

Annual Report on SDG7 Affordable and Clean Energy

7.4 Energy and the Community

7.4.2 100% renewable energy pledge

Thaksin University has demonstrated strong commitment toward the use of renewable energy, particularly through the installation of solar rooftop systems and the development of supporting infrastructure for clean energy. The university's goal is to reduce dependence on fossil fuels, decrease carbon emissions, and transition toward **100% renewable energy consumption** across its campuses in Phatthalung and Songkhla.

Policy and Implementation

1) EV Charging Stations

TSU Opens EV Charging Station with PEA VOLTA Platform

Driving the Future of Clean and Sustainable Transportation



Electric vehicles (EVs) are becoming a key solution for building a sustainable transportation system that meets long-term social and environmental needs. Their popularity continues to rise, with more users each day. Convenient and widely accessible EV charging stations throughout the city play an important role in encouraging greater EV adoption.

Thaksin University does not seek financial gain from this initiative. Instead, the goal is to provide a service area that benefits students and the public, enabling EV users to access clean energy at an affordable price.

This collaboration will help accelerate the transition of Songkhla and Phatthalung toward the use of sustainable clean energy, supporting the Sustainable Development Goals (SDGs) by ensuring access to affordable, reliable, and modern energy for all.

Public evidence:

<https://www.facebook.com/tsu.news.thaksin.university/posts/%E0%B8%A1%E0%B8%97%E0%B8%B1%E0%B8%81%E0%B8%A9%E0%B8%B4%E0%B8%93-%E0%B9%80%E0%B8%9B%E0%B8%B4%E0%B8%94%E0%B8%AA%E0%B8%96%E0%B8%B2%E0%B8%99%E0%B8%B5-ev-charging-station-%E0%B8%9E%E0%B8%A3%E0%B9%89%E0%B8%AD%E0%B8%A1%E0%B9%83%E0%B8%AB%E0%B9%89%E0%B8%9A%E0%B8%A3%E0%B8%B4%E0%B8%81%E0%B8%B2%E0%B8%A3-pea-volta-platform-%E0%B8%82%E0%B8%B1%E0%B8%9A%E0%B9%80%E0%B8%84%E0%B8%A5%E0%B8%B7%E0%B9%88/772895851705469/>

2) Solar Rooftop System Installation

In 2023, the university installed a 1,973-kilowatt solar rooftop system covering both Phatthalung and Songkhla campuses. The system generates clean solar energy for the university's operational use, helping transform Thaksin University into a Green and Sustainable University. 1 This initiative was officially launched in May 2023, marking a significant milestone toward the university's renewable-energy pledge.



Public evidence:

<https://www.tsu.ac.th/home/details.php?aNum=20231016071643&id=2981&gid=2>

3) Community Learning and Innovation Model

The project serves as a learning center for students, staff, and the surrounding community on clean energy management, environmental innovation, and sustainable living. It supports research and knowledge transfer in renewable energy systems.

4) Promotion and Awareness Campaign

The university has actively promoted the concept of clean energy through campaigns such as “TSU Green Heart” and through media outreach under the theme “Thaksin University Drives Clean Energy Forward.”



Thaksin University is actively installing solar rooftop systems with a total capacity of 1,973 kilowatts across its Phatthalung and Songkhla campuses. The clean electricity generated from rooftop solar energy will be used internally to support the University’s development toward becoming a green university and advancing the Sustainable Development Goals (SDGs).

This initiative serves as a model for surrounding communities, aiming to create a learning space that promotes research in clean energy, builds new knowledge, and fosters environmental innovation that can be transferred to society.

Public evidence:

<https://www.tsu.ac.th/home/details.php?aNum=20231016071643&id=2981&gid=2>

5) Integration with Waste-to-Energy Projects Beyond Solar Energy

Thaksin University has developed projects under the RDF (Renewable Derived Fuel) framework, converting waste into **renewable fuel energy**, supporting Thailand's **Circular Economy model**.

TSU Advances Environmental Sustainability by Converting Waste into Refuse-Derived Fuel (RDF), Promoting Efficient Resource Utilization in Line with the Circular Economy

Thaksin University is strengthening its commitment to environmental sustainability by transforming residual waste into Refuse-Derived Fuel (RDF), a renewable alternative energy source. This initiative supports the efficient use of resources and aligns with the principles of the circular economy, ensuring that waste is converted into value and reintegrated into the resource cycle.



TSU Strengthens Environmental Sustainability by Converting Waste into Refuse-Derived Fuel (RDF) under a Circular Economy Approach

A Southern Thailand Pioneer in Proper RDF Management, Targeting Zero Waste Within the Next Five Years

Thaksin University is advancing its environmental sustainability efforts by transforming leftover waste into Refuse-Derived Fuel (RDF), an eco-friendly alternative energy source aligned with circular economy principles. The University is also the first in Southern Thailand to implement proper RDF waste management systems.

With a clear commitment to sustainability, TSU has set an ambitious target to achieve Zero Waste within the next five years, reinforcing its role as a model for responsible resource management and environmentally conscious innovation.

Public evidence: https://sdg.tsu.ac.th/detail.php?id_list=199&aNum=20240318152728