



UI GreenMetric Questionnaire

University : SONGKHLA RAJABHAT UNIVERSITY
Country : Thailand
Web Address : www.skru.ac.th

[2] Energy and Climate Change (EC)

[2.10] Greenhouse gas emission reduction program (EC.7)



1. Workshop and seminar project for the Green Office competition.

- Scope 1 (Direct Emissions): Direct GHG emissions resulting from mobile combustion, specifically from the university's internal transportation and transit systems.

Workshop and seminar project for the Green Office competition.



2.renewable energy

- Scope 2 (Energy Indirect Emissions): Indirect GHG emissions derived from purchased energy, primarily focusing on electricity consumption across all campus buildings and infrastructure.

renewable energy



3. Waste management

- Scope 3 (Other Indirect Emissions): Other indirect GHG emissions embedded in the university's value chain, including solid waste management (via incineration or landfilling) and wastewater treatment processes.



4.EV Shuttle Bus

Description:

1. Principles and International Standard

Songkhla Rajabhat University has audited its institutional activities and identified sources of direct and indirect greenhouse gas (GHG) emissions. There are policies regarding the reduction of greenhouse gases. This inventory strictly adheres to the Greenhouse Gas Protocol (GHG Protocol), the globally recognized corporate accounting and reporting standard for both public and private sectors, jointly developed by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD). The university's emissions are categorized into three scopes:

- Scope 1 (Direct Emissions): Direct GHG emissions resulting from mobile combustion, specifically from the university's internal transportation and transit systems.
- Scope 2 (Energy Indirect Emissions): Indirect GHG emissions derived from purchased energy, primarily focusing on electricity consumption across all campus buildings and infrastructure.
- Scope 3 (Other Indirect Emissions): Other indirect GHG emissions embedded in the university's value chain, including solid waste management (via incineration or landfilling) and wastewater treatment processes.

2. Decarbonization Initiatives and Mitigation Actions

To advance toward a sustainable green campus, the university has integrated targeted action plans structured to directly mitigate emissions across the three designated scopes:

- Mitigation for Scope 1 (Transportation):



- *EV Shuttle Bus Deployment:* Implementing zero-emission Electric Vehicle (EV) shuttle buses for complimentary student and staff commutes within the campus, effectively reducing fossil fuel consumption and localized emissions.
- Mitigation for Scope 2 (Electricity Consumption):
 - *Solar Photovoltaic (PV) Rooftop Systems:* Generating clean solar energy for building operations and essential campus systems to displace grid-tied electricity, thereby lowering the institutional carbon footprint and reducing utility costs.
 - *Green Office Initiative:* Fostering environmental awareness and modifying staff behaviors to optimize energy conservation and resource efficiency within administrative offices.
- Mitigation for Scope 3 (Waste and Wastewater Management):
 - *Comprehensive Waste Management and Sorting Campaigns:* Enhancing campus-wide awareness regarding source separation. This initiative reduces overall waste volume, promotes profitable recycling streams, and minimizes the volume of waste directed to landfills or incinerators, thereby mitigating secondary methane and carbon dioxide emissions.