



## Template for Evidence(s) UI GreenMetric Questionnaire

University : Srinakharinwirot University (Ongkharak Campus)  
Country : Thailand  
Web Address : [https://www.swu.ac.th/en/gen\\_info.asp](https://www.swu.ac.th/en/gen_info.asp)

### [2] Energy and Climate Change (EC)

#### [2.11] Total Carbon Footprint (CO<sub>2</sub> emission in the last 12 months, in metric tons)

Greenhouse gas, GHG, emission is derived from variety of the sources categorized into 3 scopes. Here are the examples of related attempts to reduce GHG emission in each scope.

Scope 1: Pyrolysis and biomass programs, initiated by the faculty of Engineering, are intended for the reduction of GHG emitted in terms of stationary combustion



Scope 2: The launch of ZEVs helping comfort the students and staff as well as solar panels installed throughout the campus is highly in concern of the university in attempts of reducing GHG emission.





Scope 3: The university has a potential to conserve and produce the water, distributed to all the members on the campus for their sufficient water consumption (not for drinking). This can help reduce the dependence on water purchase from off-campus water producers, leading to the decline in GHG emission. The university, furthermore, often holds online conference to reduce the travel cost.



Here is the sum of CO2 emission in the last 12 months.

Co2 (electricity)	= (15,876,566 / 1000) x 0.84 = 13,336.32 metric ton
Co2(bus)	= (20*108*2*240/100) *0.01 = 103.68 metric ton
Co2(cars)	= (580*2*2*240/100) *0.02= 111.36 metric ton
Co2(motorcycle)	= (906*2*2*240/100) *0.01= 86.98 metric ton
Co2(total)	= 13,336.32 + 103.68 + 111.36 + 86.98 = 13,638.33 metric ton

**Calculation of SWU (Ongkharak Campus) carbon footprint calculation using formula provided by UI GreenMetric**

**Description:**

SWU's (Ongkharak Campus) total carbon footprint for the previous 12 months was 13,638 metric tons.