



# UI GreenMetric Questionnaire

University : Kamphaeng Phet Rajabhat University  
 Country : Thailand  
 Web Address : www.kpru.ac.th

## [2] Energy and Climate Change (EC) [2.10] Greenhouse gas emission reduction program

	
<p>Green Office</p>	<p>Waste bank project</p>
	
<p>Water source development project for the plant and animal conservation</p>	<p>Producing compost management</p>
	
<p>Reducing gas emissions campaign</p>	

**Description:**

Kamphaeng Phet Rajabhat University surveys the data of activities and determine both direct and indirect the resources of the gas emissions according to GHG Protocol which is the standard of greenhouse



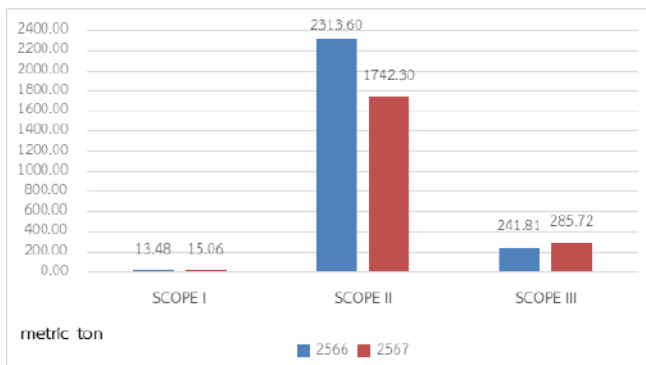
gas accounting for both public and private sectors, developed by World Resource Institute (WRI) and World Business Council for Sustainable Development (WBCSD). The gas emissions are divided into 3 scopes

Scope 1	Combustion from mobile sources	A combustion from transport system within university.
Scope 2	Electricity consumption	Indirect greenhouse gas emissions from electricity production and used within university
Scope 3	waste	Indirect greenhouse gas emissions from incineration or landfill of waste
	Waste water	Indirect greenhouse gas emissions from discharge the waste water

Reducing greenhouse gas emissions activities are

1. Green office: adjusting behaviors in the office to reduce the power usage and environment friendly.
2. Raise awareness and Waste segregation management and campaign
3. Waste Bank: to increase value of waste that can be recycled and become profitable, and reduce waste within university.
4. Water source development project for the plant and animal conservation: to reduce waste in the canals within university, increase water flows, air flows and water quality.
5. Sufficient kitchen plants demonstration garden from organic food waste management (leftovers, leaves, grass and weeds)
6. Energy saving: change electric device into power saving mode such as LED light bulbs, inverter air-conditioning and use alternative energy resource such as solar panels installation to generate electricity from sunlight for buildings, and the Solar Street lamps installation along the pathways in the university."

Due to these activities, the university has significantly improved its environmental management and reduced the organization's greenhouse gas emissions, as shown in the graph below:



According to the graph comparing greenhouse gas emissions between 2023 and 2024, it shows a significant decrease in Scope 2 emissions (gas emissions from electricity usage). In 2023, emissions were originally 2,313.60 metric tons, which decreased to 1,742.30 metric tons in 2024, representing a reduction of 24.69%. Although greenhouse gas emissions for Scope 3 are slightly higher than the previous year, the subcategories for waste and wastewater discharge indicate that emissions from wastewater decreased from 20.70 metric tons in 2023 to 19.48 metric tons in 2024

