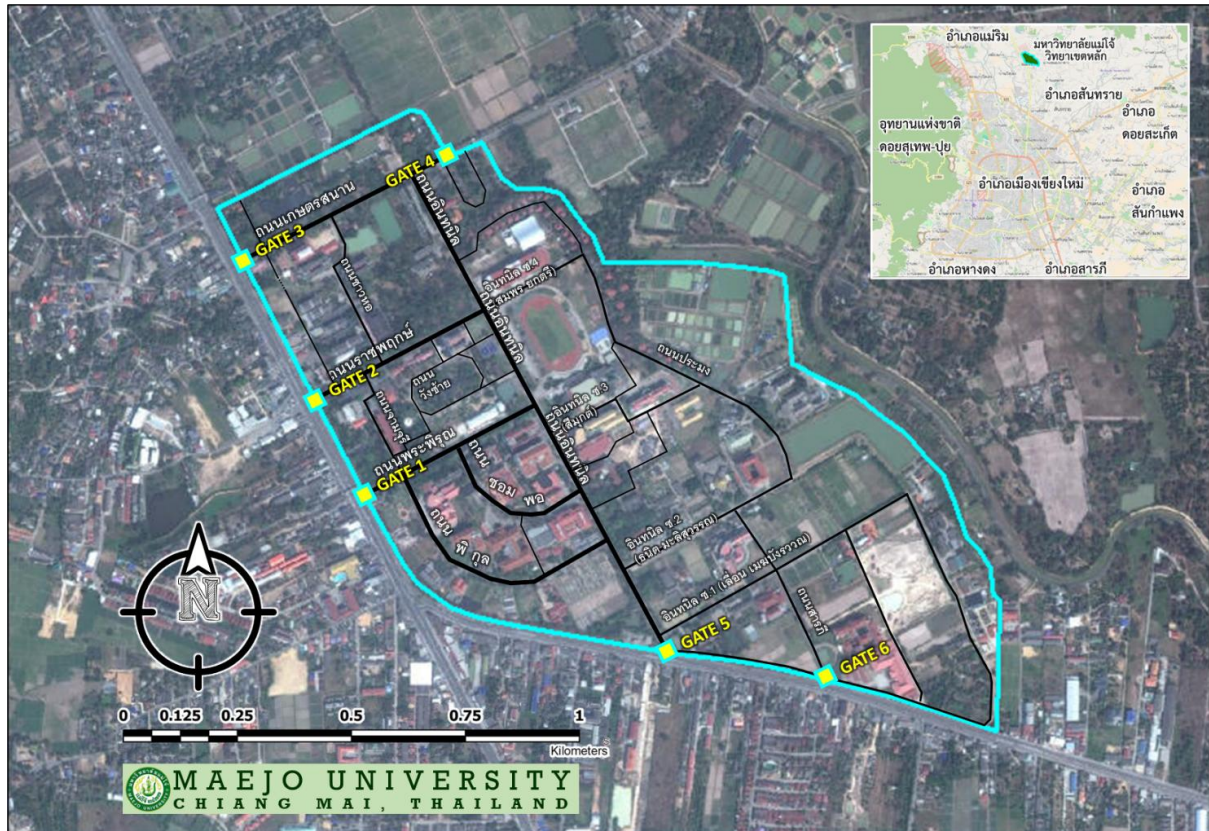
The total number of vehicles
(cars and motorcycles with combustion engines)
divided by
the total campus' population (TR1)

No.	Vehicle	Total Number
1	Car managed by the university	89
2	Cars entering the university	3,730
3	Motorcycles entering the university	4,824
Total		8,643

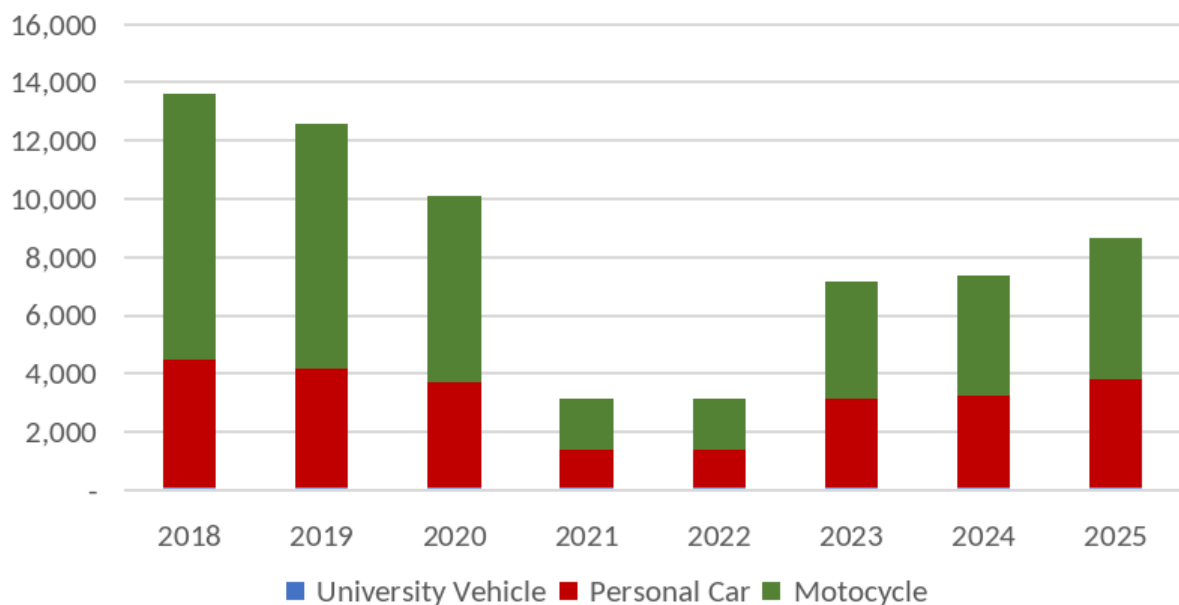
= $8,643 / 20,974$ (population) = 0.4121 [3] < $0.5 - 0.125$



The Vehicles Operated by the University



MJU Daily Total Vehicle Entering the University



Shuttle Services (TR2)

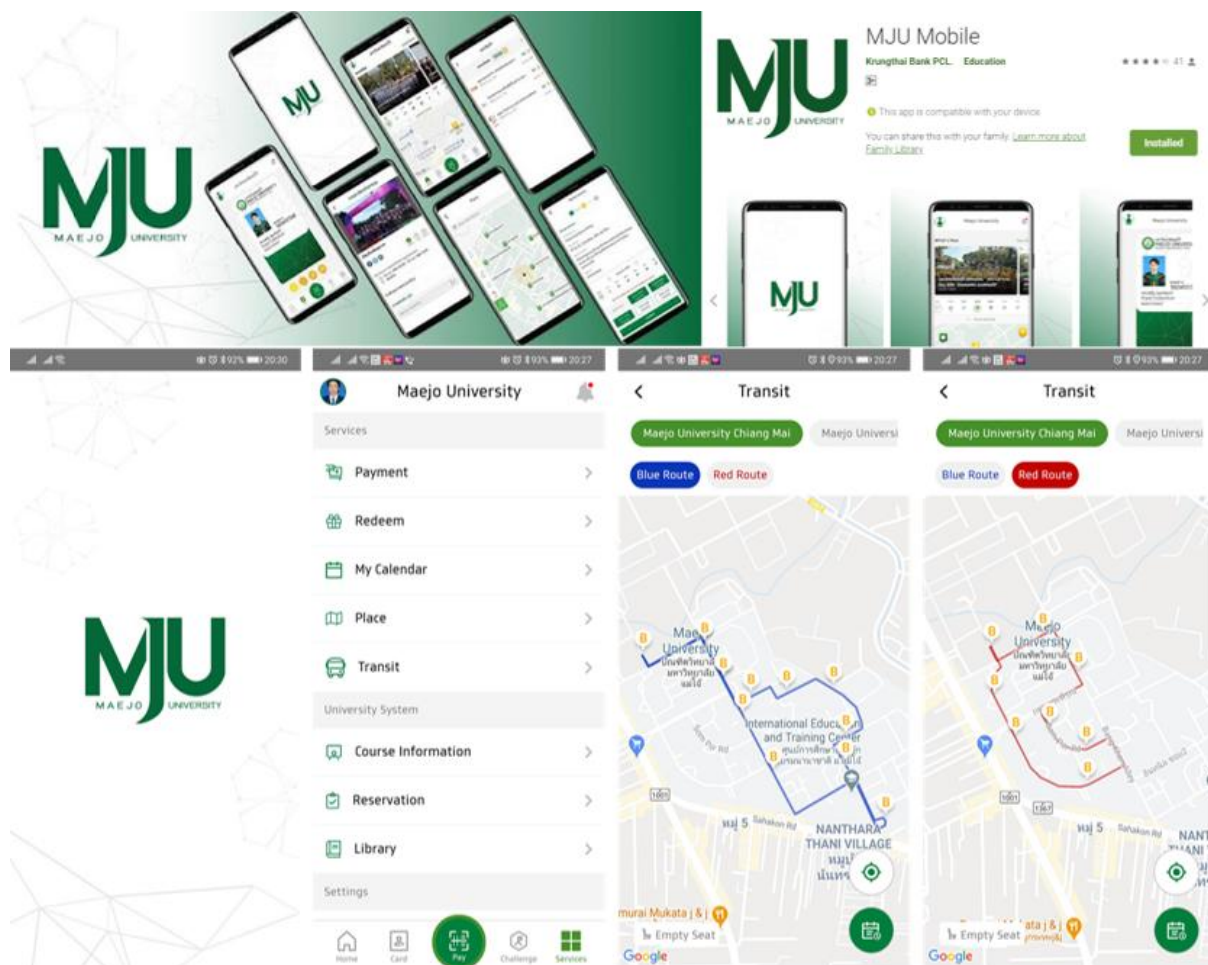
Shuttle service is provided by the university, regular, and zero emission vehicle.

Shuttle Services and Operation

Our EV shuttles were first operated since 2019 and the formal operation started on 12 May 2021.

Cost: FREE Service

Our EV shuttle services, and timetable are displayed on MJU Mobile application (Android and iOS)



Peak Hour Operation (8:00-10:00, 1200:-13:00, and 15:00-16:00)

Route	Description	Trip	Route Dist (km)	round Trip	Head Way (min)	Travel Speed (km/hr)	Require Bus for Operation		Spare Bus	Total bus
1	ประตูบางเขน-บริหารศาสตร์-ชุดิวัฒน์-แพลตฟอร์มอาจารย์	ไป-กลับ	1.2	2.4	10	10	1.4	= 2	1	3
2	ประตูบางเขน-เรียนรวม 70 ปี-วิทยาลัยศน์-จุฬาภรณ์ฯ-ประมง-วิศวะ-ประตูบางเขน	ทางเดียว	3.2	3.2	5	10	3.8	= 4	1	5
Summary							6			8

Off-Peak Hour Operation (8:00-10:00, 1200:-13:00, and 15:00-16:00)

Route	Description	Trip	Route Dist (km)	round Trip	Head Way (min)	Travel Speed (km/hr)	Require Bus for Operation		Spare Bus	Total bus
1	ประตูบางเขน-บริหารศาสตร์-ชุดิวัฒน์-แพลตฟอร์มอาจารย์	ไป-กลับ	1.2	2.4	15	10	1.0	= 1	1	2
2	ประตูบางเขน-เรียนรวม 70 ปี-วิทยาลัยศน์-จุฬาภรณ์ฯ-ประมง-วิศวะ-ประตูบางเขน	ทางเดียว	3.2	3.2	15	10	1.3	= 2	1	3
Summary							3			5

Additional evidence link : <https://erp.mju.ac.th/informationDetail.aspx?newsId=3618>

Number of shuttles operating in the university

Number of shuttles = 6 Electric Vehicles (4-18 seats EVs and 2-12 seats EVs)



Example of Shuttle Services



— Average number of passengers of each shuttle —

The average number of passengers of each shuttle = **15.0 (800 Persons/day)**



Example of Passenger Load

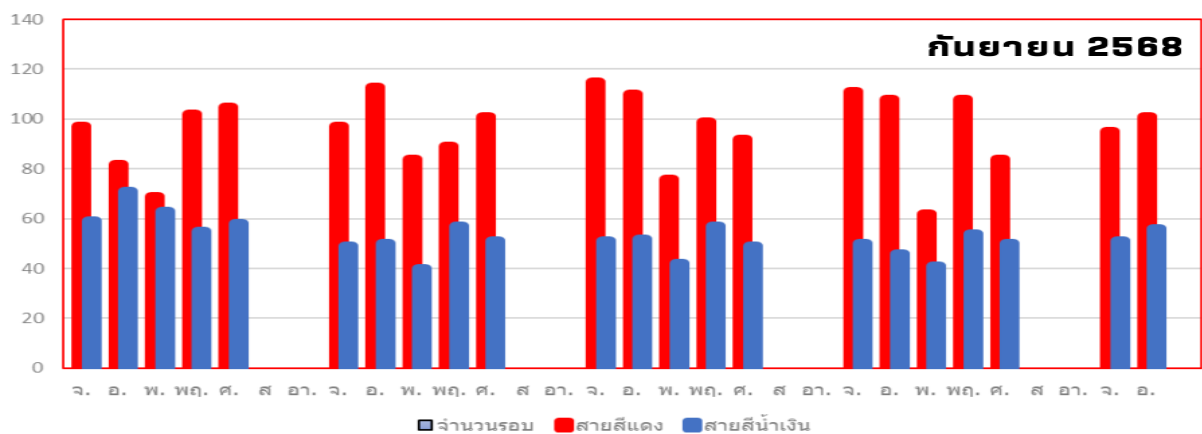
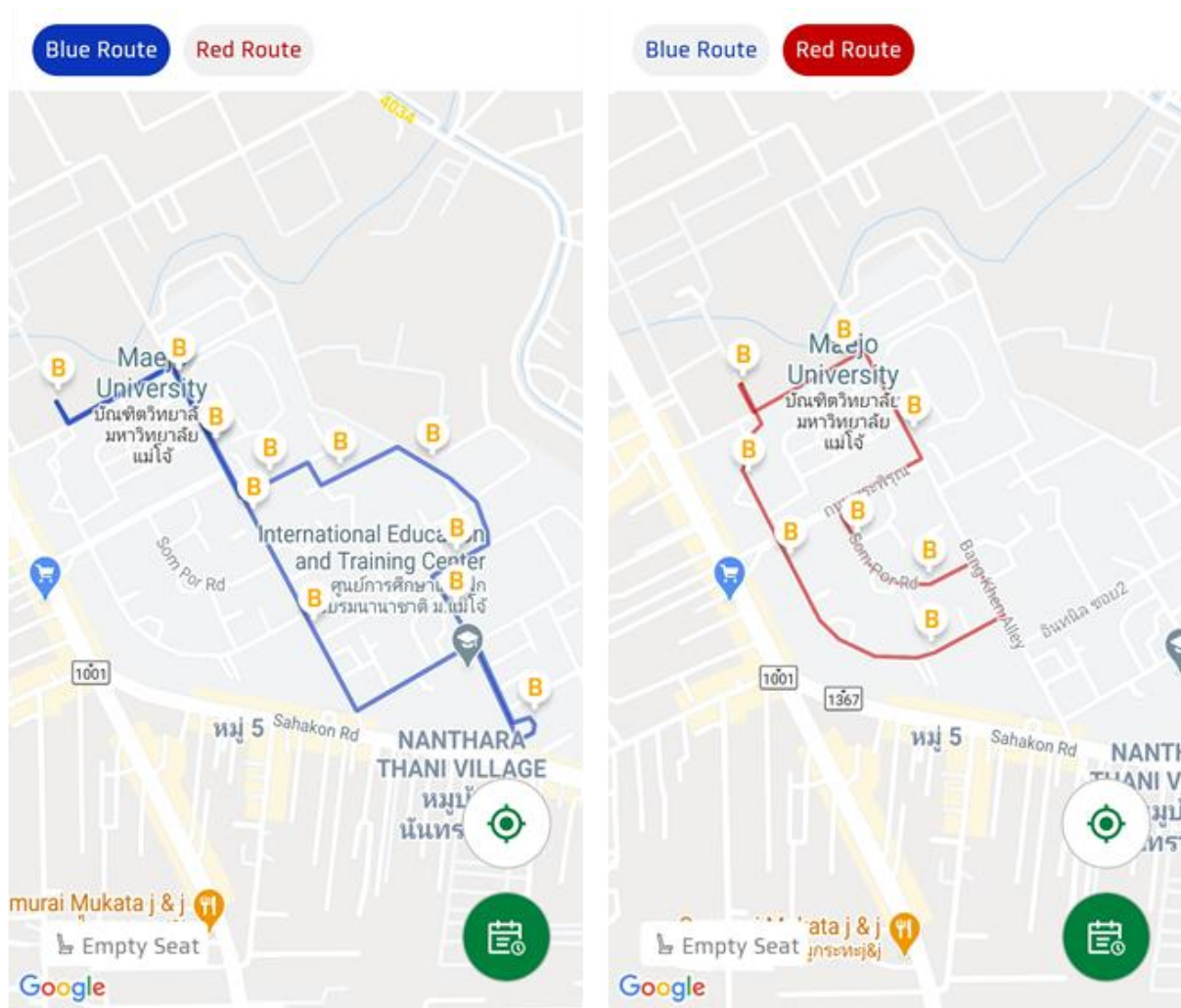
Total trips of each shuttle services each day

Total trips of shuttle services each day = **246.4 km**

Operation

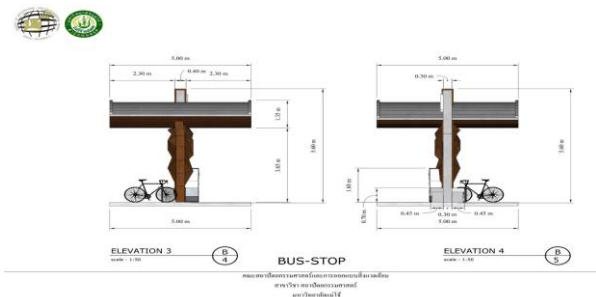
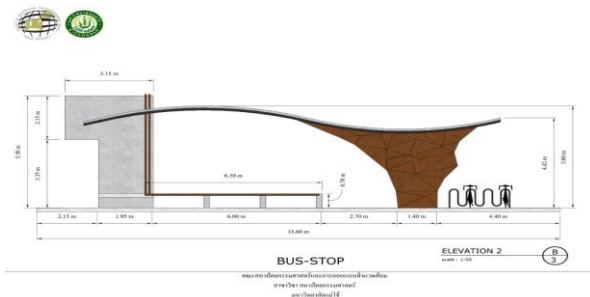
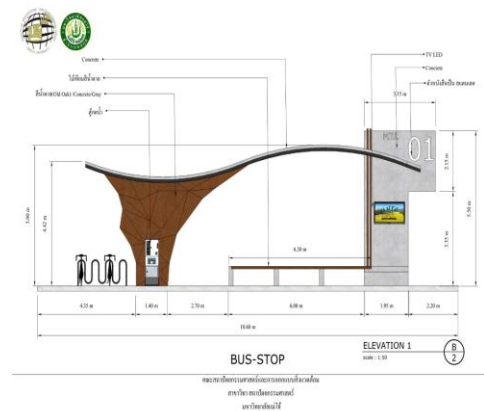
Peak Hour Operation (4-hour) = 32-round * 4.4 km = **140.8 km**

Off-Peak Hour Operation (4-hour) = 24-round * 4.4 km = **105.6 km**



Shuttle Services Facility (Propose for Construction)

Bus Station Design Proposal in Maejo University (By Faculty of Architecture and Environmental Design)



Zero Emission Vehicles (ZEV) availability on campus (TR3)

Maejo University still provided free bicycles subsidized and operated by their own

- In 2020-2021, the university provided new 236 bicycles for free service and distributed to the faculties and offices
- In 2022, the university plans to sign a Memorandum of Understanding (MOU) with AnyWheel (Thailand) for 150 bike-sharing services in Maejo University area
- In 2023, the university signed a Memorandum of Understanding (MOU) with AnyWheel (Thailand) for 250 bike-sharing services in Maejo University area

Average number of Zero Emission Vehicles on campus per day

Average number of ZEVs = **486 ZEVs per day**

- 236 ZEVs (Free bicycles) operated by the university
- 250 ZEVs (Shared Bicycle) operated by AnyWheel (Thailand) MOU with Maejo University
- 100 ZEVs (Electric Scooter) demonstrating operated by AnyWheel (Thailand) with a Charged fee

The total number of Zero Emission Vehicles (ZEV) divided by the total campus population (TR4)

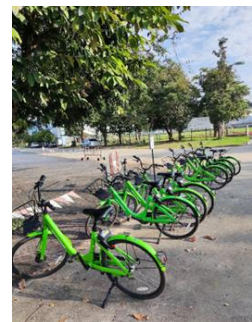
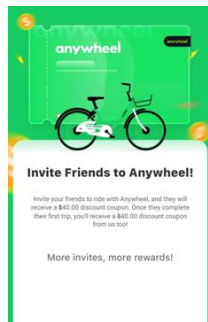
$$(436) / (20,974) = 0.021$$

$$[5] > 0.02$$

236 University bicycles distributed to the faculties



250 shared bicycles from AnyWheel



100 EV Scooter (Demonstrating for 3 months)



Total ground parking area (m²)

Total parking area = 32,041.60 m²

Parking Types	Area (sq.m.)
1. Softscape with Compacted Soil	1,435.02
2. Softscape with Concrete Block	2,869.13
3. Hardscape with Asphalt Pavement	300.00
4. Hardscape with Concrete Pavement	10,144.20
5. In Building Parking or Structure	17,293.25
Total Parking	32,041.60



Softscape Parking with Compacted Soil



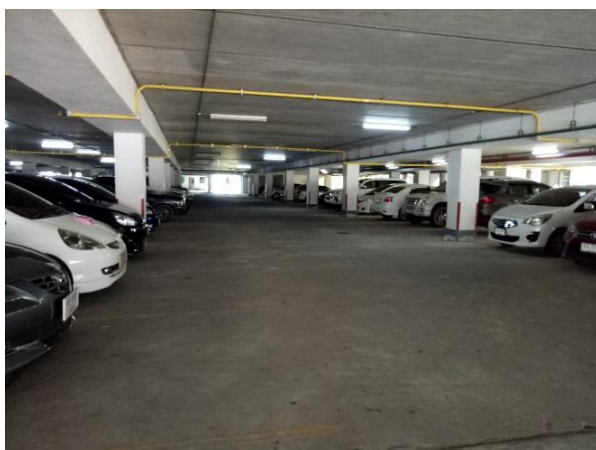
Softscape Parking with Concrete Block



Hardscape Parking with Asphalt Pavement



Hardscape Parking with Concrete Pavement



In Building Parking or Structure

The ratio of the ground parking area to total campus area (TR5)

$$(32,041.60) / (3,374,680.54) * 100\% = 0.9495 \%$$

[5] < 1%

Parking Types	Area (sq.m.)
1. Softscape with Compacted Soil	1,435.02
2. Softscape with Concrete Block	2,869.13
3. Hardscape with Asphalt Pavement	300.00
4. Hardscape with Concrete Pavement	10,144.20
5. In Building Parking or Structure	17,293.25
Total Parking	32,041.60

Total main campus area : 3,374,680.54 m²
Total parking area = 32,041.60 m²
Ratio = 0.9495

Program to limit or decrease the parking area on campus for the last 3 years (TR6)

(from 2021 to 2023)

Year	No.	Program to limit the Parking	Reduced Area (m ²)	Percentage (%)
2020	2	the south of the Office of the President (2)	2,800	8.27%
2021	4	the east of the Main Stadium (4)	1,800	4.88%
2021	5	the east of the Main Stadium (5)	1,820	4.93%
2021	6	the east of the Main Stadium (6)	1,440	3.90%
2022	7	the east of the Main Stadium (7)	5,700	17.78%

Year	No.	Program to limit the Parking	Reduced Area (m ²)	Percentage (%)
2023	8	The west of the International Square (8)	1,660	5.18%
2025	9	Faculty of Information and Communication	1,380	4.21%
2025	10	Faculty of Architecture and Environmental Design	900	2.81%
Total			9,640	30.01%

In summary, The committees of Maejo university master plan (2022-2025) approved the parking restriction area = 9,640 m² (approx. = 30.01% decrease parking area on campus)

Additional evidence :

The committees of Maejo university master plan (2018-2020) approved the parking restriction area around the Office of the President as follows;

- 2018, The parking area ② in the south of the Office of President reduced : 1,200 m² (approx. = 3.54%)
- 2019, The parking area ② in the south of the Office of President reduced : 1,200 m² (approx. = 3.25%)
- 2020, The parking area ② in the south of the Office of President reduced : 2,800 m² (approx. = 8.27%)



The restricted parking area (2018-2020)

The committees of Maejo university master plan (2021) approved the parking restriction area around the Office of President as follows;

- 2021, The parking area ๔ in the east of the Main Stadium reduced : 1,800 m² (approx. = 4.88%)



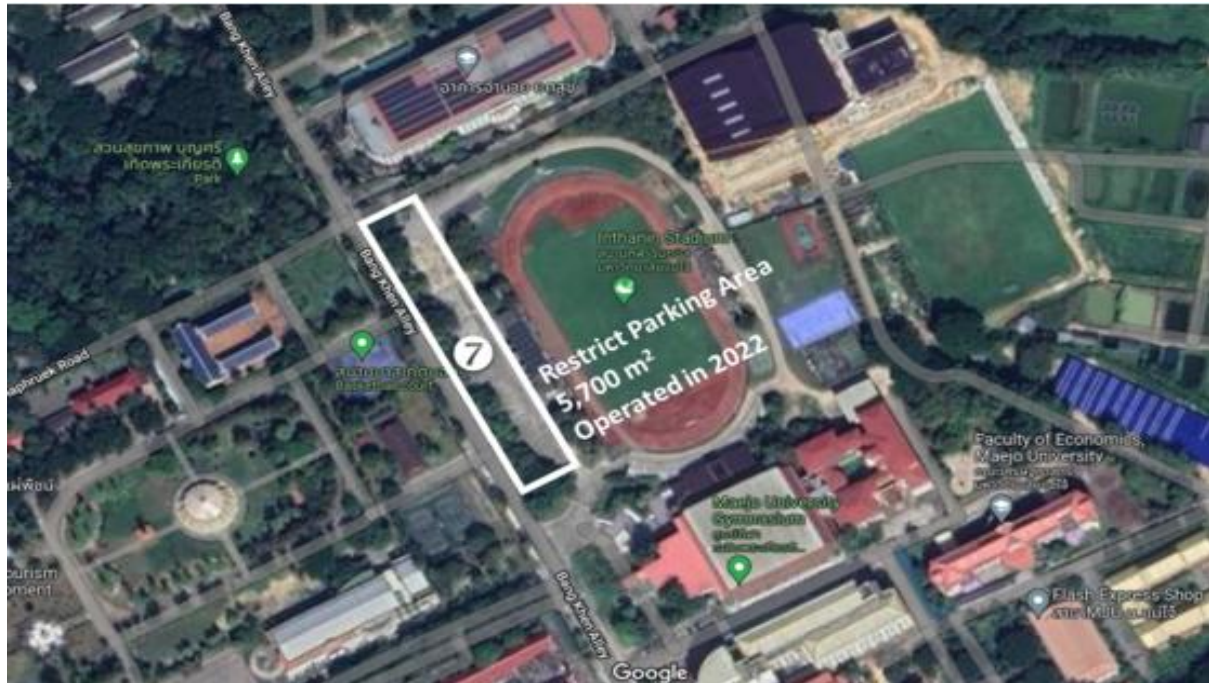
The committees of Maejo university master plan (2021) approved the parking restriction area around the Office of the President as follows;

- 2021, The parking area ๕ in the east of the Main Stadium reduced : 1,820 m² (approx. = 4.93%)
- 2021, The parking area ๖ in the east of the Main Stadium reduced : 1,440 m² (approx. = 3.90%)



The committees of Maejo university master plan (2022) approved the parking restriction area around the Office of the President as follows;

- 2022, The parking area ๗ in the east of the Main Stadium reduced : 5,700 m² (approx. = 17.78%)

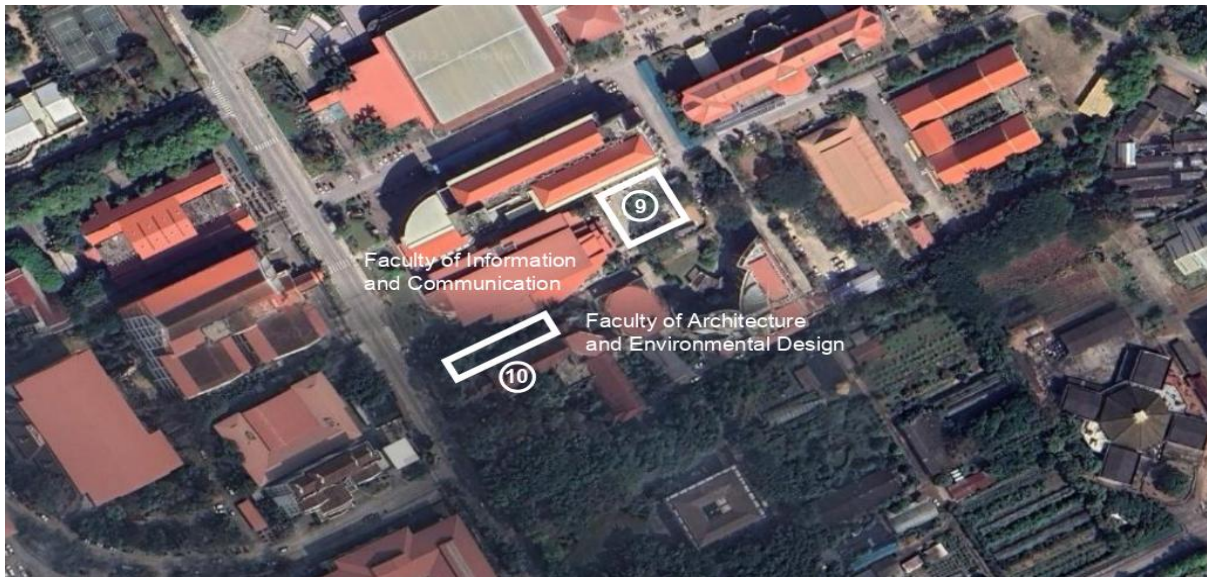


The committees of Maejo university master plan (2023) approved the parking restriction area around the International Square as follows;

- 2023, The parking area ๘ in the west of the International Square reduced : 1,660 m² (approx. = 5.18%)



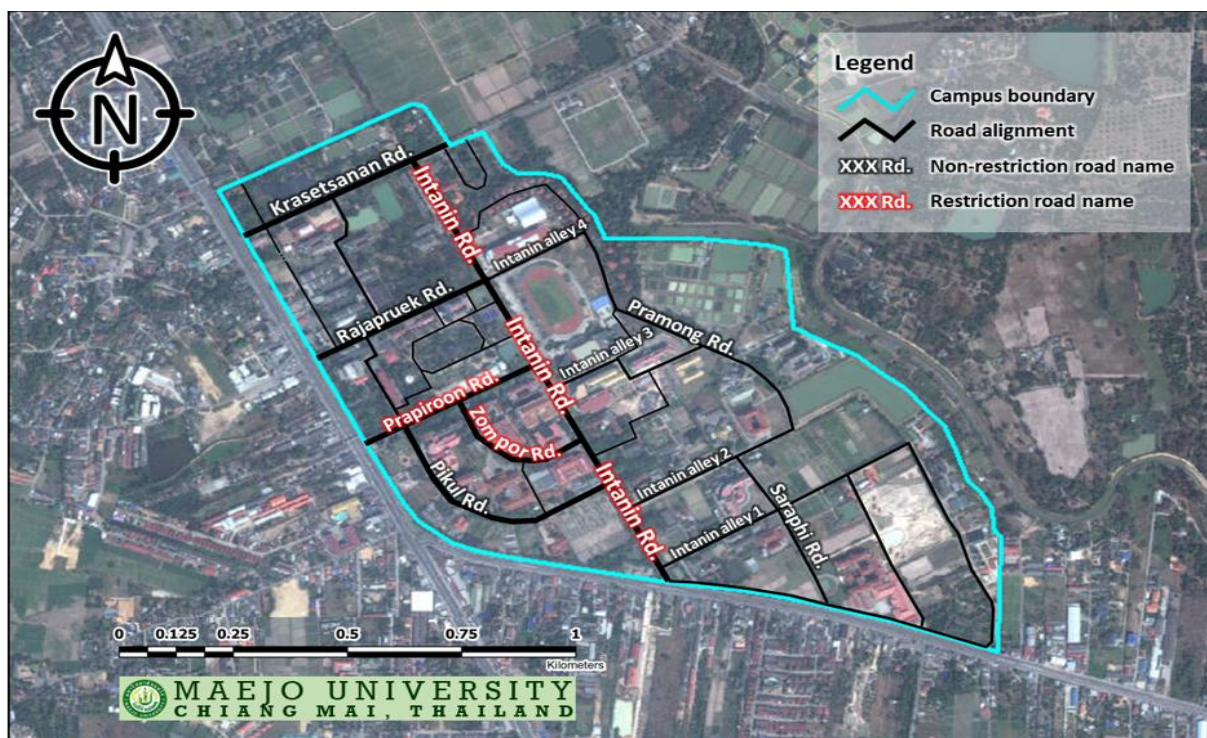
- 2025, The parking area ⑩ in the west of the International Square reduced : 2,280 m² (approx. = 7.02%)



On-street parking area restriction policy

From 2018, The committees of Maejo university master plan approved the traffic and parking restriction area to control the number of motor-vehicles traveling in the campus and to reduce the previous on-street parking in Intanin road, Prapiroon road, and Zompor road as shown below;

- The result found that the present parking area reduced : 40,902.43 m² to 34,744.03 m² (approx. = 15.06%)



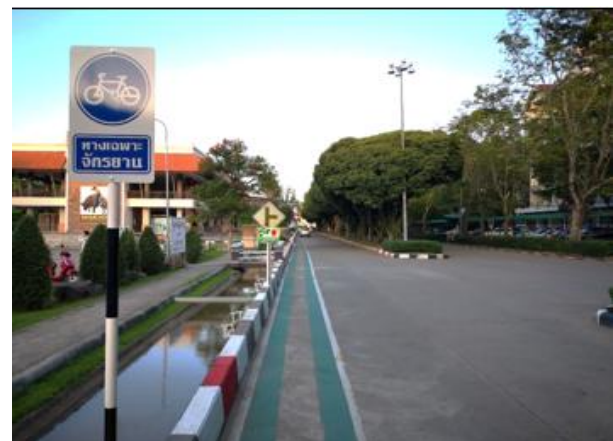
Maejo university on-street parking restriction area



On-street parking restriction on Zompur Rd.



On-street parking restriction in front of the main library building and the central academic building



On-street parking restriction on Intanin Rd.

Number of Transportation Initiatives to Decrease Private Vehicles on Campus

[5] > 3 initiatives comprising

Result = 7 transportation initiatives + 2 planning initiatives to decrease private vehicles on campus

At present, the project to decrease the traveling private vehicles on the university campus is being implemented consists of 7 projects as follows,

1. Free bicycle service on the campus
2. On-street parking restrictions on the main inner-road
3. MJU Transit (EV Shuttle) inside campus
4. MJU Car Free Day 2025
5. MJU Cycling Club (MJUCC)
6. Gate Restriction and Vehicle Registration System
7. Smart Bike-Sharing (Bicycle and EV Scooter) by AnyWheel (Thailand)

And there are 2 projects that are currently being presented as outlined to the university follows,

- (8) MJU Smart Gate Project
- (9) MJU Smart Parking Project

(1) free bike service operated and subsidized by the university as detailed in [5.9] and restricted bicycle lane in the main road network in the university



(2) parking restriction area around the Office of President (since 2018) and parking restriction on on-street parking as detailed in [5.14] aim to reduce vehicle entering to in the central of university (Education Zone)



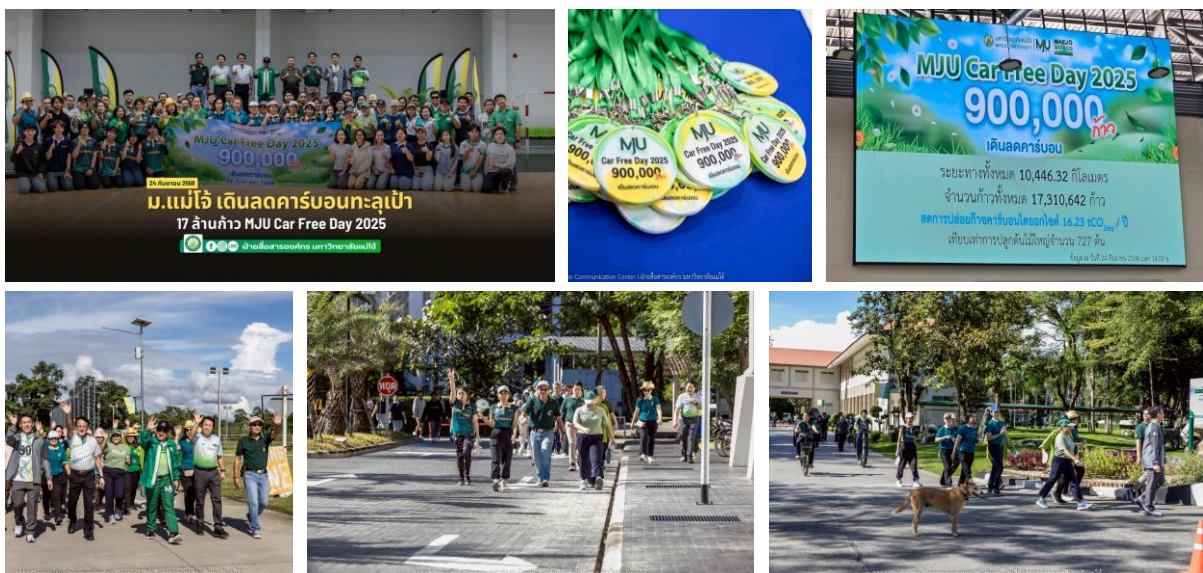
(3) MJU Transit operated for free inside the university area aim to change travel behavior from private vehicle to public transit in the campus



Additional evidence link :

- <http://www.green.mju.ac.th/?p=2443>
- http://www.green.mju.ac.th/?page_id=2492

(4) MJU Car Free Day (24 September 2025)



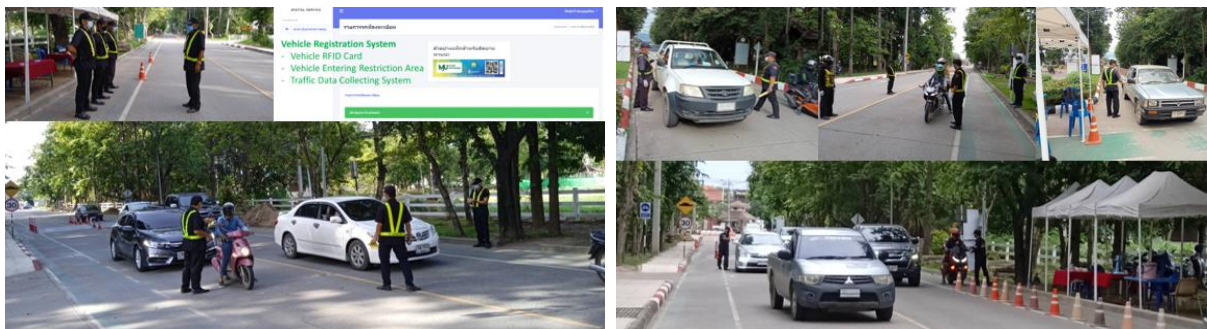
Additional evidence link : <https://www.facebook.com/MJUChiangmai>

(5) MJU Cycling Club (MJUCC) : the community club of cycling society in the university
The previous activities and details as following ;



Additional evidence link : https://www.facebook.com/pg/MJU-Cycling-Club-MJUC-190221161338516/about/?ref=page_internal

(6) Gate Restriction under COVID-19 situation (2020-2021), Control on Road Safety and Reducing Traffic Policy in Campus (since 2022)



(7) Smart Bike-Sharing for Traffic Restriction and Control By MOU between MJU and AnyWheel (Thailand) (Start in 2022)





(8) MJU Project to strengthen organizational transportation measures and introduce a safety riding for students, strengthening safe riding measures both inside and outside the university (27-28 Sep 2025)





(9) Smart Gate Project for Traffic Restriction and Control (Proposal 2022)



(10) Smart Parking Project for Traffic Restriction and Control (Proposal 2022)



Pedestrian path on campus (TR8)

Pedestrian paths are available, designed for safety, convenience, and in some parts provided with disabled-friendly features.



The pedestrian path on the main road of the campus (Intanin Rd.) has separated from road, leveling up platform, enough space, channelized control at intersection, in some path provided with disabled-friendly features, and surrounding with nature.

The approximate daily travel distance of a vehicle inside your campus only (in Kilometers)

Approximate VKT in the university = **6,855.09 km/day**

The approximate daily travel distance of vehicle (VKT) inside the campus was calculated from the transportation 4-step model and calibrated with traffic surveying data as follows;

Vehicle type	Vehicle Kilometer of Travel (VKT)
Motorbike	3,865.90 km/day
Personal Car	2,989.18 km/day
Bus and Truck	0 km/day
Total	6,855.09 km/day

Impact of Transportation programs in supporting the Sustainable Development Goals (SDGs)



Since 2023, Maejo University's report highlights significant advancements in sustainability and community engagement across various domains. Key initiatives include the implementation of green building standards in new and renovated campus structures, the promotion of sustainable commuting through electric vehicle shuttles and bike-sharing services, and a comprehensive waste management strategy focusing on hazardous materials.

Furthermore, Maejo University collaborates with local authorities for regional planning, emphasizing affordable housing and environmental protection. The institution's green procurement policy prioritizes local, organic, and fair-trade food and supplies. Additionally, Maejo University actively engages in cultural preservation through various projects and the development of learning centers, such as the Thai Agricultural Culture Museum. These initiatives reflect the university's commitment to environmental

sustainability, ethical sourcing, and community collaboration, aligning with its long-term goals for a sustainable and inclusive educational environment.

Transportation Program	SDG3	SDG4	SDG7	SDG9	SDG11	SDG12	SDG13	SDG17
1. MJU Transit EV Shutter Service	✓		✓		✓	✓	✓	
2. Zero Emission Vehicle Service	✓		✓	✓	✓	✓	✓	✓
3. Pedestrian Path Service	✓	✓	✓		✓	✓	✓	
4. Parking Control Activities	✓		✓		✓	✓	✓	
5. Road Safety Education for Students	✓	✓			✓			✓
6. MJU Car Free Day and MJU Cycling Club	✓	✓			✓	✓	✓	✓
7. Gate Restriction and Vehicle Registration System	✓			✓	✓			
8. MJU Mobile Application by KTB	✓	✓		✓	✓			✓
9. MJU Information and Bus Stop Service	✓			✓	✓			

Maejo University is currently (2025) ranked 601-800th out of 2,526 worldwide universities and 6th out of 83 universities in Thailand in the SDGs Impact Ranking.

ED

EDUCATION AND RESEARCH



MAEJO GO ECO UNIVERSITY 
THE OPERATION GREEN UNIVERSITY REPORT 2026

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4

QUALITY
EDUCATION



8

DECENT WORK AND
ECONOMIC GROWTH



9

INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11

SUSTAINABLE CITIES
AND COMMUNITIES



12

RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13

CLIMATE
ACTION



17

PARTNERSHIPS
FOR THE GOALS



to sustainability offered

No.	Course Code	Course Name (Thai)	Course Name (English)	Environmental & Sustainability Integration Description
11	ms316	การบูรณาการด้านสิ่งแวดล้อมและการพัฒนาชุมชน	Urbanization and Social Change	Explores multi-dimensional environmental challenges arising from rapid urbanization and examines community adaptation pathways toward building sustainable cities.
12	ms321	การพึ่งพิงและการพัฒนาที่ยั่งยืน	Sufficiency Economy and Sustainable Development	Applies the Sufficiency Economy Philosophy as a foundational framework for national development and living in harmony to achieve United Nations Sustainable Development Goals (SDGs).
13	ms323	การจัดการสิ่งแวดล้อมชุมชน	Environmental Management for Communities	Focuses on establishing participatory frameworks for household members to lead waste minimization, local treatment, and community-driven habitat conservation.
14	ms324	ระบบการผลิตอาหารทางเลือก	Alternative Agriculture System for Community Development	Examines and promotes non-chemical/agricultural models, including organic farming and agroecology, to effectively restore biodiversity and soil health.
15	ms326	ธุรกิจและสิ่งแวดล้อม	Business and Environment	Explores modern business practices combined with Corporate Social Responsibility (CSR), green supply chains, and organizational carbon footprint assessments.
16	ms336	การจัดการท่องเที่ยวชุมชน	Tourism Management in a Community	Focuses on planning and administering community-based ecotourism to distribute economic benefits equitably without degrading local natural resources.
17	ms339	การจัดการสิ่งแวดล้อมชุมชน	Tourism Management in a Community	Addresses the advanced assessment of ecological carrying capacity for community destinations to prevent overtourism and subsequent environmental degradation.
18	ms353	การจัดการทรัพยากรธรรมชาติและสิ่งแวดล้อมชุมชน	Community Natural Resources and Environmental Management	Integrates indigenous/local wisdom with modern scientific frameworks to plan, allocate, and conserve community-owned land, water, and forest resources.

No.	Course Code	Course Name (Thai)	Course Name (English)	Environmental & Sustainability Integration Description
29	EN581	วิธีการวัดปริมาณการปล่อยก๊าซเรือนกระจก ตามมาตรฐานสากล	Research Methods in Sustainable Land	Trains researchers to use geo-spatial tools and sustainability indicators to measure long-term land-use changes and environmental indicators.
30	EN512	การจัดการน้ำและทรัพยากรดินอย่างยั่งยืน ในระบบนิเวศเกษตร	Land Use and Natural Resource Management at Sub-Watershed Level	Develops ridge-to-ridge spatial management strategies to prevent soil erosion, maintain hydrology, and protect sub-watershed ecosystems.
31	EN561	การประเมินผลกระทบสิ่งแวดล้อมทางสังคม และวัฒนธรรม	Applied Metro Hydrology	Analyses hydrological cycles and meteorological data trends to design climate change adaptation models and regional water resilience.
32	EN562	การประเมินผลกระทบสิ่งแวดล้อมทางสังคม และวัฒนธรรม	Environment, Social and Health Impact Assessment	Focuses on the procedural frameworks of ESHA to proactively evaluate and mitigate potential hazards of developmental projects.
33	EN585	การจัดการทรัพยากรน้ำอย่างยั่งยืน ตามมาตรฐานสากล	Selected Topics in Sustainable Land Use and Natural Resource Management	Investigates emerging global environmental paradigms, carbon markets, and nature-based solutions for regenerative land resource practices.
34	EN695	การจัดการน้ำอย่างยั่งยืน	Independent study	Provides an academic pathway for excelling targeted research addressing complex local environmental challenges or green innovation.
35	EN354	การตลาดสีเขียว	Social Marketing	Applies marketing methodologies to foster pro-environmental behaviors, sustainable consumer choices, and civic green campaigns.
36	EN336	การจัดการทรัพยากรธรรมชาติและสิ่งแวดล้อม	Conservation of Nature and Environment Law	Critiques administrative and regulatory legal frameworks aimed at preserving critical habitats, biodiversity, and managing environmental compliance.
37	EN312	การจัดการทรัพยากรธรรมชาติและสิ่งแวดล้อม ตามมาตรฐานสากล	Local with Natural Resources Management and Environment	Builds decentralized community resilience plans to manage climate induced disasters and safeguard localized natural ecosystems.
38	EN518	การจัดการทรัพยากรธรรมชาติและสิ่งแวดล้อม	Integrated Tourism Management	Synthesizes sustainable tourism operations with regional master planning to preserve environmental culture heritage and protect cultural heritage.

Examples of sustainability-related content in each course

ชื่อหลักสูตร
ภาษาไทย : หลักสูตรวิทยาศาสตรบัณฑิต สาขาวิชาทรัพยากรป่าไม้
ภาษาอังกฤษ : Bachelor of Science Program in Forestry

ชื่อปริญญาและสาขาวิชา
ชื่อเต็ม ภาษาไทย : วิทยาศาสตรบัณฑิต (ทรัพยากรป่าไม้)
ชื่อเต็ม ภาษาไทย : บ.บ. (ทรัพยากรป่าไม้)
ชื่อเต็ม ภาษาอังกฤษ : Bachelor of Science (Forestry)
ชื่อเต็ม อังกฤษ : B.S. (Forestry)

[illegible]

INTERESTING SUBJECTS

- 01 Ecological Design and Innovation
- 02 Life Cycle Assessment (LCA) for Sustainable Design
- 03 Design Thinking for Sustainability
- 04 Digital Transformation and Human Behavior
- 05 Green Technology Innovation for Sustainability

The infographic illustrates the Life Cycle Assessment (LCA) process. At the center is a green circle labeled 'LIFE CYCLE ASSESSMENT'. Surrounding it are five icons connected by arrows in a clockwise cycle: 'Raw materials' (a tree), 'Manufacturing' (a factory), 'Distribution' (a truck), 'Use' (a person), and 'End of life' (a recycling symbol). To the right, a larger light blue circle contains two icons: a gear with a lightbulb (representing innovation or design thinking) and a target (representing goals or objectives). A line connects the 'LIFE CYCLE ASSESSMENT' circle to the target icon, suggesting that LCA informs the goals of sustainable design.

Examples of new courses related to "green" and sustainability

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

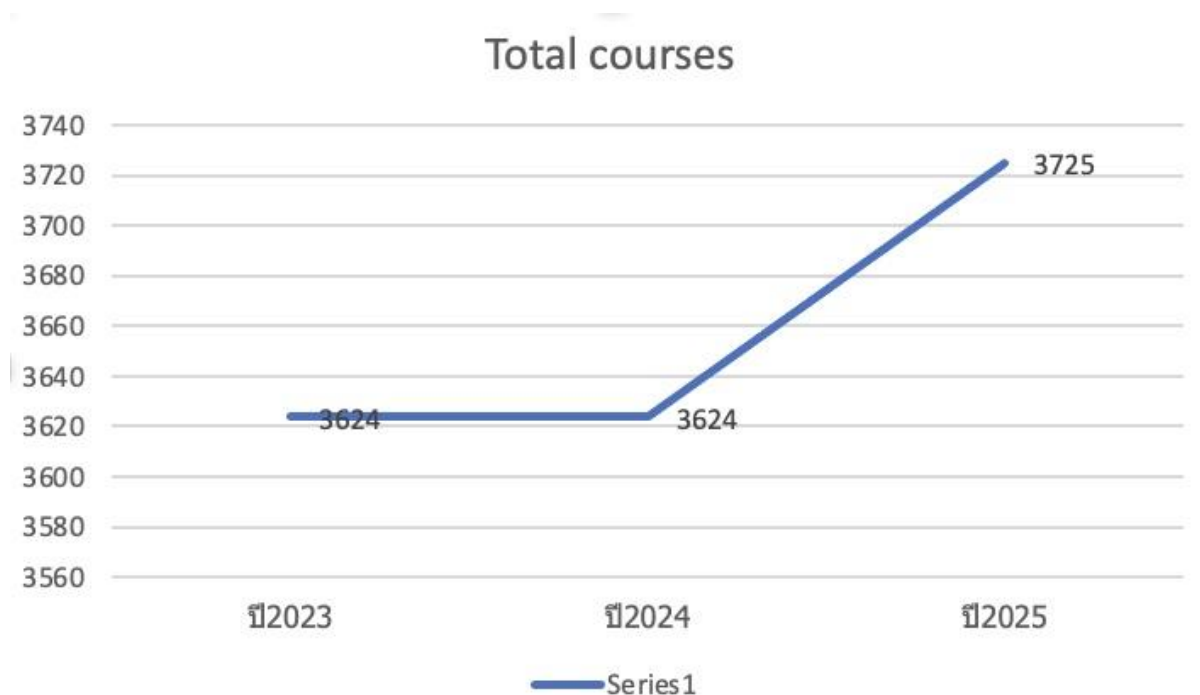
topics of instruction and projects consistently consider the principles of green, energy, organic, ecological, and sustainability.

Total number of courses with sustainability embedded for courses running: **852**

Additional evidence link : <https://edu.mju.ac.th/www/ProgramInfo.aspx>

— Total number of courses/subjects offered —

= 3,725 courses



Total Courses Offered in 2023-2025	
Year	Number of total courses
2023	3,624
2024	3,624
2025	3,725

Total number of courses offered in 2025 = 3,725 courses

This year, the number of courses has increased by 101, resulting from curriculum revisions and the launch of new programs related to sustainability—such as forestry, renewable energy, and the environment—at both the undergraduate and graduate levels.

Additional evidence link : <https://edu.mju.ac.th/www/ProgramInfo.aspx>

Total number of study program related to sustainability offered

No.	Faculty / School	Educational Programs
1	Faculty of Agricultural Production	Agricultural Extension and Development
		Entomology
		Soil Science
		Agronomy
		Horticulture (Vegetables, Ornamental, and Fruits)
		Plant Protection
		Herbal Science
2	Faculty of Science	Chemistry
		Applied Chemistry
		Biology
		Mathematics
		Statistics
		Computer Science
		Information Technology
3	Faculty of Engineering and Agro-Industry	Food Engineering
		Post-Harvest Technology
		Agricultural Engineering
		Agro-Industrial Technology
4	Faculty of Animal Science and Technology	Animal Science
		Livestock Production Technology
		Innovation in Animal Husbandry
5	Faculty of Fisheries Technology and Aquatic Resources	Fisheries Science
		Aquatic Resources Management
		Aquaculture Technology
6	Faculty of Architecture and Environmental Design	Landscape Architecture
		Architecture
		Landscape Technology
7	Faculty of Business Administration	Marketing
		Management
		Accounting
		Finance
		Digital Business Administration
8	Faculty of Economics	Economics
		Agricultural Economics
		Digital Economics
9	Faculty of Liberal Arts	Communication Arts
		Tourism Systems
		English / Thai for Foreigners
10	Faculty of Information and Communication	Digital Communication
		Media Production
		Information Technology Management
11	School of Administrative Studies	Public Administration
		Local Governance
		Public Policy
12	School of Renewable Energy	Renewable Energy Engineering
		Sustainable Green Energy Technology
13	Maejo International College	International Business
		Digital Economics (International Program)
		Organic Agriculture (International Program)
14	Faculty of Nursing	Nursing Science
		Healthcare Management Programs
15	Faculty of Veterinary Medicine	Veterinary Medicine
		Animal Health Sciences
16	Maejo University - Phrae Chalermprakiat	Multi-disciplinary Ecosystem Programs
17	Maejo University - Chumphon Campus	Coastal Fisheries
		Crop Production
		Southern Tourism Management
18	Graduate School	Centralized Master's Degree Tracks
		Centralized Doctoral Degree Tracks

Number of study program related to sustainability offered

Above is a list of the study programs that have had changes approved through the Curriculum Refresh programme, which aims to embed sustainability into all course and module content offered by the University.

Additional evidence link : <https://edu.mju.ac.th/www/ProgramInfo.aspx>

The ratio of sustainability courses to total courses/subjects (ED1)

Number of courses/modules related to environment and sustainability offered in 2025 = **852** courses. Number of total courses in 2025 = 3,725
(<http://www.education.mju.ac.th/www/programStructure>)

The ratio of sustainability courses to total courses/subjects = $\frac{852 \times 100}{3,725} = \mathbf{22.87\%}$

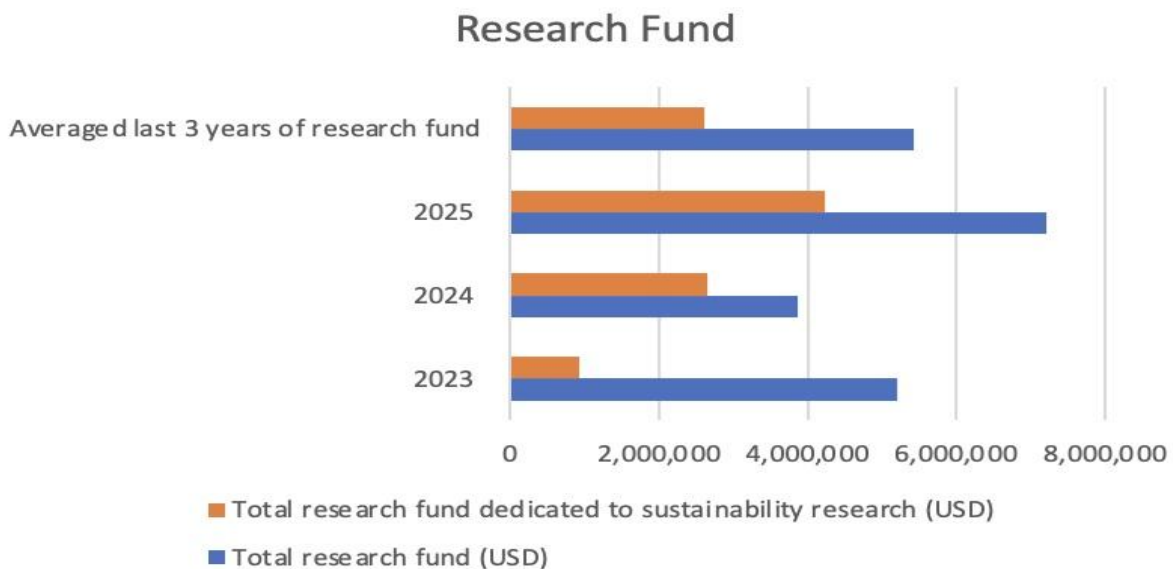
Formula : $(6.1 / 6.2) \times 100\%$

Please select one option:

- [1] $\leq 1\%$
- [2] $> 1-5\%$
- [3] $> 5-10\%$
- [4] $> 10-20\%$
- [5] $> 20\%$

Additional evidence link : <https://edu.mju.ac.th/www/ProgramInfo.aspx>

Total Research Funds Dedicated to Sustainability Research (in US Dollars)



last 3 years of research fund

Research fund	Total research fund (USD)	Total research fund dedicated to sustainability research (USD)
2023	5,197,901	920,164.84
2024	3,876,774	2,651,344
2025	7,214,181.35	4,234,277.11
Averaged last 3 years of research fund	5,429,618.78	2,601,928.65

*1 USD = 36.40 bath, (19 October 2023) for 2023

*1 USD = 33.78 baht (26 October 2024)

***1 USD = 32.81 Bath (18 October 2025)**

Additional evidence link :

- The Office of Agricultural Research and Extension Maejo University on : https://rae.mju.ac.th/wtms_index.aspx?&lang=th-TH
- Lists of all research and the budget are available on : <https://erp.mju.ac.th/researchIndex.aspx>

We attend a green, organic, and eco-friendly university; therefore, research and academic service strategies tend to be along these lines. The keywords for this are green, sustainable, eco-, ecology, climate change, waste, energy, environment, and organic, which are found in both titles and keywords of the research. This year, **159 research projects (2,601,928.65 USD)** are related to green and sustainability. Thus, the ratio of sustainability research funding to total research funding in the last 3 years (2023-2025) is **47.92%**.

The ratio of sustainability research funding to total research funding

$$= (1,622,851.34 / 3,811,753.63) \times 100 = 47.92\%$$

[1] ≤ 1%

[2] > 1 - 8%

[3] > 8 - 20%

[4] > 20 - 40%

[5] > 40%



Moreover research funding in the Annual report :

The titles of green and sustainable research funding in the last 3 years (2023-2025) are represented as follows;

No.	Title of research (2025)	USD
1	Improvement of photoperiod-insensitive, semi-dwarf, fragrant glutinous rice, Khaw Dawk Mai-Maejo 2 (KDML-Maejo 2), for short harvesting period and resistance to brown planthopper, bacterial leaf blight, and blast disease using Marker-Assisted Selection (MAS) (Year 2)	13,776.29
2	Rice Breeding for Yield Enhancement by Genome Editing Technology	13,776.29
3	Development of Purple Curcuma Cultivars to Increase Commercial Potential	9,632.73
4	Improvement of Rice Variety KDML 79 for Early Flowering, Fragrance, and Resistance to Bacterial Leaf Blight, Blast Disease, and Brown Planthopper using Molecular Markers (Year 4)	13,776.29
5	Digestibility Potential of F1 Hybrid Forage Corn as High-Energy Roughage to Enhance Dairy Cattle Feeding Quality	11,642.79
6	Evaluation of Genetic Diversity and Selection of Potato Germplasm (<i>Solanum tuberosum</i> L.) using Morphological and Molecular Markers for Potato Breeding with Improved Agronomic Traits, Tuber Quality, and Yield under Thai Environment	13,776.29
7	Development of Nitrogen Dioxide Sensor from Functionally Enhanced Nanostructured Composite Materials for Smart Agriculture	13,776.29
8	Feasibility Study of Optimal Stocking Density for Organic Nile Tilapia Farming in Biofloc System under Participatory Guarantee Systems - Maejo PGS	13,776.29
9	Development of Synbiotic Products as Feed Supplements for Organic Laying Hens according to Agricultural Standard (Thai Agricultural Standard TAS 9000)	13,776.29
10	Influence of Laying Hen Strains on Production Performance, Egg Quality, Cost, and Return on Investment under Organic Livestock System (TAS 9000 Volume 2-2561)	8,838.77
11	Development of a Technology Platform to Support Participatory Guarantee Systems (PGS) for Safe/Organic Agricultural Products from Farmers in Chiang Mai Province (Year 2)	238.95
12	Advanced Development of DNA-Based Agricultural Disease Detection Kits for On-Farm and Household Use	12,246.27
13	Development of Prototype Solution for Assessing Heavy Metal Index in Crop Fields and Soil Nutrients with X-ray Fluorescence (XRF) Analyzer for Participatory Safe/Organic Agricultural Product Certification	10,424.26
14	Development of a Solution for Recording Planting Data According to Safe Agriculture Standards using Near Field Communication	12,843.65

No.	Title of research (2025)	USD
	(NFC) Technology via Mobile Application for Participatory Guarantee Systems (PGS)	
15	Development of Smart Cricket Farm with Temperature and Climate Control System from Solar Hot Water Production System to Elevate Farming Standards to GAP (Year 2)	13,776.29
16	Design and Construction of a Flash X-ray Machine for Agricultural Applications	13,776.29
17	Development of Health-Enhancing Bioproducts in Feed from Organic Hemp Extract to Boost Immunity Against Viruses and Bacteria in Aquaculture	11,033.22
18	Smart Catfish Hatchery and Nursing System for Sustainable High-Quality Catfish Fingerling Production in the Upper Northern Region of Thailand	13,776.29
19	Development of a Production Process for Seasoned Fermented Crab Paste (Nam Pu Ra) to Enhance Product Quality	8,076.81
20	Effect of Pure Oxygen Supplementation in Aeration System on Growth, Yield, Cost, Bacterial Contamination, and Water Quality in Biofloc Farming of Marine Nuanchan Fish (<i>Puntius sarana</i>) in a Controlled Temperature Greenhouse	13,776.29
21	Study of Suitable High-Quality Feed Types and Preparation Methods for Ark Shell (<i>Hoi Kraeng</i>) Farming in a Controlled Temperature Greenhouse	11,703.75
22	Development of Sweet Sorghum Production Potential towards Product and Energy Innovation from Upstream to Downstream with Zero-Waste System and Low Carbon Credit	431.61
23	Assessment of Carbon Credits in Ethanol Production from Sweet Sorghum Juice and Sweet Sorghum Lignocellulose	10,739.90
24	Modified Biochar Innovation for Managing Agricultural Waste Residues to Develop a Circular Economy for Agricultural Communities	1,523.32
25	Development of a Method for Extracting Bioactive Compounds from Agricultural Waste (Onion Peel) using Ultrasonic Technique with Deep Eutectic Solvents (DES) for use in Cosmetics	11,033.22
26	Guidelines for Community Development Towards a Low Carbon Society: Case Study Ban Boon Cham, Nam Lao Sub-district, Rong Kwang District, Phrae Province	1,881.74
27	Perception, Willingness to Pay, and Economic Valuation for Low Carbon Community Management in Ban Boon Cham, Nam Lao Sub-district, Rong Kwang District, Phrae Province	5,675.10
28	Potential for Low Carbon Tourism Management: Ban Boon Cham, Nam Lao Sub-district, Rong Kwang District, Phrae Province	5,675.10
29	Development of Foam Glass from Waste Glass Bottles as a Heat Insulator instead of PS Foam for Cold Room Walls to Reduce Environmental Impact	8,259.68

No.	Title of research (2025)	USD
30	Capacity Building of Village Health Volunteers (VHV) for Monitoring Anemia and Promoting Nutrition in Pregnant Women, San Sai District, Chiang Mai Province	2,743.07
31	Ecosystem Services of Forest Areas within Maejo University Farm, Chiang Mai Province	9,936.00
32	Assessment of Carbon Sequestration of Trees in Urban School Areas towards Becoming a Green City: Case Study Maejo Municipality, Chiang Mai Province	7,832.98
33	Capacity Building of Village Health Volunteers (VHV) for Screening and Promoting Development and Nutritional Status using Safe Food in Early Childhood, San Sai District, Chiang Mai Province (Year 2)	5,516.61
34	Social Innovation: Community Health Volunteer for Reducing Health Disparity in Vulnerable Elderly Groups through Tele-Physiotherapy and Local Herbal Wisdom in Participatory Communities	6,613.84
35	Development and Continuation of Wood Carving Handicrafts in San Pa Tong District, Chiang Mai Province	8,259.68
36	Innovation in Value Chain Management with Digital Platform to Elevate Dried Longan Production of Quality Longan Large Farming Group in Chiang Mai and Lamphun Provinces (Year 2)	331.55
37	Guidelines for Greenhouse Gas Reduction in Dried Longan Production of Quality Longan Large Farming Group in Chiang Mai and Lamphun Provinces	11,837.06
38	Digital Platform for Value Chain Management of Dried Longan Production of Quality Longan Large Farming Group in Chiang Mai and Lamphun Provinces	11,837.06
39	Development of Hemp Seed Oil Extraction Process and Utilization of Byproducts in Value-Added Food Supplements	13,684.85
40	Application of Mesoporous Natural Rubber/Silica Nanocomposite Modified with Organic Amine and Copper as Caffeine Adsorbent for Healthy Beverage Production (Year 2)	13,776.29
41	Smart Hybrid Drying System for Processing Agricultural Products, Herbs, and Functional Foods (Semi-Industrial Scale) (Year 2)	298.69
42	Processing of Agricultural Products, Herbs, and Functional Foods with Hybrid Drying (Semi-Industrial Scale) (Year 2)	8,213.96
43	Development of Cultivation and Upgrading of Processing of High-Value Lion's Mane Mushroom at Huai Hong Khrai Royal Development Study Center, Chiang Mai Province (Year 2)	23,437.98
44	Development of Processing and Economic Returns of Processed Products from Upland Rice to Upgrade and Add Commercial Value	1,182.81
45	Development of Basil Nano-Capsules Oil on Antioxidant Capacity and Gut Microbes of Free-Range Laying Hens	13,776.29

No.	Title of research (2025)	USD
46	Development of Production Process for Germinated Rice Seedlings from Thai Rice Resources for use as a High-Protein Roughage Source for Ruminants	13,745.81
47	Development of Bio-Fertilizer to Increase Yield and Quality of Soybean in Chiang Mai Province	8,259.68
48	Enhancement of PGPR Bacteria Potential to Mitigate Drought Stress for Development into Bioproducts to Enhance Drought Tolerance in Rice	13,380.07
49	Development of Sweet Corn 'Pure White Hokkaido' Seed Coating Formula with Humic Acid and Seed Treatment with Fungicides to Elevate Industrial Cultivation	11,033.22
50	Elicitation of Secondary Metabolite Production in Cinnamon Vine (Cinnamomum iners) by Hairy Root Culture for High-Value Extract and Cosmetic Development	8,259.68
51	Extraction of Fresh Herbs with Environmentally Friendly Extraction Techniques and Study of Biological Activity	8,838.77
52	Energy Management for Cannabis/Hemp Cultivation Farms using Smart Monitoring System and Energy Economics Assessment (Year 2)	13,776.29
53	Semi-Transparent Solar Cell Greenhouse Wall for Reducing Heat Transfer into the Greenhouse	13,776.29
54	Technology for Converting Smoke from Charcoal Production Process to be Used as Co-firing Energy for Solar Dryers	13,776.29
55	Assessment of Greenhouse Gas Emission Reduction from Energy Management Measures of Maejo University to Support Being a Green University	13,776.29
56	Development of Carboxymethyl Cellulose (CMC) from Agricultural Lignocellulosic Waste for Application as Edible Packaging Film and Fruit Coating Material (Year 2)	12,496.19
57	Development of Leather Substitute Material from Agricultural Waste	13,776.29
58	Development of Silica Aerogel from Agricultural Waste for Oil Adsorption	13,776.29
59	Development of New Commercial Value Chain of Striped Peanut (Thua Lai Suea) Products in Mae Hong Son Province under Creative Economy and New Economy Concepts	1,493.45
60	Planting Plan for Striped Peanut in a Large Farming System to Achieve Economic Goals and Food Security	7,314.84
61	Creation of Business Model and Value-Added Products for Striped Peanut Processing Community Enterprise in Mae Hong Son Province with Creative Economy Concept	7,314.84
62	Creative Marketing Strategy to Enhance Competitiveness of Striped Peanut Processing Community Enterprise in Mae Hong Son Province	7,314.84
63	Creation of Low-Carbon Healthy Dishes to Promote Health Tourism in Thung Tako District, Chumphon Province	8,259.68

No.	Title of research (2025)	USD
64	Guidelines for Developing Creative Tourism Products Based on Community Identity towards the Quality Tourist Market in Ban Mae Taman Area, Chiang Mai Province	3,413.59
65	Food Tourism Model Based on Local Identity to Elevate Tourism in Ban Mae Taman, Mae Taeng District, Chiang Mai Province	5,486.13
66	Development of Herbal Steam Service for Health Based on Community Identity in Ban Mae Taman Area, Chiang Mai Province	5,486.13
67	Development of Creative Souvenir Prototypes Based on Community Identity in Ban Mae Taman Area, Chiang Mai Province	5,486.13
68	Extraction of Ready-to-Use Tryptanthrin from Hom (Phlogacanthus pulcherrimus) Plant using Microwave-Assisted Metagenomic Process to Develop Prototype Herbal Gel Patch to Relieve Cold Symptoms, Reduce Fever, based on BCG Model	49,619.02
69	Development to Elevate Tourism Economy, Products, and Health Services with Lanna Traditional Medicine Wisdom Base Towards High-Value Tourism Market	914.36
70	Development of Health Products and Services with Technology and Innovation to Elevate Tourism with Lanna Traditional Medicine Wisdom Base Towards High-Value Tourism Market	7,302.65
71	Development of Tourism Activities and Health Services of Lanna Spa with Lanna Traditional Medicine Wisdom Base Towards High-Value Tourism Market	5,406.89
72	Capacity Building of Community Enterprise Group for Tourism and Health Services with Lanna Traditional Medicine Wisdom Base Towards High-Value Tourism Market	6,260.29
73	Agro-Ecology, Health, and High-Value Culture Community: Development of an Integrated Community-Based Tourism Ecosystem Based on Resources and Innovation for Driving the Community Towards a Sustainable Tourism Destination	1,523.93
74	Value Addition to Tourism Products with Innovation from Tangible Community Capital Resources to Elevate Community-Based Tourism Management to a High-Value Tourist Destination	6,461.44
75	Activity and Service Models for Tourism with Service Innovation from Cultural Capital to Elevate Sustainable Community-Based Tourism Management	6,095.70
76	Promotion of Agriculture According to Community Agro-Ecology with Innovation for Value Creation of Local Vegetables, Local Food, and Herbs Towards a High-Value Community-Based Tourist Destination	6,522.40
77	Development of a Community-Based Tourism Marketing System that is Responsive to Change with Innovation Towards Becoming a Sustainable Tourism Destination "Creating an Agro-Ecology, Health, and High-Value Culture City"	6,461.44

No.	Title of research (2025)	USD
78	Capacity Building of Human Resources with Service Innovation to Elevate Creative Community-Based Tourism Management	6,095.70
79	Value Addition of Durian Peel to Develop a Disinfectant in Livestock Farming	13,776.29
80	Phusa in the Context of Phrae Cultural Products to Create an Innovation Community for Sustainable Development	1,619.02
81	Cultural Tourism Development Plan for the Sustainability of Phrae City Community through the "Phusa Culture" Map	7,125.27
82	Phrae Phusa Prototype Digital Platform to Promote Products and Innovation Community for Sustainability	7,802.50
83	Analysis of Value Chain and Carbon Storage in Biomass of Dendrocalamus giganteus Bamboo Towards Building Grassroots Economy in Phrae Province	11,033.22
84	Study of the Release of Biogenic Volatile Organic Compounds from Dominant Plant Species in the Forest and Sources of Primary and Secondary Aerosols in Doi Inthanon National Park, Chiang Mai Province	37,204.08
85	Desirable Graduate Attributes According to Stakeholder Needs for Digital Economics and Cooperative Program, Faculty of Economics, Maejo University	304.79
86	Study of Ecotourism Development Guidelines: Case Study Mon Jam, Mae Rim District, Chiang Mai Province	1,219.14
87	Assessment of Organizational Carbon Footprint of Maejo University Office	1,523.93
88	Study of the Environment Conducive to Being a Group of Technology Development and Innovation Promotion University (Group 2) for Students	1,523.93
89	Analysis of Issues and Strategies for Development According to the Sustainable Development Goals of Maejo University Towards International Ranking	1,523.93
90	Effectiveness of Designing and Planning Vegetation According to Spatial Forms in Planting to Reduce Air Pollution for Public Areas in Maejo University and Home Landscapes in San Sai District, Chiang Mai Province	243.83
91	Assessment of Carbon Sequestration of Trees in the Faculty of Architecture and Environmental Design, Maejo University	243.83
92	Guidelines for Developing Co-Working Spaces to Promote Creativity and Sustainable Learning	243.83
93	Green Bonds in the Context of Thailand	304.79
94	Development of Strategic Guidelines for Adopting Digital Technology in Organic Agricultural Retail Business: Case Study Chiang Mai Province	304.79
95	Value Chain in Catfish Production in San Sai District, Chiang Mai Province	914.36

No.	Title of research (2025)	USD
96	Upgrading Quality and Safety Standards of Mud Crab (Pu Na) Trimming Process in Community Enterprise with Hazard Analysis and Critical Control Points (HACCP) System	914.36
97	Development Model of Agricultural Entrepreneurship Characteristics Based on Green Economy	761.96
98	Influence of Biochar on Growth and Yield of Salad Vegetables in Organic Growing System	304.79
99	Testing of Optimal Planting Distance and Nutrients for Growing Grass Jelly (Cyclebarbata) to Improve Quality After Boiling	304.79
100	Strategy for Developing Essential Work Skills to Enhance Income Security in Preparation for an Aging Society of Late-Adulthood Farmers in the Highland Area, Mae Fa Luang District, Chiang Rai Province	304.79
101	Access to Green Space and Satisfaction with Sustainable Environment in Educational Institutions: Case Study Maejo University	1,523.93
102	Social Business Innovation Model for Organic Agricultural Product Stores for Gen Z Consumers	1,523.93
103	Relationship between Health Literacy and Self-Protection Behavior from Pesticide Use of Undergraduate Students Studying in Plant Production Program at a University	1,523.93
104	Project to Develop Laboratory Standards Towards Becoming Thailand's Organic Food Testing Center	51,630.61
105	Central Co Create Joins Hands to Co-Design Safe Nature in Mae Chaem: Mae Pan-San Kiang Model	36,525.45
106	Safe Nature Mae Chaem: Mae Pan-San Kiang Mode	40,963.12
107	Development of Training Contents on Green Job Training, Photovoltaic (PV), and Conducting Training of the Trainers.	18,774.76
108	LMC Spice Routes: The Development of Gastronomy and Cultural Tourism Platform.	340,116.37
109	Prevalence of High-Priority Watchlist Contaminants in the Water Resources of Developing Regions: A Focus on Environmental and Human Toxicology of Emerging and Persistent Contaminants.	66,589.21
110	Addressing Water Access Issues in Marginalized Rural Mountain Communities in Northern Thailand: Phase I Feasibility Study	46,376.10
111	Study of Chitosan Nanoparticle Delivery Efficiency and Toxicity in Economic Animals	1,523.93
112	Drip Irrigation System for Increasing Potato Yield in Fiscal Years 2025-2026	20,115.82
113	Voluntary Greenhouse Gas Reduction according to Thailand's Standard (T-VER) for Forestry Type by Mr. Anont Kumthayai (Santisuk Farm), Phrao District, Chiang Mai Province	3,962.21
114	Study of Social Change in Highland Areas to Support Community Development Towards the Future	15,603.17

No.	Title of research (2025)	USD
115	Enhancing Fisheries Resilience and Managing Fisheries Resources Sustainably under Climate Change Impacts through Local Community Participation in Lao PDR	33,628.86
116	Plant Genetic Conservation for Development and Breeding at the Chaipattana Plant Development Center	38,341.97
117	Fruit Tree Breeding at the Chaipattana Plant Development Center	68,729.05
118	Vegetable Breeding and Seed Production at the Chaipattana Plant Development Center	87,251.45
119	High-Value Bio-Calcium Product from the Processing of Skipjack Tuna Waste in the Dimension of Production Scale-up and Anti-Osteoporosis Activity	66,046.94
120	Innovation to Enhance High-Quality Coffee Management to Mitigate Drought Impacts under Global Climate Change for Agricultural Communities in the Mae Kuang River Basin, Chiang Mai-Chiang Rai Provinces	39,622.07
121	Lessons Learned Analysis of Water Management by the Phrae Provincial Administrative Organization's Water Management Center to Synthesize Opportunities for Local Economic Development Based on Water Resources	30,478.51
122	Establishing a Cooperation Mechanism to Scale Up Border Town Development to Sustainably Improve Quality of Life and Economy	178,055.47
123	Capacity Building in Border Provinces by Enhancing Potential, Knowledge, and Training Courses for Transferring Innovation and Technology to Promote Economy and Improve Quality of Life	33,770.19
124	Raising Household Income and Grassroots Economy with Innovative Semi-Automatic Small-Scale Greenhouse Environment Control Equipment for Pholiotina Mushroom Cultivation	68,576.65
125	Development and Enhancement of Wolffia Production Capability with Appropriate Innovation and Technology for Commercial Competition of Alternative Protein	22,858.88
126	Promotion and Scale-up of Knowledge on Temperature Control System Technology in Cricket Ponds using Solar Power Generation and Hot Water System with a Heat Pump to Increase Yield and Income for Cricket Farmers' Groups	73,148.43
127	Appropriate Innovation and Technology Management by Transferring and Scaling Up Cost-Reducing Economic Animal Feed and Manure Composting to Elevate the Grassroots Economy	45,717.77
128	Development of Upstream Management System to Increase Export Volume of Economic Vegetables	15,239.26
129	Baseline Assessment of Carbon Dioxide Sequestration for the PTT Sustainable Forest Plantation Project	115,786.35

No.	Title of research (2025)	USD
130	Study and Baseline Assessment of Carbon Dioxide Sequestration for the PTT Sustainable Forest Plantation Project for the Year 2024, Project Group 2 in the Areas of Phu Phan Forest and Dong Mu Forest National Reserved Forest, Kalasin Province; Khok Luang Forest and Sok Tae Forest, Khon Kaen Province; Khok Phu Lek Forest, Loei Province; and Mae Ngao Right Bank Forest, Lampang Province	148,690.09
131	Enhancing the Effectiveness of Agricultural Standard Enforcement: Code of Practice for Fresh Fruit Fumigation with Sulfur Dioxide Gas (Case Study: Fresh Longan)	32,849.07
132	Synthesis of Low-Cost Alginate/Graphene Composite Adsorbent from Longan Waste Material for Application in Tetracycline Adsorption	9,143.55
133	Development of Composite Material from Modified Biochar and Hydrogel for Agricultural Applications	13,441.02
134	Social Return on Investment (SROI) Assessment Service for the Community Forest Conservation, Restoration, and Management Project, Ban Mae Pan, Chang Khoeng Sub-district, Mae Chaem District, Chiang Mai Province	1,219.14
135	Design of a Management System for the Action Plan to Drive Research and Innovation for the Development of Social Enterprise (SE)	12,800.98
TOTAL		4,234,277.11

No.	Title of research (2024)	USD
1	Development of Lion's mane (<i>Hericium erinaceus</i>) propagation and value-added Lion's mane production at Huai Hong Khrai Royal Development Study Center	22,173
2	Extraction of phytochemicals from indigo plants and study on the optimum conditions to powdering for commercial utilization.	12,019
3	Bamboo Value Added by Extracting Nanocellulose Crystals to reinforce the tire	11,427
4	IoT Application for the prediction of soil water by Pedotransfunction concept for irrigation planning in agriculture	11,427
5	Utilization of biofloc sludge waste products from the salinity tolerant tilapia (<i>Oreochromis</i> sp.) culture for cockle (<i>Anadara nodifera</i>) culture in controlled temperature greenhouse	11,160
6	Premium grade Milkfish (<i>Chanos chanos</i> , Forskal) culture with biofloc system and sea grapes seaweed (<i>Caulerpa lentillifera</i> J. Agardh) culture in controlled temperature greenhouse	11,160
7	The Development of Personal Recommendation System Application for Rice Producer using Microsoft Power Platform	11,427
8	Development for Green Agricultural City Case Study Mae Faek Sub district Municipality, San Sai District, Chiang Mai Province.	7,075

No.	Title of research (2024)	USD
9	Production of protein hydrolysate from Tilapia head by enzymatic hydrolysis	11,160
10	An Intelligent Hybrid Drying System for Agricultural Produce Herbs and Functional Food Processing (Semi-Industrial Scale)	34,310
11	Development of seed coating substance formulations with plant growth promoting bacteria to increase the efficiency of vegetable soybean	11,960
12	Design and develop the transformation of biomass materials into biodegradable mulch products	12,137
13	Bioretention Development for domestic wastewater for Sustainable Environmental Community Quality A case study of Ban Huay Nam Rin Maerim District Chiang Mai	8,141
14	Application of mesoporous natural rubber/silica nanocomposites with organosulfonic acid groups and high acidity as catalysts for commercial biodiesel production	11,308
15	Innovation of modified biochar for agriculture residues management for agro-circular economy community development	26,021
16	Using the black soldier fly as fish feed in the smart recirculating aquaculture system to reduce production costs	11,160
17	Development of carboxymethyl cellulose (CMC) from lignocellulosic materials agricultural waste for edible packaging film and edible fruit coating applications	8,615
18	Efficacy of natural astaxanthin from Haematococcus algae on the immunity, bacterial and viral infection resistance to freshwater prawn within smart biofloc technology	10,036
19	Household organic waste management by compost bin, Super green: case studies of the municipality in Chiang Mai Province	10,095
20	Energy management of cannabis farming using smart measurements system combined with energy economic assessment	11,427
21	The enhancement of hydrogen and methane production from food waste by using chelation technique	12,137
22	Utilization of black soldier fly larvae combined with chaya leaves in diet of Pradu Huangdum chicken and broiler chicken	9,888
23	Innovation development of up-scale integrated aquaculture - vegetable cultivation coupling with nutrients supplement technique for food security	11,160
24	The improvement of mesoporous natural rubber/silica nanocomposites modified with organic amine and copper applied as adsorbent for healthy drinks production	12,137
25	Non-Thermal Processing Technology for Local Dishes Prepared from Raw Meat to Reduce Pathogenic Microorganisms	5,654
26	Nutrient management for improving yield and grain quality of high nutritional rice grown under climate change (Year 2)	6,868

No.	Title of research (2024)	USD
27	Development of Smart Sensor System for Monitoring Ammonia Volatilization in Agriculture to Enhance the Quality of Produce and Safety	11,456
28	The Development of Agrotourism Management Model Based on Creative Economy Concept for the Karen Community, Omkoi District, Chiang Mai Province	26,406
29	Creating local food identity for enhancing the tourism potential of the community Nong Muang Khai Subdistrict, Phrae Province..	5,092
30	Waste to Energy (Power Cooling and Heating) and Construction Material	10,332
31	Development of Smart Crickets house according to GAP standard with controls climate and temperature system using solar hot water production system	10,776
32	The Decision Making to Produce in Large Agricultural Land Plot Systems in Combination with the Use of Modern Agricultural Technology to Achieve Food Security and Sustainable Returns in Mae Hong Son Province	6,365
33	Developing high yield F1 hybrid maize variety for organic cropping system	11,397
34	Development of DNA marker for Drought tolerance from Thai Rice	12,463
35	The enhancement for dried longan production with clean technology and environmentally friendly of the quality longan large scale group in Chiang Mai and Lamphun Provinces	29,159
36	Improvement of RD79 Rice Variety to be Early Flowering, Fragrant and Resistance to Bacterial Leaf Blight Using Molecular Marker. (third-year)	12,463
37	Biogenic synthesis of metal nanoparticles from agricultural wastes for applying as antimicrobial agents and micronutrients in plant tissue cultures	8,496
38	Synthesis and development of energy harvesting material for intelligence transports system application	9,710
39	Evaluating plant growth promoting rhizobacteria (PGPR) for alleviation of drought stress in rice	11,960
40	The upgrading of creative tourism to create new experience linked with local wisdom in crafts and handicrafts to high quality tourist in Chiang Mai Province	19,301
41	Enhancing the competitive potential of Food Processing Community Enterprises by using local knowledge to move towards a creative economy for food security in Mae Hong Son Province.	7,075
42	Development of high bioproducts from bamboo processing residues using pilot pyrolysis reactor	12,108
43	Development of a technological platform to support the participatory guarantee systems (PGS) for GAP/organic produces from Chiang Mai farmers	51,806

No.	Title of research (2024)	USD
44	Organic aquaculture production for food safety production in Chiang Mai and the Upper North Region	34,784
45	Sulfur-dioxide emitters nanofiber for packaging of longan	11,427
46	Energy Management in Educational Buildings According to Energy Conservation Standards (Building Energy Code: BEC) to a policy proposal for Green – Eco University. Case study: Maejo University, Chiang Mai	36,886
47	Carbon-based composites for electric-heating applications	9,888
48	Identification of variety and environment to produce low glycemic index with high nutritional value from local rice germplasm from Northern region	11,249
49	Value addition to agricultural waste from Kluai Hom Thong banana production system for exporting to Japan with participation in Chumphon province	20,367
50	Developing Maejo Protocol: Walking Guidelines to Prevent Elderly Fall Assessing the risk of falling using the Surasole	13,588
51	Soybean production for food security and environmental friendliness in Mae Hong Son province	7,075
52	Crystallisation Technology for Glass Sealant Production for Use in Solid Oxide Fuel Cell	12,137
53	Drip Irrigation System for Increasing Potato Yield	18,657
54	Development of Green Buildings According to TREES Standards: Case Study of LannaCom Co., Ltd. Office Building in Chiang Mai Province	11,249
55	Project to Assess the Carbon Sequestration Potential of Trees and Green Areas within the Royal Park Rajapruek	75,488
56	Baseline Data Assessment of Carbon Dioxide Absorption for the Sustainable Forest Planting Project by PTT in 2023: National Reserved Forest Areas in Mae Song, Mae Yom West, Mae Kon, and Mae Sai Forests in Phrae Province, Noen Perm National Forest Reserve in Phitsanulok Province, Nam Nao National Forest Reserve in Phetchabun Province, and Phu Yok National Forest Reserve in Chaiyaphum Province	69,892
57	Baseline Data Assessment of Carbon Dioxide Absorption for the Sustainable Forest Planting Project by PTT in 2023: Areas in Mae Phrim National Park in Chiang Rai Province, San Phaya Phrai Park, Tat Kwan Waterfall Park, Huai Nam Chang Park, Wang Than Thong Waterfall Park, Doi Luang National Park, Phu Sang National Park, Don Sila Wildlife Sanctuary, Wiang Chiang Rung Wildlife Sanctuary in Chiang Rai Province, and Nam Min Waterfall Park in Phayao Province	78,307
58	Treatment of Color and Organic Substances in Wastewater by Electrocoagulation and Oxidation Technology	58,022

No.	Title of research (2024)	USD
59	Smart Solar-Powered Compressed Air System for Aeration in Giant Freshwater Prawn Ponds to Reduce Costs and Increase Safety	56,853
60	Thailand's Voluntary Carbon Reduction Project (T-VER) of the Community Forest Project in Na Haeo District, Loei Province, Covering 10,097.974 Rai	78,247
61	Project to Enhance Research Skills in Sustainable Agricultural Business: Undergraduate Scholarship for the Development of New Generation Farmers	207,223
62	Thailand's Voluntary Carbon Reduction Project (T-VER) for Teak Forest in Somdet and Namon Districts, Kalasin Province	17,762
63	Technology Transfer Through Agricultural Activities to Reduce Greenhouse Gas Emissions for Low Carbon Communities	17,762
64	Development of a Tropical Mushroom Greenhouse Controlled by Renewable Energy	14,802
65	Development of Tropical Mushroom Greenhouse Controlled by Renewable Energy	14,802
66	Upgrading the Grassroots Economy by Enhancing the Capacity and Competency of Innovative Entrepreneurs in Volvariella Mushroom in Chiang Mai Province	118,413
67	Temperature and Climate Control System to Increase Productivity in Cricket Farms Using Solar-Powered Hot Water Technology and Heat Pumps	56,952
68	Development of Phosphate-Decomposing Microorganism Products for Soil Management in Durian Production	13,321
69	Mae Chaem Safe Nature Project: Mae Pan-San Keng Model	39,787
70	Semi-Transparent Rooftop Solar Power System with Battery to Enhance Commercial Hemp and Cannabis Production	71,048
71	Development of Social Entrepreneurs Through the Coffee Value Chain and Ethical Tourism to Promote Moral Society in Nan Province	94,731
72	Project to Preserve Plant Genetics for Development and Breeding Improvement by the Royal Chitralada Projects	38,721
73	Project for Breeding Improvement and Seed Production of Vegetables by the Royal Chitralada Projects	83,799
74	Enhancing the Entire Production Chain of Black Chicken to Access Poultry Markets	3,700
75	Study and Development of Healthy Sugar Production	4,476
76	Yin-Yang: Biological Products to Promote Growth for Homegrown Vegetables	22,528
77	Scaling Up of Rotating Tray Drying System to Add Value to Agricultural Products Under the Royal Project Model: Case Study of Royal Project Development Center, Lertor	55,384

No.	Title of research (2024)	USD
78	Promotion of the Circular Economy and Low-Carbon Economy through Organic Cassava Production Using the C_STOCK Application	123,204
79	Development and Management of Fire Prevention and Control in Community Forest Areas in Phrae Province Using Geographic Information Technology	44,405
80	Maejo: A Livable City for All	28,745
81	Project to Enhance Hotel Supply Chains in Chiang Mai Municipality and Surrounding Areas Based on Green Economy	59,207
82	Development of Smart Farm Technology and Management for Aquatic Egg Cultivation	40,229
83	Prevalence of High-Priority Watchlist Contaminants in Water Resources of Developing Regions: A Focus on Environmental and Human Toxicology of Emerging and Persistent Contaminants	129,354
84	Guidelines for Carbon Sequestration Assessment of Trees for Sustainable Carbon Credit Management in Golf Courses	1,480
85	Thailand's Voluntary Carbon Reduction Project (T-VER) for Forestry in the Area of Chain Lease Company in Nam Cham, Mae Lai, and Thung Hong Subdistricts, Mueang District, Phrae Province, Covering 50 Rai	1,776
86	Development of Soil, Water, and Fertilizer Management Model for Specialty Arabica Coffee Production with Farmer Participation	67,476
87	Scaling Up the Use of Rubber-Tired Rice Harvesters Suitable for Small Paddy Fields in Northern Thailand	97,691
TOTAL		2,651,344

No.	Title of research (2023)	Budget (USD)
1	Food Security of Gated Communities, Case Study of Maejo Municipality, Chiang mai province.	6456.04
2	Incense innovation from fragrant native flowers	8241.76
3	Development of Fruit Skin Color Quality for Longan by Using of Paclobutrazol and Fungicides	10989.01
4	Fire retardant of Particleboard from Teak Residue by Coated Boron Compounds in Phrae Province	10989.01
5	Using of fermented feed by Bacillus fermented soybean (Thua-nao) to improve the growth performance and immunity in free-range chickens	8241.76
6	The Development of Analysis and Forecasting System among Production, Domestic Consumption and Export of Longan Fruit using Business Intelligence System Concept	8241.76
7	Extraction Process Development of Active Substances from Hemp leaf Hemp Seed and its By-Products for Utilization as Health Food Products and Process Prototypes for Commercialization	13736.26

No.	Title of research (2023)	Budget (USD)
8	Product Development of Herbal Tea Prototype from Local Winter Fruits	6868.13
9	Competitiveness enhancement of Nameko mushrooms by developing as extract for skin care products	9615.38
10	Development of Litsea cubeba Pers. tea for reduce blood sugar levels	6868.13
11	Antiviral, immunostimulatory, and growth promoting potentials of myricetin in pigs	10989.01
12	Geographic Information Development Conducting for Water Resource Management under the Climate Change Consequences in The Thung Luang Royal Project, Chiang Mai Province	13736.26
13	Applications of Y-aminobutyric acid and 5-aminolevulinic acid producing bacteria for value adding of black garlic products	5494.51
14	Synthesis and characterizations of biochar-carbon nanotube hybrid materials for energy storage applications	9615.38
15	Seed priming technology for enhance vigor seed of marigold seeds	4120.88
16	Efficacy of plasma technology against honeybee pathogens for reducing synthetic chemical use in beekeeping industry	13736.26
17	Innovation of modified biochar for agriculture residues management for agro-circular economy community development	24725.27
18	Biochemical analysis of neonicotinoid pesticides and the other derivatives on neurotoxicity of Danio rerio	9615.38
19	Effects of cold plasma in controlling adult of rice weevil (Sitophilus oryzae L.)	6868.13
20	Production of compost from mushroom spawns mixed with coffee grounds and corn dust by using endophytic bacteria (Pseudoxanthomonas spadix MJUP08) as a starter	9615.38
21	The study of Estrus synchronization and fixed time artificial insemination to improve productive efficiency of swamp buffalo in Maesai subdistrict	9615.38
22	Prototype Smart Greenhouse by Reduce the Temperature and Create the Water drop with Peltier to Increase Medicinal Herbs due to Climate change	8241.76
23	Improvement of rice variety for blast resistance by genome editing technology	9615.38
24	Social innovation promoting products and service to reduce inequity and enhance community economy	13736.26
25	Comparison of Basic Extender(Egg -Yolk Tris) and New Extender(MJ-EX2TM Extender) on insemination rate and conception rate in goats.	10989.01
26	White Sweet Corn Breeding For Fresh Eating	9615.38
27	The formulation development of skin products from Curcuma longa L., Clinacanthus nutans (Burm.f.) Lindau. ,and Artocarpus	8241.76

No.	Title of research (2023)	Budget (USD)
	lakoocha Roxb. with anti-inflammatory, antioxidation and anti-skin pathogenic bacterial effects for elderly person with xerosis cutis	
28	Innovation of Organic Hemp and Extract for Feed Supplements to Increase Productivity and Quality in Economic Animals as Safe Food and Organic Products	13736.26
29	Upgrading pasteurized instant curry paste to food security through the community innovation of San Sai District, Chiang Mai Province.	6868.13
30	Extractable substances EGCG in Miang tea inhibit COVID-19	8241.76
31	Development the process culture of algae Nannochloropsis sp. with high cell density and chemical composition with closed culture system for nursery of blue swimming crab (Portunus pelagicus) larvae with bioencapsulation technique under climate change conditions	10989.01
32	Synthesis and properties of low-cost graphene from longan waste for medical applications	9615.38
33	Processing and development of date palm products with participation for economic value added and connecting to sustainable community economy promotion	24725.27
34	Development in Thai Orchids cultivation system for Aromatherapy products, Cosmetic Prototype and conservation.	10494.51
35	Development of DNA marker for Drought tolerance from Thai Rice	9615.38
36	Fabrication of favipiravir sensor for anti-covid-19 virus	9615.38
37	Development of molecular marker linked to folate content in rice	9615.38
38	Development of an Intelligent Electric Vehicle for Agriculture	20604.40
39	Design of an interface circuit for capacitance measurement in precision agriculture	6043.96
40	Breeding day- length insensitivity chrysanthemum for year round production	10989.01
41	Application of Firmicutes and Proteobacteria in biofertilizer formulation for controlling rice diseases and rice growth promotion in drought stress	7280.22
42	Development of Sulfur Dioxide Smart Sensor for Longan Industry to Enhance the Value of Agricultural Products and Operational Safety	9615.38
43	Evaluating plant growth promoting rhizobacteria (PGPR) for alleviation of drought stress in rice	12362.64
44	Fabrication of wavelength selective and energy harvesting hybrid materials for greenhouse horticulture application	9615.38
45	Application of Speed Breeding Technology for Cannabis Breeding Program	20604.40

No.	Title of research (2023)	Budget (USD)
46	Improvement of RD79 Rice Variety to be Early Flowering, Fragrant and Resistance to Bacterial Leaf Blight, Blast Diseases and Brown Plant Hopper Using Molecular Marker. (second-year)	24725.27
47	Development of spatial biomass management system and promoting the use of suitable renewable energy innovation to supporting smog reduction	24725.27
48	Biomaterial-graphene composites film for energy storage for smart farm	9615.38
49	The improvement of mesoporous natural rubber/silica nanocomposites with organosulfonic acid groups for catalytic esterification of free fatty acid in biodiesel production	10989.01
50	Improvement of Non-photoperiod Sensitive, Semi-dwarf, Glutinous Aromatic RD-MAEJO 2 Rice Variety for Early Maturity, Resistance to Brown Plant Hopper, Bacterial Leaf Blight and Blast Diseases Using Molecular Marker Assisted Selection.	24725.27
51	Reducing agricultural greenhouse gas emissions through site-specific nutrient management through the C_STOCK application and portable soil analysis kit	8241.76
52	Effect of MJU Health Application on Health Literacy Among Elders with Hypertension	6181.32
53	Improvement of raw soybean by non-thermal plasma for producing organic feed ingredient	10989.01
54	Data Visualization Techniques to Showcase Research Synthesizing in Phrae Province	2747.25
55	Development of Galactagogue herb Products for Postpartum	3791.21
56	Nutrient management for improving yield and grain quality of high nutritional rice grown under climate change	8241.76
57	Organic aquaculture production for food safety production in Chiang Mai and the Upper North Region	24725.27
58	Breeding Curcuma for resistance to algal disease by DNA markers	24725.27
59	Development of Extender freezing Thai buffalo semen for genetic preservation	9615.38
60	The use of microencapsulated extract of Lingzhi (Ganoderma lucidum) waste as a functional feed additive in poultry production	8241.76
61	The Synergy of Development between Local Administrative Organizations and Community to Restore Tourism Resources and Enhance Community Health Related Management in Preventing and Solving the Pandemic of Coronavirus Disease 2019 to Support the New Normal of Tourism Community	13736.26
62	Reducing production costs and increasing income for fish farmers by combining black soldier fly with fish culture using smart systems	10989.01

No.	Title of research (2023)	Budget (USD)
63	STUDY THE EFFECTIVE OF GAMMA RADIATION PLASMA AND ION BEAM FOR MUTATION OF CANNABIS	9615.38
64	The Efficiency of Atmospheric Pressure Plasma Technology Innovation for Controlling an Anthracnose Disease and Increasing the Potential Chili Safe Production	10989.01
65	Functional food product development of colored rice extract and probiotic drink powder	10989.01
66	Creating a database of animal feed ingredients in the Thai Northern and development of MJU Feed Formulator Program	12362.64
67	Increasing freshwater prawn production with natural astaxanthin supplementation innovation from Haematococcus algae within smart biofloc technology	10989.01
68	Development a prototype of a biomass packaging extrusion machine using solar energy	9615.38
69	Creation a prototype of community enterprise group of biomass packaging production with marketing innovations	6538.46
70	Study the potential of using distiller's soluble from rice wine as swine feed and developing the black pig (Department of Livestock Development 1) production system for smallholders pig producers.	9615.38
71	A study of the effects of Lumpy skin disease on reproductive performance in cattle.	10714.29
72	Effects of non-thermal atmospheric pressure plasma on nanomaterials attachment to natural dye powder from Teak leaves	5494.51
73	Development of finished product from Ginger and Citronella essential oil to protect and eliminate mite in chicken for animal production in organic farm	10989.01
74	Enhancement of pest management effectiveness for food safety production of longan farmers in upper-northern part of Thailand	26098.90
75	Development of premium grade channel catfish cultured in recirculating water systems together with aquaponic under low water exchange and using suitable bacteria for water treatment	10989.01
76	Effects of Lawsonia inermis extract on growth performance and microbiome variation in the gastrointestinal tract of industrial weaned pigs	10989.01
77	The Effect of Low Temperature Conditions in Experimental Room Control on Crickets (Gryllus bimaculatus De Geer) Rearing When Using Incubator Controller to Adjust Temperature for Increase Productivity.	4120.88
78	Research for Development of Southern Thai Kluai Hom Thong [Musa (AAA Group) Kluai Hom Thong] Production System by Participatory Method to Reduce the Waste of Produce from a Sustainably Plantation System Year 2	5494.51

No.	Title of research (2023)	Budget (USD)
79	Innovation of giant freshwater prawn (<i>Macrobrachium rosenbergii</i>) raising and feeding by using low-cost food from insects and extracts from local plants to accelerate growth under a complete Recirculating Aquaculture System (RAS) water system	10989.01
80	Enhancing of Organic Rice Farming's Competitive Capabilities in Phrae Province under the Concepts of Green Supply Chain	9615.38
81	A Cultural Tourism Model for Community Grass Roots Economic Promoting in the Phrae's Urban Area	10989.01
82	Assessment of carbon dioxide emissions on the development of innovated sweet corn germ vinegar product from sweet corn germ waste in canned sweet corn industry	9615.38
83	The decision to select organic longan species from blind testing and demographic factors affecting the selection	2692.31
84	Model development of a participatory management that affects the management efficiency according to the principles of good governance of local government organization in Phrae pprovinces	4203.30
TOTAL		920,164.84

———— Total Research Funds (in US Dollars) ————

Research fund	Total research fund (USD)	Total research fund dedicated to sustainability research (USD)
2023	5,197,901	920,164.84
2024	3,876,774	2,651,344
2025	7,214,181.35	4,234,277.11
Averaged last 3 years of research fund	5,429,618.78	2,601,928.65

*1 USD = 36.40 bath, (19 October 2023) for 2023

*1 USD = 33.78 baht (26 October 2024)

***1 USD = 32.81 Bath (18 October 2025)**





Additional evidence link :

- The Office of Agricultural Research and Extension Maejo University on https://rae.mju.ac.th/wtms_index.aspx?&lang=th-TH
- Lists of all research and the budget are available on <https://erp.mju.ac.th/researchIndex.aspx>

Total research funding from 2023 to 2025, averaged over the last 3 years, is **5,429,618.78 USD**. The research initiatives encompass both green and SDG-related areas; in 2025, the funded research amounts to 7,214,181.35 USD—nearly double the 2024 figure.

Number of lecturers and researchers on campus in one year period

Group	Academic position	Ph.D	Master degree	Total
1. Lecturers	Lectures	174	124	298
	Assistant Professor	237	40	277
	Associate Professor	71	8	79
	Professor	1	0	1
2. Researchers	Researchers	2	5	7
Total		485	177	662

number lecturers and researchers

The total number of lecturers and researchers over the past year was 662, comprising 655 academic staffs and 7 researchers.

Additional evidence link : https://personnel.mju.ac.th/structure/mjustat_a.php?show=1

MJU Academic staff

ชื่อบุคลากร : ค้นหา

จำนวนบุคลากรสายวิชาการ สังกัดมหาวิทยาลัยแม่โจ้

หน่วยงาน	ข้าราชการ			พนักงานมหาวิทยาลัย			พนักงานมหาวิทยาลัยเงินรายได้			พนักงานส่วนงาน			รวม
	เอก	โท	ตรี	เอก	โท	ตรี	เอก	โท	ตรี	เอก	โท	ตรี	
คณะเทคโนโลยีการประมงและทรัพยากรทางน้ำ	1	0	0	1	15	0	15	0	0	0	0	0	16
คณะบริหารธุรกิจ	1	0	0	1	32	11	43	0	0	0	0	0	44
คณะผลิตกรรมการเกษตร	4	0	0	4	51	3	54	0	0	0	0	0	58
คณะพยาบาลศาสตร์	0	0	0	2	13	0	15	0	5	0	0	0	20
คณะพัฒนาการท่องเที่ยว	0	0	0	0	14	4	18	0	0	0	0	0	18
คณะวิทยาศาสตร์	9	2	0	11	93	9	102	0	0	0	0	0	113
คณะวิศวกรรมและอุตสาหกรรมเกษตร	1	0	0	1	30	3	33	0	0	0	0	0	34
คณะศิลปศาสตร์	3	6	0	9	23	41	64	0	0	0	1	3	77
คณะเศรษฐศาสตร์	0	0	0	0	23	1	24	0	0	0	0	0	24
คณะสถาปัตยกรรมศาสตร์และการออกแบบสิ่งแวดล้อม	0	0	0	0	13	18	31	0	0	0	0	0	31
คณะสัตวแพทยศาสตร์	0	0	0	0	2	3	5	0	0	0	0	0	5
คณะสัตวศาสตร์และเทคโนโลยี	1	1	0	2	15	3	18	0	0	0	0	0	20
คณะสารสนเทศและการสื่อสาร	0	0	0	0	6	5	11	0	0	0	0	1	12
มหาวิทยาลัยแม่โจ้ - ชุมพร	0	0	0	0	19	13	32	0	0	0	0	0	32
มหาวิทยาลัยแม่โจ้ - แพร่ เฉลิมพระเกียรติ	0	0	0	0	73	20	93	0	0	0	1	0	94
วิทยาลัยนานาชาติ	0	0	0	0	9	0	9	1	0	0	1	0	10
วิทยาลัยบริหารศาสตร์	1	0	0	1	17	3	20	1	0	0	1	2	24
วิทยาลัยพลังงานทดแทน	0	0	0	0	19	4	23	0	0	0	0	0	23
รวมจำนวนบุคลากรสายวิชาการ	21	9	0	30	456	154	610	2	5	0	7	4	655

Number of scholarly publications on sustainability in one year period

No.	Authors	thor full name/Author(s) ID	Title	Year	Source title	Volume	Issue	Art. No.	Page start	Page end	Page count	Original language
2	Aning Fan, Yibo Huang, N. Corneille-B...		2025	Frontiers in	5						12	English
3	Apisada Rucangkhet, Supak Relationship...		2025	Thai Forest	9	2		157	172			Thai
4	Aroonsri Aiemum, Dairin Influence of		2025	Journal of A	62	2		175	185			English
5	Asst. Prof. Dr. Pust Pook Calculation		2025	ChemistrySelect			35					English
6	Bin Wang, Ke Nuthasen Enhancing C		2025	International	5	5						10
7	Champa Lattanasawaph The manage		2025	International	6	1						8
8	Sonthongda Chutikan Sonthongdaeng Effect of m...		2025	Frontiers in Animal Sc		6						English
9	Daranee Choomthong an Stakeholder		2025	Sustainable	19	3						English
10	Dokrak Marot, Sutthid The Relationship		2025	Forests	16	1		114				English
11	Dudda Khomyung, Mor Fermented		2025	International	14	2		380	385			English
12	Grinengrai Rajchakit, K. A/ Fault-toler		2025	Asian Journal of Control			1	13				English
13	Hao Dong, Ke Nuthasen The Impact		2025	International	5	5						10
14	Kamonpon Panangom, P/ Improving th		2025	Journal of F	62			706	715			English
15	Hiamprakon Kamikar Hampakorn, Bu Effect of ex		2025	VETERINARY	18	1		52	59			English
16	Kanpasawee Kionthong Formatively		2025	วิชาการ	11	2		242	259			Thai
17	Kansinee Gunlawongwong Patterns and		2025	Mekong-Sala	16	1						Thai
18	Karnya Petsong, Sutthasri Impact of Bi		2025	Food and Bi				6442	6453			English
19	Sithouontou Katsuda Sithouontou, Action Rese		2025	Thammasat	44	1		1	15			Thai
20	Khueafu Uthairatthong, Assessment		2025	Thai Forest	9	1		55	72			Thai
21	Kompaka Ariant, Theora Physicochem		2025	Journal of A	19							8
22	Lamthal Asom, Pempil Vegetation C		2025	Thai Forest	10	1		115	136			English
23	Lerdwuanant, Rattana, P/ Identifying c		2025	Journal of S	95	15		3279	3299			English
24	May-Lin Liu, Pang-Yen I/ Anti-Inflam		2025	International	26	11		5419				English
25	Mek-Chi Chou, Chin-Fa T/ Exploring th		2025	International	5	5						16
26	Ming-Tan Chiang, Chin-Fa Marketing S		2025	International	5	4						28
27	Mingyuan Lei, Danakrit J/ Marketing S		2025	International	6	5						14
28	Montawat Wiboon, Pimp Ultraefficien		2025	Physica stati	222	12						English
29	Nakin Wongkattaya, Phani Oynrevarat		2025	Journal of A	15	11				50	57	English
30	Nattapong Mungmuang A Comparat		2025	Food Biophysics		20				54		English
31	Nittaya Thongpiti, Wwut Effects of F		2025	Indian Jour	59	11				1834	1840	English
32	Bhat, O., Um, Obaid Bhat, Yuwallee Uny Effect of Ph		2025	Spirulina. Mol Biotech		67				3552	3560	English
33	Pennapa Takam, Saengto Developme		2025	Veterinary Ir	23	1						11
34	Phacharaporn Tadee, Wiv Spontaneou		2025	Biology		14				350		English
35	Tadee, P., P. Phacharaporn Tadee) Wiv Bacterial. Pat		2025	Biology		14				350		English
36	Phitakphong Baengthong, Readiness o		2025	Journal of A	42	2				222	236	English
37	Pornsawan Sombatnan, Y Ultrasonic-A		2025	ASEAN Joun	28	1						11
38	Pusit Pookmanee, Wann Green Hydr		2025	ChemistrySelect		20						English
39	Assawarache Rittichai Assawarache, ar Modeling th		2025	Processes	13	5				1324		English
40	Rungkiat Kawpet, Ravee Developme		2025	Future of Fr	13	1				57	69	English
41	Saraloe Prommayakul, Jr Enhancing G		2025	Journal of S	10	2				41	53	English
42	Shan-Kuei Yang, Chin-Fa Short-Term		2025	International	5	4						22
43	Shi, S., Au Shuen Shi, Kittavit Autc Study on th		2025	วิชาการ	5	2				92	117	Thai
44	Sirint Phaisansuthichol, I Simultaneo		2025	Maejo Intern	19	2				122	132	English
45	Sirint Sitti, Srikul Nuntachit Attitudes to		2025	Procedia - S	103					161	164	English
46	Phaigwong Somchay Phaigwong, Si Integrating V		2025	Community	26	1						Thai
47	Suparak K. Lithanadum, A Comparat		2025	Tropical Pla	18							English

Examples of scholarly publications on sustainability

No.	Authors	thor full, nan/Author(s) ID	Title	Year	Source title	Volume	Issue	Art. No.	Page start	Page end	Page of Original	Language
48	Supatra Kamjanapratum,		Developme	2025	Food Produ	7	39					English
49	Surap onliyana, Kittikom		An Efficient	2025	ECTITransac	19	3		429	441		English
50	Sutheera Hermhuk, Mala		Factors Infl	2025	Thai Forest	9	1		19	36		English
51	Thanawan Thumsona, an		Factors Affe	2025	วิทยาศาสตร์	5	1		35	52		Thai
52	Thummanoon Boomee,		The in vitro	2025	Scientific re	15			26975			English
53	Tonglan Buwipom, Piya		Microencaps	2025	Veterinary World				3684	3697		English
54	Kamyu, T., K Torlap		KamyuPunchapo Assessing F	2025	Geographies	5	3		51			English
55	Tzu-Ying Wu, Weerapon		Impact of G	2025	International	5	4				20	English
56	Waleerut Meechai, Piya		The Impacts	2025	Thai Forest	9	1		93	110		Thai
57	Wanchai, Keerat, Ontaw		Symbiotic m	2025	Asian Pacific	15	6		229	238		English
58	WangZhe, Bongkochmas		Understand	2025	International	5	4				14	English
59	Wintra Leelapattana, Rit		Enhancing T	2025	Journal of F	2025	1				11	English
60	Xin Hao, Chayot Sumrit		Boosting Or	2025	Maajo Busin	7	2		23	55		English
61	Yuedan Hu, Chalermei		Evaluating V	2025	International	5	4					English
62	Yushan Yao, Somkid Kae		Research on	2025	International	5	6				16	English
63	Griengrai Rajchakit, K.		Asmiya Banu, T. Event-trigge	2025	International	56	2		211	226		English
64	J. Kangsopa, A. Insiopa,		N. Thawong Seed Coat	2025	Legume Res	48	7		1130	1138		English
65	M. Mubeen Tajudeen, K.		Asmiya Banu Hw Secure	2025	Circuits, Sys	44			4704	4722		English
66	Siyuan Zhang, Chayot Su		Comparative	2025	Rajapark Jou	19	65		250	266		Thai
67	Wongsatorn Phumphaun		Influence o	2025	Thai Forest	9	1					English
68	Wajeom Quancharee, J.		Characteriz	2025	Current Micr	82			464			English
69	Irin Wanthon, Theerapha		A Computer	2025	AgriEnginee	7	11		377			English
70	Thippaporn Euppayo, Pui		In vitro moc	2025	In Vitro Cell	61			694	702		English
71	S. Bala Sundar, R. Jevabalan,		R. Nishar Innovative P	2025	International	20	2		591	602		English
72	Chiranan Senanan, Suree		Using pyrac	2025	Journal of A	42	1		49	57		English
73	Sukanya Baomeesri, Jirap		IAA-product	2025	Songklanaka	47	2		79	86		English
74	Endang Warsiki, Chairun		Assessing pr	2025	BIO Web of	159						English
75	Nirmala Bhuvana Chandr		Comparative	2025	Maajo Intern	7	2		42	50		English
76	Nurpon Panyoyai, Than		Simulation	2025	RecentScien	7	2					English
77	Yuwalree Unaprom, Ran		Artificial inte	2025	Maajo Intern	7	2		75	83		English
78	Nattaporn Chaiyot, Advanced		Geography, E	2025	Geography, E	7						English
79	Piyapong Nachai, Suthira		The Identity	2025	Journal of ti	4	3		65	80		English
80	Thitiphan Chimsook		Beta-Cyclod	2025	Materials Sc	1154			65	72		English
81	Chonlada Pathamma, Pal		Selection of	2025	Burapha Sci	30	1		351	375		Thai
82	Kongtanjanun, Raghassorn		and Ta	2025	Journal of A	42	1		197	207		English
83	Tatsanee Chaiya, Payung		A Mathemat	2025	2025 29th International Computer Scien	521			530			English
84	Weifang Xu, Danakrit Int		The Impact	2025	Rajapark Jou	19	64		98	120		Thai
85	Suphathida Aumtong, Ch		Relationship	2025	Agronomy	15	5		1069			English
86	Surapon Riyana, Kittikom		A Privacy Pri	2025	ECTITransac	19	1		88	96		English
87	Thammasit, Chanyanut		Thammasit, N Adsorption	2025	Veredas do	22					18	English
88	Intagun, Weeranut, Kh		Enhanceme	2025	International	25			529			English
89	Zhang, Siyuan, Sumritsak		The Impact	2025	Advances in	2	4		3293			English
90	Teadkat Kaewpuang, Yu		High-rate bi	2025	Maajo Intern	7	2		64	74		English
91	Yu-Ching Chiao, Keng-Hsi		Safeguarding	2025	International	52	3		287	307		English
92	Ahmed Namisy, Shu-Yun		Evaluation c	2025	Plants	14	8		1168			English
93	Chen Li, Suwaree Yord		A Study of T	2025	18th Nation	18	1		568	574		English
94	Dong Gao, Napawan Net		Factors Infl	2025	Journal of C	10	3		2380	2390		English
95	Endang Warsiki, Aulia Ma		The Develop	2025	Endang War	189						English

Examples of scholarly publications on sustainability

Example of events, **scholarly publications on sustainability** in the academic year 2025.

The number of scholarly publications in 2025 is 391, and the number of others is 95, **for a total of 486**.

Ratio of scholarly publications on sustainability to lecturers and researchers on campus in one year period (ED3)

Total lecturers and researchers in one year period	662
Total scholarly publication in one year period	486 publications

Publications related to sustainability in 2025 were searched using the following keywords: Green, sustainability, waste, and energy. The total publications is 486, and the total academic staff is 662.

Ratio of scholarly publications on sustainability to lecturers and researchers on campus in one year period: Total scholarly publication in one year period/ Total lecturers and researchers in one year period

$$= 486/662$$

$$= 0.73$$

Formula : 6.9 / 6.8

Please select one option:

[1] < 0.5

[2] 0.5–1

[3] > 1–2

[4] > 2–3

[5] > 3

Number of Events Related to Sustainability (ED4)

The number of events and projects related to sustainability is **233 projects** (in 2023) events from the government budget and others. Those activities showed in our website; website www.mju.ac.th, https://green.mju.ac.th/?page_id=3289&lang=en and <https://sdg.mju.ac.th>

The number of events and projects related to sustainability is **59 projects in 2024** and **151 projects in 2025**.

Year	Number of projects
2023	233
2024	59
2025	151
Average	147.67

Event from the government budget and others. In 2025, Those activities showed in our website; website www.mju.ac.th, https://green.mju.ac.th/?page_id=3289&lang=en, <https://sdg.mju.ac.th> and <https://erp.mju.ac.th/projectPlanLst2.aspx?sys=26&group=1-2-3>

[1] 0

[2] 1 - 5

[3] 6 - 20

[4] 20 - 50

[5] > 50



Examples of Events Related to Sustainability

Additional evidence link :

- www.mju.ac.th
- https://green.mju.ac.th/?page_id=3289&lang=en and <https://sdg.mju.ac.th>
- https://green.mju.ac.th/?page_id=3289&lang=en
- <https://sdg.mju.ac.th>
- <https://erp.mju.ac.th/projectPlanLst2.aspx?sys=26&group=1-2-3>

Project Summary for The Operation of Green University Year 2024

No.	Sustainability Projects
1	Development of a Model Safe Durian Farm: Maejo University–Chumphon
2	Promoting Sustainable Moonfish Farming Using the Biofloc System
3	Capacity-Building Project on Low-Cost Organic and Safe Crop Production for Commercial Use
4	Capacity-Building Project on Low-Cost Organic and Safe Crop Production for Market Use
5	Development of Trichoderma Inoculum for Application in Organic Farming
6	Insect Museum Learning Center
7	Maejo-Chumphon Herbal Learning Base for Academic Service and Product Development
8	Capacity Building of Community Members in Communication and Technology for Local Tour Guiding
9	Improving Quality Standards of Processed Seafood to Support Sustainable Community Livelihoods
10	Value-Added Agricultural Product Processing through Innovation for Environmental Sustainability
11	IoT Based Smart Farming: Knowledge Transfer and Skill Enhancement for Sustainable Agriculture aligned with SDGs
12	Leaf-Based Eco-Friendly Products with Natural Rubber Coating
13	Organic Fertilizer Production Learning Center Using Non-Turn Method
14	Sustainable Management of Agricultural Residues for Biodiversity Enhancement and Environmental Conservation
15	Value-Added Processing of Mushroom Products
16	Enhancing Farmer Livelihoods through Post-Harvest Minimal Processing of Vegetables and Fruits
17	Capacity Building and Innovation in Integrated Aquaculture for Strengthening Sustainable Livelihoods and Comprehensive Aquaculture Entrepreneurship (BCG Model)
18	Aquatic Health Management and Farm Business Survey for Cost Reduction and Economic Risk Mitigation in Freshwater Aquaculture
19	Aquaponics: A Sustainable Technology for Integrated Crop and Fish Production
20	Organic Aquaculture Using Locally Produced Organic Feed
21	Strengthening Organic Aquaculture Groups in Chiang Mai under Maejo Participatory Guarantee System (PGS) for Community-Based Economic Development

No.	Sustainability Projects
22	Workshop on Black Soldier Fly (BSF) Production as an Alternative Protein Source for Aquatic and Semi-Aquatic Animal Feed
23	Model Community Development Project for Sustainable Livelihoods through Cultural and Agricultural Resources under the Sufficiency Economy Philosophy in Mae Taeng District, Chiang Mai
24	The Project on the Development of Agricultural Skills in the Urban Community of Ku Kam, Wat Ket Subdistrict, Mueang District, Chiang Mai Province.
25	The Project to Enhance the “Coffee for Forest Restoration” Enterprise Group in Ban Muser Village into a Coffee Village for Promoting Community-Based Tourism
26	Solar Drying Technology for Household and Community Enterprise Levels.
27	Capacity Building on the Application of Smart Renewable Energy Technologies for Cost Reduction in Sustainable Aquaculture Practices.
28	Learning Center for Smart Renewable Energy Technologies in Modern Aquaculture
29	Training and Dissemination on the Use of Renewable Energy Technologies and Smart Farming Systems to Enhance Capacity in Modern Agriculture
30	Collection and Propagation of Superior Plant Varieties to Provide Services for Farmers
31	Development and Promotion of the Organic Agriculture Learning Center toward a Model Agro-Tourism Destination as a “Green Community” in Ban Phae Pa Ha, Nong Chom Subdistrict, San Sai District, Chiang Mai Province.
32	Promotion of Organic Farming among Farmers and Enhancement of Market Opportunities for Organic Products.
33	Adding Value to Sawdust Waste for Agricultural Benefits
34	Rak-Farm, Small Scale Farming”: Agricultural Management on Limited Land Based on the Sufficiency Economy Philosophy by the Youth Group of Mae Jo Community, Nong Han Subdistrict, San Sai District, Chiang Mai Province
35	Age Friendly City
36	Innovative Landscape Management Project in Buildings for Environmental Sustainability
37	Knowledge Transfer on the Production of Longan Leaf Leather Products
38	Knowledge Transfer Project on Developing Value-Added Products from Plastic Waste
39	Enhancing Community Engagement in Sustainable Solid Waste Management
40	Developing Value-Added Products from Agricultural Residues to Reduce Burning under the Sufficiency Economy Approach
41	Capacity-Building Project on Sustainable Pet-Related Products from Hemp Fiber for Highland Communities
42	Learning Center for Medicinal Cannabis Cultivation and Industrial-Scale Production of Organic Fertilizers from Agricultural Residues and Community Organic Waste
43	Sustainable Forest Mushroom Garden in Economic Forest Areas
44	Learning Center on Supporting Factors for Organic Crop Production
45	Income Generation through Microgreens Cultivation
46	Technology Transfer for Safe and Organic Vegetable Cultivation

No.	Sustainability Projects
47	Knowledge Transfer on Agricultural Production Inputs in Organic Systems to Reduce Chemical Usage
48	Sustainable Community-Based Tourism Development Project: Ban Pha Mu, Rong Kwang Subdistrict, Rong Kwang District, Phrae Province
49	Development of Sang Mushroom Cultivation for Livelihood in Pao Bamboo Gardens
50	BCG Model Project for Community Forest Development under the Royal Initiative Approach
51	Maejo University Organic Demonstration and Learning Area
52	Learning Center for Conservation of Thai 'Singto' Orchid Genus
53	Training on Low-Cost Tissue Culture Production of Chrysanthemum Seedling
54	Learning Center for Economic Mushroom Production
55	Cultivation and Preservation of Organic Vegetable Seeds for Sustainable Self-Use
56	Propagation and Collection of Orchids and Carnivorous Plants for Conservation and Learning Center Development
57	Project to Upgrade Soil and Water Management Technology for Highland Coffee Farms under the Royal Initiative to Mitigate Drought Impacts from Climate Change, Year 2
58	Community-Based Technology Transfer for Organic Longan Cultivation
59	Community-Based Knowledge Transfer on Soil, Water, and Forest Conservation under the Sufficiency Economy Royal Initiative

Maejo University has implemented over 50 community and academic projects with a strong emphasis on environmental sustainability and eco-friendly practices. These initiatives adopt a comprehensive approach by integrating organic farming, natural resource conservation, waste management, renewable energy utilization, and biodiversity preservation. Collectively, they enhance ecosystem resilience and support sustainable livelihoods within local communities. Moreover, these projects are closely aligned with international sustainability frameworks, including the United Nations Sustainable Development Goals (SDGs) such as SDG 2 (Zero Hunger), SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), and SDG 15 (Life on Land).

Key Environmental Sustainability Highlights:

1. Organic Agriculture & Reduced Chemical Use: Promotes chemical-free farming, improves soil fertility, protects water resources, and supports biodiversity.
2. Natural Resource Management: Soil, water, and forest conservation initiatives mitigate erosion, restore ecosystems, and enhance resilience to climate change.
3. Circular Economy & Waste Management: Agricultural residues and plastic waste are converted into value-added products, reducing pollution and promoting resource recycling.
4. Sustainable Aquaculture & Integrated Farming: Integrated fish and crop systems optimize water and nutrient use, minimize chemical inputs, and support environmentally responsible production.

5. Renewable Energy & Smart Agriculture: Adoption of solar, IoT, and smart farming technologies reduces greenhouse gas emissions, lowers energy consumption, and increases production efficiency.
6. Biodiversity Conservation: Conservation of orchids, carnivorous plants, forest mushrooms, and seed preservation protects species diversity and local ecosystems.
7. Community-Based Sustainable Tourism: Eco- and agro-tourism initiatives conserve natural and cultural resources, encourage responsible travel, and support sustainable livelihoods.

Project Summary for The Operation of Green University Year 2023

NO	Sustainability Projects
1	Industrial Production of Organic Medical Cannabis Project
2	“Fathers Grow and Children Build at Our Nong Han” to Drive the Organic Farming Community towards Becoming a Model Community for Sustainable Development Project
3	“Keep Healthy with Maejo Nurses: Safe Food MJU GREEN FOOD” Project
4	“Raising Young Innovators” for the Development of Agricultural Products and Online Marketing in the Pa Phai Subdistrict Community towards a Creative Economy (Youth Volunteers, Fiscal Year 2023) Project
5	100 “Fathers Plant, Children Build, Our Nong Han” to Drive the Organic Farming Community towards a Model Community for Sustainable Development Project
6	A Comparative Study of Tannins Found in the Stems, Leaves, and Peels of Golden Bananas for Use in Treating Wastewater from Aquaculture Project
7	A Field Trip Study for Students in the Agricultural and Environmental Economics in the Academic Year 2022 Project
8	A Learning Base for Producing Organic Fertilizer without Turning the Pile Project
9	A Learning Base for Training in Raising Organic Laying Hens and Demonstrating the Production of Organic Laying Hens Feeds Project
10	A Plant Production Learning Base in the Form of Organic Agriculture at University Farm Project
11	A Study Tour for Sustainable Tourism Management: A Study of Role Models Who Develop Tourism Destinations for Learning Project
12	A Study Tour on Green Office Management in Response to the University's Strategy to Be a Leading Green University in the Country Project
13	A Training Project to Develop Agricultural Skills in Organic Vegetable Production and Sustainable Environmental Development under the Natural Agricultural System Learning Center of the Faculty of Economics, in the Year 2023

NO	Sustainability Projects
14	A Training Project to Prepare for Fire Prevention and Suppression and Earthquake Faculty of Economics for the Fiscal Year 2023
15	Academic Services for Creative Work and Professional Development; Information - Mae Chaem Sustainable Career Development for the Year 2023 Project
16	Activities to Create Knowledge and Understanding in Upgrading OTOP with Science, Technology, and Innovation under the Community Product Development Project in the Fiscal Year 2023 in Phrae Province
17	Agricultural Entrepreneurship Development with Innovative Technology for Production of Mycorrhizal Forest Mushroom Inoculum Project
18	Agriculture and Forestry Interpretation in English Project
19	Aquaponics Project: Growing Vegetables and Raising Fish Environmentally Friendly System
20	Auspicious Tree Cloth Projects for Charity and Forest Gardening Project
21	Basic Adjustment for Renewable Energy College Students Project
22	Bee Bank for Plant Genetic Conservation Project
23	Big Cleaning Day and Green Office in 2023 Project
24	Build Strength to Raise Quality of Life Sustainably with Social Returns according to the Sufficiency Economy Philosophy Project
25	Building a Dam to Slow Down Moisture at the Ban Mae Sai Community Forest Project
26	Campaign Project to Promote Waste Reduction in Maejo University-Phrae Chalernprakiet
27	Center of Excellence for Research and Academic Services Project: Cultivation of Seaweed, Phytoplankton, and Economic Aquatic Animals to Produce Safe Food according to the Well- Being @Chumphon (Fisheries and Marine Resources Group) Guidelines for the Year 2023 Project
28	Chumphon MJU Green Youth Project
29	Commercial Safe Vegetable Production Project
30	Community Enterprise Management Development Project Based on the Concept of Social Business
31	Conserving and Restoring Watershed Forests to Maintain Their Abundance, Organize Appropriate Water Management Systems, and Thoroughly Connect Agricultural Areas, Prevent and Solve the Problem of Smog Pollution Sustainably in the Northern Region (Natural Resources and Environmental Management) Project

NO	Sustainability Projects
32	Conserving and Restoring Watershed Forests to Maintain Their Abundance, Organize Appropriate Water Management Systems, and Thoroughly Connect Agricultural Areas. Prevent and Solve the Problem of Smog Pollution Sustainably in the Northern Region (Natural Resources and Environmental Management Project) Project
33	Continuously Develop Tourism and Service Businesses to Have Quality and Create Sustainable Value-Added and Distribute the Benefits Thoroughly Including Expanding the Production of High Potential Products and Services with Wisdom and Innovation. (Commercial Production of High-Quality Strawberries) Project
34	Cooperative Education for Course 497: Agricultural and Environmental Economics for the Academic Year 2022 Project
35	Cooperative Education Preparation Training Project in Agricultural and Environmental Economics in the Academic Year 2023
36	Creating Academic Cooperation and Exchange Knowledge on Management of Educational Institutions Knowledge on Carbon Credit Assessment in Agriculture, Environment and Forestry Project
37	Creating Awareness of Laws Regarding Community Product Standards to Enhance Product Quality and Sustainable Development Project
38	Creating Electrical Lighting Systems, and the Water System Around the Maejo Shrine, "Decorating the Garden for the Mother" Project
39	Creating Food Recipes from Seasonal Organic Ingredients to Add Value to Tourism Products and Services, "Creative Food Design for Tourism: Eat Well & Drink Well" Project
40	Creating Sets to Create Excellence in Organic Livestock and Develop Animal Products to Produce Safe Food Project
41	Creating Value-Added from Processing and Developing Organic Agricultural Products Project
42	Creative Contest Activities: Tollway Contest Project under the Concept of "Cycling, Planting & Thinking"
43	Developing a Prototype Local Plant Food Experiential Tourism Service Process to Promote a Career Development Model for the Elderly at San Pa Pao Subdistrict, San Sai District, Chiang Mai Province Project
44	Developing Amnuay Yotsuk Building to be a Green Office Project
45	Developing Community Tourism Activities as Creative Economy Concept for Sustainability Program
46	Developing Conservation Farming and Sustainable Trade Leading to Being a Source of Learning for Youth and the Public Project
47	Developing Leadership Potential of Students at the College of Renewable Energy Project
48	Developing the Potential of Community Business Entrepreneurs in the Next Normal Era Project

NO	Sustainability Projects
49	Development of a Prototype Demonstration Plot for the Production of Nam Dok Mai Thong Thong Mangoes for Commercial Use in Phrao District, Chiang Mai Province Project
50	Doctor of Philosophy Curriculum Development in: Innovative Design for Sustainability Project (66-2.1.8)
51	Dream Weaving and Sharing Project for the Academic Year 2023
52	Driving and Promoting the Knowledge and Science of His Majesty King Rama IX to the Community and Society in a Sustainable Way Project
53	Driving Green University Operations (MJU Green University) for 2023 Project
54	Driving Operations to Become a Green Office of the Faculty of Business Administration (Green Office_BAMJU) Project
55	Driving SDG 2 ZERO HUNGER Sustainably (Feel Full, Seniors for Juniors of Maejo University) Project
56	Driving the Green University Operations (MJU Green University) in 2023 Project
57	Eco Print to Eco-Design Product Development to Create Community Identity Project
58	Economics Volunteers to Conserve Forests and Conserve Water in the Year 2023 Project
59	Eliminating Aedes Mosquito Larvae to Prevent Dengue Fever Project
60	Environmental Conservation and Development Camp for the Academic Year 2023 Project
61	Environmental Conservation and Promotion of Waste Separation in Organizations in the Fiscal Year 2023 Project
62	Environmental Improvement and Development Project
63	Environmental Protection to Cope with Climate Change Project
64	Exchanging Professional and Cultural Knowledge Through Watercolor Architectural Painting Activities in ASEAN 2023 Project (66-3.1.3)
65	Faculty of Architecture and Environmental Design Student Club Seminar for the Year 2023 Project
66	Finding Target Markets and Calculating Break-Even Points for San Pa Pao Subdistrict Handicraft and Processing Enterprise Products Project
67	Food Safety and Restaurant Sanitation Principles for the Year 2022 Project
68	Food Security and Food Safety at Ban Din Por Pieng Project
69	Food Waste Disposal with Black Soldier Fly Maggots Towards Economic Sustainability Project
70	GE: Green Environment Project
71	Genetic Conservation and Integrated Use of Homs and Indigo Plants of Phrae Province Project

NO	Sustainability Projects
72	Graduate Developing Aiming at Creating Value for Tourist Attractions Towards Sustainability Program
73	Green Economy for All for the Year 2023 Project
74	Green Faculty (Green Office) Project
75	Green Office of College of Renewable Energy Project
76	Green Office of Faculty of Architecture and Environmental Design Project (66-3.1.2)
77	Green Office of Faculty of Information and Communication Project
78	Green Office of Maejo University in the Fiscal Year 2023 Project
79	Green Office of the Faculty of Architecture and Environmental Design Project
80	Green Office of University Office in the Fiscal Year 2023 Project
81	Green Office Project_1
82	Green Office Project_2
83	Green Office Projects_3
84	Green Office towards Well-Being Maejo University-Chumphon in the Fiscal Year 2023 Project
85	Green Office: Liberal Arts United to Save the World Project
86	Green Research Office and Green Office Project
87	Health Management and Field Visits to Holistically Explore Freshwater Aquaculture to Reduce Production Costs and Reduce Economic Damage Project
88	Higher Education Arts and Culture Project No. 21 “Yol Saeng-Silp, Land of Happiness”
89	Improving Confidence and Safety in the Use of Treasury Management Information Systems Project
90	Improving English for Renewable Energy College Students Project
91	Improving the Landscape and Environment Project
92	Improving the Quality of Cosmetic Products Using Local Raw Materials according to Community Standards at Phrao District Community in Chiang Mai Province Project
93	Improving the Quality of Life of Organic Farming Entrepreneurs in Chumphon Province Project
94	Improving the UNT Agromet for Agricultural Water Management in Response to Climate Change Project

NO	Sustainability Projects
95	Integrating Learning with Local Communities in Preserving Arts, Culture and Local Wisdom Project
96	Integrating Renewable Energy with the Preservation of Religion and Culture Project
97	Internal Audit for the Green Office of the Faculty of Economics Maejo University Departments for the Year 2023 Project
98	Landscape Innovation for Sustainable Urban Environmental Development and Conservation Project (66-2.6.5)
99	Lanna Local Medicinal Plants Collection, Conservation and Research Project (66-2.6.4)
100	Learning and Practicing on Fishing and Aquatic Resources and to Increase Foreign Language Skills Project
101	Learning Base for Producing Organic Fertilizer with Maejo Engineering 1 under the Context of Khok Nong Na Model in Chumphon Province Project
102	Learning Center on Factors Supporting Organic Crop Production Project
103	Maejo Safe, Keeping Away from Drugs and Vices in the Academic Year 2022 Project
104	Maejo University Organic Agriculture Center Project
105	Maejo University-Chumphon Join in Continuing the Culture of the Lang Suan Basin Project
106	Maejo University-Phrae Chalermprakiet University Organic Agricultural Products and Product Center Development Project
107	Maejo Volunteer and Community Development Project
108	Managing Agricultural Waste and Business Operations in a Sustainable, Environmentally Friendly Manner Project
109	Managing Agricultural Waste and Operations in a Sustainable, Environmentally Friendly Manner Project
110	New Health Care in the Community Project
111	Online Media Production for Promoting Souvenir Products and Organic Tourism at Hua Mueang Subdistrict, Song District in Phrae Province Project
112	Organic Aquatic Animal Feeds from Local Ingredients to Focus on Organic Aquaculture Project
113	Organic Fertilizer Production to Drive Organic Agriculture at Ban Wang Pong Project
114	Organic Fertilizer Production, Biological Pesticides and Kratom Production in the Organic Farming System Project
115	Organic Herbal Hemp Roots Project
116	Organic Vegetable Production Learning Base Projects

NO	Sustainability Projects
117	Organizing the 3rd Meeting of the Sustainable University Network of Thailand (Traveling) in 2022 and the 4th Meeting of the Sustainable University Network of Thailand (SUN THAILAND) in 2022 Project
118	Planting and Restoring the Nan Watershed with Miang Tea and Inoculate with Edible Wild Mushrooms Project
119	Precisely Manage Disease Prevention with PCR on Farm Techniques and Innovations in Aquaculture and Livestock Farms to Produce Safe and Sustainable Organic Food Project
120	Preserving the Environment and Promote Waste Separation in Organizations in the Fiscal Year 2023 Project
121	Processing Fish Products By Drying with Solar Energy and Using Waste Materials in the Community to Produce Alternative Energy Project
122	Project “Keep Healthy with Maejo Nurses: Safe Food (MJU GREEN FOOD) Project
123	Project for Collecting and Propagating Medicinal Orchids for Conservation and Learning Resources
124	Project for Organic Aquatic Animal Feed from Local Raw Materials to Focus on Organic Aquaculture
125	Project for Precise Disease Prevention Management Using PCR on Farm Techniques and Innovations in Aquaculture and Livestock Farms. to Produce Safe and Sustainable Organic Food
126	Project for Processing Fish Products by Drying with Solar Energy and Using Waste Materials in the Community to Produce Alternative Energy.
127	Project for the Coordination Center for the Ministry of Public Health - KMUTNB and Special Management Plans to Support the Plant Genetic Conservation Project. Maejo University
128	Project for the Mechanism to Drive the Community Tourism Network in Chumphon Province
129	Project of Creating Food Recipes from Seasonal Organic Ingredients to Add Value to Tourism Products and Services “Creative Food Design for Tourism: Eat Well & Drink Well”
130	Project of Technology Transfer for Producing High-Quality Vegetable Seedlings from Agricultural Waste Materials and Demonstration Plots for Creating Natural Refrigerators under the Organic Farming System. to Improve the Quality of Life and Income for the Community Through Sustainable Organic Agriculture
131	Project Series on "The Last Khiam (Cotylelobium lanceolatum) Forest and Conservation Propagate and Make Sustainable Use of the Khiam Tree"
132	Project Sets to Create Excellence in Organic Livestock and Develop Animal Products to Produce Safe Food

NO	Sustainability Projects
133	Project to "Promote and Develop Prototypes for the Use of Renewable Energy Technology and IOT Systems in Conjunction with Biomass Material Management to Reduce Smog Problems, Help Raise the Level of the Grassroots Economy, and Accelerate the Development of Entrepreneurs."
134	Project to "Transfer of Technology for Developing Products from Plants and Herbs in the Plant Genetic Conservation Project Area" Maejo University-Chumphon to Create Value-Added"
135	Project to Analyze and Monitor Student Data of the School of Renewable Energy
136	Project to Congratulate Graduates of the School of Renewable Energy
137	Project to Conserve and Restore Terrestrial Ecosystems Indigo Plants in the Area at Ban Na Tong, in Phrae Province to Returned to the Natural Forest
138	Project to Conserve and Restore Watershed Forests to Maintain Their Abundance, Organize Appropriate Water Management Systems, and Thoroughly Connect Agricultural Areas. Prevent and Solve the Problem of Smog Pollution Sustainably in the Northern Region (Natural Resources and Environmental Management Project)
139	Project to Conserve, Collect, Develop, and Use Local Plant Genetics (Ma Kiang).
140	Project to Create Academic Cooperation and Exchange Knowledge on Management of Educational Institutions Knowledge on Carbon Credit Assessment in Agriculture, Environment and Forestry
141	Project to Create Awareness of Laws Regarding Community Product Standards to Enhance Product Quality and Sustainable Development
142	Project to Create Health Tourism Attractions at the Thung Luang Community in Chumphon Province, to Support Future Tourism Changes
143	Project to Develop Committees and Personnel in the Supervision of Raising and Using Animals and the Biosafety Committees
144	Project to Develop Community Tourism Activities as Good Creative Economy Concept for Sustainability
145	Project to Develop Conservation Farming and Sustainable Trade Leading to Being a Source of Learning for Youth and the Public
146	Project to Develop Innovation in Proactive Education Management for Highland Agricultural Communities in Mae Hong Son Province in Tak Province.
147	Project to Develop Local Personnel in the Production of Renewable Energy Technology for Product Processing and Increasing the Efficiency of Agricultural Product Production
148	Project to Develop Personality and Social Skills of Community Management Students
149	Project to Develop Research Skills for Master of Arts Students in Community Health Development for the Year 2023

NO	Sustainability Projects
150	Project to Develop the Academic Service Network for the Inter-University Community
151	Project to Develop the Learning Process for Developing Community Organization Management Mechanisms, a Case Study of Soila Credit Union Cooperative
152	Project to Develop Thinking Skills of Community Management Students
153	Project to Increase Product Value and Develop Management Potential of the Coffee Community Enterprise Group Creating Forests at Ban Muser, Doi Mon Chong, Mon Chong Subdistrict, Omkoi District in Chiang Mai Province
154	Project to Increase the Academic Potential of Students in the Field of Agricultural Forestry (Intelligent Agroforestry) in the Field of Agricultural Forestry
155	Project to Integrate Learning with Local Communities in Preserving Arts, Culture, and Local Wisdom
156	Project to Preserve the Environment and Promote Waste Separation in Organizations in the Fiscal Year 2023
157	Project to Promote Careers with Community Funds and Further Develop Products to Generate Commercial Income under the Philosophy of Sufficiency Economy of the Curry Paste Group at San Sai District in Chiang Mai Province
158	Project to Promote Improving the Quality of Life, Community Lifestyles, Communication, Health, and Lifelong Learning.
159	Project to Promote the Cricket Farming Profession according to the Sufficiency Economy of the Royal Initiative of Communities in the Area of Mae Hor Phra Subdistrict, Mae Taeng District, in Chiang Mai Province
160	Project to Study Appropriate Factors in the Nursery and Cultivation of Orchids for Conservation and Use
161	Project to Transfer Knowledge on the Conservation of Natural Resources, Soil, Water, and Forests according to the Sufficiency Economy Concept
162	Project to Upgrade Community Enterprises and New Entrepreneurs with Modern Agricultural Technology and Innovation
163	Projects for Precise Disease Prevention Management with PCR on Farm Techniques and Innovations in Aquaculture and Livestock Farms to Produce Safe and Sustainable Organic Food Project
164	Projects for Transferring Technology in Planting Seedlings and Germinating Vegetables. to Increase Income for the Community
165	Projects to Compete and Develop Skills in Community Development
166	Projects to Drive and Promote the Knowledge of His Majesty King Rama IX to the Community and Society in a Sustainable Way.
167	Projects to Increase Product Value and Develop Management Potential of the Coffee Community Enterprise Group Creating Forests at Ban Muser, Doi Mon Jong, Mon Jong Subdistrict, Omkoi District, in Chiang Mai Province.

NO	Sustainability Projects
168	Projects to Increase the Value of Community Products and Develop Community Potential in Marketing to Increase Economic Value
	Promote Community Strength and Sustainability Project
169	Promoting 21st Century Learning Outside the Classroom to Develop Life Skills and Careers in Coastal Aquaculture according to Lifelong Learning Principles Project
170	Promoting and Developing Entrepreneurs in Beverages, Food, and Organic Products of Maejo University-Phrae Chalermprakiet Project
171	Promoting and Developing Smart and Digital Agricultural Technology and Green University Ranking Project
172	Promoting and Upgrading Vegetables and Medicinal Plants to Drive Healthy Food Security according to the Identity of Nong Han Community to Become a Model Community for the Green Economy Project
173	Promoting Careers with Community Funds and Further Develop Products to Create Commercial Income under the Philosophy of Sufficiency Economy of the Curry Paste Group at San Sai District, Chiang Mai Province Project
174	Promoting Community Strength and Sustainability Project
175	Promoting Learning Activities and Environmental Practices for Schools Project
176	Promoting the Driving of Agricultural Strategies, Renewable Energy, and Environmental Development of Maejo University Project
177	Promoting the Production of Agricultural Products and Energy to Generate Income for the School of Renewable Energy Project
178	Promoting the Use of Medicinal and Local Plants to Increase the Self-Reliance Potential of the Elderly in the Phiang Din Group Project
179	Prototype Organic Area of Maejo University Project
180	Public Relations for the Curriculum of the College of Renewable Energy Project
181	Public Relations of the Faculty of Architecture and Environmental Design Project
183	Renewable Energy and Energy Conservation Exhibition Project
184	Renewable Energy Resource Management to Earn Income and Use It Sustainably Project
185	Returning Puff Ball Mushrooms to the Forest for Conservation and Sustainable Use of Local Plant Genetic Diversity Project
186	SAS-66 Academic Seminar on Green Politics: Building Partnerships and Participation in Development Governance Project
187	SAS-66 Building Strong Communities Through Cooperation with All Sectors Project
189	SAS-66 Community Development Project Based on the Concept of The Boworn: HTS (House, Temple, and School or Educational Institution).

NO	Sustainability Projects
190	SAS-66 Creating a Learning Community for Local Community Management and Development Project
191	SAS-66 on Create Knowledge and Understanding of Green Office for College of Administrative Sciences Students Project
192	SAS-66 on Green Office: Fire Prevention Training Activities and Practice Fire Evacuation Operations and Prepare for Emergencies in the Year 2023 Project
193	SAS-66 Project for Strengthening Community Enterprise Groups with Community Health Innovations
194	SAS-66 Project to Build Forest Fire Protection Lines and Water Retarding Dams. Community Development Volunteer for the Academic Year 2022
195	SAS-66 Project to Create Experiences in Learning About Society, Culture, and Community Resource Management
196	SAS-66 Project to Study Economic Routes from Southern China and Border Security in the Mekong Basin and ASEAN Countries for Foreign Exchange Students of the College of Administrative Sciences
197	SAS-66 The 12th Administrative Science Community Weaving Relations of Friends Project
198	Scholarship Supports for Students of the School of Renewable Energy Project
199	Solar Drying Technology Projects at the Household and Community Enterprise Level
200	Solid Waste Processing Project
201	Strengthening Communication Science: Research and Communication Clinics Towards a Green University Project
202	Support Research That Focuses on Agribusiness/Organic Agriculture towards Go, Eco University That Can Be Used to Benefit the Community and Disseminate Research
203	Sustainable Management of Green Libraries and Green Offices Project
204	Sustainable Royal Projects with Agricultural, Food, and Health Innovations
205	Sustainable Tourism Route Management for Fiscal Year 2023 Project
206	Technology Transfer for Producing High-Quality Vegetable Seedlings from Agricultural Waste Materials and Demonstration Plots for Creating Natural Refrigerators under the Organic Farming System to Improve the Quality of Life and Income for the Community Through Sustainable Organic Agriculture Project
207	Technology Transfer Project for Designing and Installing Watering Systems for Landscaped Areas of Community Temples Project
208	Technology Transferring for Growing Vegetables/Herbs according to Safe/Organic Agriculture Systems Project

NO	Sustainability Projects
209	Thai Agricultural Culture Museum Area Development Promoting Learning of Fisheries Skills and Aquatic Animal Production Innovations into Practice Project
210	Thai Horse to Develop Youth and Promote Ecotourism in Phrae Province Project
211	The 16th Anniversary, Founding Day of the Faculty of Architecture and Environmental Design, Maejo University, “Khon Ton Baep in Year 2” Project (66-2.7.4)
212	The 5th Year of the Development of Maejo University-Chumphon University Farm Area Toward International Organic Agriculture Standards (IFOAM) Certification Project
213	Training Project on Community Health Development Operations Using Participatory Action Research
214	Training Projects on Agricultural and Environmental Knowledge and Environmental Development Volunteers Faculty of Economics
215	Training Projects to Develop Agricultural Skills in Organic Vegetable Production and Sustainable Environmental Development under the Natural Agricultural System Learning Center Faculty of Economics in the Year 2023
216	Training Students on Safety Standards in Scientific Laboratories and the Use of Advanced Scientific Equipment Project
217	Training to Develop Agricultural Skills in Organic Vegetable Production and Sustainable Environmental Development under the Natural Agricultural System Learning Center, Faculty of Economics, Year 2023 Project
218	Trainings to Provide Knowledge on the Sufficiency Economy Philosophy to Foreigners for Sustainability Project
219	Transferring Knowledge on the Conservation of Natural Resources, Soil, Water, and Forest according to the Sufficiency Economy of His Majesty the King Project
220	Transferring Technology for Growing Vegetables/Herbs according to Safe/Organic Agriculture Systems Project
221	Upgrading Crop Production Processes and Increase the Value of Safe Sweet Potatoes Project
222	Upgrading Farmers and Building Competitiveness with Organic Agricultural Standards Project
223	Upgrading the Educational Operating Base in Tourism Innovation (Tourism Innovation Platform) Based on Wisdom Capital and Creative Economy Thinking Base under the Framework of Sustainable Development in the Fiscal Year 2023 Project
224	Upgrading the Elderly Group at Cholae Subdistrict, Mae Taeng District, Chiang Mai to Be Self-Reliant and Sustainable Project
225	Upgrading the Innovation Ecosystem to Enhance the Potential of Technology Business Entrepreneurs Advanced Agricultural and Food Innovation

NO	Sustainability Projects
226	Upgrading Water Management according to the Royal Initiative at San Pa Pao Subdistrict Model, San Sai District, Chiang Mai Province Project
227	Using Local Medicinal Plant Extracts from the Plant Genetic Conservation and Sustainable Use Project
228	Using Local Plants for Sustainable Product Development Project
229	Using Microorganisms for Organic Agriculture according to the Royal Initiative in the Area of Chiang Mai Province Project
230	Volunteering to Develop Morality and the Green Economy Department of Digital Economics and Cooperatives in the Year 2023 Project
231	Wild Mushroom Garden Model in the Miang Tea Garden Area Project
232	Workshop Project on "Basic Knowledge About Radiation Safety and Agricultural Applications"
233	Workshop Project to Promote Physical Health for Communities in the Agricultural Innovation District Maejo Food and Health

Number of activities organized by student organizations related to sustainability per year (ED5)



There are many student organizations that create activities about green and environmental conservation such as volunteer activities for rural development, cleaning public road areas, separating waste, growing rice, and organic farming. There are 18 student organizations and they have at least one project related to sustainability per year.

This program is mapped to SDG 11 (Sustainable cities and communities).

Please select one option:

- [1] 0
[2] 1-5
[3] 6-10
[4] 11-20
[5] > 20

No.	Logo	Name of organization	Objectives of organization	Activities
1		องค์การนักศึกษา มหาวิทยาลัยแม่โจ้ Student Union of Maejo University	It is the main organization of students in organizing activities to develop students within the university in accordance with the identity of the university.	MJU learning & sharing together 2022 activities
2		สภานักศึกษา มหาวิทยาลัยแม่โจ้ Student Council of Maejo University	It is a student organization to monitor, defend the rights, and present the material necessary for the life of students on campus.	Intinil project, a new bold council in 2022
3		สโมสรนักศึกษา คณะเศรษฐศาสตร์ Student Union of Faculty of Economics	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Training courses "Organic vegetable production and simple straw mushroom cultivation"
4		สโมสรนักศึกษา คณะวิทยาศาสตร์ Student Union of Faculty of Science	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Project Activities "Garbage Exchange"

No.	Logo	Name of organization	Objectives of organization	Activities
5		สโมสรคณะเทคโนโลยีการประมงและทรัพยากรทางน้ำ Student Union of Faculty of Fisheries Technology and Aquatic Resources	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Project New Breed Smart Farmer
6		สโมสรวิทยาลัยบริหารศาสตร์ Student Union of School of Administrative Studies	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	MJU Car Free Day 2022 event
7		สโมสรนักศึกษาคณะผลิตกรรมการเกษตร Student Union of Faculty of Agricultural Production	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Activities to wish world peace.
8		สโมสรนักศึกษาคณะศิลปศาสตร์ Student Union of Faculty of Liberal Arts	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Classify the garbage before disposal.
9		สโมสรนักศึกษาคณะวิศวกรรมศาสตร์และอุตสาหกรรมเกษตร Student Union of Faculty of	Faculty-level student organization that organizes activities for students within the Faculty to	MJU Green & Clean Food Festival

No.	Logo	Name of organization	Objectives of organization	Activities
		Engineering and Agro-industry	become students according to the Faculty's graduate qualities.	
10		สโมสรมักศึกษา คณะสถาปัตยกรรมศาสตร์และการออกแบบสิ่งแวดล้อม Student Union of Faculty of Architecture and Environmental Design	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Environmental protection camp
11		สโมสรมักศึกษาคณะสัตวศาสตร์และเทคโนโลยี Student Union of Faculty of Animal science and Technology	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Green Heart Smart Student Animal Science Volunteer University Development Activities
12		สโมสรมักศึกษาคณะสารสนเทศและการสื่อสาร Student Union of Faculty of Information and Communication	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Faculty Development Volunteer Activities
13		สโมสรมักศึกษาคณะพัฒนาการท่องเที่ยว Student Union of School of Tourism Development	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	Provide drinking water for forest fire fighting tasks to the forest fire fighting volunteer team, and establish forest fire lines in the area.

No.	Logo	Name of organization	Objectives of organization	Activities
14		สโมสรนักศึกษาวิทยาลัย พลังงานทดแทน Student Union of School of Renewable Energy	Faculty-level student organization that organizes activities for students within the Faculty to become students according to the Faculty's graduate qualities.	volunteer activities
15		ชมรมนกเสรี Freedom Bird Club	To develop creative competence and problem solving in the public mind towards helping the community and society.	lack rice planting camp and learn life skills
16		ชมรมรากดินแม่โจ้ Maejo's Rakdin Club (RMC)	To encourage students to have a public mind to help the community and society.	Invite the new generation to try, learn and understand the community, and enjoy the happiest meal in the Huay Hin Lad community.
17		ชมรมอนุรักษ์ธรรมชาติและสิ่งแวดล้อม Nature and Environmental Conservation Club	To enable students who are interested in environmental conservation to participate in activities and benefits.	Biochar making activity
18		ชมรมยุวเกษตรกร Young Farmers Club	To foster the attitude of young agricultural group members to be proud of the value of agriculture and to accept agriculture as a profession	Project to Strengthen Agricultural Production Group

Number of cultural activities on campus (ED6)

The **cultural activities on campus** are organized by the University:

- [1] None
- [2] 1-3 events per year
- [3] 4-6 events per year
- [4] 7-10 events per year
- [5] more than 10 events**

Additional evidence link : <https://erp.mju.ac.th/informationIndex.aspx?tid=7>



1. Teacher worship ceremony 2024



2. Candle casting ceremony for the year 2024



3. Sacred ceremony to indoctrinate the students, Faculty of Architecture and environmental design



4. Preserving the tradition of the Buddha procession and boat racing, flag capturing on the prow, a cultural heritage of the nation



5. Shong Karn festival or Thai new year



6. Annual merit-making event of the Faculty of Liberal Arts for the year 2024 on the occasion of its 19th anniversary



7. Representatives of Maejo University participated in a Buddhist prayer ceremony in honor of His Majesty the King, offering blessings on the occasion of His 72nd birthday celebration



8. Annual merit-making event of the Faculty of Liberal Arts for the year 2024 on the occasion of its 19th anniversary



9. Maejo University participated in the 'Dhamma Sermons from Four Regions of Thailand' event, second edition, in the northern region



Additional evidence link :

- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6058&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6015&lang=>
- https://edu-arch.mju.ac.th/wtms_newsDetail.aspx?nID=28073&lang=th-TH
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6179&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5783&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5767&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5746&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5767&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=5773&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6004&lang=>

Number of university sustainability program(s) with international collaborations (ED7)

- [1] None
- [2] 1-3 programs per year
- [3] 4-6 programs per year
- [4] 7-10 programs per year
- [5] more than 10 programs per year**



Additional evidence link :

- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6140&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6176&lang=th>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6146&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6123&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6082&lang=>
- <https://erp.mju.ac.th/informationDetail.aspx?newsId=6060&lang=>

No.	Cooperating agencies	Issue	Start	End	Duration	Note
1	Sulawesi Barat University ,Indonesia	Sulawesi Barat University	06/09/2023	06/09/2027	5	MJU-Chumporn
2	Chiba University ,Japan	Chiba University	01/09/2023	01/09/2027	5	
3	Chiba University ,Japan	Chiba University	01/09/2023	01/09/2027	5	
4	University of Agriculture and Environmental Sciences ,Nigeria	University of Agriculture and Environmental Sciences	01/09/2023	01/09/2027	5	
5	University Network for Tropical Agriculture (UNTA) ,Unknow	University Network for Tropical Agriculture	17/08/2023	N/A	N/A	
6	Jinwen University of Science and Technology ,Taiwan	Jinwen University of Science and Technology	11/05/2023	11/05/2027	5	
7	Taiwan Leisure Agriculture Association ,Taiwan	Taiwan Leisure Agriculture Association	11/05/2023	11/05/2027	5	
8	Liaoning Institute of Science and Technology ,China	Liaoning Institute of Science and Technology	27/03/2023	27/03/2027	5	
9	Universitas Negeri Yogyakarta ,Indonesia	Universitas Negeri Yogyakarta	10/03/2023	10/03/2027	5	
10	Alauddin State Islamic University ,Indonesia	Alauddin State Islamic University (UIN)	01/03/2023	01/03/2027	5	MJU-Chumporn
11	State Institute of Islamic Sorong West Papua ,Indonesia	State Institute of Islamic Studies Sorong West Papua	01/03/2023	01/03/2027	5	MJU-Chumporn
12	Universitas Patempo Makassar ,Indonesia	Universitas Patempo Makassar	01/01/2023	01/01/2027	5	MJU-Chumporn
13	Universiti Teknologi MARA ,Malaysia	Universiti Teknologi MARA	26/12/2022	26/12/2026	5	Faculty of Engineer

No.	Cooperating agencies	Issue	Start	End	Duration	Note
14	Fushoushan Farm, Veterans Affairs Council ,Taiwan	Fushoushan Farm, Veterans Affairs Council	02/12/2022	30/11/2026	5	Faculty of Agri.Pro duction
15	Fengshan Tropical Horticultural Experiment Branch ,Taiwan	Fengshan Tropical Horticultural Experiment Branch	28/11/2022	28/11/2026	5	Faculty of Agri.Pro duction
16	Universitas Brawijaya ,Indonesia	Universitas Brawijaya	26/11/2022	26/11/2026	5	
17	Wuling Farm, Veterans Affairs Commission, Executive Yuan Republic of China (Taiwan) ,Taiwan	Wuling Farm, Veterans Affairs Council	07/11/2022	07/11/2026	5	Faculty of Agri.Pro duction
18	Universitas PGRI Adi Buana Surabaya ,Indonesia	Universitas PGRI Adi Buana Surabaya	23/09/2022	23/09/2026	5	
19	Northern Agriculture and Forestry College,LAO PDR ,Laos	Northern Agriculture and Forestry College	01/09/2022	01/09/2026	5	

Number of community services related to sustainability organized by university and involving students (ED8)

There are **more than 100 sustainability community service projects** this year. Example as follows;

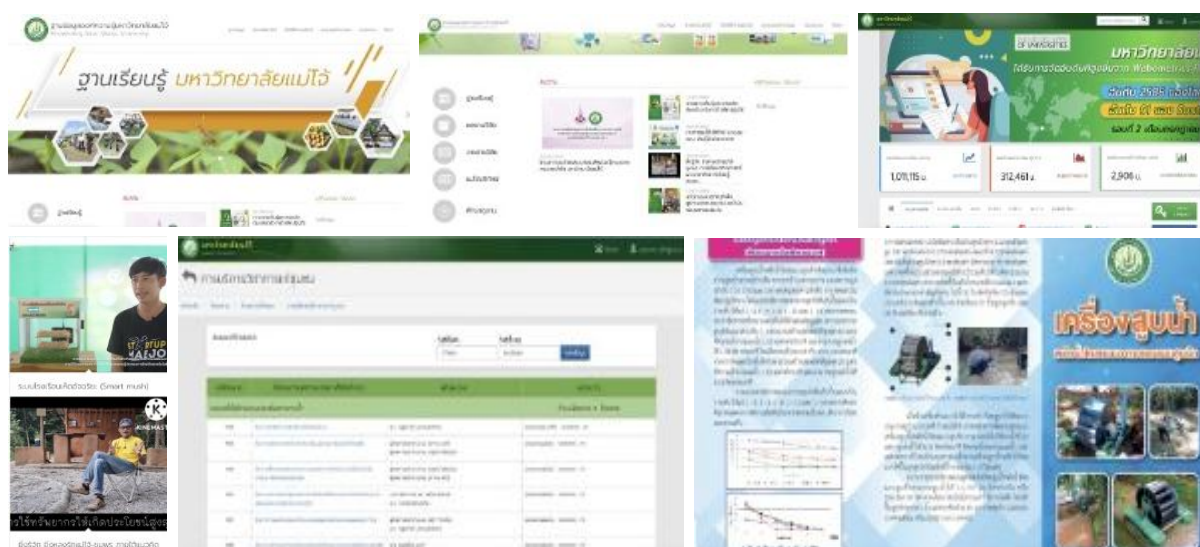
No.	Project name
1	New Entrepreneurship Development Project
2	Python Training for Investment and Web Scraping for Economic and Financial Data 2024
3	Project for Personality Development and Professional Teamwork
4	Project to create a daily Chiang Mai agricultural product price database for forecasting in fiscal year 2024
5	Organic Vegetable and Fruit Processing Technology Transfer Project
6	Synthesis of spatial context and community needs for the development of Maejo Model academic service project proposals in San Pa Pao, San Sai Luang and Nong Harn sub-districts, San Sai district, Chiang Mai province

No.	Project name
7	Rice farming culture continuation project
8	Project on "Utilization of White Sesbania Extract Mixed with Cassia Fistula Fermentation for Disease and Insect Control in Chinese Kale Brassica oleracea Var. Alboglabra and Chinese Pak Choi Brassica chinensis Just var parachinensis (Bailey) Tsen & Lee"
9	Conservation and Plantation of Red Samed Trees Project
10	Project to drive and support the knowledge of His Majesty King Rama IX to communities and society sustainably
11	Safe Agricultural Durian Farm Development Project, Maejo University-Chumphon
12	Integrated Safe/Organic Agricultural Entrepreneurship Development Project based on the Green Valley Model @Maejo Phrae
13	Project "Organic Fertilizer Production Learning Base Using Maejo Engineering Method 1 in the Context of Khok Nong Na Model in Chumphon Province"
14	Project "Using Smart Agriculture Innovation with Solar Energy to Improve Hybrid Catfish Farming System with Aquaponics"
15	Fisheries knowledge base potential development project in the Faculty of Fisheries Technology and Aquatic Resources and target schools or communities to create sustainable strength and develop into a full-cycle aquaculture entrepreneur with the BCG economic model.
16	Project to develop the quality of life of the elderly in San Sai District to generate income from the production of Thai perfumes such as Thai perfume.
17	The project of utilizing knowledge of science and technology in a holistic manner for organic farming based on the philosophy of a sufficient economy through community participation in Ban Saluang Nok and Ban Saluang Nai, Tambon Saluang, Mae Rim District, Chiang Mai Province
18	Integrated Agricultural Technology Transfer Project to Increase Capacity for Agricultural Careers Throughout the Value Chain in the New Way of Life Era
19	Bee Learning Base Project
20	Vegetable Production Learning Base Project
21	Coffee farmers' upgrading project by managing land and water in line with royal initiatives to reduce the impact of climate change
22	Integrated entrepreneurial skills development project to upgrade organic agricultural products in line with the royal initiative in Ban Mae Tung Ting, Samoeng District, Chiang Mai Province
23	Commercial Bioproduct Production Project, Maejo University-Chumphon
24	Knowledge transfer project on agricultural innovation IOT to develop potential and improve education at Sri Sangwan Chiang Mai School (Special Education School for the Disabled)
25	Entrepreneurial Skills Development Project: Photography Professionals, Techniques and Earning Money from Photography through Various Platforms
26	Developing a market from community products in the Sufficiency Economy area of Nong Chang Khuen Subdistrict to lead to sales in the Digital Marketing system
27	Community prototype development project and career promotion towards economic, social and environmental sustainability based on the BCG Model

No.	Project name
	concept to respond to the royal initiative in Mae Taeng District, Chiang Mai Province
28	Home and Community Enterprise Solar Drying Technology Project
29	Promoting career development to increase the value of processed food products with grassroots community innovation under the sufficiency economy philosophy of the handicraft and processing community enterprise group in San Pa Pao Subdistrict, San Sai District, Chiang Mai Province
30	Royal Project Foundation Support Project

The knowledge base of our campus was operated both onsite visiting and in the media that participants can access online. Such as

Centrifugal and circulating hydraulic pumps	https://kb.mju.ac.th/article.aspx?id=3596
Academic services project of Maejo university;	https://erp.mju.ac.th/projectPlanLst.aspx?pid=2
The Office of Agricultural Research and Extension Maejo University	https://rae.mju.ac.th/wtms_index.aspx?&lang=th-TH
MJU U2T	https://researchex.mju.ac.th/otou/index.php
Ministry of Higher Education, Science, Research and Innovation	https://researchex.mju.ac.th/youth/
Smart mush	https://www.youtube.com/watch?v=QrrdXB_fU9w
The more you know, the more you love Maejo Chumphon	https://www.youtube.com/watch?v=NBG3F27qB9Y



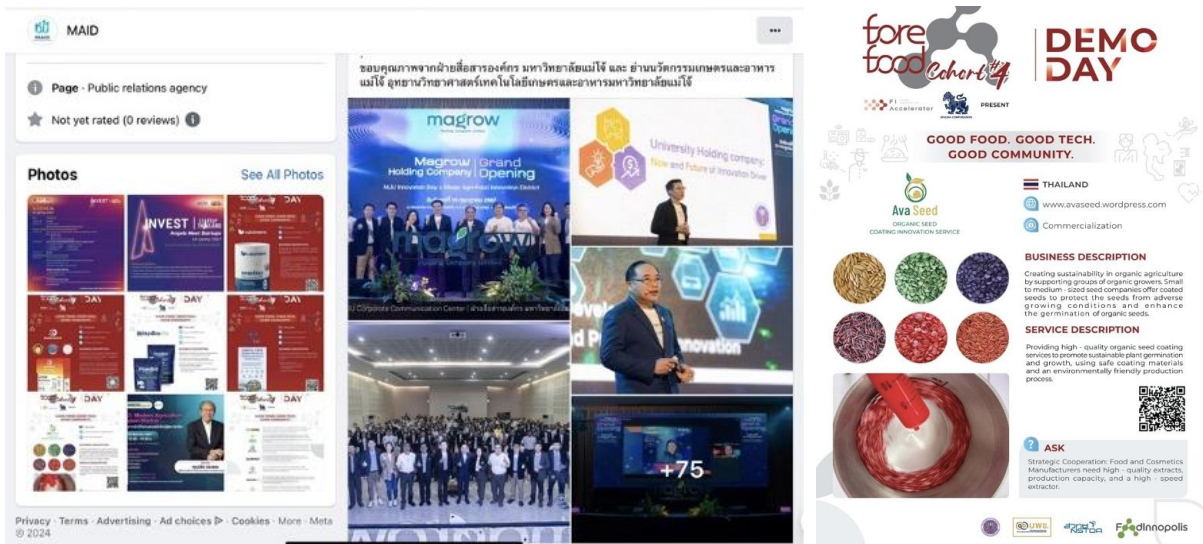


- [1] None
- [2] 1–3 projects per year
- [3] 4–6 projects per year
- [4] 7–10 projects per year
- [5] More than 10 projects per year

Number of sustainability-related startups (ED9)

This year there are 5 Foodtech startups from Maejo Agri-Food Innovation District (FOREFOOD DEMODAY 2024), Maejo Agro-Food Park: MAP as follows;

- [1] None
- [2] 1 – 5 startups
- [3] 6 – 10 startups
- [4] 11 – 15 startups
- [5] More than 15 startups



Additional evidence link : <https://www.facebook.com/MAID2021/>

Total number of graduates with green jobs (for the last 3 years)

From 2022-2025

	Faculty/ School	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
1	Faculty of Agricultural Production	393.33	215	Sustainable Agriculture Consultant, Organic Crop Expert	Alumni Database
2	Faculty of Engineering and Agro- Industry	125.00	110	Waste Managemen t Engineer	Alumni Database
3	Faculty of Science	140.33	120	Waste Managemen t Sustainable government	Alumni Database
4	School of Administrati ve Studies	196.33	114	Sustainable Agriculture	Alumni Database
5	Faculty of Business Administrati on	585.33	320	Sustainable Agriculture	Alumni Database
6	Maejo University - Chumphon Campus	56.33	35	Sustainable Agriculture	Alumni Database
7	Maejo University - Phrae Chalermpra kiat Campus	190.33	129	Sustainable Agriculture Consultant,	Alumni Database

	Faculty/ School	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
8	School of Tourism Developme nt	160.67	112	Sustainable Agriculture Consultant	Alumni Database
9	Faculty of Fisheries Technology and Aquatic Resources	80.00	39	Marine Conservatio n Manager, Marine Biologist	Alumni Database
10	Faculty of Economics	80.00	45	Waste Managemen t Engineer	Alumni Database
11	Faculty of Liberal Arts	226.00	128	Sustainable Agriculture Consultant, Organic Crop Expert	Alumni Database
12	School of Renewable Energy	66.67	60	Renewable Energy Engineer, Energy Efficiency Specialist	Alumni Database
13	Internationa l College	6.00	3	Sustainable Agriculture Consultant, Organic Crop Expert	Alumni Database
14	Faculty of Information and Commu nication	203.67	146	Sustainable Agriculture Consultant	Alumni Database
15	Faculty of Architecture and	36.67	28	Sustainable Agriculture Consultant,	Alumni Database

	Faculty/ School	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
	Environmental Design			Landscape architecture	
16	Faculty of Animal Science and Technology	202.33	187	Sustainable Agriculture Consultant, Organic farm Expert	Alumni Database
17	Faculty of Nursing	17.67	0	Nurse	Alumni Database
Total		2766.66	1,791		

Total number of graduates with green jobs is **1,791** from 17 faculties.

Total number of graduates (for the last 3 years)

#	Faculty / College	2022	2023	2024	3-Year Average
1	Faculty of Agricultural Production	334	326	520	
2	Faculty of Engineering and Agro-Industry	97	126	152	
3	Faculty of Science	115	86	220	
4	School of Administrative Studies	161	161	267	
5	Faculty of Business Administration	391	513	852	
6	Maejo University - Chumphon Campus	40	58	71	
7	Maejo University - Phrae Chalermprakit Campus	161	191	219	
8	School of Tourism Development	130	162	190	

#	Faculty / College	2022	2023	2024	3-Year Average
9	Faculty of Fisheries Technology and Aquatic Resources	88	66	86	
10	Faculty of Economics	70	65	105	
11	Faculty of Liberal Arts	212	181	285	
12	School of Renewable Energy	83	80	37	
13	International College	14	4	0	
14	Faculty of Information and Communication	154	191	266	
15	Faculty of Architecture and Environmental Design	31	50	29	
16	Faculty of Animal Science and Technology	150	228	229	
17	Faculty of Nursing	0	0	53	
Total		2,231	2,488	3,581	2,766.67

The total number of graduates from 17 faculties for the 3-year average from 2022 to 2025 is **2,766.67**.

Percentage of number of graduates with green jobs (for the last 3 years) (ED10)

	Faculty/ School	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
1	Faculty of Agricultural Production	393.33	215	Sustainable Agriculture Consultant, Organic Crop Expert	Alumni Database

	Faculty/ School	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
				Freelance work / Self- employment	
2	Faculty of Engineering and Agro- Industry	125.00	110	Waste Management Engineer, Renewable Energy Specialist Freelance work / Self- employment	Alumni Database
3	Faculty of Science	140.33	120	Waste Management Sustainable Agriculture Consultant, government Freelance work / Self- employment	Alumni Database
4	School of Administrati ve Studies	196.33	114	Sustainable Agriculture Consultant, Organic Crop Expert Freelance work / Self- employment	Alumni Database
5	Faculty of Business Administrati on	585.33	320	Sustainable Agriculture Consultant, Organic Crop Expert Freelance work / Self- employment	Alumni Database

	Faculty/ School	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
6	Maejo University - Chumphon Campus	56.33	35	Sustainable Agriculture Consultant, Organic Crop Expert Freelance work / Self- employment	Alumni Database
7	Maejo University - Phrae Chalermpra kiat Campus	190.33	129	Sustainable Agriculture Consultant, Organic Crop Expert Freelance work / Self- employment	Alumni Database
8	School of Tourism Developme nt	160.67	112	Sustainable Agriculture Consultant, Organic Crop Expert Freelance work / Self- employment	Alumni Database
9	Faculty of Fisheries Technology and Aquatic Resources	80.00	39	Marine Conservation Manager, Marine Biologist Freelance work / Self- employment	Alumni Database
10	Faculty of Economics	80.00	45	Waste Management Engineer Freelance work / Self- employment	Alumni Database

	Faculty/ School	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
11	Faculty of Liberal Arts	226.00	128	Sustainable Agriculture Consultant, Organic Crop Expert Freelance work / Self- employment	Alumni Database
12	School of Renewable Energy	66.67	60	Renewable Energy Engineer, Energy Efficiency Specialist Freelance work / Self- employment	Alumni Database
13	Internationa l College	6.00	3	Sustainable Agriculture Consultant, Organic Crop Expert Freelance work / Self- employment	Alumni Database
14	Faculty of Information and Communica tion	203.67	146	Sustainable Agriculture Consultant Freelance work / Self- employment	Alumni Database
15	Faculty of Architecture and Environment al Design	36.67	28	Sustainable Agriculture Consultant, Landscape architecture	Alumni Database

	Faculty/ School	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
				Freelance work / Self- employment	
16	Faculty of Animal Science and Technology	202.33	187	Sustainable Agriculture Consultant, Organic farm Expert Freelance work / Self- employment	Alumni Database
17	Faculty of Nursing	17.67	0	Nurse	Alumni Database
Total		2766.66	1,791		

Graduates pursue careers in companies, government sector, and private agricultural and farming businesses.

Total number of graduates: 2,766.66

Total number of graduates with green jobs: 1,791

Percentage of number of graduates with green jobs:

(Total number of graduates with green jobs/ Total number of graduates) x 100%

= (1,791/2,766) x 100%

= **64.75%**

Impact of Energy and Climate Change programs in supporting the Sustainable Development Goals (SDGs)



The university carries out activities across all its missions that support all 17 SDGs, including:

- Integration of sustainability themes across the curriculum in various disciplines, including environmental science, engineering, economics, public health, and social sciences.
- Development of interdisciplinary programs and courses focused on climate change, energy transition, circular economy, and sustainable development.
- Establishment of dedicated research centers, labs, and think tanks addressing key sustainability challenges such as renewable energy, biodiversity, water management, and urban resilience.
- Annual publication of sustainability-related research outputs, including peer-reviewed journals, books, policy briefs, and innovation patents.
- Provision of sustainability-focused scholarships, thesis grants, and funding support for student-led research and capstone projects.
- Community-based learning and participatory action research in collaboration with local governments, industries, and NGOs to solve real-world environmental issues.
- Organization of conferences, workshops, and summer schools on SDG-related themes to foster knowledge exchange and interdisciplinary dialogue.
- Implementation of environmental literacy campaigns to raise awareness among students, staff, and the broader community.
- Promotion of green campus living labs, where students and researchers co-develop and pilot sustainability innovations on campus.

- Partnerships with international academic networks to scale up research collaborations and share best practices on education for sustainable development.

These efforts directly support SDGs 3, 4, 5, 6, 7, 9, 11, 12, 13, 15, and 17, and contribute indirectly to the remaining goals, including:

- SDG 3 – Enhancing health and well-being through applied public health research
- SDG 4 – Providing quality education that empowers learners for sustainability
- SDG 5 – Promoting gender equality through inclusive academic opportunities
- SDG 6 – Advancing water research and infrastructure innovation
- SDG 7 – Driving clean energy solutions through academic inquiry
- SDG 9 – Supporting innovation and sustainable industrialization
- SDG 11 – Enabling sustainable urban planning through applied research
- SDG 12 – Encouraging responsible production and consumption patterns
- SDG 13 – Promoting climate science and adaptation strategies
- SDG 15 – Conserving ecosystems through environmental research
- SDG 17 – Building academic partnerships for global sustainable development

[1] Low impact (supporting 1–2 SDGs)

<https://uigreenmetric.com> 50 [2] Moderate impact (supporting 3–5 SDGs)

[3] Significant impact (supporting 6–9 SDGs)

[4] High impact (supporting 10–13 SDGs)

[5] Very high impact (supporting 14–17 SDGs)

GD

GOVERNANCE AND DIGITALIZATION



MAEJO GO ECO UNIVERSITY 
THE OPERATION GREEN UNIVERSITY REPORT 2026

[Read more >>](#)

4 QUALITY
EDUCATION



5 GENDER
EQUALITY



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



10 REDUCED
INEQUALITIES



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



17 PARTNERSHIPS
FOR THE GOALS





Total university budget (in US Dollars)

Average annual university budget over the last three years (USD) : USD 43.06 million

University budget for sustainability effort (in US Dollars)

	2024	2025	2026	Average
Budget Total	41,835,393.64	43,606,865.18	43,735,031.44	43,059,096.75
Sustainability Budget (USD)	65,567.94	173,993.94	15,276.27	84,946.05
Percentage of Sustainability Budget	0.157%	0.399%	0.035%	0.197%

Sustainability Budget Category	2024	2025	2026	Average
Energy Efficiency and Renewable Energy	\$5,051.27 (7.70%)	\$13,733.57 (7.89%)	\$1,502.63 (9.84%)	\$6,762.49 (7.96%)
Waste Reduction and Recycling	\$2,067.14 (3.15%)	\$11,308.21 (6.50%)	\$0.00 (0.00%)	\$4,458.45 (5.25%)
Water Conservation	\$1,742.86 (2.66%)	\$25,535.23 (14.68%)	\$823.97 (5.39%)	\$9,367.35 (11.03%)
Sustainable Transportation	\$0.00 (0.00%)	\$0.00 (0.00%)	\$0.00 (0.00%)	\$0.00 (0.00%)
Sustainable Procurement	\$11,142.83 (16.99%)	\$36,396.21 (20.92%)	\$0.00 (0.00%)	\$15,846.35 (18.65%)

Sustainability Budget Category	2024	2025	2026	Average
Green Building Initiatives	\$16,264.18 (24.81%)	\$18,733.37 (10.77%)	\$1,502.50 (9.84%)	\$12,166.68 (14.32%)
Carbon Management and Offsetting	\$360.00 (0.55%)	\$734.42 (0.42%)	\$0.00 (0.00%)	\$364.81 (0.43%)
Training and Engagement of the Academic Community	\$27,135.66 (41.39%)	\$60,199.82 (34.60%)	\$11,447.16 (74.93%)	\$32,927.55 (38.76%)
Facility Maintenance for Sustainability	\$1,804.00 (2.75%)	\$7,353.11 (4.23%)	\$0.00 (0.00%)	\$3,052.37 (3.59%)
Total Sustainability Budget	\$65,567.94 (100.00%)	\$173,993.94 (100.00%)	\$15,276.27 (100.00%)	\$84,946.05 (100.00%)

Maejo University applies a budget analysis system that links institutional expenditure with sustainability-related projects and activities reported in the annual performance reports. The analysis covers the university's total budget, the identifiable sustainability budget, the percentage of the sustainability budget relative to the total university budget, and the distribution of sustainability expenditure across key sustainability categories.

For the three-year period from 2024 to 2026, Maejo University's average total budget was **USD 43,059,096.75**. The total budget increased from **USD 41,835,393.64 in 2024** to **USD 43,606,865.18 in 2025** and **USD 43,735,031.44 in 2026**. This indicates that the university maintained a stable and slightly increasing institutional budget base during the reporting period.

The identifiable sustainability budget was **USD 65,567.94 in 2024**, increased significantly to **USD 173,993.94 in 2025**, and was **USD 15,276.27 in 2026**. The three-year average identifiable sustainability budget was **USD 84,946.05**. The 2026 figure should be interpreted with caution because the available 2026 report covers only the first six months of the fiscal year; therefore, additional sustainability expenditure may be reported in the final annual report.

When compared with the university's total budget, the sustainability budget accounted for **0.157% in 2024**, **0.399% in 2025**, and **0.035% in 2026**, with a three-year average of **0.197%**. The highest sustainability budget ratio was found in 2025, reflecting a stronger concentration of identifiable sustainability-related projects and activities in that year.

The largest sustainability expenditure category was **Training and Engagement of Academic Community**, with an average of **USD 32,927.55**, representing **38.76%** of the average sustainability budget. This shows that Maejo University places strong emphasis on building sustainability awareness, staff and student participation, Green Office implementation, environmental learning, and community engagement.

The second largest category was **Sustainable Procurement**, with an average of **USD 15,846.35**, or **18.65%** of the sustainability budget. This reflects the university's activities related to organic agriculture, green supply chains, sustainable production, environmentally responsible products, and community-based sustainable economic development.

The third largest category was **Green Building Initiatives**, with an average of **USD 12,166.68**, or **14.32%** of the sustainability budget. This category includes Green Office

projects, green workplace development, landscape improvement, green library activities, and sustainability-related building and office management.

Another important category was **Water Conservation**, with an average of **USD 9,367.35**, or **11.03%** of the sustainability budget. This includes activities related to water-resource development, soil and water management, community water systems, and conservation-oriented academic services.

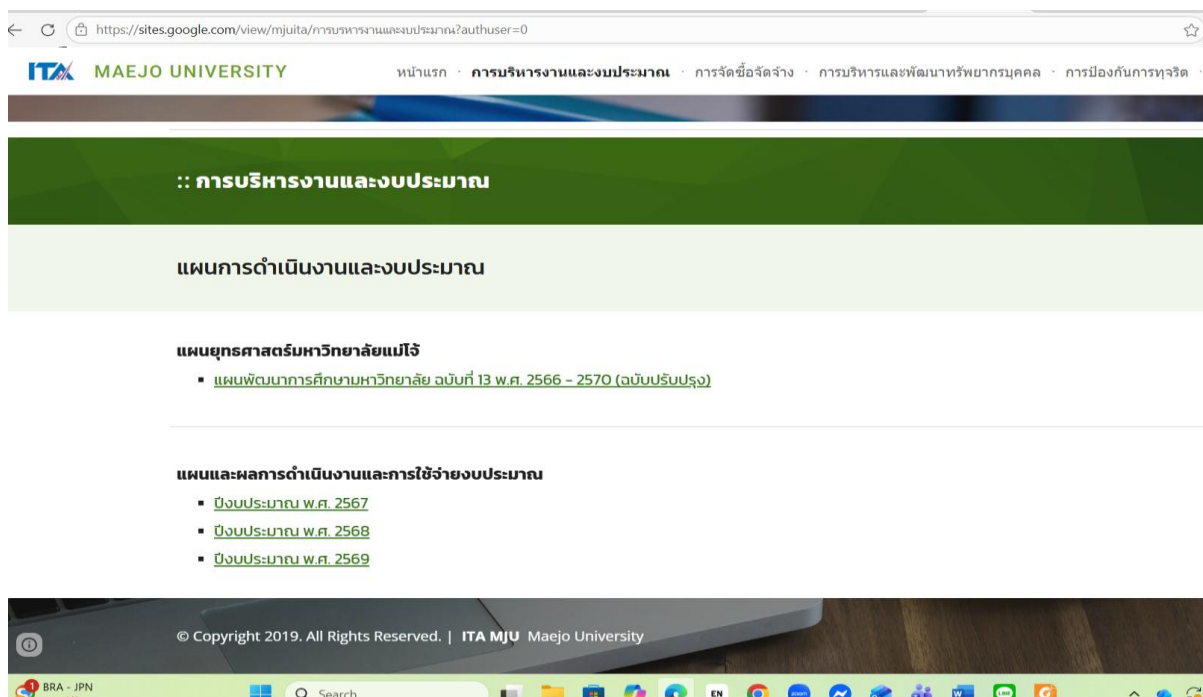
The average budget for **Energy Efficiency and Renewable Energy** was **USD 6,762.49**, representing **7.96%** of the sustainability budget. This category includes renewable-energy applications, solar-related activities, energy-saving projects, and energy-related sustainability innovation.

The remaining categories were smaller but still important. **Waste Reduction and Recycling** accounted for **USD 4,458.45**, or **5.25%**; **Facility Maintenance for Sustainability** accounted for **USD 3,052.37**, or **3.59%**; and **Carbon Management and Offsetting** accounted for **USD 364.81**, or **0.43%**. No clearly identifiable budget for Sustainable Transportation was found in the available annual performance reports.

Overall, the budget analysis shows that Maejo University's sustainability investment is concentrated mainly in academic-community engagement, sustainable procurement, green building initiatives, water conservation, and energy-related activities. The university demonstrates a systematic connection between its sustainability direction and project-based budget allocation, particularly through Green University, Green Office, organic agriculture, environmental management, community service, and sustainability education activities.

For future reporting, Maejo University will continue to improve its budget-tracking system by clearly tagging sustainability-related expenditures across all responsible units. This will include central Green University expenditures, utility-saving investments, renewable energy systems, water treatment and reuse systems, waste management operations, sustainable transportation, staff time allocation, and maintenance costs.

Additional evidence link : MAEJO UNIVERSITY - การบริหารงานและงบประมาณ



The screenshot shows the Maejo University website with the following content:

- Header: ITA MAEJO UNIVERSITY
- Navigation: หน้าแรก · การบริหารงานและงบประมาณ · การจัดซื้อจัดจ้าง · การบริหารและพัฒนาทรัพยากรบุคคล · การป้องกันการทุจริต
- Section: :: การบริหารงานและงบประมาณ
- Section: แผนการดำเนินงานและงบประมาณ
- Section: แผนยุทธศาสตร์มหาวิทยาลัยแม่โจ้
 - [แผนพัฒนาการศึกษามหาวิทยาลัย ฉบับที่ 13 พ.ศ. 2566 - 2570 \(ฉบับปรับปรุง\)](#)
- Section: แผนและผลการดำเนินงานและการใช้จ่ายงบประมาณ
 - [ปีงบประมาณ พ.ศ. 2567](#)
 - [ปีงบประมาณ พ.ศ. 2568](#)
 - [ปีงบประมาณ พ.ศ. 2569](#)
- Footer: © Copyright 2019. All Rights Reserved. | ITA MJU Maejo University

Percentage of university budget for sustainability efforts (GD1)

[1] $\leq 1\%$

The calculated three-year average sustainability budget percentage is **0.197%**

University-run sustainability website (GD2)

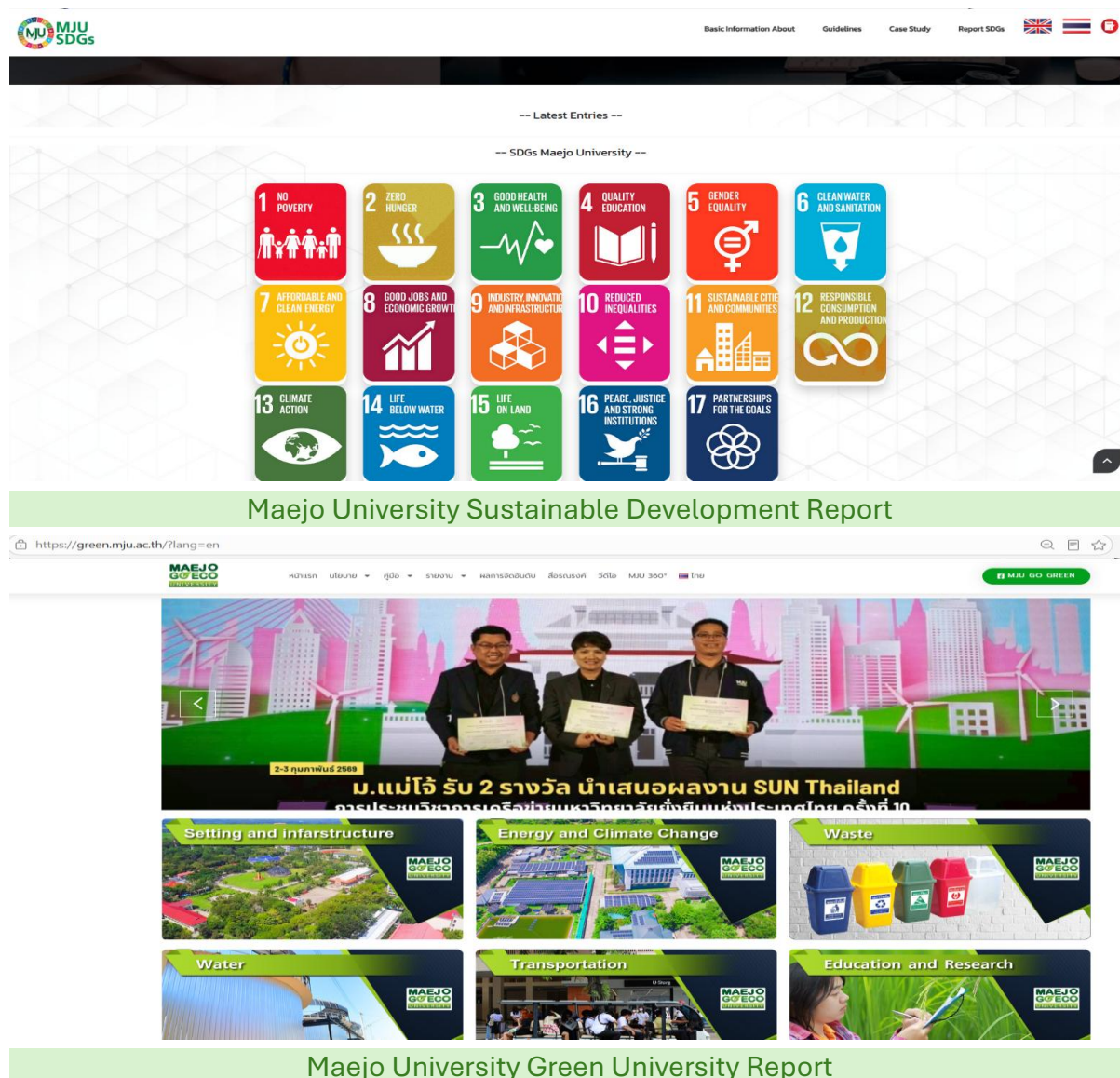
[5] Website is available, accessible, and updated regularly

Sustainability website address (URL)

Page	Website address	Evidence
Main Green University & Sustainable University website	https://green.mju.ac.th/?lang=en	Includes sustainability news and updates, such as carbon offset tree-health assessment in July 2025. (Maejo University Green)
Sustainability Report page	https://green.mju.ac.th/?lang=en&page_id=4956	States that Maejo University's sustainability report is available and updated annually. (Maejo University Green)
News & Green Activity page	https://green.mju.ac.th/?lang=en&page_id=3424	Shows updated sustainability activities, including Carbon Reduction Cycling, Car Free Day, waste sorting, Green Office, and environmental activities. (Maejo University Green)
SDG website	https://sdg.mju.ac.th	Referenced by Maejo University as part of its sustainability and SDG reporting system. (Maejo University Green)

Sustainability Report (GD3)

[5] Sustainability report is accessible and published annually



Additional evidence link : <https://sdg.mju.ac.th/>

Maejo University publishes an annual sustainability report to communicate its sustainability vision, strategy, policies, programs, implementation progress, targets, achievements, and continuous-improvement actions. The report covers the university's major sustainability dimensions, including Setting and Infrastructure, Energy and Climate Change, Waste Management, Water Management, Transportation, Education and Research, Community Engagement, and Institutional Governance.

The university's sustainability performance is publicly communicated through the Maejo University Green University Portal, the Maejo University SDG website, and the annual Green University Report, including the Operation Green University Report 2018-2025, and the Green Office Report. These platforms present evidence of sustainability

initiatives, SDG-aligned activities, environmental performance, contributions to research and education, and community engagement outcomes.

The annual sustainability reporting process supports transparency, accountability, stakeholder communication, and evidence-based decision-making. It also enables Maejo University to monitor progress, review achievements, identify areas for improvement, and strengthen its Green University development in alignment with the UI GreenMetric Sustainable University Rankings framework.

Complete text of Maejo University Green Report available on this link:
<https://green.mju.ac.th/?lang=en>

Complete text of Maejo University Sustainable Report available on this link:
<https://sdg.mju.ac.th/>

Additional evidence link : Maejo Green office: <https://greenoffice.mju.ac.th/>



Sustainability report

link address address (URL)

Sustainability Report page	https://green.mju.ac.th/?lang=en&page_id=4956	States that Maejo University's sustainability report is available and updated annually. (Maejo University Green)
SDG website	https://sdg.mju.ac.th	Referenced by Maejo University as part of its sustainability and SDG reporting system. (Maejo University Green)

Financial Report (GD4)

[5] Financial report is accessible and published annually



มหาวิทยาลัยแม่โจ้

รายงานของผู้สอบบัญชีรับอนุญาตและรายงานการเงิน
สำหรับปีสิ้นสุดวันที่ 30 กันยายน 2568

(The following is the report link: https://finance.mju.ac.th/goverment/20111119104835_finance/Doc_25690515111656_928749.pdf)

Annual regularity should be proven at least for the last 3 years

Maejo University prepares an official annual financial report in accordance with public-sector accounting standards and relevant financial reporting requirements. The financial report for the fiscal year ended **30 September 2025 (B.E. 2568)** includes the report of the certified public accountant and the university's financial statements.

The report presents key financial information, including assets, liabilities, net assets/equity, revenues, expenses, and changes in net assets/equity. It is formally certified by the university's authorized executives and reviewed by a certified public accountant. This demonstrates that Maejo University has a systematic and transparent financial reporting process.

For the fiscal year ended 30 September 2025, the financial report presents the following key figures:

Financial item	Amount (THB)
Total assets	7,446,811,475.16
Total liabilities	616,141,814.14

Financial item	Amount (THB)
Total net assets/equity	6,830,669,661.02
Total revenue	2,681,553,149.58
Total expenses	2,143,512,876.16
Revenue higher than expenses	538,040,273.42

The annual financial report supports transparency, accountability, and good governance by providing stakeholders with verified information on the university's financial position and financial performance.

Additional evidence link : https://finance.mju.ac.th/wtms_index.aspx?&lang=th-TH

เอกสารเผยแพร่

หน้าแรก / เอกสารเผยแพร่

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 รายงานงบการเงิน ประจำปีงบประมาณ 2561	pdf	1/6/2563 11:10:33
 รายงานงบการเงิน ประจำปีงบประมาณ 2562	pdf	1/6/2563 11:10:23
 รายงานงบการเงิน ประจำปีงบประมาณ 2563	pdf	7/4/2564 16:27:35
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 วิเคราะห์รายงานทางการเงิน ประจำปีงบประมาณ 2559	pdf	1/6/2563 11:10:51
 วิเคราะห์รายงานทางการเงิน ประจำปีงบประมาณ 2560	pdf	1/6/2563 11:10:57
 วิเคราะห์รายงานทางการเงิน ประจำปีงบประมาณ 2563	pdf	22/7/2564 11:10:47

Financial report link address (URL)

URL Link: https://finance.mju.ac.th/goverment/20111119104835_finance/Doc_25690515111656_928749.pdf

Availability of unit or office that coordinate sustainability on campus (GD5)

[5] Unit or office with a university leader decree of establishment, structure and duties has been operational and lead the university implementation of sustainability



Example of Maejo University Green Activities



คำสั่งมหาวิทยาลัยแม่โจ้
ที่ ๕๒๖ / ๒๕๖๔

เรื่อง แต่งตั้งคณะกรรมการขับเคลื่อนการจัดอันดับมหาวิทยาลัยสู่ความยั่งยืน
(SDG Impact Ranking Green University and Healthy University)

ณ วันที่คำสั่งมหาวิทยาลัยแม่โจ้ ที่ ๕๒๖/๒๕๖๔ ลงวันที่ ๒๐ สิงหาคม พ.ศ. ๒๕๖๔ ได้แต่งตั้งคณะกรรมการขับเคลื่อนการจัดอันดับมหาวิทยาลัยสู่ความยั่งยืน (SDG Impact Ranking Green University and Healthy University) ไปแล้ว นั้น ประกอบกับที่ประชุมคณะกรรมการขับเคลื่อนการจัดอันดับมหาวิทยาลัยสู่ความยั่งยืน ครั้งที่ ๑/๒๕๖๔ เมื่อวันที่ ๑๒ มิถุนายน พ.ศ. ๒๕๖๔ ได้มีมติเห็นชอบให้แต่งตั้งคณะกรรมการฯ เพิ่มเติม เพื่อให้มีความครบถ้วน

เพื่อให้การขับเคลื่อนการดำเนินงานในส่วนที่เกี่ยวข้องกับการจัดอันดับมหาวิทยาลัยสู่ความยั่งยืน ทั้ง SDG Impact Ranking Green University และ Healthy University เป็นไปด้วยความเรียบร้อย และบรรลุผลสำเร็จตามทิศทางและเป้าหมายในการพัฒนาวิทยาเขตของมหาวิทยาลัยและคำปณิธานในแผนบริหารมหาวิทยาลัยที่กำหนดไว้ อาศัยอำนาจตามความในมาตรา ๑๒ และมาตรา ๓๔ (๑) แห่งพระราชบัญญัติมหาวิทยาลัยแม่โจ้ พ.ศ. ๒๕๖๐ จึงให้ยกเลิคำสั่งมหาวิทยาลัยแม่โจ้ ที่ ๕๒๕๔/๒๕๖๔ ลงวันที่ ๒๐ สิงหาคม พ.ศ. ๒๕๖๔ และแต่งตั้งคณะกรรมการขับเคลื่อนการจัดอันดับมหาวิทยาลัยสู่ความยั่งยืน (SDG Impact Ranking Green University and Healthy University) ดังนี้

- | | |
|---|------------------|
| ๑. อธิการบดี
(รองศาสตราจารย์ ดร.วิรัช ทอชม) | ประธานกรรมการ |
| ๒. รองอธิการบดี
(รองศาสตราจารย์จักรพงษ์ พิมพ์พิมล) | รองประธานกรรมการ |
| ๓. รองอธิการบดี
(รองศาสตราจารย์ ดร.เบญจศักดิ์ ศรีเงินวง) | กรรมการ |
| ๔. รองอธิการบดี
(รองศาสตราจารย์ ดร.ชัยยศ สันตสุทธิกุล) | กรรมการ |
| ๕. รองอธิการบดี
(ผู้ช่วยศาสตราจารย์ ดร.ประภากร อารามาย) | กรรมการ |
| ๖. รองอธิการบดี
(ผู้ช่วยศาสตราจารย์ ดร.สุวิจิตร เตชะตันมัทธ) | กรรมการ |
| ๗. รองอธิการบดี
(ผู้ช่วยศาสตราจารย์ ดร.ปวีดา ศรีสุวรรณ) | กรรมการ |
| ๘. คณะบดีคณะเศรษฐศาสตร์ | กรรมการ |
| ๙. คณะบดีมหาวิทยาลัยแม่โจ้-แพร่ เฉลิมพระเกียรติ | กรรมการ |
| ๑๐. คณะบดีมหาวิทยาลัยแม่โจ้-จุกพร | กรรมการ |

๑๑. ประธานคณะกรรมการ...

- | | |
|--|----------------------------|
| ๑๑. ประธานคณะกรรมการ Dean Forum | กรรมการ |
| ๑๒. ประธานสภานักเรียน | กรรมการ |
| ๑๓. ผู้อำนวยการสำนักวิจัยและส่งเสริมวิชาการเกษตร | กรรมการ |
| ๑๔. ผู้อำนวยการสำนักบริหารและพัฒนาวิชาการ | กรรมการ |
| ๑๕. ผู้อำนวยการสำนักหอสมุด | กรรมการ |
| ๑๖. ผู้อำนวยการกองแผนงาน | กรรมการ |
| ๑๗. ผู้อำนวยการกองกายภาพและสิ่งแวดล้อม | กรรมการ |
| ๑๘. ผู้อำนวยการกองพัฒนานักศึกษา | กรรมการ |
| ๑๙. ผู้อำนวยการกองวิเทศสัมพันธ์ | กรรมการ |
| ๒๐. ผู้อำนวยการกองเทคโนโลยีดิจิทัล | กรรมการ |
| ๒๑. ผู้อำนวยการกองบริหารงานทรัพย์สินและกิจการพิเศษ | กรรมการ |
| ๒๒. ผู้ช่วยศาสตราจารย์ ดร.ปวีณา ฉัตรสูงเนิน | กรรมการ |
| ๒๓. ผู้ช่วยศาสตราจารย์ ดร.มูจินทร์ ผลจันทร์ | กรรมการ |
| ๒๔. ผู้ช่วยศาสตราจารย์ ดร.เยาวนิตย์ อารามาย | กรรมการ |
| ๒๕. อาจารย์ ดร.จันทิมา วิเศษใจเจริญ | กรรมการ |
| ๒๖. นายพิชิตพงษ์ ไขยโยชน์ | กรรมการ |
| ๒๗. ผู้ช่วยอธิการบดี
(ผู้ช่วยศาสตราจารย์ ดร.เสาวลักษณ์ ยอดคำ) | กรรมการและเลขานุการ |
| ๒๘. หัวหน้าฝ่ายขับเคลื่อนยุทธศาสตร์และโครงการพิเศษ | กรรมการและผู้ช่วยเลขานุการ |
| ๒๙. หัวหน้างานยุทธศาสตร์และติดตามประเมินผล
กองแผนงาน | กรรมการและผู้ช่วยเลขานุการ |
| ๓๐. นางกนกวรรณ เครือมณี | กรรมการและผู้ช่วยเลขานุการ |
| ๓๑. นางสาวศิริศุข ยุทธราชัย | กรรมการและผู้ช่วยเลขานุการ |
- โดยมีหน้าที่
๑. ศึกษากำหนดนโยบาย แนวทาง หลักเกณฑ์ การดำเนินการตามนโยบายการจัดอันดับมหาวิทยาลัยสู่ความยั่งยืน
 ๒. พิจารณาให้มหาวิทยาลัยสนับสนุน จัดสรร และอนุมัติทรัพยากรต่าง ๆ เพื่การดำเนินการที่เกี่ยวเนื่องกับการขับเคลื่อนการจัดอันดับมหาวิทยาลัยสู่ความยั่งยืน
 ๓. ติดตาม ตรวจสอบ และบริหารผลการดำเนินงานการจัดอันดับมหาวิทยาลัยสู่ความยั่งยืน
 ๔. พิจารณาแต่งตั้งคณะอนุกรรมการเพื่อผลักดันและขับเคลื่อนการดำเนินงานที่เกี่ยวข้อง
 ๕. ปฏิบัติหน้าที่ตามที่ได้รับมอบหมายจากอธิการบดี
- ทั้งนี้ ตั้งแต่วันที่ ๒๕ มิถุนายน พ.ศ. ๒๕๖๔

(รองศาสตราจารย์ ดร.วิรัช ทอชม)
อธิการบดีมหาวิทยาลัยแม่โจ้

The Committee for Driving Sustainable University Rankings, covering SDG Impact Ranking, Green University, and Healthy University

Maejo University has established a formal university-level mechanism to coordinate sustainability implementation across the institution. According to the official university order, Maejo University appointed the Committee for Driving Sustainable University Rankings, covering **SDG Impact Ranking, Green University, and Healthy University**. The committee is chaired by the President/Rector of Maejo University and

consists of vice presidents, deans, directors, representatives from faculties and offices, and relevant central administrative units.

The committee functions as the central sustainability governance body of the university. Its responsibilities include formulating policies, guidelines, and operational directions for sustainability ranking and implementation; supporting and allocating necessary resources; monitoring, reviewing, and reporting sustainability performance; appointing relevant subcommittees; and carrying out other duties assigned by the President/Rector.

Maejo University also assigns specific responsible offices to coordinate key sustainability dimensions. The **Planning Division** serves as the main coordinating unit for SDG-related work and SDG Impact Ranking. The **Physical and Environmental Resources Division** coordinates Green University implementation, including campus infrastructure, environmental management, energy, waste, water, transportation, and related green campus activities. The **Student Development Division** coordinates AUN Healthy University Rating (AUN-HUR) activities and student well-being initiatives.

In addition, Maejo University has a central sustainability committee composed of representatives from all faculties, colleges, offices, and supporting units. This structure enables university-wide participation, integrated planning, cross-unit coordination, and continuous monitoring of sustainability implementation. The President/Rector's role as chairperson demonstrates high-level leadership and institutional commitment to sustainability governance.

Therefore, Maejo University's sustainability coordination system is formally established by university order, has a clear structure and assigned duties, is operational, and leads the implementation of sustainability across the university.

Maejo University has formally assigned 32 staff members to coordinate sustainability initiatives at the university level. These members serve on the central committee for driving sustainability-related rankings and implementation, covering SDG Impact Ranking, Green University, and Healthy University. The committee is chaired by the President/Rector and includes representatives from all major faculties, offices, and central administrative units.

Number of dedicated staff members assigned to the unit or office responsible for coordinating sustainability initiatives on campus

Maejo University has formally assigned 32 staff members to coordinate sustainability initiatives at the university level. These members serve on the central committee to drive sustainability-related rankings and implementation efforts, including the SDG Impact Ranking, Green University, and Healthy University. The committee is chaired by the President/Rector and includes representatives from all major faculties, offices, and central administrative units.

Use of ICT for sustainability program planning, implementation, monitoring and evaluation (GD6)

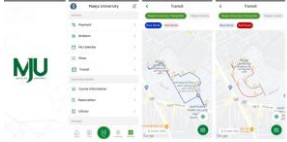
[5] Implemented, evaluated, and currently being revised/improved

Maejo University has implemented ICT systems to support the planning, implementation, monitoring, and evaluation of sustainability programs across several UI GreenMetric criteria. The ICT systems include digital platforms, dashboards, mobile applications, online reporting systems, data collection tools, and monitoring systems used for waste management, water management, energy/carbon monitoring, transportation management, KPI monitoring, and institutional sustainability reporting.

Section A — ICT for Sustainability Management

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
1	Waste and Wastewater Management Dashboard	Planning, Monitoring & Evaluation	Web-based dashboard used to collect, analyze, and visualize waste and wastewater management data. The system supports waste separation, collection tracking, recycling performance monitoring, and wastewater management reporting.	WASTE – MAEJO UNIVERSITY GREEN UNIVERSITY & SUSTAINABLE UNIVERSITY
2	Mobile Application for Waste Segregation	Implementation & Engagement	Mobile application developed to support waste sorting among students and staff. It provides waste-segregation guidance, supports awareness, and facilitates participation in campus waste management.	https://green.mju.ac.th/?p=2089

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
3	GIS Mapping and Digital Recycled-Water Reporting System	Planning & Monitoring	GIS and digital reporting tools are used to map recycled water use for irrigation and to support evidence-based planning for waste and wastewater management.	https://green.mju.ac.th/?page_id=4330
4	Maejo Greenhouse Platform	Planning, Monitoring & Evaluation	An online platform used by university units to record water consumption and related resource-use data. The data support water-use planning, greenhouse gas analysis, and sustainability performance monitoring.	https://greenhouse.mju.ac.th/
5	Smart Urinal Data Collection and Display System	Implementation, Monitoring & Improvement	Smart water-saving devices are installed at 100 locations. The system records usage statistics and water volume via a web-based data display. Monthly inspection and repair support continuous improvement.	https://green2.mju.ac.th/?page_id=4911
6	MJU Mobile Application for EV Shuttle Services	Implementation & Communication	Mobile application for displaying EV shuttle services and timetables. It supports low-carbon campus mobility and improves user access to transportation information.	Link: https://erp.mju.ac.th/informationDetail.aspx?newsId=3618

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
7	Traffic Volume and Transportation Data System	Monitoring & Improvement	ICT-supported transportation data are used to provide traffic volume updates and to support future monitoring of campus mobility and carbon-reduction outcomes. Data collection methods and evaluation metrics are being refined.	Screenshot 
8	Online Bicycle-Sharing Platform	Implementation Support	Online shared-bicycle platform supports sustainable transportation by providing access to bicycle-sharing services and encouraging low-carbon mobility on campus.	https://green2.mju.ac.th/?page_id=4931
9	Energy and Carbon Monitoring System / E-report Energy	Monitoring & Evaluation	Digital system used to track electricity consumption, analyze energy-use data, generate reports, and support cost reduction, regulatory compliance, and sustainability promotion.	https://erp.mju.ac.th/ecoDashboard.aspx?goID=174 
10	KPI Monitoring System	Planning, Monitoring & Evaluation	An online KPI system is used to monitor institutional performance, including sustainability-related indicators such as Green University ranking, SDG Impact ranking, energy use, and	Link: https://kpi-monitoring.mju.ac.th

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
			budget/resource sustainability.	
11	Project and Activity Monitoring System	Planning, Implementation & Reporting	An online system used to monitor university projects and important activities, including sustainability, Green University, and community-service projects.	Link: https://sgc.mju.ac.th
12	Internal Control System	Governance & Evaluation	Computerized internal control system supports institutional governance, internal control reporting, and standardized data collection at the university and unit levels.	We operate both in UI Green metric and SDGs report that available on website https://green.mju.ac.th/?page_id=3289&lang=en and https://sdg.mju.ac.th

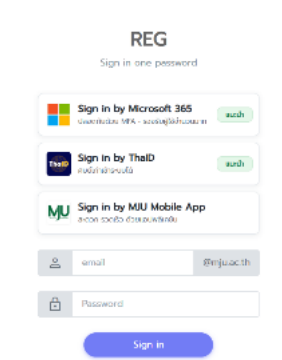
Section B — Connectivity Readiness

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
1	Campus-Wide Wi-Fi Infrastructure	Implementation Support	Wi-Fi infrastructure supports access to digital sustainability systems, dashboards, online reporting platforms, mobile applications, and cloud-based monitoring tools across the university.	https://maejonet.mju.ac.th/wtms_newsDetail.aspx?nID=22797&lang=th-TH
2	Internet Connectivity for Three Campuses	Continuity & Accessibility	Network connectivity supports sustainability reporting and monitoring across	การใช้งานระบบเครือข่ายไร้สาย (WIFI @MJU)

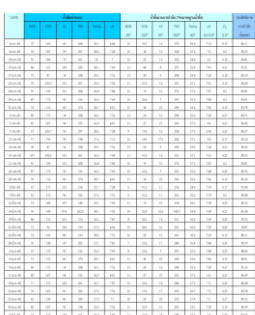
No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
			Maejo University's main campus and remote campuses. This enables units to access online systems for data submission, monitoring, and evaluation.	
3	MJU Mobile Application Connectivity	User Access & Engagement	MJU Mobile provides digital access to university services, including EV shuttle information and timetable, supporting sustainable transportation communication.	
4	Online Sustainability Data Submission Platforms	Planning & Monitoring Support	Web-based systems such as Maejo Greenhouse, KPI Monitoring, and SGC allow faculties and units to submit, update, and review sustainability data online.	Links: https://greenhouse.mju.ac.th/ ; https://kpi-monitoring.mju.ac.th ; https://sgc.mju.ac.th
5	Cloud-Based / Online Data Logging for Waste and Wastewater	Monitoring	Online data logging, IoT, and cloud-based monitoring are used for waste and wastewater data collection and analysis.	
6	Smart Device Connectivity	Monitoring & Maintenance	Smart urinal systems are connected to a	https://greenhouse.mju.ac.th/

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
	for Water-Saving Systems		data collection and display system that provides usage statistics and water-volume information via website.	
7	Transportation Data Connectivity	Monitoring & Improvement	Digital systems support traffic-volume updates, EV shuttle schedule communication, and future evaluation of transportation sustainability.	https://erp.mju.ac.th/informationDetail.aspx?newsId=3618
8	Network Monitoring System	Reliability Monitoring	Centralized network monitoring should be used to ensure uptime and reliability of sustainability platforms, reporting portals, dashboards, and mobile applications.	

Section C — Infrastructure Reliability and Security

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
1	Single Sign-On / Authentication System	Governance & Data Integrity	Centralized authentication supports secure user access to university digital systems and helps protect sustainability data submitted by faculties and units.	

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
2	Role-Based Access Control for Sustainability Platforms	Governance & Data Integrity	User access to sustainability dashboards and reporting systems is managed according to user roles, such as administrator, faculty/unit data owner, reviewer, and viewer. This supports data accuracy and accountability.	https://greenhouse.mju.ac.th/
3	Data Backup and Recovery System	Continuity	Backup and recovery procedures should be used to protect sustainability databases, dashboards, reports, and supporting evidence files.	https://it.mju.ac.th/wtms_document.aspx?bID=1659&lang=th-TH
4	Cybersecurity and Secure Web Access	Security	Cybersecurity measures, including secure web access and system protection, support the reliability of ICT systems used for sustainability management.	https://it.mju.ac.th/government/20111119104835_MJU_itc/Doc_25610907093610_195810.pdf
5	Internal Control System	Governance & Evaluation	The computerized internal control system supports institutional governance and standardized reporting at both the university and unit levels.	
6	Monthly System	Monitoring & Accountability	Waste and wastewater systems generate	Green Office Dashboard - Water Usage (หมวด 3.1)

No.	Initiative	Function	Brief Description	Screenshot or Link of Evidence
	Monitoring and Reporting		monthly digital monitoring reports, and results are reviewed by responsible units and university committees.	
7	Monthly Inspection and Maintenance of Water-Saving Devices	Evaluation & Improvement	Water-saving devices are inspected monthly. Damaged devices are repaired to maintain normal operation and improve system reliability.	https://greenhouse.mju.ac.th
8	Annual ICT System Review and Improvement	Evaluation & Improvement	ICT-supported sustainability systems are evaluated through dashboards, feedback forms, annual reports, and performance reviews. Results are used to revise targets, improve systems, and strengthen sustainability management.	
9	Refinement of Transportation Data Collection and Evaluation Metrics	Continuous Improvement	The transportation ICT system has been implemented, and the university is refining data collection methods and developing evaluation metrics to assess long-term environmental impact.	Total carbon footprint (CO2 emission in the last 12 months, in metric tons) – MAEJO UNIVERSITY GREEN UNIVERSITY & SUSTAINABLE UNIVERSITY

Additional evidence link :

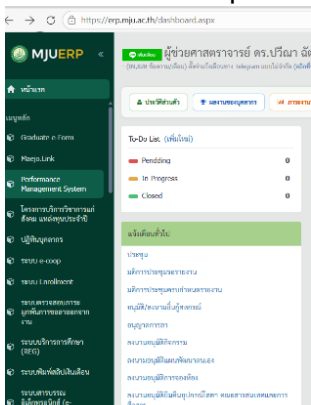
- Maejo Greenhouse Platform: <https://greenhouse.mju.ac.th/>
- KPI Monitoring System: <https://kpi-monitoring.mju.ac.th>
- Project and Activity Monitoring System: <https://3h.mju.ac.th/FirstPage>
- MJU Mobile / EV Shuttle Information:
<https://erp.mju.ac.th/informationDetail.aspx?newsId=3618>
- Maejo University Main Website: www.mju.ac.th
- Maejo Green University Website: <https://green.mju.ac.th/?lang=en>

Policy of advanced digital technologies usage, such as Artificial Intelligence and Internet of Things, to support decision-making, operational efficiency, and service delivery across university administrative and academic business processes. (GD7)

[5] Advanced and integrated implementation. Policy implemented institution-wide, systematically supports strategic decision-making, operational optimization, and service delivery, and is continuously evaluated and improved.

Maejo University has adopted an institutional digital transformation approach to support decision-making, operational efficiency, and service delivery. The university's implementation of advanced digital technologies is guided by the University Council's Digital University Development Framework, the Digital U Plan, the 2025 Digital Technology Operational Plan, and the MJU Digital 5 Platforms. These policy directions are translated into integrated digital systems, dashboards, databases, mobile applications, IoT/cloud-based monitoring, cybersecurity systems, and digital service platforms across the university's core functions.

No.	Initiative	Policy Basis	Implementation Scope	Evidence
1	MJU Digital 5 Platforms	University Council's Digital University Development Framework; Digital U Plan; 2025 Digital Technology Operational Plan	University-wide digital transformation covering integrated management, digital literacy, knowledge and technology development, digital services, and sustainable growth	https://green.mju.ac.th/?page_id=5027&lang=en
2	Single Data Platform	Policy to develop Maejo University	Centralized data integration for students, research, academic services,	https://green.mju.ac.th/?page_id=5027&lang=en

No.	Initiative	Policy Basis	Implementation Scope	Evidence
		toward a Digital University and establish centralized data integration	planning, and buildings	
3	MJU ONE MAP / Building Map	Digital infrastructure and smart campus policy under MJU Digital development	Land, property, infrastructure, public utilities, buildings, and campus planning	https://green.mju.ac.th/?page_id=5027&lang=en
4	ERP Enhancement and 9 ERP Modules	Digital Administration and Good Governance Policy	Core administrative operations, including planning, finance, performance, and institutional management	ERP - Maejo University
5	Financial Management Information System (AFS)	Digital Administration, Re-Design Process, and Good Governance policy	Finance and accounting management, budget control, and financial reporting	https://finance.mju.ac.th/wtms_document.aspx?bID=2652&lang=th-TH
6	Performance Management System (PMS)	Digital Administration and performance-based governance policy	Institutional performance monitoring, planning, reporting, and evaluation	https://erp.mju.ac.th/dashboard.aspx 

No.	Initiative	Policy Basis	Implementation Scope	Evidence
7	Power BI Student Dashboard	Data-driven decision-making policy under Digital University development	Student information monitoring for executives, faculties, and responsible units	 Links: https://erp.mju.ac.th/dashboard.aspx มหาวิทยาลัยแม่โจ้ งานทะเบียนและ สถิตินักศึกษา สำนักบริหารและ พัฒนาวิชาการ
8	Research Dashboard and e-Research ERP	Strategic Plan 2023–2027; research and SDG monitoring policy; digital transformation policy	Research administration, research funding, research output monitoring, and SDG-related research evaluation	https://dashboard.mju.ac.th/research
9	Electricity Usage Dashboard / E-report Energy	Energy-saving policy, Green Office policy, and digital sustainability monitoring policy	Electricity consumption tracking, energy-use analysis, carbon-related reporting, and decision support for energy efficiency	https://greenhouse.mju.ac.th/index.php
10	Greenhouse Dashboard / Maejo Greenhouse Platform	Green University policy, Green Office policy, and carbon management direction	Recording water consumption, resource-use data, greenhouse gas analysis, and sustainability performance monitoring	https://greenhouse.mju.ac.th/
11	IoT/Cloud-Based Waste and Wastewater Monitoring	Green and Sustainability Action Policy and Plan; waste and wastewater management plan	Waste volume tracking, recycling performance, wastewater treatment monitoring, and operational efficiency improvement	https://greenhouse.mju.ac.th/index.php

No.	Initiative	Policy Basis	Implementation Scope	Evidence
12	Mobile Application for Waste Segregation	Green and Sustainability Action Policy and Plan; 3R and zero-waste campus direction	Student and staff engagement in waste sorting, collection schedule communication, recycling campaign updates, and feedback collection	https://green.mju.ac.th/?page_id=5018&lang=en
13	Smart Water-Saving Devices and Smart Device Dashboard	Water-saving policy and Green Office policy	Smart urinal systems, water-use statistics, water-volume display, monitoring, inspection, and maintenance	WATER – MAEJO UNIVERSITY GREEN UNIVERSITY & SUSTAINABLE UNIVERSITY
14	MJU Mobile Application for EV Shuttle Services	Green and Smart Mobility Policy; ICT-enabled transportation management	EV shuttle timetable, route communication, campus mobility support, and low-carbon transport service delivery	Evidence showing MJU Mobile application for EV shuttle services and timetable: https://www.student.mju.ac.th/e-service
15	Digital Traffic Volume Updates and Vehicle Registration Database	Green and Smart Mobility Policy; low-carbon campus mobility policy	Gate control, traffic monitoring, vehicle management, and data-driven transportation planning	Evidence showing ICT-enabled transportation management and vehicle registration database: 
16	Online Shared Bicycle Platform	Green and Smart Mobility Policy; sustainable transportation policy	Bicycle-sharing service, usage tracking, and low-carbon mobility support	Evidence showing online shared bicycle platform integrated with AnyWheel Thailand: https://engineer.mju.ac.th/wtms_newsdetail.aspx?nid=27074&lang=th-TH
17	Single Sign-On, ThaiID Verification, Web Log Monitoring, IP	Cybersecurity and database security policy under Digital	Secure access control, identity verification, system security, and protection of	Evidence showing Single Sign-On, ThaiID verification via MJU Mobile App, monitoring web log, IP

No.	Initiative	Policy Basis	Implementation Scope	Evidence
	Blocking, and SSL Certification	University development	institutional digital services	blocking, and SSL renewal: MAEJO UNIVERSITY - E-Service
18	MJU MOOC and Digital Academy	Digital Academy policy and lifelong learning mission	Online learning, classroom-free education, lifelong learning, and digital access to knowledge	Evidence showing MJU MOOC with 7 knowledge areas, 39 courses, and more than 20,000 registered learners: https://www.student.mju.ac.th/e-service
19	E-Testing System and Electronic Examination Center Management System	Digital learning and service innovation policy	Academic administration, examination management, student services, and teaching-learning efficiency	https://www.mju.ac.th/en/Student_Page.html 
20	Chatbot and Digital Service Innovation Systems	Digital Service Innovation policy	Digital service delivery, user support, student/staff services, and process improvement	MAEJO UNIVERSITY - E-Service
21	Network Connectivity, VPN, UNICONN, and Wi-Fi Infrastructure	Digital infrastructure policy and university-level digital structure	Three-campus connectivity, online systems, reporting platforms, dashboards, and secure remote access	Evidence showing UNINET, NT Network, VPN Easy Connect, and Wi-Fi points across Chiang Mai, Phrae, and Chumphon campuses Link: https://www.student.mju.ac.th/e-service
22	MJU Datacenter and MJU Dashboard	Digital Platform and Digital Ecosystem policy	Integrated organizational management, data storage, dashboards, reporting, and decision support	Evidence showing MJU Datacenter, MJU Dashboard, UNICONN, AFS, PMS, MJU MOOC, prototype digital services, and mjumore platform

No.	Initiative	Policy Basis	Implementation Scope	Evidence
				Link: https://www.student.mju.ac.th/e-service
23	Online KPI Monitoring System	Institutional governance and SDG monitoring policy	University-level KPI tracking, SDG progress monitoring, performance reporting, and continuous improvement	https://sdg.mju.ac.th/index.html
24	Annual ICT System Evaluation through ERP-Based Surveys	Evaluation and continuous-improvement policy under Digital University development	Evaluation of ICT impact on teaching, learning, and administrative performance for academic and supporting staff	

Summary Statement

Maejo University demonstrates an institution-wide policy and implementation framework for advanced digital technologies. The university uses digital platforms, centralized databases, ERP systems, dashboards, mobile applications, IoT/cloud-based monitoring, smart devices, cybersecurity systems, digital learning platforms, and service innovation tools to support decision-making, efficiency, and service delivery. These technologies are implemented across core university functions, including student information, academic administration, research management, finance, performance management, infrastructure and facility operations, energy and carbon monitoring, water management, waste and wastewater management, transportation, digital learning, and institutional governance.

The evidence indicates that Maejo University's digital technology implementation has moved beyond isolated pilot projects. It is governed by institutional policy, operationalized through the MJU Digital 5 Platforms, monitored through dashboards and performance reports, and evaluated through ERP-based surveys and feedback systems. This demonstrates a mature digital governance model aligned with UI GreenMetric Governance and Digitalization criterion GD.7.

Compliance with the General Data Protection Regulation (GDPR) or Equivalent National Data Protection Regulations

[4] Compliance is fully implemented, monitored, and applied across most university units and digital systems

Maejo University complies with Thailand's Personal Data Protection Act B.E. 2562 (2019) (PDPA), the national data protection regulation equivalent to the GDPR for institutions in Thailand. The university applies PDPA-aligned practices to protect the personal data of students, staff, applicants, visitors, service users, and other stakeholders.

Maejo University's data protection governance is supported by institutional legal and administrative units, including the Legal Division, in coordination with relevant digital technology, information system, and service units. The university applies institutional practices for the collection, use, disclosure, retention, and protection of personal data in accordance with national data protection requirements.

Evidence of PDPA-aligned practice is evident in the university's dissemination of PDPA knowledge, privacy notices, digital security systems, access-control mechanisms, and ICT governance measures. Maejo University has published information on the Personal Data Protection Act (PDPA), including key compliance steps such as data discovery, privacy policy preparation, security measures, data transfer management, and appointment of a data protection officer. The university also provides privacy notices for specific data-collection contexts, such as CCTV Privacy Notice, which explains the purpose of CCTV data collection, the categories of data subjects, and the use of personal data for safety and asset protection.

In addition, Maejo University's digital governance systems include cybersecurity and access-control mechanisms such as Single Sign-On, ThaiID verification through MJU Mobile Application, web log monitoring, IP blocking, and SSL certification renewal. These measures support the confidentiality, integrity, and security of personal data processed through university information systems.

Concrete Evidence of Compliance

No.	Evidence Area	Description of Compliance Practice	Evidence
1	National Data Protection Regulation	Maejo University operates under Thailand's Personal Data Protection Act B.E. 2562 (2019), the national regulation governing the collection, use, disclosure, and protection of personal data.	https://law.mju.ac.th/wtms_index.aspx?&lang=th-TH
2	Institutional Responsible Unit	Data protection policy and legal compliance are managed through the Legal Division, in coordination with relevant administrative and digital technology units.	https://law.mju.ac.th/wtms_index.aspx?&lang=th-TH

No.	Evidence Area	Description of Compliance Practice	Evidence
3	PDPA Knowledge and Awareness	Maejo University has disseminated PDPA-related information to support awareness and institutional readiness. The published PDPA guidance identifies five key compliance steps: data discovery, privacy policy, security measures, data transfer, and appointment of a data protection officer.	https://maejo.net.mju.ac.th/wtms_newsDetail.aspx?nID=27487&language=th-TH
4	Privacy Notice Mechanism	Maejo University units provide privacy notices for specific personal data processing activities. For example, the CCTV Privacy Notice explains the collection of personal data through CCTV for the protection of life, health, and property.	CCTV Privacy Notice, Maejo University Library: CCTV Privacy – สำนักหอสมุด มหาวิทยาลัยแม่โจ้
5	Consent and Notice Mechanisms	Maejo University applies PDPA notice practices by informing data subjects of data collection purposes and relevant rights. PDPA guidance published by the university notes that organizations should prepare privacy policies and inform data subjects of the data collected, purposes, and rights including withdrawal of consent.	https://maejo.net.mju.ac.th/wtms_newsDetail.aspx?nID=27487&language=th-TH
6	Data Subject Rights	PDPA-aligned practice includes informing data subjects of their rights and providing channels for data subject requests. Library-related evidence also shows reference to a “Data Subject Rights Request Form.”	Library policy/menu evidence; Data Subject Rights Request Form reference: Data Subject Rights Request Form – สำนักหอสมุด มหาวิทยาลัยแม่โจ้
7	Security Measures	Maejo University applies digital security controls including Single Sign-On, ThaiID verification through MJU Mobile App, web log monitoring, IP blocking, and SSL certification renewal.	https://www.student.mju.ac.th/e-service
8	Secure Digital Services	University digital systems such as ERP, MJU Mobile, MJU MOOC, dashboards, and online platforms require controlled access and authentication, supporting secure processing of user data.	https://www.student.mju.ac.th/e-service

No.	Evidence Area	Description of Compliance Practice	Evidence
9	Data Governance and Monitoring	Maejo University uses centralized digital systems, dashboards, and ERP-based systems for institutional data management, monitoring, and evaluation. These support traceability, accountability, and secure management of digital records.	MAEJO UNIVERSITY - E-Service
10	Continuous Improvement	The university evaluates digital systems through ERP-based surveys for academic and supporting staff and uses feedback to improve digital services and governance systems.	https://erp.mju.ac.th/satisfy/index.aspx

Maejo University demonstrates compliance with national data protection regulations equivalent to the GDPR by aligning with Thailand's Personal Data Protection Act B.E. 2562 (2019). The university has assigned responsible legal and administrative units, including UCC's Office of Corporate & Legal Affairs, to support institutional compliance with data protection requirements. Evidence shows PDPA awareness communication, privacy notice mechanisms, references to data subject rights, secure access controls, cybersecurity measures, and digital governance systems.

The university's practices include informing data subjects about personal data collection and processing, applying privacy notices such as CCTV Privacy Notice, promoting PDPA awareness, implementing authentication and cybersecurity measures, and using secure institutional systems such as ERP, Single Sign-On, MJU Mobile, dashboards, and online reporting platforms. These measures demonstrate that Maejo University has established GDPR-aligned and PDPA-compliant practices to protect personal data across its operations.

Total Number of Institutional Leaders and Deputy Leaders at University, Faculty, Study Program, and University-Level Units

= 131 person

Item	Number
Number of employees	1,568
Number of academic staff	668
Number of senior academic staff	131
Number of female senior academic staff	68

Additional evidence link : คณะผู้บริหาร มหาวิทยาลัยแม่โจ้ ; [openFile.aspx](#)

Number of Female Representation on Leadership Position at University, Faculty, Study Program, and University-Level Units

Maejo University reports 68 female leaders holding leadership or deputy leadership positions. This figure is based on the number of female senior academic staff reported in the Maejo 2026 SDG Report. These female senior academic staff represent women in leadership-level academic roles across the university, including university-level, faculty-level, study-program, and academic-unit leadership positions.

Additional calculation: Female representation among senior academic staff:

$$68 \div 131 \times 100 = 51.91\%$$

Thus, women account for approximately **51.91%** of senior academic leadership positions.

Ratio of Female Leaders to Total Institutional Leaders (GD8)

[5] > 50%

Maejo University demonstrates strong female representation in institutional leadership and deputy leadership positions across the university, faculty/school, study program, and university-level units. Based on the reported leadership data, the university has 131 leaders and deputy leaders, 68 of whom **are female**.

The leadership distribution shows that female leaders are represented at different levels of the university structure. At the faculty/school level, **4 out of 18** leaders and deputies are female. At the study programme level, female representation is particularly strong, with **63 out of 101** leaders and deputies being female. At the university-level unit level, **1 out of 3** leaders and deputies is female. Although the current university executive level reports **0 female leaders out of 9**, the overall institutional leadership profile shows that women hold more than half of all leadership and deputy leadership positions.

Maejo University has **51.91% female representation in leadership positions**. This indicates that female leaders hold more than half of the university's institutional leadership and deputy leadership positions, reflecting the university's commitment to gender inclusion, equal opportunity, and balanced participation in governance and decision-making. The calculation is shown in the table below.

Leadership Level	Total Leaders & Deputies	Female Leaders & Deputies
University Level	9	0
Faculty / School Level	18	4
Study Program Level	101	63
University-Level Units	3	1
Total	131	68

Ratio of Female Leaders : $68 \div 131 \times 100 = 51.91\%$ female representation in leadership positions.

Additional evidence link :

- <https://www.mju.ac.th/th/Administrators.html>
- <https://www.mju.ac.th/th/Dean.html>
- <https://www.mju.ac.th/th/Directors.html>

Anti-Corruption and Integrity System of the University (GD9)

[5] The anti-corruption and integrity system has been implemented, evaluated, and is currently revised.

Maejo University has implemented an anti-corruption and integrity system that covers policy declarations, responsible units, complaint mechanisms, corruption risk management, ITA assessments, and awareness training. The university publicly communicates its No Gift Policy and commitment to transparent, accountable, and corruption-free administration. The Legal Affairs Division supports the university's ITA implementation and organizes anti-corruption training for staff. The university also applies corruption risk management using a COSO-ERM-based approach and monitors key risk areas, including financial disbursements, procurement, and misconduct. Integrity performance is evaluated through Thailand's Integrity and Transparency Assessment (ITA), which includes perceptions from internal and external stakeholders and open data disclosure. The system is currently being updated and strengthened through annual ITA activities, anti-corruption training, complaint guidance, and revised policy communication.



สรุปผลการประเมินรายตัวชี้วัด

ตัวชี้วัดที่	รายละเอียดตัวชี้วัด	คะแนน
1	การปฏิบัติหน้าที่	88.68
2	การใช้งบประมาณ	89.83
3	การใช้อำนาจ	98.42
4	การใช้ทรัพยากรของราชการ	86.87
5	การแก้ไขปัญหาการทุจริต	84.10
6	คุณภาพการดำเนินงาน	84.27
7	ประสิทธิภาพการสื่อสาร	75.37
8	การปรับปรุงการทำงาน	73.36
9	การเปิดเผยข้อมูล	95.00
10	การป้องกันการทุจริต	100.00

Example of anti-corruption and integrity system at Maejo University

Additional evidence link :

- <https://sites.google.com/view/mjuita/%E0%B8%AB%E0%B8%99%E0%B8%B2%E0%B9%81%E0%B8%A3%E0%B8%81>
- The Division of Legal Affairs: https://law.mju.ac.th/wtms_index.aspx?&lang=th-TH

Whistle Blowing and Complaint System of the University (GD10)

[5] Whistleblowing and complaint system has been implemented, evaluated, and is currently revised

Maejo University has a whistleblowing and complaint system that has been **implemented, evaluated, and is currently being revised/improved**. The system includes official complaint channels, written procedures for corruption and misconduct complaints, a responsible Legal Division, witness protection, complaint-handling steps, an anti-harassment policy, and reporting channels through the university website. The system is evaluated through the national ITA framework and improved through training, stakeholder feedback, and annual integrity-related activities.

Evidence Area	Implementation at Maejo University	Evidence / Link
Official complaint procedure for corruption and misconduct	The published guideline explains reporting channels, complaint acceptance criteria, complaint-handling steps, witness protection, and relevant regulations.	Guideline for Managing Complaints on Corruption and Misconduct. เข้าสู่ระบบ ศูนย์รับข้อร้องเรียนมหาวิทยาลัยแม่โจ้
Responsible unit	The Legal Division, Office of the University, is responsible for receiving complaints, conducting fact-finding, handling disciplinary and ethical investigations, following up on cases, and reporting to executives and relevant bodies.	Legal Division website and complaint guideline. (law.mju.ac.th)

Evidence Area	Implementation at Maejo University	Evidence / Link
Public complaint channels	The official Maejo University website provides a Complaint Center, a Direct Line to the President, Q&A, and website survey channels for stakeholders.	https://erp.mju.ac.th/complaintSignin.aspx
Whistleblowing and anti-corruption reporting	The complaint guidelines support both external and internal reporting of corruption and misconduct by university personnel.	https://law.mju.ac.th/wtms_contactDirect.aspx?&lang=th-TH
Protection mechanism	The complaint guideline includes witness protection as part of the complaint-management process.	Complaint guideline table of contents and procedure.
Sexual harassment reporting/prevention	The University declaration on prevention and resolution of sexual harassment in the workplace is published by the Legal Division.	Legal Division sexual harassment declaration evidence. (law.mju.ac.th)
Evaluation through ITA	The complaint and whistleblowing system is connected with the university's ITA process, with the Legal Division acting as secretariat for ITA implementation.	Legal Division ITA and anti-corruption activity evidence. (law.mju.ac.th)
Continuous improvement	The university organizes ITA training, exchanges good practices, and revises complaint and integrity mechanisms to	ITA training and exchange-learning activities. (law.mju.ac.th)

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https://erp.mju.ac.th/complainSignin.aspx?source=2VfdjOVBRPTO=

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รายงานข้อมูลสถิติการร้องเรียน

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ดาวน์โหลดแบบฟอร์ม
ไฟล์แบบฟอร์มข้อร้องเรียนและแสดงความคิดเห็น

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คู่มือการดำเนินการ
แนวปฏิบัติการจัดการสายตรงอธิการบดีมหาวิทยาลัยแม่โจ้

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คณะกรรมการ
คณะกรรมการพิจารณาข้อร้องเรียนจากหน่วยงานภายในและภายนอก และจากสายตรงอธิการบดี

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คู่มือการใช้งานระบบ
ขั้นตอนและวิธีการใช้งานระบบ

เข้าสู่ระบบด้วย Digital ID

ThaiID

แอปพลิเคชัน ThaiID

ขั้นตอนการติดตั้งหรือรายละเอียดเกี่ยวกับการใช้งานแอปพลิเคชัน ThaiID สามารถ [เรียนรู้เพิ่มเติมที่นี่](#)

MJU

แอปพลิเคชัน MJU Mobile App

ขั้นตอนการติดตั้งหรือรายละเอียดเกี่ยวกับการใช้งานแอปพลิเคชัน MJU Mobile App สามารถ [เรียนรู้เพิ่มเติมที่นี่](#)

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สำนักงานสภามหาวิทยาลัย มหาวิทยาลัยแม่โจ้
Office of the University Council, Maejo University

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ข้อเสนอแนะ-ข้อร้องเรียน

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หัวข้อเรื่อง

รายละเอียด

ผู้เขียน

☒ บุคคลทั่วไป

☐ นักศึกษา

☐บุคลากรภายใน

เบอร์โทรศัพท์ / มือถือ

E-mail

Facebook or Other

ป้อนตัวเลขที่ปรากฏข้างบ้านในช่อง

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LMS-Enabled Digital Literacy Program for Students and Staff (GD11)

[5] Program has been implemented, evaluated, and is currently revised

Maejo University has implemented LMS-enabled digital literacy programs for students, academic staff, and administrative staff through MJU MOOC, E-Testing, Digital Academy, ERP-based systems, and digital service platforms. The programs include online courses, self-learning modules, ICT competency assessment, digital content creation, AI-related learning, and training on digital systems for staff. The program has been evaluated through ERP-based surveys and institutional ICT performance reviews, and the results are used to revise and improve digital learning and service systems.



Examples of LMS-Enabled Digital Literacy Program: MJU e-Learnig

Additional evidence link : MJU e-Learnig

Maejo University has implemented LMS-enabled, platform-based digital literacy programs for students, academic staff, and administrative staff. The programs are delivered through institutional systems such as **MJU MOOC, E-Testing / ICT Standard Testing Center, Digital Academy, MJU ERP**, and other digital service platforms. These systems support self-paced learning, ICT competency testing, online courses, digital service training, and responsible use of digital technology.

Maejo University's ICT evidence shows that digital literacy development is part of the university's **MJU Digital 5 Platforms** and Digital University development. The university implemented digital literacy projects for students and staff, including **6 for students (7,283 participants) and 5 for staff**. The same evidence also reports **MJU MOOC** as part of the Digital Academy, with **7 knowledge areas, 39 courses, and 20,732 registered learners**, together with the development of an **Electronic Examination Center Management System, MJU E-Testing**, chatbot, and digital service innovation systems.

Maejo University also provides an official **MJU MOOC** platform that offers online courses, including technology-related learning. The public MJU MOOC site shows

courses such as **Canva** and **AI for public relations media design**, indicating that the platform supports digital and creative technology skills. The MJU MOOC login page also supports access through **ThaID** and **MJU Mobile**, showing integration with secure digital identity and mobile authentication.

For students, Maejo University provides ICT competency development through the course **“ICT MJU: Self-learning and ICT knowledge and skills assessment”**, offered via MJU MOOC. The course is categorized under information technology and is designed for Maejo University students, with **1,861 registrations** shown on the public course page. In addition, the **E-Testing / ICT Standard Testing Center** provides ICT training and examination schedules, supporting digital skills assessment and certification for students.

For lifelong learning and broader digital literacy, MJU MOOC also offers a course project on entrepreneurial and digital content-creator skills, including a digital literacy course with 1,220 registrations, as well as other online upskilling courses for students, staff, and the public. The SDG 2026 Answers report also confirms that Maejo University uses digital learning platforms as part of inclusive education, noting that the MJU Digital Library recorded 315,000 visits and that the MJU MOOC offered **26 free courses** to more than **1,000 learners nationwide** in 2024.

The program is also evaluated and improved. Maejo University’s ICT evidence indicates that the impact of ICT on teaching, learning, and administrative performance is evaluated through online ERP-based surveys of academic and supporting staff. These survey results are used to inform decision-making, resource allocation, and continuous improvement of digital systems.

Evidence Area	Implementation at Maejo University	Evidence / Link
MJU Digital 5 Platforms	Digital literacy is embedded in the university’s Digital University development and implemented through student and staff digital literacy projects.	https://www.student.mju.ac.th/e-service
MJU MOOC Platform	LMS-enabled platform providing online courses, self-paced learning, and digital upskilling.	https://mooc.mju.ac.th/(mooc.mju.ac.th)
MJU MOOC secure login	Supports digital access using ThaID and MJU Mobile authentication.	https://mjumooc.mju.ac.th/userIndex(mjumooc.mju.ac.th)
ICT competency course for students	“ICT MJU: Self-learning and ICT knowledge and skills assessment” is provided for Maejo University students through MJU MOOC.	https://mjumooc.mju.ac.th/courseDetail?course=1TVRFPQ%3D%3D(mjumooc.mju.ac.th)
E-Testing / ICT Standard Testing Center	Provides ICT training, testing, and examination schedules to support ICT skills assessment.	https://ict.mju.ac.th/(ict.mju.ac.th)
Digital literacy and content creator courses	Online upskilling project includes digital literacy and digital content creation courses for students, staff, and the public.	https://mjumooc.mju.ac.th/courseProject(mjumooc.mju.ac.th)
Digital literacy for students and staff	Evidence reports 6 student digital literacy projects with 7,283 participants and 5 staff digital literacy projects.	https://www.student.mju.ac.th/e-service

Evidence Area	Implementation at Maejo University	Evidence / Link
Digital Academy / MJU MOOC outcomes	MJU MOOC is reported with 7 knowledge areas, 39 courses, and 20,732 registered learners.	https://www.student.mju.ac.th/e-service
Digital learning for wider community	SDG 2026 report states MJU MOOC offered 26 free courses and the Digital Library recorded 315,000 visits in 2024.	https://sdg.mju.ac.th/



โปรแกรมลิขสิทธิ์



Written Code of Ethics that applies to university leaders, academic staff, administrative staff, and students (GD12)

[5] A written code of ethics applies to all groups, is fully implemented, regularly reviewed, and actively enforced through institutional mechanisms

Maejo University has a written code of ethics that applies to **university leaders, academic staff, administrative staff, and students**. The code is formally established through university regulations and supported by institutional mechanisms, including the Legal Division, grievance and complaint channels, whistleblower protection, anti-corruption and integrity systems, ITA assessment, internal audits, and ethics-related training. The evidence indicates that the code of ethics applies across the university community, is implemented and monitored, and is actively enforced through governance and accountability mechanisms.



ข้อบังคับมหาวิทยาลัยแม่โจ้
ว่าด้วยประมวลจริยธรรมของมหาวิทยาลัยแม่โจ้
พ.ศ. ๒๕๖๗

โดยที่เป็นการสมควรกำหนดให้มีข้อบังคับมหาวิทยาลัยแม่โจ้ ว่าด้วยประมวลจริยธรรมของมหาวิทยาลัย เพื่อเป็นการวางแนวปฏิบัติ ตามหลักธรรมาภิบาลในสถาบันอุดมศึกษา สำหรับนายกสภามหาวิทยาลัย กรรมการสภามหาวิทยาลัย ผู้บริหาร ผู้ปฏิบัติงานในมหาวิทยาลัย และนักศึกษามหาวิทยาลัยแม่โจ้ ให้สอดคล้องกับมาตรา ๒๐ แห่งพระราชบัญญัติการอุดมศึกษา พ.ศ. ๒๕๖๒ และข้อ ๑๗ ของแนวปฏิบัติตามหลักธรรมาภิบาลในสถาบันอุดมศึกษา ฉบับลงวันที่ ๒๐ ธันวาคม พ.ศ. ๒๕๖๔ และที่แก้ไขเพิ่มเติม (ฉบับที่ ๒) ฉบับลงวันที่ ๑๔ ธันวาคม พ.ศ. ๒๕๖๕ รวมถึงข้อ ๗ แห่งประมวลจริยธรรมข้าราชการพลเรือนในสถาบันอุดมศึกษา บุคลากร และผู้ปฏิบัติงานอื่นในสถาบันอุดมศึกษา ฉบับลงวันที่ ๓๐ กันยายน พ.ศ. ๒๕๖๕ ซึ่งออกตามความในข้อ ๖ วรรคหนึ่ง แห่งพระราชบัญญัติมาตรฐานทางจริยธรรม พ.ศ. ๒๕๖๒

อาศัยอำนาจตามความในมาตรา ๒๒ (๒) แห่งพระราชบัญญัติมหาวิทยาลัยแม่โจ้ พ.ศ. ๒๕๖๐ ประกอบกับมติที่ประชุมสภามหาวิทยาลัยแม่โจ้ ในการประชุมครั้งที่ ๖/๒๕๖๗ เมื่อวันที่ ๒๔ สิงหาคม พ.ศ. ๒๕๖๗ จึงออกข้อบังคับไว้ ดังต่อไปนี้

ข้อ ๑ ข้อบังคับนี้เรียกว่า “ข้อบังคับมหาวิทยาลัยแม่โจ้ ว่าด้วยประมวลจริยธรรมของมหาวิทยาลัยแม่โจ้ พ.ศ. ๒๕๖๗”

ข้อ ๒ ข้อบังคับนี้ให้ใช้บังคับตั้งแต่วันถัดจากวันประกาศเป็นต้นไป

ข้อ ๓ ในข้อบังคับนี้

“จริยธรรม” หมายความว่า ข้อประพฤติปฏิบัติ หรือประมวลความประพฤติ ที่นายกสภามหาวิทยาลัยแม่โจ้ กรรมการสภามหาวิทยาลัยแม่โจ้ ผู้บริหาร และผู้ปฏิบัติงานในมหาวิทยาลัย

ข้อ ๑๑ การส่งเสริมจริยธรรมให้คณะกรรมการธรรมาภิบาลและจริยธรรม ดำเนินการตามอำนาจหน้าที่ที่กำหนดในข้อบังคับมหาวิทยาลัยแม่โจ้ ว่าด้วยธรรมาภิบาล

ส่วนที่ ๒

การตรวจสอบ และบังคับใช้จริยธรรม

ข้อ ๑๒ กรณีการกระทำผิดจริยธรรมของนายกสภามหาวิทยาลัย กรรมการสภามหาวิทยาลัย และอธิการบดี ให้สภามหาวิทยาลัยเป็นผู้มีอำนาจพิจารณาและดำเนินการตามสมควร ในกรณีที่ปรากฏพยานหลักฐานชัดเจนว่า นายกสภามหาวิทยาลัย กรรมการสภามหาวิทยาลัย และอธิการบดีกระทำความผิดจริยธรรม ให้สภามหาวิทยาลัย มีอำนาจกล่าวตักเตือน หรือดำเนินการอื่น ๆ ตามที่เห็นสมควร

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ข้อ ๑๓ ในกรณีพบบุคคลใดนอกจากบุคคลตามข้อ ๑๒ ละเมิดเกี่ยวกับการไม่ปฏิบัติตามจริยธรรมในข้อบังคับนี้ ที่เข้าข่ายเป็นการกระทำความผิดทางจรรยาบรรณตามข้อบังคับมหาวิทยาลัยแม่โจ้ ว่าด้วยจรรยาบรรณ ให้ดำเนินการตามหลักเกณฑ์และวิธีการที่ข้อบังคับมหาวิทยาลัยแม่โจ้ ว่าด้วยจรรยาบรรณกำหนด

ประกาศ ณ วันที่ ๓ ตุลาคม พ.ศ. ๒๕๖๗

(นายอานวย ยศสุข)
นายกสภามหาวิทยาลัยแม่โจ้

Parts of Maejo University Regulation on the Code of Ethics of Maejo University B.E. 2567 (2024)



ACKNOWLEDGMENT

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Sustainable Development Goals