

Annual Report on SDG13 Climate Action

13.3 Environmental education measures

13.3.1 Local climate-change education and awareness campaigns

Thaksin University places high importance on addressing climate change by fostering knowledge, awareness, and adaptive capacity within local communities. The university aims to reduce greenhouse-gas emissions and enhance carbon sequestration, supporting sustainable development and strengthening resilience to climate-related risks at the local level.

Through the Faculty of Science and Digital Innovation, the university continuously conducts **climate-education and awareness-raising activities via research and academic-service projects**. Recently, researchers at the faculty developed **a mobile application (Android-based)** capable of measuring tree height and calculating carbon storage with 95 % accuracy compared with a conventional clinometer. This innovative tool facilitates convenient and precise carbon-stock assessment and mitigates common measurement-reading errors. The application has been utilized to assess the carbon-sequestration potential of green areas in schools, communities, and local administrative organizations. Major related activities include:

1. Carbon-Sequestration Learning Activities

Various university units have organized educational projects on carbon-sequestration management, such as:

1.1 Workshop on “Carbon Management and Carbon-Sequestration Measurement Practices”

The Thaksin University Research and Innovation Institute, serving as the coordination center for the *Plant Genetic Conservation Project under the Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn (RSPG)*, conducted a hands-on workshop titled “*Carbon Management and Carbon-Sequestration Measurement Practices*.” Participants included teachers and students from local schools (e.g., Pa Phayom School, Thaksin University Demonstration

School), students from the Faculty of Community Technology and Development, and staff from Khok Muang Sub-district Municipality: a total of 105 participants.

The training enhanced **environmental awareness** and promoted the **use of modern technologies** such as mobile applications and clinometers for **carbon-sequestration** calculations. The acquired knowledge can be integrated into teaching, extended to community applications, and serve as the foundation for effective climate-change-adaptation skills.



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Public evidence: <https://www.dailynews.co.th/news/4508594/>

1.2 Project on “Cultivating Awareness for Natural Resource Conservation and Restoration”

The Faculty of Science and Digital Innovation, in collaboration with the Phatthalung Provincial Office of Natural Resources and Environment, organized educational activities for youth, the public, and members of the Village Natural Resource and Environmental Volunteer Network (TSM) across 11 districts in Phatthalung Province. Participants learned about plant specimen collection and **tree carbon-storage assessment**, raising community awareness of the importance of forest resources in mitigating climate change.





2. Agroforestry Promotion and Support for Carbon-Credit Systems

The Creative Agricultural Innovation Service Unit for Sustainable Area-Based Development (Faculty of Community Technology and Development) collaborated with the Kua Koon Agroforestry Network in Si Banphot District, Phatthalung Province. The initiative emphasized the value of agroforestry, sustainable resource utilization in agricultural landscapes, and the potential for adding value to rubber-plantation timber through carbon-credit systems.



Public evidence:

<https://www.facebook.com/watch?v=634165232847187>

<https://www.facebook.com/watch/?v=1287784905642616>

3. Campus Tree-Planting Activity

Thaksin University Phatthalung Campus, in collaboration with the Division of Student Affairs, organized a tree-planting event with 599 trees to increase shade and expand green spaces on campus. The initiative aimed to protect and restore the environment and serve as part of the university's contribution to combating climate change under the slogan "TSU Loves Trees."



Public evidence: <https://tsu.ac.th/home/details.php?id=3926>

4. Greenhouse-gas Reduction Initiative

In Academic Year 2024/1, Thaksin University Phatthalung Campus implemented a **shuttle-bus service** for staff, students, and pupils. The service operates daily around the campus, effectively **reducing individual vehicle use, energy consumption, and greenhouse-gas emissions.**



Public evidence:

<https://www.facebook.com/photo/?fbid=750570730604648&set=a.275303091464750>