Annual Report

on SDG13 Climate Action

13.2 Low carbon energy use

13.2.1 Does your university as a body measure the amount of low carbon energy used across the university?

Thaksin University monitors solar electricity generation and manages electricity consumption through energy management systems at its Songkhla and Phatthalung campuses. These activities support the University's commitment to reducing carbon emissions, improving energy efficiency and promoting renewable energy under SDG 13: Climate Action.

1) Measurement and monitoring of low-carbon electricity

Thaksin University began recording electricity consumption from both conventional electricity supplies and solar photovoltaic systems in 2024. Its published institutional SDG 13 report indicates that solar-generated electricity accounted for approximately 11.90–17.99% of electricity consumption during the reported monitoring periods. These percentages refer to 2024 monitoring data and should not be presented as 2025 performance results.

The University maintains a solar rooftop electricity generation system at Phatthalung Campus with a reported installed capacity of 983.4 kW, distributed across six buildings. The official energy management website publishes monthly electricity generation figures in kWh, allowing renewable energy output to be measured and evaluated over time.

Public evidence:

TSU Energy Management System
https://adminpt.tsu.ac.th/energy/menu_detial.php?menu=4&mid=799

2) Low-carbon energy infrastructure at Songkhla Campus

Songkhla Campus has a solar photovoltaic installation with a capacity of 992 kWp. According to the University's Energy Conservation Unit, the Provincial Electricity Authority inspected and tested the system on 25 September 2024 and authorized its connection to the electricity distribution network. This was confirmed in an official announcement dated 6 August 2025.



Provincial Electricity Authority Launches a Solar Power Generation System

The installation provides renewable electricity infrastructure at Songkhla Campus. However, the grid connection announcement does not itself provide the total quantity of solar electricity consumed during 2025.

Public evidence:
https://skenergy.tsu.ac.th/detail.php?aNum=20250806135643&id_list=19

3) Institutional energy management and accountability

The University's Phatthalung Campus maintains an institutional energy management system covering electricity consumption, peak demand, energy conservation policies and solar electricity generation.

A university meeting document published in March 2025 confirms that electricity meters had been installed across campus buildings to support more accountable electricity management. It also records discussions concerning building-level electricity consumption and further development of solar rooftop electricity generation

https://adminpt.tsu.ac.th/energy/?utm

Meeting minute:
https://adminpt.tsu.ac.th/energy/upload/news/doc_20260309_151452_765ab1f1750e3dfe.pdf

3) Continued development of renewable energy in 2025

On 13 May 2025, Thaksin University reported the installation of a solar electricity generation system at the Institute of Academic Service Promotion in Phatthalung Province. This initiative represents continued investment in renewable energy infrastructure and supports the University's commitment to sustainable institutional operations. It also demonstrates the integration of clean energy technologies into facilities supporting academic services and community engagement.



Thaksin University Promotes Clean Energy by Installing Solar Power Systems to Drive Sustainability

Public evidence: https://sdg.tsu.ac.th/detail.php?aNum=20250719095944&id_list=1133

Monthly Electricity Generation by Building

ตารางแสดงปริมาณการผลิตพลังงานไฟฟ้ารายเดือนของแต่ละอาคาร

Month	อาคารวิศวกรรมพื้นฐาน	อาคารเฉพาะทาง1	อาคารเฉพาะทาง2	อาคารอินทนิล3	อาคารอินทนิล6	อาคารอินทนิล7	ผลรวมการผลิต
	Unit (kWh)						
1/8/2024							101,680.22
1/9/2024							102,809.19
1/10/2024							94,781.46
1/11/2024	14,648.10	11,395.50	11,734.30	11,008.60	12,856.10	11,380.48	73,023.08
1/12/2024	13,037.88	10,247.00	10,460.16	9,878.12	11,630.65	10,291.35	65,545.16
1/1/2025	16,781.18	13,214.88	13,550.61	12,731.56	14,962.62	13,170.82	84,411.67
1/2/2025	20,950.61	16,256.51	16,714.14	16,173.95	18,540.04	16,220.25	104,855.50
1/3/2025	24,292.15	18,510.66	19,050.56	18,718.99	20,868.29	18,545.25	119,985.90
1/4/2025	22,385.31	16,081.97	16,295.64	16,972.61	18,407.41	16,070.08	106,213.03
1/5/2025	20,207.46	15,555.88	15,509.28	14,859.10	16,486.79	15,154.60	97,773.11
1/6/2025	21,586.53	16,627.15	16,878.93	15,875.26	17,450.53	16,350.69	104,769.09
รวม	153,889.22	117,889.55	120,193.62	116,218.19	131,202.43	117,183.52	1,055,847.41

Public evidence:
https://adminpt.tsu.ac.th/energy/menu_detial.php?menu=4&mid=799

Thaksin University has established systems for measuring and monitoring low-carbon electricity generation, supported by solar photovoltaic installations, electricity metering and campus-level energy management arrangements. Its published energy records demonstrate that renewable electricity generation is measured quantitatively, rather than assessed solely through installed generation capacity.