Sustainability Impact Ratings 2026

Annual Report on SDG7 Affordable and Clean Energy

7.2 University measures towards affordable and clean energy

7.2.5 Energy Wastage Identification in both Songkhla and Phatthalung Campus

Thaksin University has undertaken systematic energy management reviews with data driven approaches to energy usage efficiency, most notably through the "Annual Energy Management Evaluation Meeting" at the Phatthalung Campus (12 March 2024), carrying out institutional energy management reviews and structured evaluation processes. The meeting followed a structured 8-step institutional energy management framework, which includes:

- 1) energy policy and commitment
- 2) planning and data collection
- 3) energy review and analysis
- 4) identification of significant energy use (SEU) areas
- 5) implementation and operation
- 6) monitoring and measurement
- 7) evaluation and internal audit
- 8) management review and continual improvement



ประชุมทบทวน 8 ขั้นตอน การจัดการ พลังงานมหาวิทยาลัยทักษิณ วิทยาเขต พัทลุง ประจำปี 2567

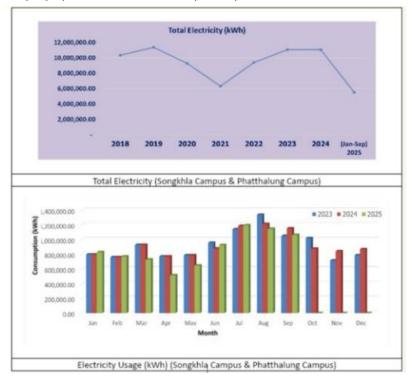
③ 179

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Sustainability Impact Ratings 2026

Through this 8-step process, the university reviews energy consumption data from each building and operational unit to identify where energy waste is most significant, such as areas with disproportionately high electricity usage or inefficient and outdated equipment. This monitoring method has been conducted in both campuses, reviewing energy consumption data and visualized through graphical data and campus reports.





TSU THAKSIN UNIVERSITY SUSTAINABILITY

Sustainability Impact Ratings 2026

As can be seen from the displayed graphs, a substantial amount of **energy reduction** has been shown over the past 5 years, with a growing percentage of energy used for university operations being solar power.

Public evidence: https://adminpt.tsu.ac.th/energy/index.php

Moreover, the UI GreenMetric Report demonstrates Thaksin University's adherence to the PDCA Process in energy management, as structured process displaying the university's ongoing efforts to enforce continuous improvement, energy usage efficiency, and sustainability goals as shown in the table:





Template for Evidence(s) UI GreenMetric Questionnaire

University : Thaksin University
Country : Thailand
Web Address : http://www.tsu.ac.th

[2] Energy and Climate Change (EC)

[2.15] Planning, implementation, monitoring and/or evaluation of all programs related to Energy and Climate Change through the utilization of Information and Communication Technology (ICT) (EC.11)

Step	Activity/Project	Use of ICT	Evidence	Period	Responsible Unit/Team	
Planning	nning Assessing the feasibility of implementing solar energy (Solar Rooftop) projects at both campuses		Study report on electricity consumption and assessment of suitable installation locations	Jan 2019 – Apr 2021	Energy Management Team, Facilities Management Division	
Implementation	Installation of Solar Rooftop systems at both campuses, totaling 10 locations	Project management software, installation planning tools	Installation records, energy generation data	Apr 2022 – Apr 2023	Energy Management Team, Facilities Management Division	
Monitoring	Monitoring energy generation and performance of the Solar Rooftop systems		Energy generation reports, performance analysis	Jun 2023 – Ongoing	Energy Management Team, Facilities Management Division	
Process Improvement	Analyzing the efficiency of renewable energy generation from Solar Rooftop systems and identifying insufficiency. Consequently, a 10 kWh Solar Floating system was installed to further reduce fossil-based electricity consumption. The system also serves as a model learning site for renewable energy and a recreational area for students and staff.	Energy production monitoring and analysis system	Installation report, electricity reduction data, performance analysis report	Jan 2025 – Dec 2027	Energy Management Team, Facilities Management Division	

TSU THAKSIN UNIVERSITY SUSTAINABILITY

Sustainability Impact Ratings 2026

The UI GreenMetric Report assists the university to develop all programs related to energy and climate change through the utilization of information and communication technology, in a structured procedural manner, thus creating an efficient cyclical development cycle for planning, implementation, monitoring and process improvement of new green technologies similar to other project management methodologies such as Agile.

Energy Conservation Measures and Targets for 2024

ตารางที่ 5.1 มาตรการและเป้าหมายในการดำเนินการอนุรักษ์พลังงาน ในรอบปี 2567

ลำดับ ที่	มาตรการ	เป้าหมายการประหยัด								200		
		ไฟฟ้า			เชื้อเพลิง			ร้อยละ	เงินลงทุน	1282		
		กิโดวัตต์	กิโลวัตต์-ชั่วโมง/ปี	บาท∕ปี	ชนิด	ปริมาณ (หน่วย/ปี)	หน่วยเชื้อเหลิง	บาท/ปี	ผลประหยัด	(บาท)	คืนทุน (ปี)	
ด้านไปฟ้า												
1	เปลี่ยนหลอดไฟล่องถนน เป็น Sola Cell	10.20	33,507.00	174,349.32					0.612	201,960.00	1.16	
2	เปลี่ยนหลอดไฟในสวนเป็น LED Solacell	0.50	2,207.52	11,486.54					0.040	134,000.00	11.67	
3	เปลี่ยนหลอดไฟล่องถนนลานโพ้นทะเล	0.70	3,942.00	20,511.68					0.072	27,480.00	1.34	
4	เปลี่ยน pump น้ำพุ	1.50	5,400.00	28,098.20					0.099	50,000.00	1.78	
5	ปิดไฟกลางวัน	0.90	38,880.00	202,307.02					0.710	202,307.02		
	รวมด้านไฟฟ้า		83,936.52	436,752.76				-	1.53	615,747.02	1.41	
ด้านความร้อน												
1												
2												
3												
4												
5												
	รวมด้านความร้อน		-	-		-		-		-		

หมายเหตุ: 1. ร้อยละผลประหยัด คิดเทียบจากข้อมูลการใช้พลังงานรวมในปีที่ผ่านมา

- 2. ธัตราค่าไฟฟ้าเฉลี่ย 5.20 บาฟกิโดวัตต์-รัวโมง (ปี 2566)
- 3. อัตราค่าเชื้อเหลิง บาฟ(ระบุหน่วย) (ปี 2566)