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UI Green
Metric
World University Rankings

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[1] Setting and Infrastructure (SI)

[1.3] Number of Campus Sites

SAMPLE

	Example of Campus Site, **University Park** (University of Nottingham, UK)
	Example of Campus Site, **Jubilee Campus** (University of Nottingham, UK)

Description:

(*Please describe your campus sites: area, date of establishment, history, facilities, etc. The following is an example of the description. You can describe more related items if needed*)

University Park is The University of Nottingham's largest campus at 300 acres. Part of the University since 1929, the campus is widely regarded as one of the largest and most attractive in the country. Set in extensive greenery and around a lake, University Park is the focus of life for students, staff and visitors. Conveniently located only two miles from the city center.

The Jubilee Campus is a modern purpose-built campus which now extends to 65 acres and is located only one mile from University Park. The initial phase was opened by Her Majesty the Queen in 1999.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   …
Country   :   …
Web Address   :   …

[1] Setting and Infrastructure (SI)

[1.4] Campus Setting

Example of Campus Setting - Rural (Umwelt-Campus Birkenfeld, Germany)

Description:
(*Please describe your campus setting. The following is an example of the description. You can describe more related items if needed*.)

Environmental Campus Birkenfeld (ECB) is located in a rural area with a high rate of forest cover. ECB belongs to the district Birkenfeld which is located in the southern part of the state of Rhineland-Palatinate. The district Birkenfeld has a total area of 777 km² and a total population of 80,728. This means a low population density of 104 inhabitants per km².

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
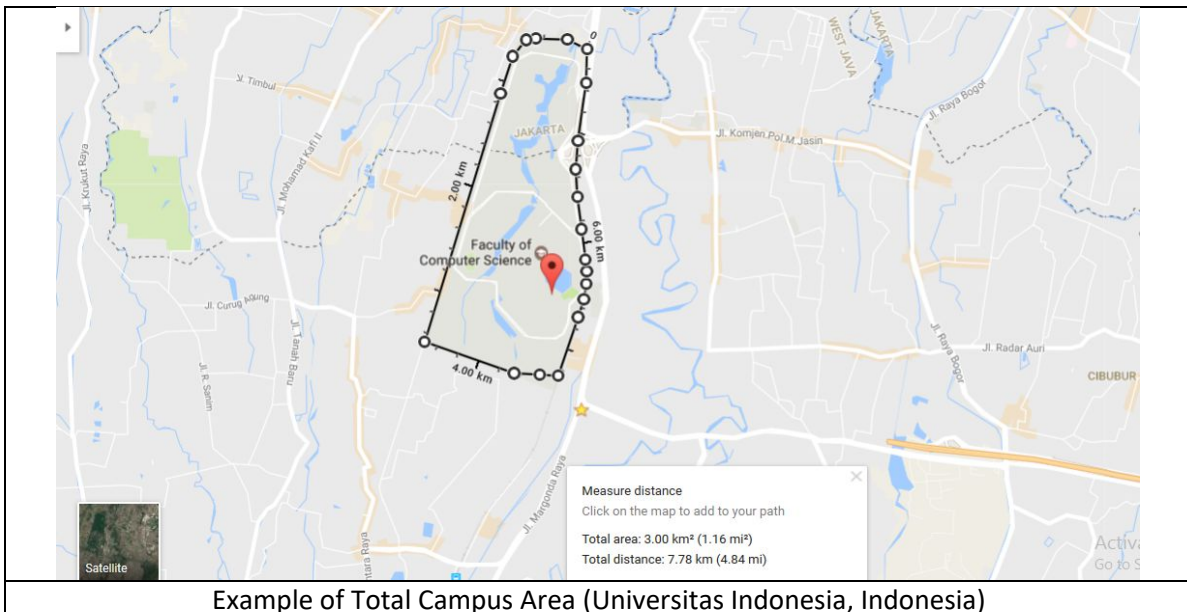
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[1] Setting and Infrastructure (SI)

[1.5] Total Campus Area (meter^2)

SAMPLE

Example of Total Campus Area (Universitas Indonesia, Indonesia)

Description:
(*Please describe the total area in your campus. The following is an example of the description. You can describe more related items if needed*.)

Total area: 3.00 km² (1.16 mi²) = 3.000.0000 m^2
Total distance/circumference: 7.78 km (4.84 mi) = 7.780 m

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ……
Country   :   ……
Web Address :   ……

[1] [Setting & Infrastructure]

[1.7] Total campus buildings area

SAMPLE

Building A	Bulding B
Area: 15000 m2	Area: 5000 m2

Description:

Building name	Total Area
Building A	15000 m2
Building V	5000 m2
Total	20000 m2

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
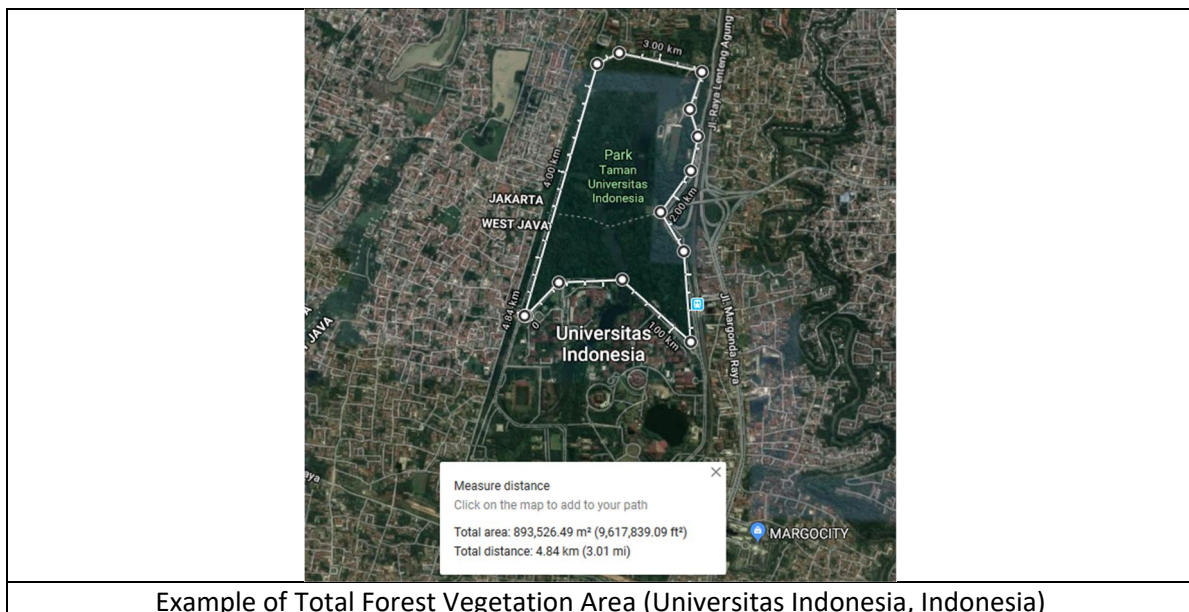
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   …..
Country   :   ….
Web Address :   ….

[1] Setting & Infrastructure

[1.8] The ratio of open space area to total area

Description:
Ratio of open space towards total area: 96%

Openspace name	Total area	Duration (in Hours per Weeks)
Open Space Preserve	1.360.000 m^2	84
Putah Creek Riparian Reserve	2.590.000 m^2	168
UC Davis Arboretum	404.686 m^2	168

*Example from University of California, Davis

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
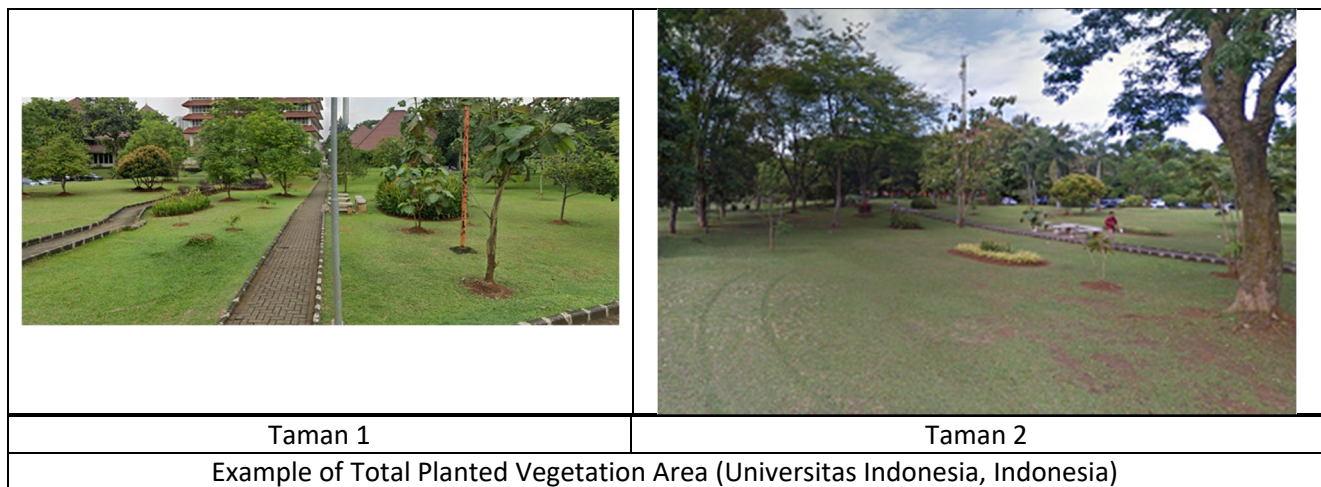
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[1] Setting and Infrastructure (SI)

[1.9] Total Area on Campus Covered in Forest Vegetation (meter^2)

SAMPLE

Example of Total Forest Vegetation Area (Universitas Indonesia, Indonesia)

Description:
(*Please describe the forest vegetation area in your campus. The following is an example of the description. You can describe more related items if needed*.)

Total area: 893,529,49 m^2
Total distance/circumference: 4.84 km

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[1] Setting and Infrastructure (SI)

[1.10] Total area on campus covered in planted vegetation (meter^2)

SAMPLE

Taman 1	Taman 2
Example of Total Planted Vegetation Area (Universitas Indonesia, Indonesia)	

Description:
(*Please describe the* **planted vegetation** *area in your campus. The following is an example of the description. You can describe more related items if needed*.)

Total planted vegetation area: 193,530 m^2
Total Area: 454.678 m2
Percentage area: 43%

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University : ...
Country : ...
Web Address : ...

[1] Setting and Infrastructure (SI)

[1.11] Total area on campus for water absorption besides the forest and planted vegetation (meter²)

Street 1	Street 2
Example of **Total area on campus for water absorption besides the forest and planted vegetation** (Universitas Indonesia, Indonesia)	

Description:
(*Please describe the* **Total area on campus for water absorption besides the forest and planted vegetation** *area in your campus. The following is an example of the description. You can describe more related items if needed*.)

Total **water absorption** area: 128.915m²
Total Area: 454.678 m²
Percentage area: 28%

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[1] Setting and Infrastructure (SI)

[1.18] University budget for sustainability effort (in US Dollars)

	2018	2019	2020	Average
Budget Total	$ 500000	$ 540000	$ 450000	$ 496666
Sustainability Budget	$ 130000	$ 170000	$ 150000	$ 150000
			Percentage	30 %

Description:
(*Please describe the* **University budget for sustainability effort** *in your campus. The following is an example of the description. You can describe more related items if needed*.)

-    The average percentage university budget for our university is 30%

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
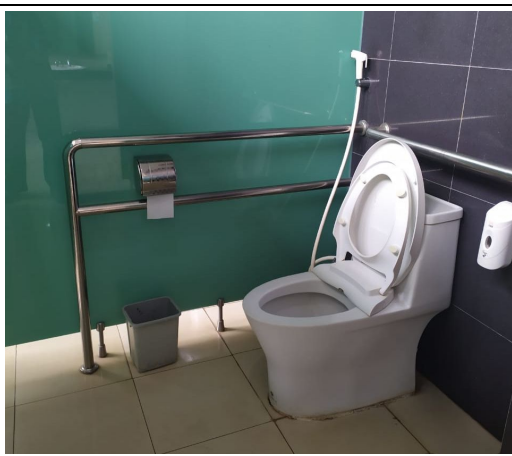
SAMPLE

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[1] Setting and Infrastructure (SI)

[1.20] Percentage of operation and maintenance activities during Covid-19 pandemic

Solar Panel Maintenance (Universitas Indonesia)	Build partition rack (Universitas Indonesia)
Example of **operation and maintenance activities during Covid-19 pandemic**	

Description:
(*Please describe the **operation and maintenance activities during Covid-19 pandemic** in your campus. The following is an example of the description. You can describe more related items if needed*.)

1	Total campus buildings area	55000 m^2
2	Total operated building	45000 m^2
	Percentage building that operated and maintenanced	81%

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[1] Setting and Infrastructure (SI)

[1.21] Campus facliities for disable, special needs and or maternity care

| 1. Disabled parking (Universitas Indonesia, Indonesia) | 2. Accessible toilet (Universitas Indonesia, Indonesia) |

3. Lactation Room (Universitas Airlangga, Indonesia)

Description:
(*Please describe the **Campus facliities for disable, special needs and/or maternity care** in your campus. The following is an example of the description. You can describe more related items if needed*.)

1. Disabled parking for disabled people to park their car which located at the nearest space bulding
2. Accessible toilet for disabled people
3. Lactation room is private room for staff who are breasfeeding can pump breast milk in private

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

- https://fkm.unair.ac.id/pojok-laktasi-fkm-unair-fasilitas-yang-memadai-hingga-research-group/

Template for Evidence(s)
UI GreenMetric Questionnaire

SAMPLE

University   :   …
Country   :   …
Web Address   :   …

[1] Setting and Infrastructure (SI)

[1.22] Security and safety facilites

1. CCTV in entrance (Universitas Diponegoro, Indonesia)	2. Fire Hidrant (Universitas Indonesia, Indonesia)

Description:
(Please describe the **Security and safety facilites** in your campus. The following is an example of the description. You can describe more related items if needed.)

1. CCTV at Universitas Diponegoro's gate
2. Fire Hidrant at Vokasi Universitas Indonesia

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

- https://vokasi.ui.ac.id/web/pelatihan-k3-simulasi-dan-pelatihan-pemadaman-kebakaran/

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[1] Setting and Infrastructure (SI)

[1.23] Health infrastructure facilities for students, academics and administrative staffs' wellbeing

1.   UI Satellite Clinic

Description:
(Please describe the **Health infrastructure facilites** in your campus. The following is an example of the description. You can describe more related items if needed.)

1.   Universitas Indonesia provides health services with comprehensive service support for the entire academic community.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

-    https://www.ui.ac.id/layanan/poliklinik.html

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[1] Setting and Infrastructure (SI)

[1.24] Conservation: plant, animal, and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities

Green House (Telkom University)	Danau Kenanga (Universitas Indonesia)
Example of **Conservation: plant, animal, and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities**	

Description:
(*Please describe the* **Conservation: plant, animal, and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities** *in your campus. The following is an example of the description. You can describe more related items if needed*.)

- Green house for planting vegetables for campus residents
- Danau Kenanga for fish conservation area

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
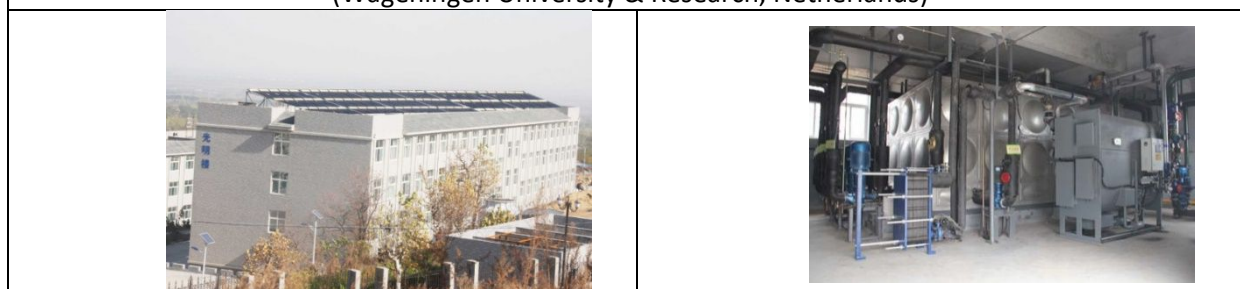Country   :   ...
Web Address   :   ...

[2] Energy and Climate Change (EC)

[2.1] Energy Efficient Appliances Usage
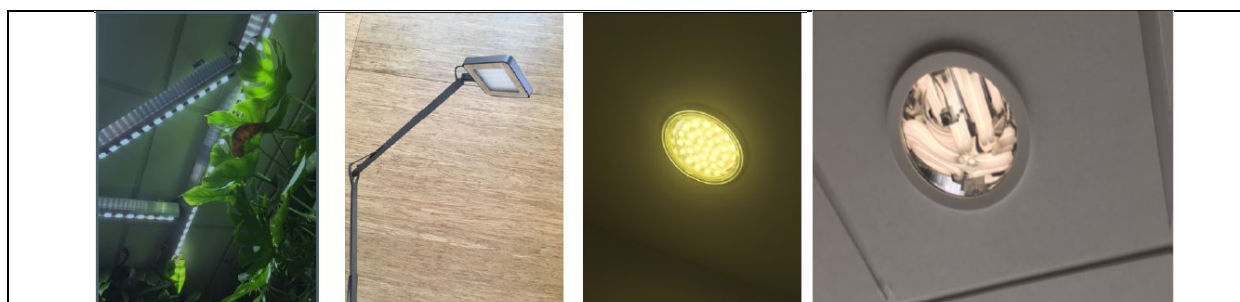
Example of Energy Efficient Appliances Usage: Use of LED lighting and lamps with light detection
(Wageningen University & Research, Netherlands)

Example of Energy Efficient Appliances Usage: Solar absorption Air Conditioning system (Shandong
Normal University - Lishan College, China)

Description:
(*Please describe the energy efficient appliances usage on your campus. The following is an example of the
description. You can describe more related items if needed*.)

Wageningen University & Research intends to realize further energy savings by paying close attention to
energy management. All parts of the organization can assess their own energy consumption and realize their
own energy-saving potential by means of, for example, insulation, LED lighting and the deployment of
sustainable technology.
Example:

Appliance	Total Number	Total number energy Efficient appliances	Percentage
LED Lamp	250,000	150,000	60%
Fan	150	50	33%
Etc.	...	...	...
		Average Percentage	**46%**

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[2] Energy and Climate Change (EC)

[2.3] Smart Building Implementation

SAMPLE

*Min. at least five requirements for each building

No.	Name	Place	automation		safety				energy		water		Indoor environment				lighting				Building Area (m²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
	University X; Building A	City, Country				x	x	x				x				x	x	x		x	30,000
	University X; Building B	City, Country				x										x	x				~~25,000~~
	University X; Building C	City, Country				x	x										x				~~50,000~~
	University X; Building D	City, Country				x															~~15,000~~
Total																					30,000

——— Please compile one row for each building (or homogeneous part of it) by ticking with a "X" for each requirement ———

Smart building implementation

$$\frac{total\ smart\ building\ area}{total\ building\ area} \times 100\%$$

Example:
*Total Building Area: 150,000 m²

$$\frac{30,000\ m^2}{150,000\ m^2} \times 100\% = 20\%$$

Note: One building could be classified as a smart building if it has a minimum of 5 features. Please add the total smart building area from buildings which are classified as smart buildings.

Building A	Building B
Building C	Building D

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[2] Energy and Climate Change (EC)

[2.5] Renewable Energy Sources in Campus

Example of Biodiesel Combined Cooling Heating and Power Integration Unit (Shandong Normal University - Lishan College, China)

Example of Biomass Pellet Vacuum Boilers Provide Heating for the Building in winter (Shandong Normal University - Lishan College, China)

Example of Roof and Façade Mounted Solar Panels (Umwelt-Campus Birkenfeld, Germany)

Example of Windmill Parks (Wageningen University & Research, Netherlands)

Description:
(*Please describe the renewable energy sources on your campus. The following is an example of the description. You can describe more related items if needed*.)

1. The combined cooling, heating and power (CCHP) unit in Lishan College using biodiesel as fuel, is located in the square of the school's restaurant. The rated power of the generator is 30kW, whose waste heat can be used for heating bathing hot water.
2. On roofs of administration building, library, laboratory building, school factories and other teaching buildings and dormitories, solar PV power station of total 1.6MW is installed.
1# energy station has 2 biomass vacuum boilers, and each boiler is 7MW, providing heating for most of the school buildings in winter, using the crop straws as fuel. Biomass vacuum boiler can meet Chinese ultra - low emission standards due to the installation of bag type dust collectors and denitration equipment. Biomass pellet fuel and geothermal energy only provide heating in winter.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
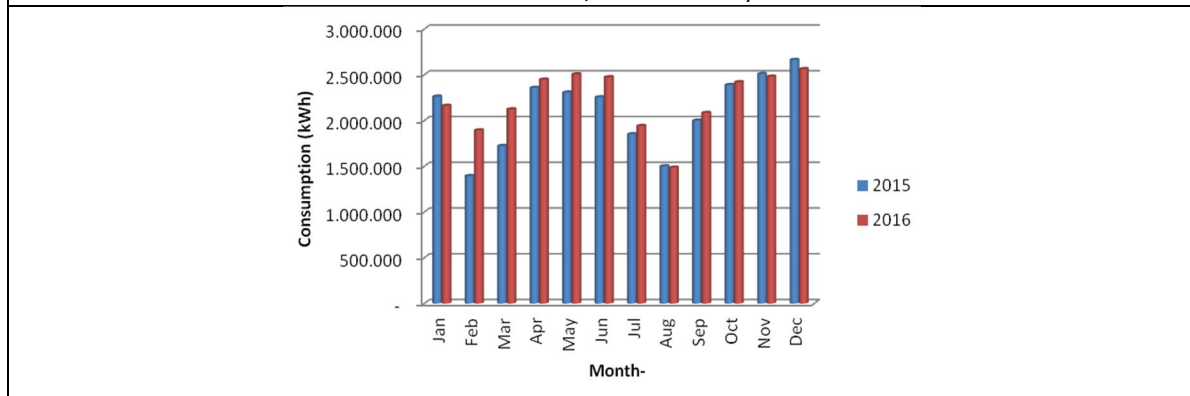Country   :   ...
Web Address   :   ...

[2] Energy and Climate Change (EC)

[2.6] Electricity Usage per Year (in Kilowatt hour)

SAMPLE
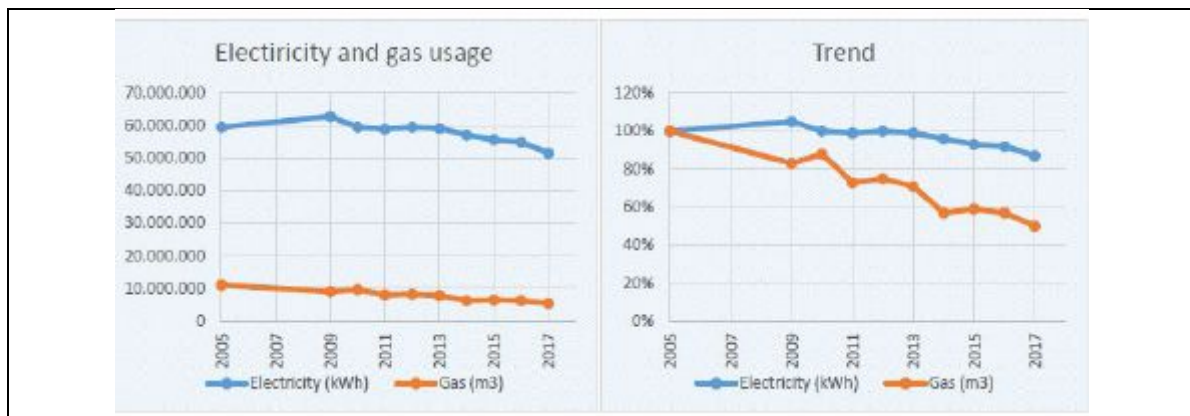
Example of Total Electricity and Gas Usage (All Locations) in 2005-2017 (Wageningen University & Research, Netherlands)

Example of Electricity Usage (kWh) on UI Depok Campus (Universitas Indonesia, Indonesia)

Description:
(*Please describe the electricity usage per year on your campus. The following is an example of the description. You can describe more related items if needed*.)

The total electricity usage of Wageningen Campus in 2017 is 40.228.415 kWh. On the main campus area of Wageningen University & Research in Wageningen electricity is used for lighting, cooling, heating and laboratory appliances. For more information see the Energy paragraph of the WUR 2017 Annual environmental report.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[2] Energy and Climate Change (EC)

[2.7] ratio of renewable energy production divided by total energy usage per year

Example of Biodiesel Combined Cooling
Heating and Power Integration Unit (Shandong
Normal University - Lishan College, China)

Example of Biomass Pellet Vacuum Boilers Provide
Heating for the Building in winter
(Shandong Normal University - Lishan College, China)

Example of Roof and Façade Mounted Solar
Panels (Umwelt-Campus Birkenfeld, Germany)

Example of Windmill Parks (Wageningen University &
Research, Netherlands)

Description:
(*Please describe the renewable energy sources on your campus. The following is an example of the description.
You can describe more related items if needed*.)

No	Renewable Energy	Production (in kWh)
1	Biodiesel	5.000
2	Biomass	3.000
3	Solar panel	15.000
4	Windmill	3.500
	Total	26.500

26.500 / 100.000 (Electricity usage) = 26.5 %

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

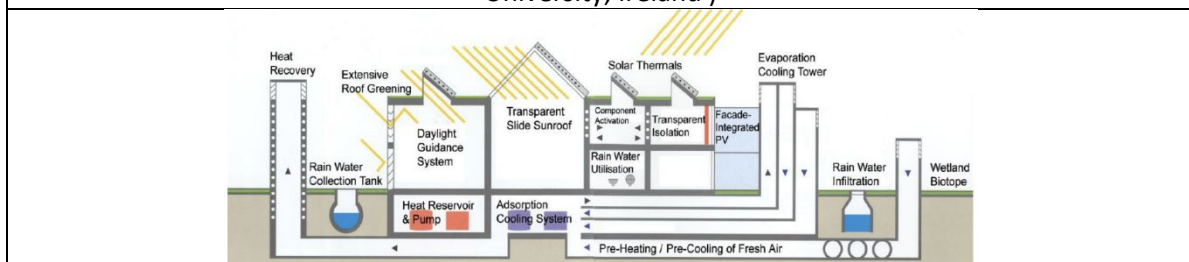**[2] Energy and Climate Change (EC)**

[2.9] Elements of Green Building Implementation as Reflected in All Construction and Renovation Policies

Example of Green Building Implementation - Copy of the DCU ISO50001 certification (Dublin City University, Ireland)

Example of Green Building Implementation - Overview Green Technologies implemented at the Environmental Campus Birkenfeld (Umwelt-Campus Birkenfeld, Germany)

Description:
(*Please describe the elements of green building implementation on your campus. The following is an example of the description. You can describe more related items if needed*.)

- Dublin City University gained ISO 50001 certification – also attached is DCU's construction and renovation policy.

All buildings of the Environmental Campus Birkenfeld fulfil the requirements of the European and German Energy Standards for Buildings, whereby some reach much higher standards. ECB implemented the elements of 'green building' such as an adsorption cooling plant for cooling purposes, a geothermal heat exchanger to pre-warm the outside air, a solar heat transmitter with heat storage capacity to provide heat, a solar thermal collector as heat source for a compression heat pump, a district heating system supplied by a wood-fired power station, two compression heat pumps, a rainwater cistern with a pressure regulator, two ventilation pumps fitted with high-performance waste-heat extractors.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[2] Energy and Climate Change (EC)

[2.10] Greenhouse gas emission reduction program

1. Charge parking (Universitas Indonesia, Indonesia)	2. renewable energy (Universitas Indonesia, Indonesia)

3. Ride Share (Carleton University, Canada)

Description:
(*Please describe the elements of green building implementation on your campus. The following is an example of the description. You can describe more related items if needed*.)

1. Charging parking for private vehicle to reduce vehicle in campus
2. Using renewable energy for electricity that reducing purchased electricity
3. Ride share designed to encourage commuters to adopt healthy and sustainable transportation options. (Carpool)

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
- https://carleton.ca/sustainability/campus/sustainable-transportation/carpool/

UI
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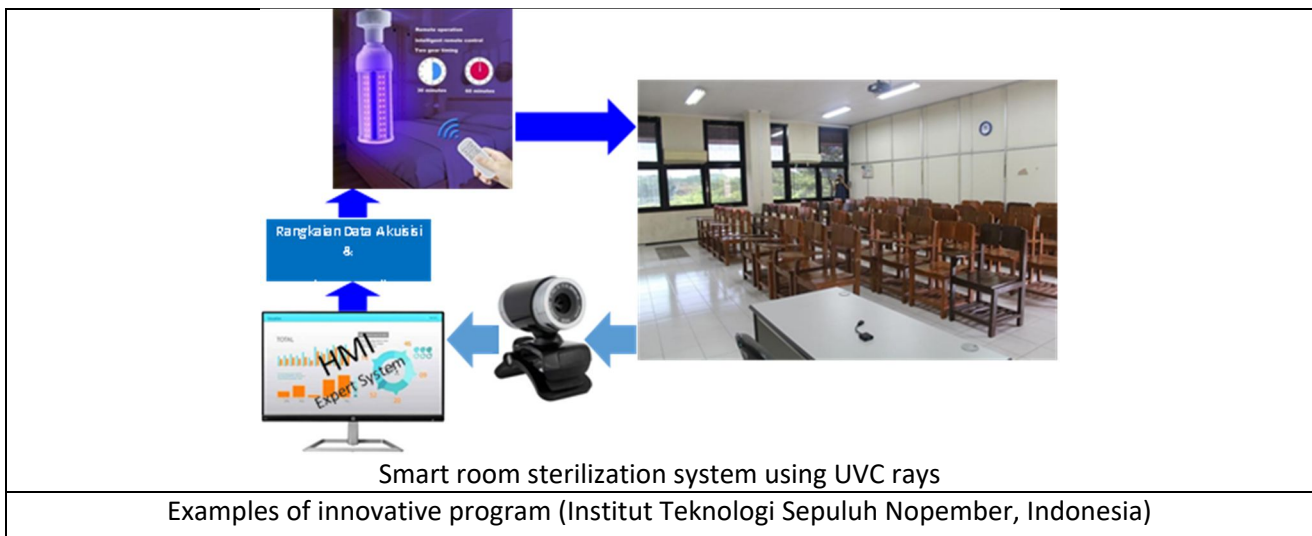
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

SAMPLE

[2] Energy and Climate Change (EC)

[2.11] Please Provide The Total Carbon Footprint (CO_2 emission in the last 12 months, in metric tons)

Option 2: Recommended by UI GreenMetric

CO_2 (electricity)

$$= \frac{electricity\ usage\ per\ year\ (kWh)}{1000} \times 0{,}84$$
$$= \frac{1,633,286\ kWh}{1000} \times 0{,}84$$
$$= 1{,}371.96 \text{ metric tons}$$

CO_2 (bus)

$$= \frac{number\ of\ shuttle\ bus\ in\ your\ university \times total\ trips\ for\ shuttle\ bus\ service\ each\ day \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) \times 240}{100} \times 0{,}01$$
$$= \frac{15 \times 150 \times 5 \times 240}{100} \times 0{,}01$$
$$= 270 \text{ metric tons}$$

CO_2 (cars)

$$= \frac{number\ of\ cars\ entering\ your\ university \times 2 \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) \times 240}{100} \times 0{,}02$$
$$= \frac{2,000 \times 2 \times 5 \times 240}{100} \times 0{,}02$$
$$= 960 \text{ metric tons}$$

CO_2 (motorcycle)

$$= \frac{number\ of\ motorcycle\ entering\ your\ university \times 2 \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) \times 240}{100} \times 0{,}01$$
$$= \frac{4,000 \times 2 \times 5 \times 240}{100} \times 0{,}01$$
$$= 960 \text{ metric tons}$$

CO_2 (total)

$$= 1{,}371.96 + 270 + 960 + 960$$
$$= 3{,}561.96 \text{ metric tons}$$

Carbon footprint in 2018 = 3,561.96 metric tons

Example of Total Carbon Footprint (UI GreenMetric)

Description:
(*Please describe the total carbon footprint on your campus. You can describe more related items if needed*.)
....
....

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[2] Energy and Climate Change (EC)

[2.13] Number of innovative program(s) during Covid-19 pandemic

Smart room sterilization system using UVC rays

Examples of innovative program (Institut Teknologi Sepuluh Nopember, Indonesia)

Description:
(*Please describe innovative program(s) on your campus. The following is an example of the description. You can describe more related items if needed*.)

UVC is used to maintain air quality standards despite the dynamics of cooling load and the dynamics of biological pollutants in the room. There are also innovations in room sterilization using UVC rays for biological pollutants attached to the surfaces such as benches, floors, and walls. Irradiating of rooms is carried out automatically every time the room is about to be used or after an activity and can be automated via condition sensors attached to PC-operated web cams.

The irradiation process is carried out at certain time intervals when the room unoccupied. During the process the door is closed and information is displayed to users outside. UVC wavelengths can be remotely regulated so they can be used for multi-organic sterilization of pollutants (biological pollutants).

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[2] Energy and Climate Change (EC)

[2.14] Impactful university program(s) on climate change

Program to build windmills as a power plant in the village of Bungin

Examples of **Impactful university program** (**Universitas Indonesia**, Indonesia)

Description:
(*Please describe innovative program(s) on your campus. The following is an example of the description. You can describe more related items if needed*.)

Faculty of Engineering of Universitas Indonesia build windmills as a power plant in the village of Bungin. With these windmills the village is able to produce electricity around 1000 watts/hour.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
- http://pantaibakti.desa.id/2019/04/28/kampung-bungin-objek-wisata-bahari-berbasis-taman-teknologi/

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[3] Waste (WS)

[3.1] Recycling Program for University Waste

Example of Recycling Program for University Waste (Mahidol University, Thailand)

Example of Recycling Program for University Waste (University of Connecticut, US)

Description:
(*Please describe the recycling program on your campus. The following is an example of the description. You can describe more related items if needed*.)

University of Connecticut uses a local recycling company, Willimantic Waste Paper Company, which has implemented Single Stream Recycling, allowing students and faculty to easily determine what they can and cannot recycle. Additionally, this program allows all types recyclables (plastic, paper, glass, aluminum) to be placed in the same container, making it easier for the user. UConn also promotes the recycling of Electronic

Waste and ink-cartridges from printers. E-waste items should not be disposed of in the normal trash due to their high concentrations of toxic chemicals and heavy metals.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   …

[3] Waste (WS)

[3.2] Program to Reduce the Use of Paper and Plastic on Campus

1	2

3	4

Example of Program to Reduce the Use of Paper and Plastic in Campus (Mahidol University, Thailand)

Description:
(*Please describe the program to reduce the use of paper and plastic on your campus. The following is an example of the description. You can describe more related items if needed*.)

1. Mahidol IT supports paperless system to reduce paper in daily workplace. It can reduce a lot of paper use that mean Mahidol University can reduce CO_2 emissions and save the world.
2. Solutions of reusable paper in back office, e.g. using 2-side of paper, always recheck your data before print, use online system instead of hard copy.
3. Mahidol University has a policy of "Reduce Reuse plastic bag in the last 3 years. We can reduce around 3 million bags per year or reduce 90% of plastic waste in university".

"Mahidol Reduce & Reuse Plastic Bag" project is consistent with the campaign's key points of United Nations Environment Program (UNEP) this year focused its campaign on "Waste Plastic Pollution" (Beat Plastic Pollution) is the same direction around the world as "if you cannot reuse it, refuse it".

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[3] Waste (WS)

[3.3] Organic Waste Treatment

Example of Organic Waste Treatment (Politecnico di Milano, Italy)

Description:
(*Please describe the program to treat organic waste on your campus. The following is an example of the description. You can describe more related items if needed*.)

In Politecnico of Milan, the only structures that produce organic waste are canteens and cafés, which manage in complete autonomy this kind of waste. The canteens and the cafés manage the organic waste trough contracts with Amsa (Milan Environmental Services Company). Amsa collects the organic waste and it delivers them at an authorized waste treatment plant that processes the material through anaerobic digestion. The outputs of this system are: biogas, from which biomethane, electricity and liquid carbon dioxide for industrial use are produced, and organic fertilizers (http://www.amsa.it/gruppo/cms/amsa/; http://www.montello-spa.it/riciclo_rifiuti_organici/).

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
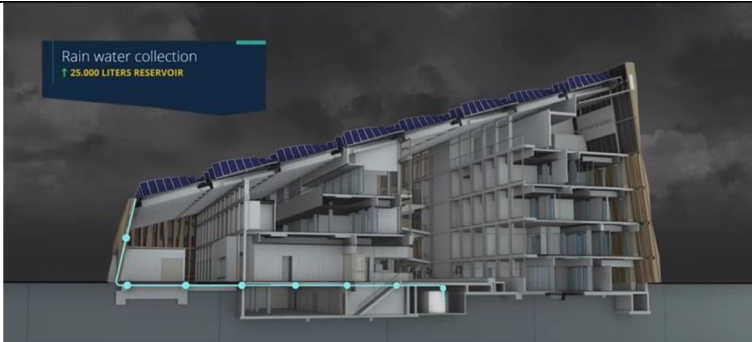
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[3] Waste (WS)

[3.4] Inorganic Waste Treatment

Example of Inorganic Waste Treatment (Universitas Indonesia, Indonesia)

Example of Inorganic Waste Treatment (Politecnico di Milano, Italy)

Description:
(*Please describe the program to treat inorganic waste on your campus. The following is an example of the description. You can describe more related items if needed*.)

1. Inorganic Waste treatment in Politecnico di Milano developed with AMSA (Milan Environmental Services Company) together with others companies, had foreseen the installation of an inorganic waste collector in which WEEE (Waste Electrical and Electronic Equipment) could be gathered. The main scope of the project was to optimize, and generally improve, the recycle process of small WEEEs in order to recover valuable precious metals and rare earth elements, through a low impact pilot-project.
2. Battery Project: the project, starts from the collaboration between the University, the Municipality of Milan and AMSA, has the aim to raise users and citizen awareness on WEEEs collection and recycling.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
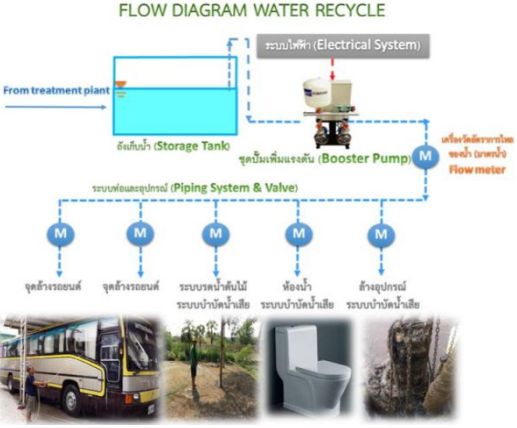
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[3] Waste (WS)

[3.5] Toxic Waste Treatment

SAMPLE

Example of Toxic Waste Treatment (Mahidol University, Thailand)	Example of Toxic Waste Treatment (Università di Bologna, Italy)

Description:
(*Please describe the program to treat toxic waste on your campus. The following is an example of the description. You can describe more related items if needed*.)

Management of (solid/liquid/gaseous) hazardous waste is directed by Nu.Te.R. (Waste Technical Team) in 41 Local Units spread out in all the University districts and cities. Every local unit is provided with:

- a *Temporary Waste Storage* (figure 1) to safely store the Hazardous Waste received from the labs where they are originated until they are picked up from the authorized Company;
- 1-3 trained Technicians, who give instruction for waste packaging and labeling and fill documents to comply with national and international regulations.

Specific typology of hazardous waste like WEEE is sent to recycling plants. Furthermore, a center for disused WEEE repair is starting at the Engineering Department of Civil, Chemical, Environmental & Materials Engineering (ref. Prof. Alessandra Bonoli).

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University : ...
Country : ...
Web Address : ...

[3] Waste (WS)

[3.6] Sewage Disposal

Example of Sewage Disposal (Nottingham Trent University, UK)

Description:
(*Please describe the sewage disposal on your campus. The following is an example of the description. You can describe more related items if needed*.)

Sewerage undertakers in the UK have a duty under the Water Industry Act 1991 to provide, improve and extend a system of public sewers (for both domestic and trade flows). They have a duty to cleanse and maintain those sewers (and any lateral drain) to ensure that the area that they serve is effectively drained. There is also a duty to make provision for the emptying of those sewers, normally through sewage treatment works, or where appropriate, through discharges direct to watercourses. Severn Trent Water Plc are the providers of this service to NTU sewerage disposal for all campuses.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[4] Water (WR)

[4.1] Water Conservation Program Implementation

Example of Water Conservation – Rain Water Collection (University of Groningen, Netherlands)

Example of Water Conservation - In Ground Water Tank (Institute Teknologi Sepuluh Nopember, Indonesia)

Example of Water Conservation – Lake (Universitas Indonesia, Indonesia)

Description:
(*Please describe the water conservation program on your campus. The following is an example of the description. You can describe more related items if needed*.)

1. All buildings of the University of Groningen have a separated sewerage system, for waste water and for clean water (rainwater). Rain water is thus collected from the roofs of the buildings and is then discharged into the local ponds and canals around the buildings. The university has also buildings where all the rainwater is collected for toilet flushing and for watering the plants inside the building. At our campus we have a separate sewerage system. We collect rainwater from the roof, parking area etc. and discharge this in the ponds and channels at our campus.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[4] Water (WR)

[4.2] Water Recycling Program Implementation

Example of Water Recycling Program (Mahidol University, Thailand)

Description:
(*Please describe the water recycling program on your campus. The following is an example of the description. You can describe more related items if needed*.)

A water meter is installed to measure the amount of rainwater that has been use. The recycled water also use for garden sprinkler system, toilet flush, cooling system, aquaponics and used in fish pond.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   …
Country   :   …
Web Address   :   …

[4] Water (WR)

[4.3] Water Efficient Appliances Usage (e.g. hand washing taps, toilet flush, etc.)
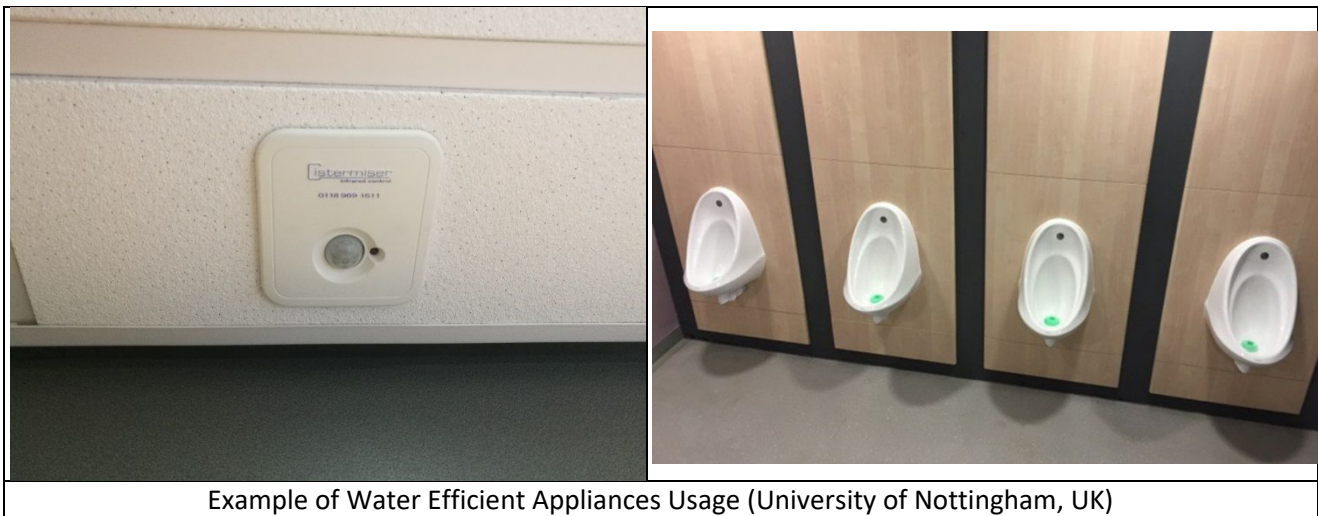
Example of Water Efficient Appliances Usage (University of Nottingham, UK)

Description:
(*Please describe the water efficient appliances usage on your campus. The following is an example of the description. You can describe more related items if needed*.)
Some examples of water conservation measures include, cistermisers (automatic control of urinal flushing), waterless urinals, low flush WC's and low flo taps and automatic taps.

Appliance	Total Number	Total number water Efficient appliances	Percentage
Toilet	250	150	60%
Wastafel	150	100	66%
Etc.	…	…	…
		Average Percentage	**63%**

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
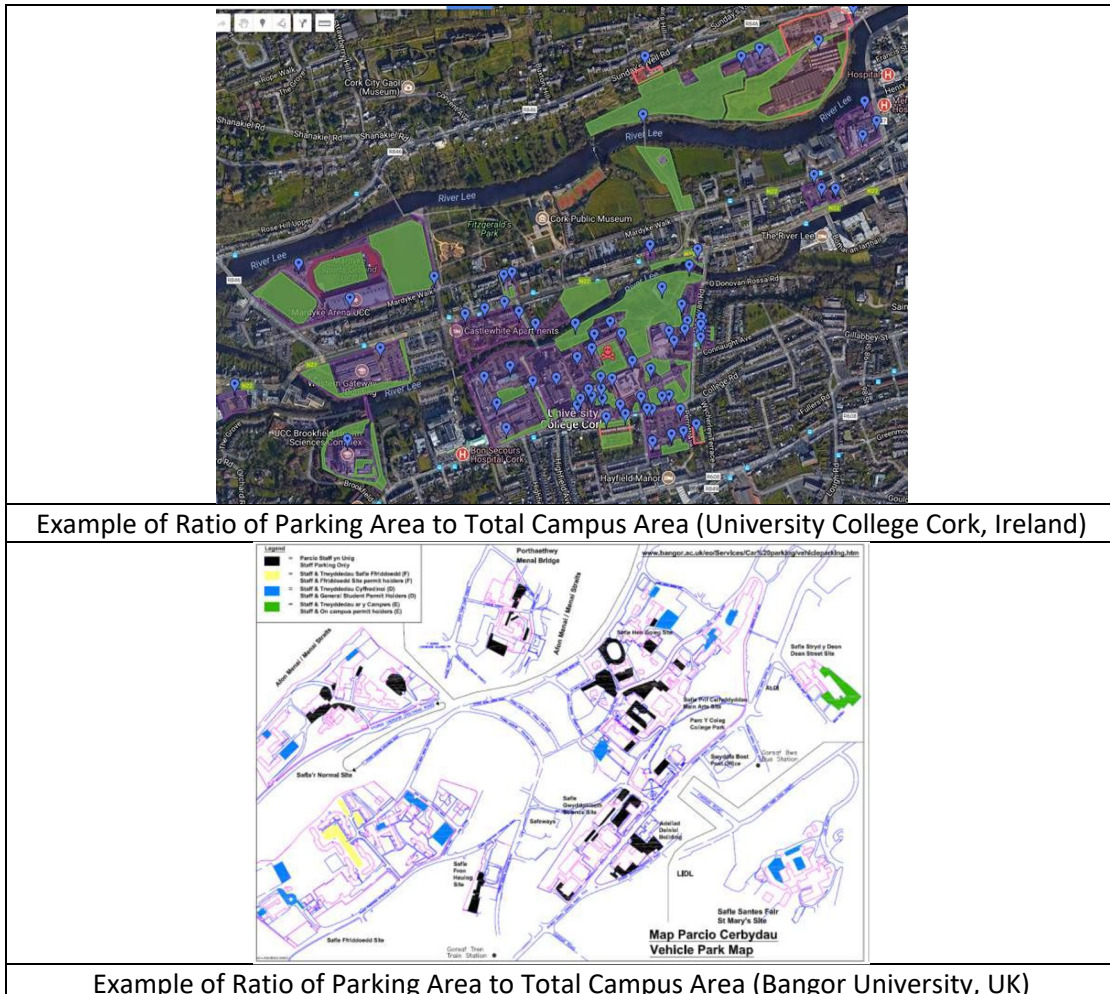
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   …
Country   :   …
Web Address   :   …

[4] Water (WR)

[4.4] Consumption of treated water

Example of **Consumption of treated water** (Universitas Islam Negeri Raden Intan Lampung, Indonesia)

Description:
(*Please describe the water efficient appliances usage on your campus. The following is an example of the description. You can describe more related items if needed*.)

- Water installation of treated-water and it is consumed by student and staff, it located at dormitory, central of Universitas Islam Negeri Raden Intan Lampung.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   …

[4] Water (WR)

[4.5] Percentage of additional handwashing and sanitation facilities during Covid-19 pandemic

Disinfectant chamber on the campus main gate	the entrance of the Engineering Faculty Building
Handwashing Facilities in Rector Office	Pharmacy Faculty building
Examples of handwashing and sanitation facilities during Covid-19 pandemic (Universitas Pancasila, Indonesia)	

Description:
(*Please describe handwashing and sanitation facilities during Covid-19 pandemic. The following is an example of the description. You can describe more related items if needed*.)

Disinfectant chambers provide on the campus main gate and several faculty buildings. Meanwhile, the figure shows handwashing facilities placed near every entrance of buildings. Hand sanitizer containers place in every corner of the buildings, where handwashing facilities are impossible to install.

Desinfection unit
(University of Sousse, Tunisia)

Another example of the description
A disinfection portal was designed by the staff of the institute of technology, then produced and delivered to the university hospital

Facilities	Number of Facilities
Disinfectant chamber	…
Handwashing Facilities	…
etc	…

Question [4.5] = $\frac{Total\ Number\ of\ Facilities}{Total\ Number\ of\ Building}$

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[5] Transportation (TR)

[5.4] The total number of vehicles (cars and motorcycles) divided by total campus' population

No.	Vehicle	Total Number
1	Car managed by the university	50
2	Cars entering the university	150
3	Motorcycles entering the university	400
	Total	600

5.4 = 600 / 5000 (population) = 0.12

Description:
(*Please describe the shuttle services on your campus. The following is an example of the description. You can describe more related items if needed*.)

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University : ...
Country : ...
Web Address : ...

[5] Transportation (TR)

[5.5] Shuttle Services

Example of Shuttle Services (Universitas Indonesia, Indonesia)

Example of Shuttle Services – Bus Timetable (Bangor University, UK)

Description:
(*Please describe the shuttle services on your campus. The following is an example of the description. You can describe more related items if needed*.)

University sites in and around Bangor and Menai Bridge are very well served by local buses run by the County Councils so there is very little demand for shuttle buses. To view all the timetables

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
https://www.gwynedd.llyw.cymru/en/Residents/Parking-roads-and-travel/Bus-timetables/Bustimetables.aspx
http://www.anglesey.gov.uk/transport-and-roads/public-transport/bus-or-coach/local-bus-timetables/
The University also actively supports Traveline Cymru's journey planner scheme, myunijourney
http://planet.cymru/en/feeling-lost-in-bangor/

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[5] Transportation (TR)

[5.9] Zero Emission Vehicles (ZEV) Policy on Campus

Example of Campus Bikes (University College Cork, Ireland)

Example of Charging points for EV (University College Cork, Ireland)

Example of Free Electric Vehicle Charging at The Ffriddoedd Carpark (Bangor University, UK)

Example of Zero Emission Vans (Bangor University, UK)

Description:
(*Please describe the Zero Emission Vehicles (ZEV) policy on your campus. The following is an example of the description. You can describe more related items if needed*.)

All Bangor University sites are cyclist and pedestrian friendly. Many have vehicle-free paths for these users. There is a 5 mph speed limit on all internal roads, and cycle paths on the public roads. All sites have cycle racks in a variety of designs. The University offers free showers to cyclists, runs a "Cycle to Work" scheme for staff as well as encouraging cycling through a number of services, events and groups, and providing free bikes to students.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[5] Transportation (TR)

[5.13] Ratio of Parking Area to Total Campus Area

Example of Ratio of Parking Area to Total Campus Area (University College Cork, Ireland)

Example of Ratio of Parking Area to Total Campus Area (Bangor University, UK)

Description:
(*Please describe the ratio of parking area to total campus area. The following is an example of the description. You can describe more related items if needed*.)

Total main campus area: 740,300 m^2
Total parking area = 19525m^2 (1562 spaces*12.5m^2 per space).
Ratio = 0.026

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   …
Country   :   …
Web Address   :   …

[5] Transportation (TR)

[5.14] Program to limit or decrease the parking area on campus for the last 3 years (from 2018 to 2020)

Limiting parking zone (Universitas Diponegoro, Indonesia)

Free Bicycle for rent (Universitas Indonesia, Indonesia)

Ride Share (Carpool) (Carleton University, Canada)

Description:
(*Please describe the transportation initiatives to decrease private vehicles on campus and specify detail of data, e.g. campus bus, free bicycle, etc. The following is an example of the description. You can describe more related items if needed.*)

1. Limiting parking zone for students
2. Free to rent bicycle on campus
3. Ride share designed to encourage commuters to adopt healthy and sustainable transportation options. (Carpool)

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
- https://carleton.ca/sustainability/campus/sustainable-transportation/carpool/

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[5] Transportation (TR)

[5.15] Number of Transportation Initiatives to Decrease Private Vehicles on Campus

Campus Bus (Universitas Indonesia, Indonesia)	Free Bicycle for rent (Universitas Indonesia, Indonesia)

Description:
(*Please describe the transportation initiatives to decrease private vehicles on campus and specify detail of data, e.g. campus bus, free bicycle, etc. The following is an example of the description. You can describe more related items if needed*.)

1.   Shuttle/bus campus inside campus
2.   Free to rent bicycle on campus

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
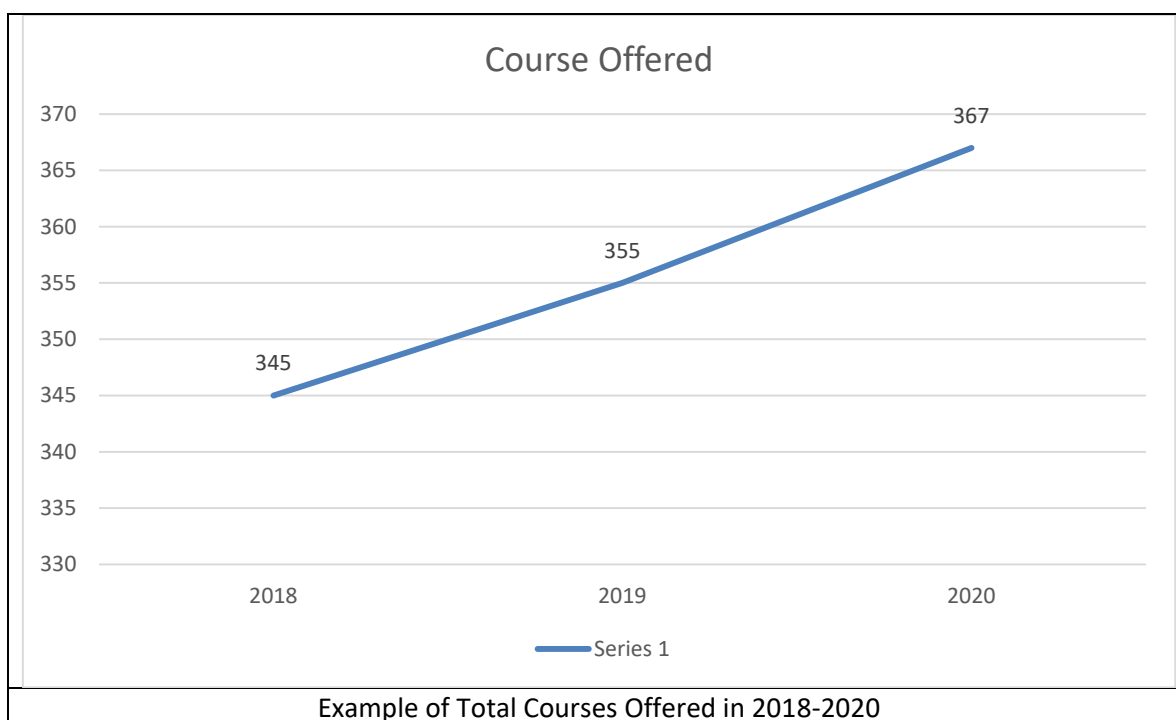
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[5] Transportation (TR)

[5.16] Pedestrian Path Policy on Campus

Example of pedestrian path (Universitas Indonesia, Indonesia)	Example of pedestrian path (Shandong Normal University - Lishan College, China)

Description:
(*Please describe pedestrian path policy on your campus. The following is an example of the description. You can describe more related items if needed*.)

1. Separator between road for vehicle and pedestrian path.
2. Ramps and guiding blocks which have suitable design for pedestrian having physical disabilities.
3. Street lamp for pedestrian in night. Lishan College has 200 solar street lamps, which control the solar street lights automatically through the intensity of light.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
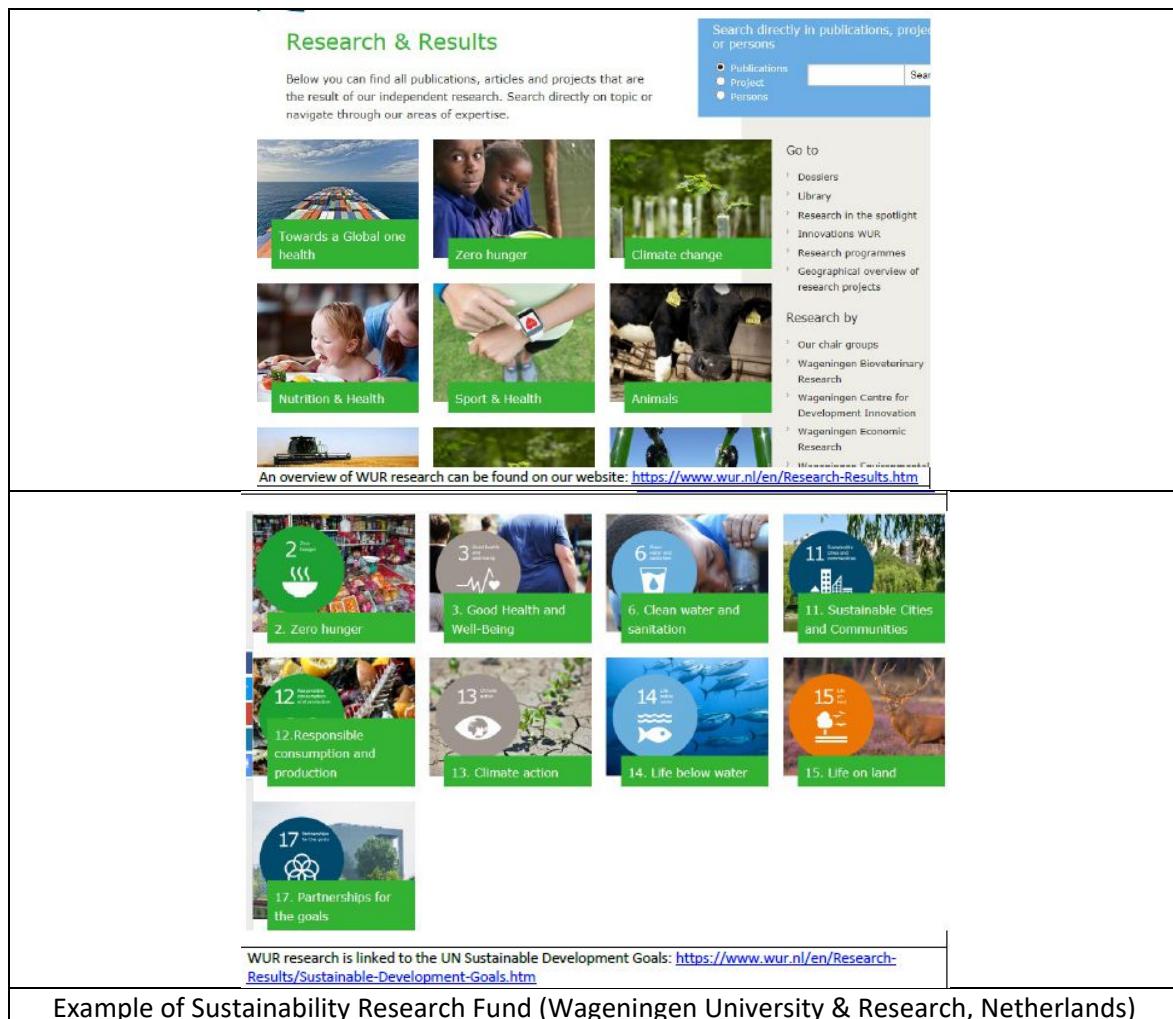
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[6] Education and Research (ED)

[6.1] Number of Courses/Subjects Related to Sustainability Offered

SAMPLE

Example of Courses/Subjects Related to Sustainability (Nottingham Trent University, UK)

Description:
(*Please describe sustainability courses/subjects offered on your campus. The following is an example of the description. You can describe more related items if needed*.)

Above is a list of the courses that have had changes approved through NTU's Curriculum Refresh programme which aims to embed sustainability into all course and module content offered by the University.
The list also includes courses with sustainability already embedded, and those that include the Sustainability in Practice Certificate as part of the core curriculum.

Total number of courses with sustainability embedded for courses running in 2017/18: 185

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
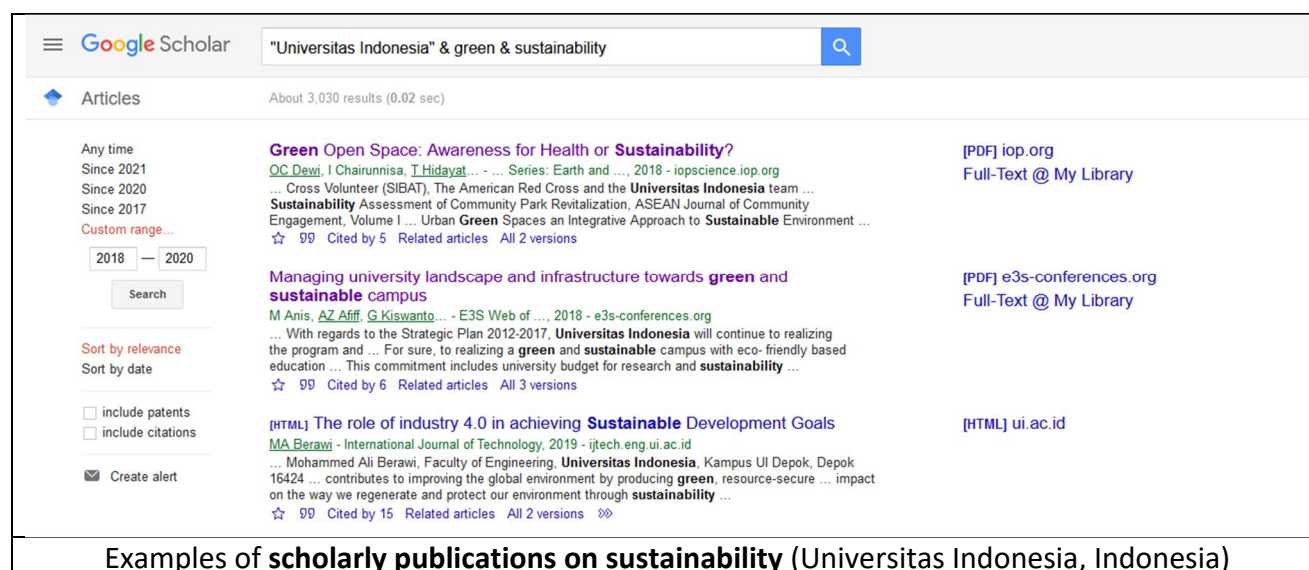
Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[6] Education and Research (ED)

[6.2] Total Number of Courses/Subjects Offered

Example of Total Courses Offered in 2018-2020

Description:
(*Please describe the total of courses/subjects offered on your campus. The following is an example of the description. You can describe more related items if needed*.)

2018	345
2019	355
2020	367

Total number of courses offered in 2020 = 367 courses (not modules)

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[6] Education and Research (ED)

[6.4] Total Research Funds Dedicated to Sustainability Research (in US Dollars)

Example of Sustainability Research Fund (Wageningen University & Research, Netherlands)

Description:
(*Please describe total of sustainability research fund. The following is an example of the description. You can describe more related items if needed.*)

Total research fund dedicated to sustainability research in 2018 = ……... US Dollars
Total research fund dedicated to sustainability research in 2019 = ……... US Dollars
Total research fund dedicated to sustainability research in 2020 = ……... US Dollars
The averaged annum last 3 years of research fund dedicated to sustainability research = ……... US Dollars

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[6] Education and Research (ED)

[6.5] Total Research Funds (in US Dollars)
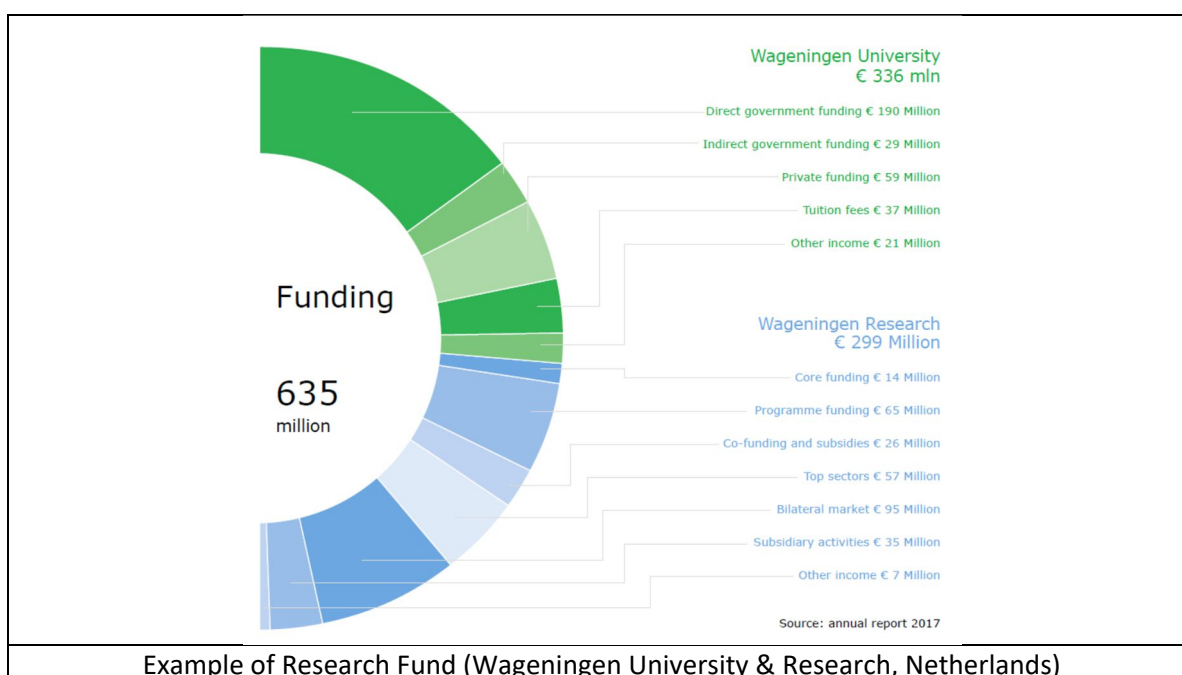
SAMPLE

Example of Research Fund (Wageningen University & Research, Netherlands)

Description:
(*Please describe total of research funds. The following is an example of the description. You can describe more related items if needed*.)

Total research fund in 2018 = …….. US Dollars
Total research fund in 2019 = …….. US Dollars
Total research fund in 2020 = …….. US Dollars
The averaged annum last 3 years of research fund = …….. US Dollars

More over research funding in the Annual report 2017: http://www.wur.nl/en/About-Wageningen/Annual-report-Wageningen-University-Research.htm

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[6] Education and Research (ED)

[6.7] Number of scholarly publications on sustainability

Examples of **scholarly publications on sustainability** (Universitas Indonesia, Indonesia)

Description:
(*Please describe sustainability events on your campus. The following is an example of the description. You can describe more related items if needed*.)

Example of events **scholarly publications on sustainability** in the academic year 2018-2020.
A total average per annum over the last 3 years of **3030 publications**

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[6] Education and Research (ED)

[6.8] Number of Events Related to Sustainability

SAMPLE
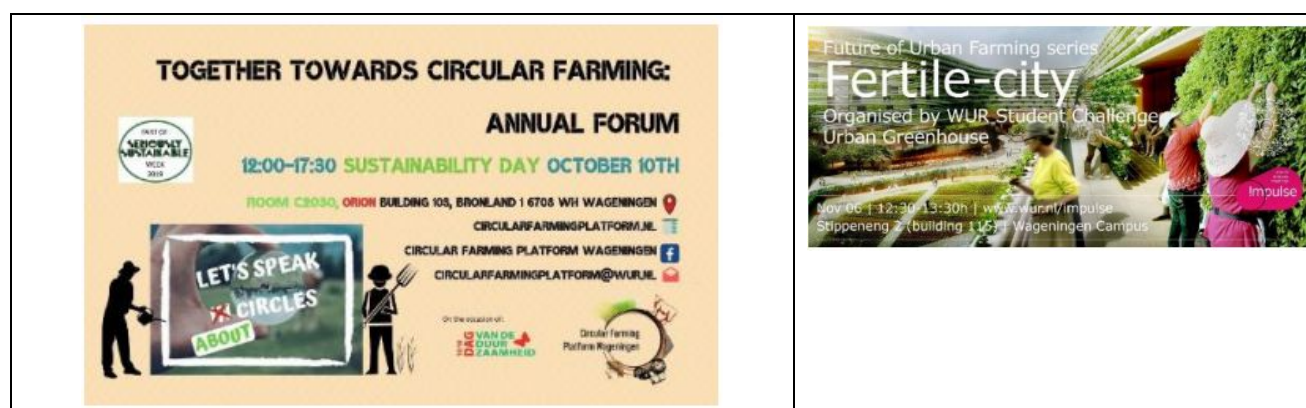
Examples of Events Related to Sustainability (Wageningen University & Research, Netherlands)

Examples of Events Related to Sustainability (University College Cork, Ireland)

Description:
(*Please describe sustainability events on your campus. The following is an example of the description. You can describe more related items if needed*.)

Example of events related to environment and sustainability hosted or organized by the University in the academic year 2018-2020.
Total number of sustainability/environment related events in:
2018: 154
2019: 163
2020: 52

A total average per annum over the last 3 years of **123 events** (e.g. conferences, workshops, awareness raising, practical training, etc.).

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   …
Country   :   …
Web Address :   …

[6] Education and Research (ED)

[6.8] Number of student organizations related to sustainability

Examples of **student organizations** Related to Sustainability (Wageningen University & Research, Netherlands)

Description:
(*Please describe sustainability events on your campus. The following is an example of the description. You can describe more related items if needed*.)

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[6] Education and Research (ED)

[6.12] Sustainability Report

Examples of sustainability report (Nottingham Trent University, UK)

Examples of sustainability report (Universitat Politècnica de València, Spain)

Description:
(*The following is an example of the report link/url*)

Complete text of Universitat Politècnica de València Environmental Statement Report 2017 available on this link: https://riunet.upv.es/handle/10251/101683

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address :   ...

[6] Education and Research (ED)

SAMPLE

[6.13] Number of cultural activities on campus (e.g.Cultural Festival) including virtual activities (if any)

Examples of **cultural activities on campus** (Universitas Indonesia, Indonesia)

Description:
(*Please describe sustainability events on your campus. The following is an example of the description. You can describe more related items if needed*.)

Example of Total number **cultural activities on campus** organized by the University : more than 3 **events**

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   ...
Country   :   ...
Web Address   :   ...

[6] Education and Research (ED)

[6.14] Number of university program(s) to cope with Covid-19 pandemic   SAMPLE

Helpdesk group for E-Learning (University of Sousse, Tunisia)	International Symposium on Disruptive Learning Pathways (Inseec U., France)
Online Teaching Methods (https://pjj.ui.ac.id/panduan-pemula/) (Universitas Indonesia, Indonesia)	

Description:
(*Please describe sustainability events on your campus. The following is an example of the description. You can describe more related items if needed*.)

Helpdesk group for E-Learning
Switching to E-Learning. This mission has as objective to maintain the relationship with the students locked down home and reassure them as well as their families about the fate of the courses and the diplomas. Nevertheless, professors were not ready to switch to total distance learning and some were completely not familiar with eLearning platforms and or software.
For this, the Pedagogic Innovation Cell of the university of Sousse worked very hard to identify the needs very quickly and to organise distance lectures to professors for eLearning discovering and mastering. A Facebook group (Helpdesk for E-Learning) has been created, see Fig. 2, to ensure un quick interaction with professors. Also, no software was imposed to professors (Moodle, Microsoft Team, social media, etc) to reduce technological constraints or teachers/ students apprehension.

Virtual Workshop
International Symposium on Disruptive Learning Pathways
The world of higher education is changing in profound ways and not only in the wake of the COVID-19-related health crisis that is accelerating the digital transition of Higher Education. It is also faced with the challenge of responding to the urgency of climate change and more broadly to the need for learners to develop new and highly specific skills to move towards reaching the 17 Sustainable Development Goals. As such, this silent revolution is underway in higher education institutions worldwide. These fundamental trends are changing not only what should be taught, but also how best to teach it. From the wide range of changes such as active learning, inclusive pedagogies, online and hybrid courses, and green skills, institutions are building on their core strengths while challenging long-held assumptions about how teaching and learning take place. We believe it is important to reflect and exchange on the experiences and challenges that we all face in the volatile international context of Higher Education. This goal of this symposium is to identify ways of ensuring that our students receive the highest possible quality learning experiences. Experts from industry and academia from all over the world will share their experiences and discuss the latest innovations in disruptive learning pathways for fostering success in education.

Online Teaching
(https://pjj.ui.ac.id/panduan-pemula/)
Regarding the Covid-19 Pandemic, the Rector of UI has mandated that the teaching and learning at UI be held virtualy until the end of the 2019/2020 school year. This website contains guidelines for the operation and various related information. This page will be updated regularly.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):
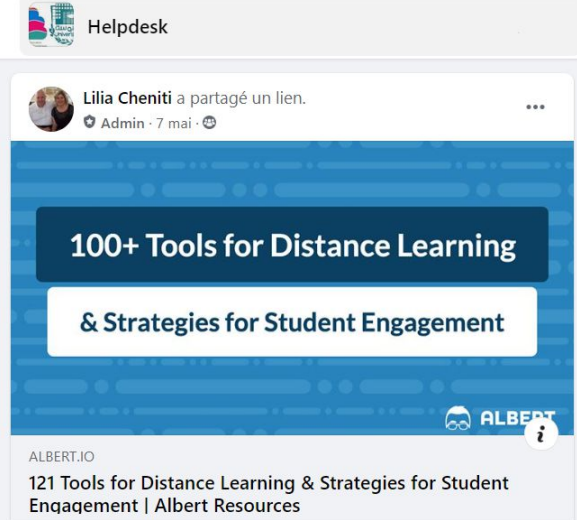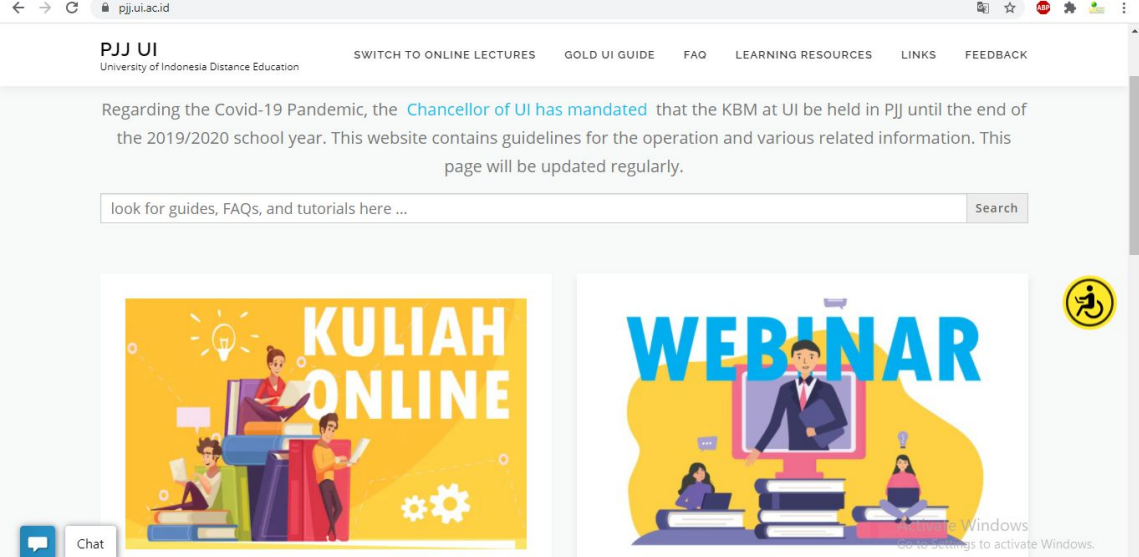
Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universiy A
Country   : United Stated
Web Address : www.universityA.edu

[6] Education & Research

[15] Number of sustainablity community services project organised and/or involving students

Project name	participants	Project duration	Project area
Healthy Davis Together	100	1 month	SI
Yolo County Climate Compact	30	10 years	EC
Food Recovery Network	20	7 years	WS
Woodland-Davis Clean Water Agency	6	9 years	WR
Unitrans	225	52 years	TR
Green Impact Auditors each year we recruit a number of student volunteers to audit staff Green Impact submissions.	13	2 days per year	ED

Description:
*Example from University of California, Davis (SI, EC, WS, WR, TR) and University of Chester (ED)

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University   :   Universiy A
Country   :   United Stated
Web Address   :   www.universityA.edu

[6] Education & Research

[16] Number of sustainability-related startups   **SAMPLE**

No.	Information
1	**Startup name:** Rehabilitation of Clear Lake project* **Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):** SI URL: https://resources.ca.gov/Initiatives/Blue-Ribbon-Committee-for-the-Rehabilitation-of-Clear-Lake* **Description:** *please briefly describe startup history, aims and scope of work, its primary product/activity, size of the startup (e.g. in term of number of employees, annual income, valuation, number and scope of the activities, etc.)* **Photos**: *please put some photos that can help explain the above description. Photos can also be added inline with the above description.*
2	**Startup name:** ... **Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):** ... **URL:** ... **Description:** ... **Photos:** ...
3	Add rows as needed

*) Served only for example, taken from University of California, Davis, in year 2020.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):