

# SUSTAINABILITY ANNUAL REPORT 2022



Sukhothai Thammathirat Open University

https://green.stou.ac.th/

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## Message from STOU President



ASSOC. PROF. DR. MANIT JUMPA Distinguished Member of the University Council Acting President Sukhothai Thammathirat Open University

At Sukhothai Thammathirat Open University, "Green" has become a buzzword over past few years and "Sustainability" is more concerned with the future. Across our lifetime in a world that is constantly changing, the direction for driving Thailand towards the "Security, Prosperity, Sustainability" goal is set in the 20-year National Strategic Plan. Thailand has also made considerable strides in the area of inclusive and sustainable development.

To embrace the opportunities of this ever-shifting world, STOU has emerged the stronger identity of the university. Sustainable Development Goals become an integral role in our university's sustainability strategy since we have leveraged our position as a sustainable university.

We focus on provision of academic services through knowledge integration for the communal, societal and national prosperity and sustainability. We are committed to raising our personnel and students' awareness, promoting sustainable development, operating sustainable campus, activating research and imbedding sustainability into our teaching and daily life.

STOU continue to confront pandemic, climate change as well as social, economic, environmental and structural disparities. We are now beginning to see beyond the complicated and intertwined challenges of SDGs in order to achieve our sustainable internationalization and value creation.

# Introduction

"STOU IS COMMITTED TO PROVIDING EQUITY AND QUALITY LIFELONG LEARNING FOR ALL TO RESPOND TO SUSTAINABILITY IN THE DIGITAL AGE."



# University Strategy for Sustainability



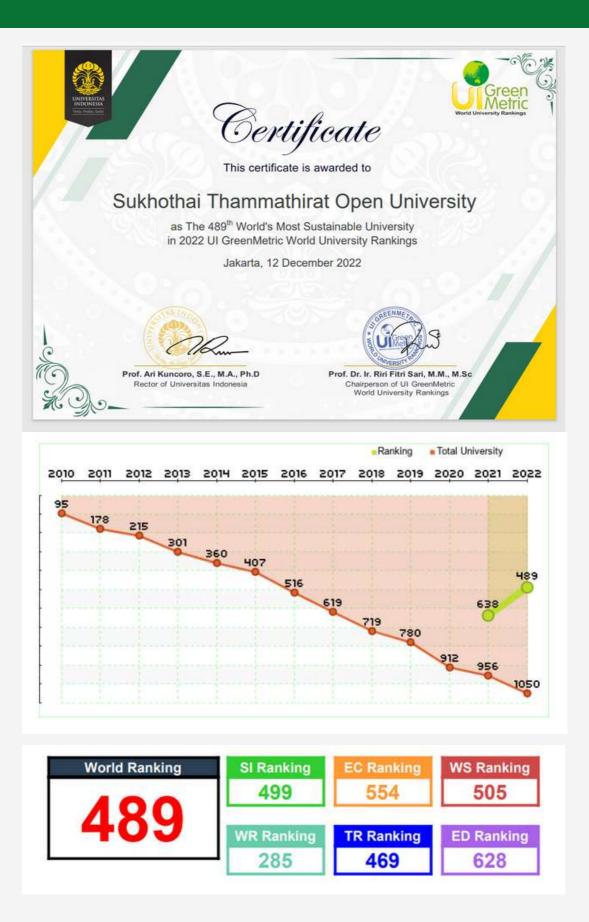
### Mission 5

Develop the university to achieve security, prosperity, and sustainability under good governance principles

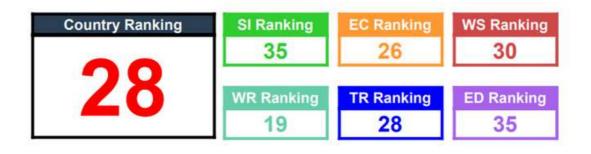
### Strategy 12

- Physical Infrastructure Development for Sustainable University
- STOU Green & Clean
- Smart Campus
- Infrastructure Development

### World Rankings in 2022 (1,050 Universities)



### Thailand Rankings in 2022 (47 Universities)





Ranking 11	University	Country	11	Total Score 11	Setting and Infrastructure	Energy and Climate Change	Waste 1	Water 11	Transportation 1	Education 1
9	Kasetsart University	Thailand		8650	1175	1675	1575	900	1600	1725
14	Mahidol University	Thailand		8585	1160	1600	1575	950	1675	1625
21	King Mongkut's University of Technology Thonburi	Thailand		8375	1250	1675	1425	650	1700	1675
25	Suranaree University of Technology	Thailand		8375	1325	1425	1650	850	1525	1600
37	Mahasarakham University	Thailand		8200	1300	1525	1275	800	1550	1750
38	Siam University	Thailand		8200	1125	1450	1425	850	1600	1750
45	Walailak University	Thailand		8125	1350	1475	1425	850	1650	1375
50	Mae Fah Luang University	Thailand		8060	1300	1360	1350	850	1550	1650
53	Rajamangala University of Technology Thanyaburi (RMUTT)	Thailand		8025	1100	1625	1500	950	1450	1400
71	Dhurakij Pundit University	Thailand		7835	960	1575	1575	750	1375	1600

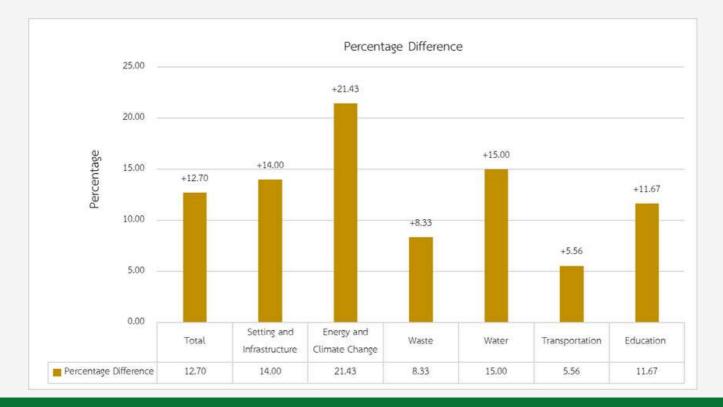
#### 26-30

Ranking 11	University	Country 1	Total Score 11	Setting and Infrastructure	Energy and Climate Change	Waste 11	Water 11	Transportation 1	Education
245	Huachiew Chalermprakiet University	Thailand	6125	925	1450	1200	400	1050	1100
249	Loei Rajabhat University	Thailand	6105	955	1000	900	650	1400	1200
254	Sukhothai Thammathirat Open University	Thailand	6070	910	1075	1050	750	1175	1110
255	Prince of Songkla University	Thailand	6065	1030	960	900	750	1100	1325
259	Pibulsongkram Rajabhat University	Thailand	6050	1075	1200	750	700	1325	1000

#### Sukhothai Thammathirat Open University

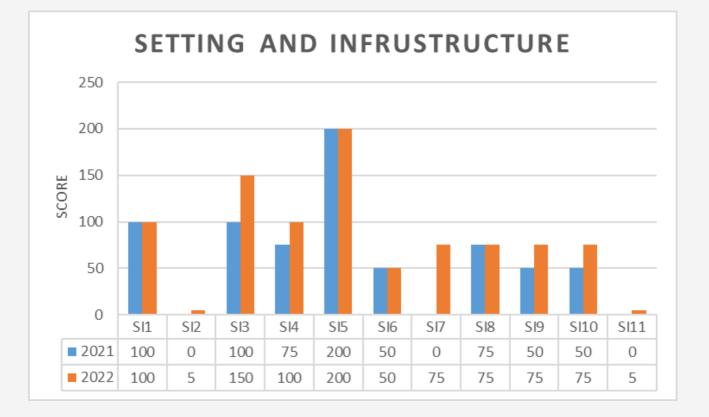
#### https://green.stou.ac.th/



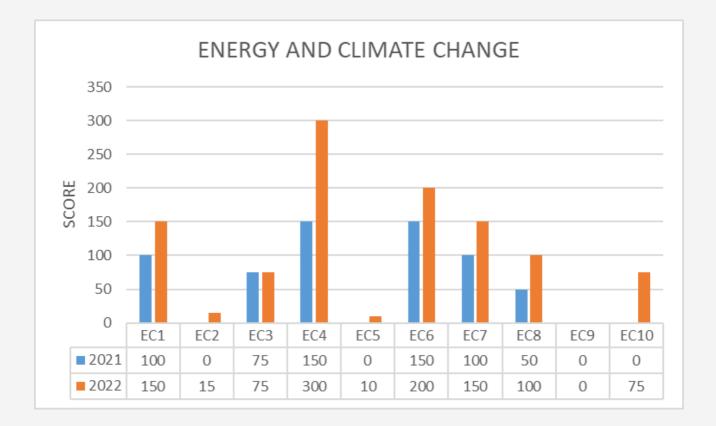


Sukhothai Thammathirat Open University

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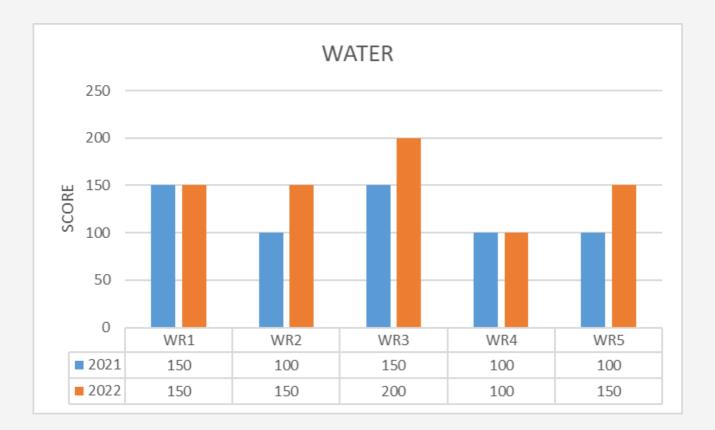
- SI1 The ratio of open space area to total area
- SI2 Total area on campus covered in forest vegetation
- SI3 Total area on campus covered in planted vegetation
- SI4 Total area on campus for water absorption besides the forest and planted vegetation
- SI5 The total open space area divided by total campus population
- SI6 Percentage of university budget for sustainability efforts
- SI7 Percentage of operation and maintenance activities of building in one-year period
- SI8 Campus facilities for disable, special needs and or maternity care
- SI9 Security and safety facilities
- SI10 Health infrastructure facilities for students, academics and administrative staffs' wellbeing
- SI11 Conservation: plant, animal, and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities



- EC1 Energy efficient appliances usage
- EC2 Smart building implementation
- EC3 Number of renewable energy sources on campus
- EC4 Total electricity usage divided by total campus' population (kWh per person)
- EC5 The ratio of renewable energy production divided by total energy usage per year
- EC6 Elements of green building implementation as reflected in all construction and renovation policies
- EC7 Greenhouse gas emission reduction program
- EC8 Total carbon footprint divided by total campus' population (metric tons per person)
- EC9 Number innovative program(s) in Energy and Climate Change
- EC10 Impactful university program(s) on climate change



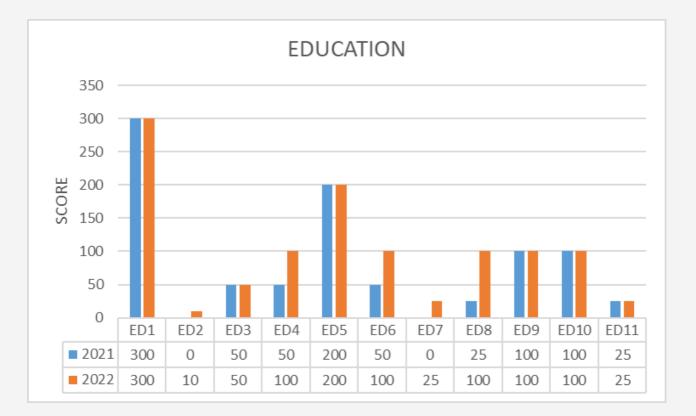
- WS1 Recycling program for university's waste
- WS2 Program to reduce the use of paper and plastic on campus
- WS3 Organic waste treatment
- WS4 Inorganic waste treatment
- WS5 Toxic waste treatment
- WS6 Sewage disposal



- WR1 Water conservation program & implementations
- WR2 Water recycling program implementation
- WR3 Water efficient appliances usage
- WR4 Consumption of treated water
- WR5 Water pollution control in campus area



- TR1 The total number of vehicles (cars and motorcycles) divided by total campus' population
- TR2 Shuttle services
- TR3 Zero Emission Vehicles (ZEV) policy on campus
- TR4 The total number of Zero Emission Vehicles (ZEV) divided by total campus population
- TR5 Ratio of ground parking area to total campus area
- TR6 Program to limit or decrease the parking area on campus for the last 3 years (from 2019 to 2021)
- TR7 Number of initiatives to decrease private vehicles on campus
- TR8 Pedestrian path on campus



- ED1 The ratio of sustainability courses to total courses/subjects
- ED2 The ratio of sustainability research funding to total research funding
- ED3 Number of scholarly publications on sustainability
- ED4 Number of events related to sustainability
- ED5 Number of student organizations related to sustainability
- ED6 University-run sustainability website
- ED7 Sustainability report
- ED8 Number of cultural activities on campus
- ED9 Number of university program(s) to improve teaching and learning
- ED10 Number of sustainability community services project organized and/or involving students
- ED11 Number of sustainability-related startups



#### Type of higher education institution Comprehensive

Climate Tropical Wet

Number of Campus 13

Sukhothai Thammathirat Open University (Headquarters in Nonthaburi)

Regional Academic Resources and Community Engagement Centers

- Nonthaburi (Vicinity Central Provincial Cluster)
- Kanchaburi (Lower Central Provincial Cluster 1)
- Phetchaburi (Lower Central Provincial Cluster 2)
- Lampang (Upper Northern Provincial Cluster 1)
- Sukhothai (Lower Northern Provincial Cluster 1)
- Nakhon Sawan (Lower Northern Provincial Cluster 2)
- Nakhon Si Thammarat (Southern Gulf of Thailand Provincial Cluster)
- Yala (Southern Provincial Cluster)
- Chanthaburi (Eastern Provincial Cluster 1)
- Nakhon Nayok (Eastern Provincial Cluster 2)
- Udon Thani (Upper North-Eastern Provincial Cluster 1)
- Ubon Ratchathani (Lower North-Eastern Provincial Cluster 2)



#### Campus Setting Urban

Headquarters in Nonthaburi



#### Total Campus Area 424,589 M2

Headquarters in Nonthaburi and Regional Academic Resources and Community Engagement Centers

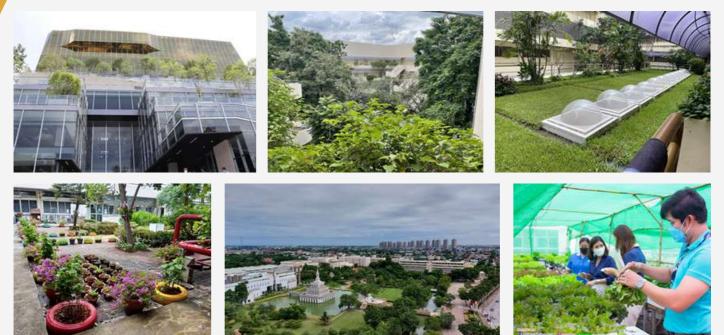
Total campus ground floor area of buildings 64,720 M2

Total campus buildings area 219,787 M2

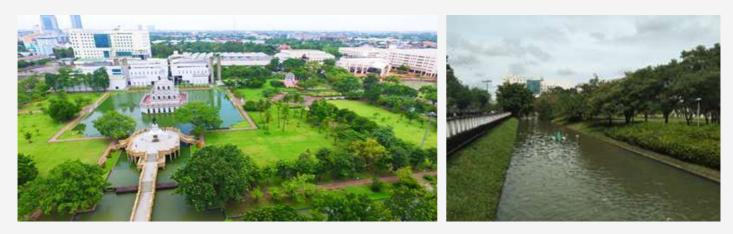
The ratio of open space to total area 85.22%

Total area on campus covered in forest vegetation 0%

Total area on campus covered in planted vegetation 32.50%



Total area on campus for water absorption besided forest and planted vegetation 38.60%



Total number of regular students 58,393

Total number of online students 58,393

Total number of academic and administrative staff 1,922

The total open space area divided by total campus population > 70 m2 /person (72.63%)



Total university's budget (in US Dollars) 75,792,358

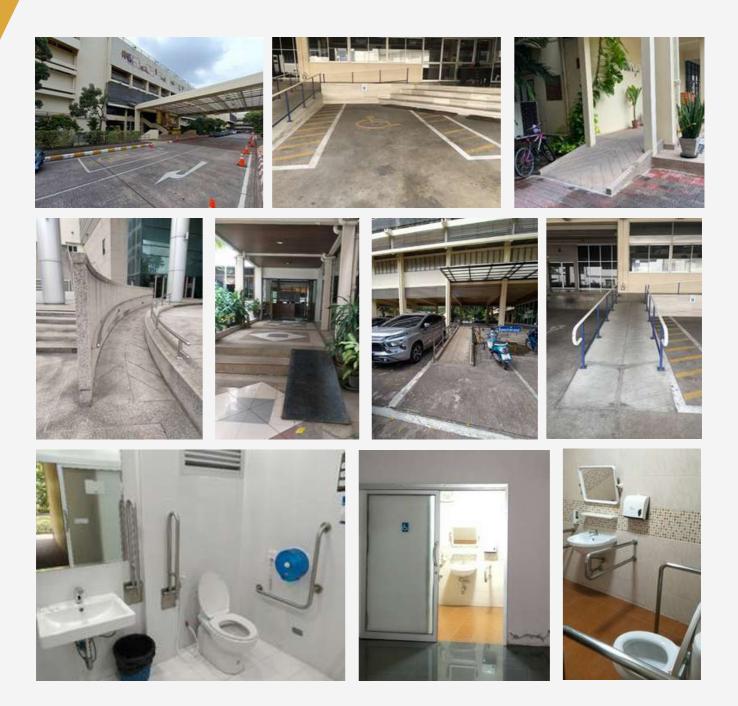
University's budget for sustainability effort 3,204,165 USD

Percentage of University's budget for sustainability effort 4.23%

Percentage of operation and maintenance activities of building 75%



#### Campus facilities for disable and maternity care Facilities are partially available and operated

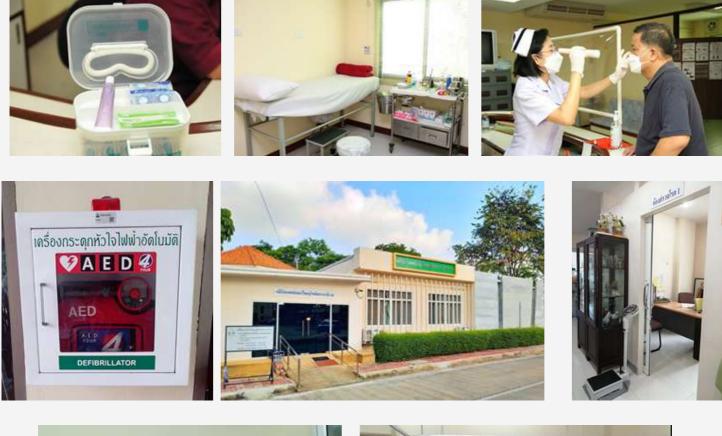


Security and safety facilites Security infrastructures are available with security responding time to accidents, crime, fire, and natural disasters is more than 10 minutes



Health infrastructure facilities for students and academic and administrative staff wellbeing

Health infrastructure (first aid, emergency room, clinic, hospital and certified personnel) are available.





### Energy efficient appliances usage > 50 - 75% (73%)



Number of renewable energy sources on campus 1 source (Solar Power) Capacity produced 1,000 kWh



Electricity usage per year 688.401 kWh

Total electricity usage divided by total campus' population < 279 kWh

The ratio of renewable energy production divided by total energy usage per year < 0.5%

Elements of green building implementation as reflected in all construction and renovation policies > 3 elements



for Daily Source

Natural Features to **Provide Natural Shade** for the Buildings



Green Building awarded as "Building Energy Code"



**Natural Ventilation** for Air Circulation



Less Glass Windows to **Reduce Solar Radiation** 

Greenhouse gas emission reduction program Program(s) aimed to reduce two out of three scopes emissions (Scope 1 and 3)











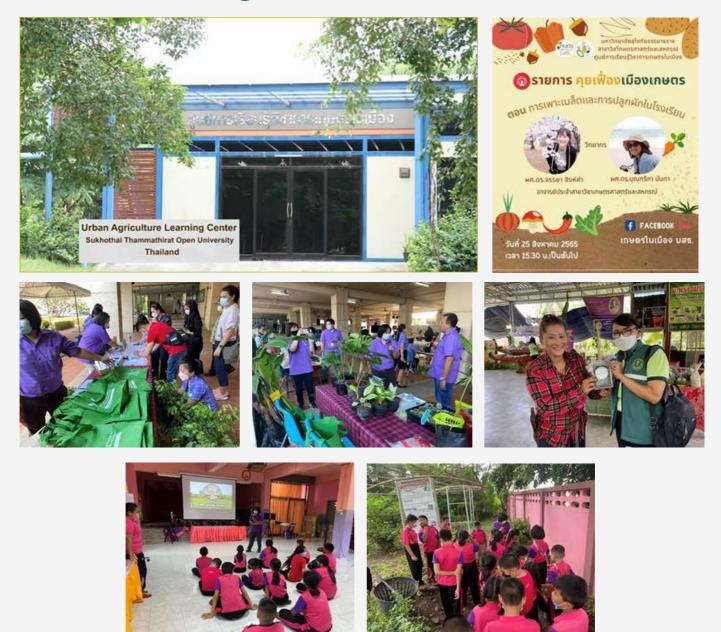




Total carbon footprint (CO₂ emission) 1,000.66 metric tons

Total carbon footprint divided by total campus' population > 0.42 - 1.11 metric tons per person

Impactful university program(s) on climate change Provide training and educational materials for surrounding communities and at national level





#### Recycling program for university's waste Partial (1 - 25% of waste)





Program to reduce the use of paper and plastic on campus More than 3 programs





#### **Organic waste treatment** Partial (25 - 50% treated)





#### Compost from Dry Green Waste











Vemicompost

### Waste

#### Inorganic waste treatment Partial (> 1- 25% treated)





#### Waste Sorting



Electronic Waste (E-Waste) to TES, certified handing company



#### Toxic waste treatment Partial (> 50 - 75% treated)



Disposed by an authorized company for final treatment



TES Company Limited, experts in recycling electronic waste

#### Sewage disposal Treated technically for reuse



Sukhothai Thammathirat Open University

### Water

### Water conservation program & implementations > 25 - 50% water conserved







### Water recycling program implementation > 25 - 50% water recycled







## Water efficient appliances usage > 50% of water efficient appliances installed

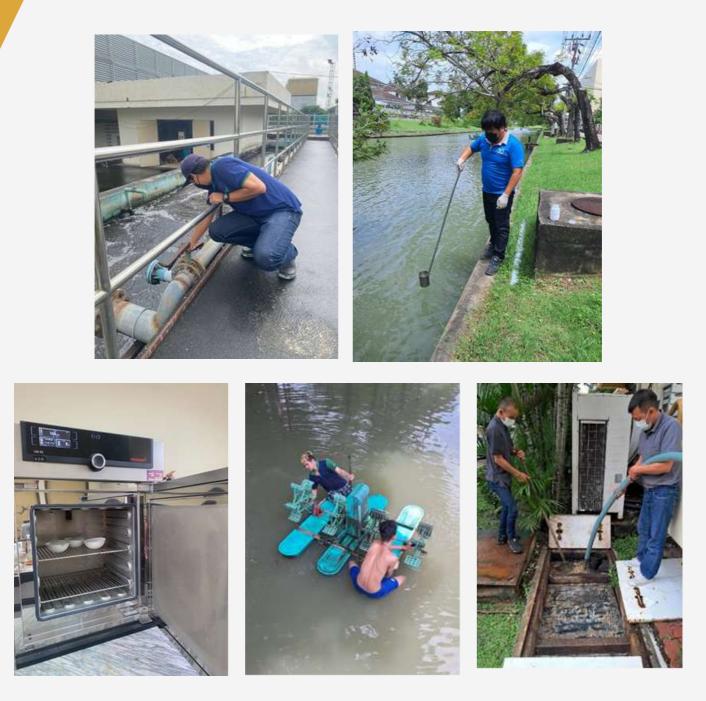


Consumption of treated water > 25 - 50% treated water consumed



### Water

#### Water pollution control in campus area Fully implementation and monitored occasionally



Number of cars actively used and managed by university 77

Number of cars entering the university daily 500

Number of motorcycles entering the university daily 100

The total number of vehicles divided by total campus' population > 0.125 - 0.5 (0.14)

Shuttle services Shuttle service is provided by university, regular and free





Number of shuttles operated in the university 3

Average number of passengers of each shuttle 8

Total trips of each shuttle services each day 10

Zero Emission Vehicles (ZEV) policy on campus Zero Emission Vehicles are available, and provided by university free



Average number of Zero Emission Vehicles (ZEV) on campus per day 80

The total number of Zero Emission Vehicles (ZEV) divided by total campus population > 0.008 to ≤ 0.02

> Total ground parking area 61,150 M2

Ratio of ground parking area to total campus area 12.23%



Program to limit or decrease the parking area on campus for the last 3 years **Program in preparation** 



Number of initiatives to decrease private vehicles on campus 3 initiatives



Pedestrian path on campus Pedestrian paths are available, designed for safety, convenience, and in some parts provided with disabled- friendly features



Approximate daily travel distance of a vehicle inside your campus only 80 km

Number of courses related to sustainability offered 181

Total number of courses offered 669

The ratio of sustainability courses to total courses/subjects 27%

Total research funds dedicated to sustainability research (Average annually for the past 3 years) 1,280 USD

> Total research funds (Average annually for the past 3 years) 268,086 USD

The ratio of sustainability research funding to total research funding < 1%

Number of scholarly publications on sustainability (Average annually for the past 3 years)

Number of events related to sustainability (Average annually for the past 3 years) 10



Number of student organizations related to sustainability 77

40



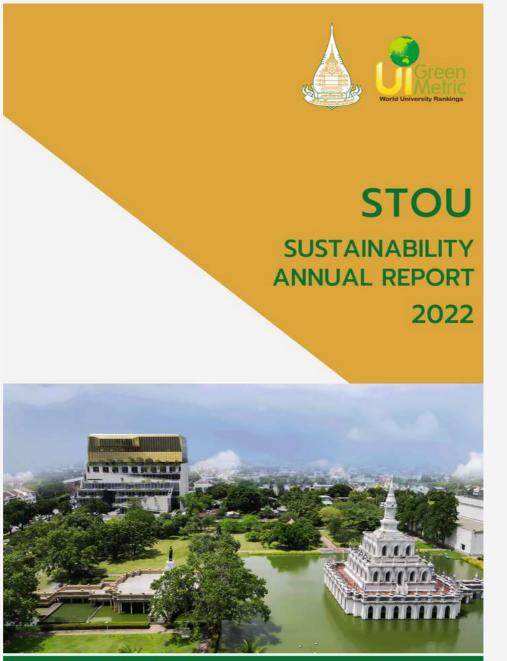
#### University-run sustainability website 1 Website



#### Sustainability website address (URL) www.green.stou.ac.th



#### Sustainability report STOU Sustainability Annual Report 2022



Sukhothai Thammathirat Open University

http://green.stou.ac.th/

#### Number of cultural activities on campus More than 3 events per year





#### Number of university programs to improve teaching and learning More than 3 programs



Sukhothai Thammathirat Open University

Number of sustainability community services project organized and/or involving students More than 3 projects



Number of sustainability-related startups 2 startups









#### Contact us

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