Annual Report

on SDG2 Zero Hunger

2.2 Campus Food Waste

2.2.1 - Does your university as a body measure the amount of food waste generated from food served within the university? If food provision is outsourced this will include requiring this data to be tracked

Thaksin University systematically measures and monitors the amount of food waste generated from food services across the university, including facilities operated by outsourced food service providers. This institutional monitoring system forms an integral part of the university's Zero Waste Campus and Circular Campus initiatives, supporting sustainable waste management and resource efficiency.

Through systematic waste segregation at source, daily weighing and recording procedures, and institutional data management, **Thaksin University reports approximately 874 kg of food waste per day, equivalent to an estimated 319.01 metric tons per year.** Almost all collected organic waste is diverted from landfills and repurposed as animal feed for local farmers or processed into organic compost for use within the university.

1. Institutional Governance and Food Waste Monitoring Framework

Thaksin University has established an institutional framework for measuring and monitoring food waste generated from campus food services. The Landscape and Environmental Management Unit coordinates waste segregation, collection, weighing, and data monitoring activities across designated campus locations.

The university's food waste monitoring framework incorporates the following practices:

- **Source Segregation:** Dedicated organic waste collection containers are provided at designated dining facilities and campus collection points to facilitate the separation of food waste from other waste streams.
- **Daily Waste Measurement:** Collected food waste is weighed and recorded through daily waste collection procedures to support quantitative monitoring.
- **Institutional Data Management:** Food waste measurement data are compiled to support monitoring of campus waste generation and the evaluation of waste management practices.
- **Outsourced Food Service Monitoring:** External food service providers are required to comply with institutional waste segregation procedures and cooperate with food waste collection and weighing activities.

The university monitors food waste through seven designated collection locations:

1. Student Canteen Building 1 (Outsourced Food Services)
2. Student Canteen Building 2 (Outsourced Food Services)
3. Student Canteen Building 3 (Outsourced Food Services)
4. Student Dormitory Canteen Building (Outsourced Food Services)
5. Central Administration and Office Building
6. University Health Center
7. Student Residential Complex

These monitoring locations provide a framework for collecting quantitative information on food waste generated from university food services and associated campus activities.

Public evidence:
https://sdg.tsu.ac.th/detail.php?aNum=20251124125448&id_list=1417&
https://m.tsu.ac.th/Files6768/1751017751_f8132bbfcd437de8_____.pdf?

2. Food Waste Monitoring Requirements for Outsourced Food Service Providers

Thaksin University recognizes that effective institutional food waste monitoring must include food services operated by external providers.

The university's Terms of Reference (TOR) and service agreements for outsourced food service providers establish requirements for waste segregation and cooperation with institutional food waste collection and weighing procedures.

Four major food service facilities are operated by outsourced providers, namely Student Canteen Buildings 1, 2, and 3, and the Student Dormitory Canteen Building.

By incorporating these facilities into its food waste monitoring framework, the university seeks to ensure that food waste generated through outsourced food provision is included in institutional waste measurement and reporting.

Public evidence:
https://sdg.tsu.ac.th/detail.php?aNum=20251124125448&id_list=1417&
https://m.tsu.ac.th/Files6768/1751017751_f8132bbfcd437de8_____.pdf?

3. Quantitative Measurement of Campus Food Waste

Thaksin University reports the quantity of food waste generated across seven designated campus collection locations.

The reported operational baseline indicates that approximately **874 kg of food waste is generated daily**, corresponding to an annualized estimate of **319.01 metric tons** based on a 365-day calculation.

Food Waste Measurement Indicator	Reported Quantity
Number of monitored collection locations	7 locations
Average daily food waste	874 kg/day
Estimated monthly food waste (30 days)	26.22 metric tons



These figures provide a quantitative baseline for monitoring campus food waste generation and supporting institutional waste management planning.

4. Food Waste Recovery and Circular Resource Management

In addition to measuring food waste generation, Thaksin University promotes the recovery and beneficial use of collected organic waste through its Circular Campus initiative.
Almost all collected organic waste is diverted from landfill disposal through two principal resource recovery pathways.

4.1 Community Livestock Feed Program

A substantial proportion of collected food scraps is distributed to local farmers for use as livestock feed, including feed for pigs, chickens, and ducks. The reported operational waste management summary identifies approximately 621 kg/day of collected food waste directed toward this pathway, representing approximately 71.1% of the reported daily food waste stream. This practice

supports the beneficial use of food waste and contributes to resource circulation between the university and surrounding agricultural communities.

4.2 On-Campus Organic Composting

Food waste not allocated to livestock feed is directed toward organic composting activities. The reported operational summary identifies approximately 253 kg/day of food waste used for composting, representing approximately 28.9% of the daily food waste stream. The food waste is combined with suitable organic materials, including campus landscape waste and cattle manure, and processed into organic compost for campus landscaping and agricultural applications. These resource recovery activities support the university's efforts to reduce organic waste disposal and promote sustainable resource management.

5. Supporting Evidence and Institutional Documentation

Thaksin University provides public information on its food waste management and circular resource initiatives through the following institutional sources:

5.1 Thaksin University Zero Food Waste Performance Report

https://www.tsu.ac.th/home/details.php?id=5599