



SUSTAINABILITY REPORT



UNIVERSITAS SULTAN AGENG TIRTAYASA
2022

INTRODUCTION

University of Sultan Ageng Tirtayasa, popularly known as Untirta, is a State University (PTN) located at Banten Province, Indonesia. The main campus is in Sindangsari – Serang, Faculty of Engineering is in Cilegon and Faculty of Teacher Training and Education is in Ciwaru – Serang.

As an Institution of Higher Education, students and lecturers conduct research and community services in various fields for the advancement of Indonesia in the future.

Vision and Mission UNTIRTA 2019-2023

Vision

The actualization of Untirta as excellent, characterized, and competitive Integrated Smart and Green (It'S Green) University.

Mission

Upgrading the quality, relevance, and education competitiveness along with excellent and competitive graduates with good personality in ASEAN.

Increasing the quality and quantity of innovative research and community service based on the needs according to current development.

Enhancing the carrying capacity of good university governance as the implementation of Integrated Smart and Green (It'S Green) University.

**Value JAWARA (Jujur Adil Wibawa Amanah Religius Akuntabel)
“UNTIRTA is a house that not only acts as a place, but also as a source of knowledge, example, and virtue. Therefore, all academicians are obliged to uphold these basic values in carrying out their duties and responsibilities. “ (Sulaiman. 2019)**



Category	Point	Maximum Point	Percentage
Setting and Infrastructure (SI)	1,075	1500	71.67 %
Energy and Climate Change (EC)	1,575	2100	75.00 %
Waste (WS)	1,275	1800	70.83 %
Water (WR)	850	1000	85.00 %
Transportation (TR)	1,475	1800	81.94 %
Education (ED)	1,650	1800	91.67 %
Total Score	7,900	10000	79.00 %





Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[1] Setting and Infrastructure (SI)

Universitas Sultan Ageng Tirtayasa (henceforth referred to Untirta), is a state university located in Banten Province, Indonesia. Untirta's campus are in several locations (Serang and Cilegon). Here is the following campus sites.

[1.3] Number of Campus Sites

	<p>Campus A (Pakupatan) Universitas Sultan Ageng Tirtayasa</p>
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Campus B (Cilegon)
Universitas Sultan
Ageng Tirtayasa



Campus C (Ciwaru)
Universitas Sultan
Ageng Tirtayasa



Campus D (Kepandean)
 Universitas Sultan
 Ageng Tirtayasa



Campus E (Sindangsari)
 Universitas Sultan
 Ageng Tirtayasa



Currently, Campus E Sindangsari serves as the administrative hub for the other campuses (Campus A, Campus B, Campus C, and Campus D), as well as being the primary Untirta-owned campus.

**Description:**

Universitas Sultan Ageng Tirtayasa continuously improving its service for three university principle towards better management. Its improvement covers academics and non-academic. Untirta currently hold a program for academic and vocational. For academic in undergraduate program, there are 7 faculties namely (1) Faculty of Law, (2) Faculty of Teacher Training and Education, (3) Faculty of Engineering, (4) Faculty of Agriculture, (5) Faculty of Economy, (6) Faculty of Social Science and Politics, (7) Faculty of Medicine and a graduate program for Master and Doctoral.

In 2022, Universitas Sultan Ageng Tirtayasa has 5 campus sites that located in two cities, Serang and Cilegon:

1. Campus A (Pakupatan)

There are two programs in this campus, undergraduate program for Faculty of Medicine and graduate program for Master and Doctoral.

2. Campus B (Cilegon)

There are 2 faculties in campus locations, Faculty of Engineering and Faculty of Medicine for Medical Department.

a. Faculty of Engineering comprises of 7 departments (1) Department of Electrical Engineering, (2) Department of Industrial Engineering, (3) Department of Chemical Engineering, (4) Department of Mechanical Engineering, (5) Department of Metallurgical Engineering, (6) Department of Civil Engineering dan (7) Department of Information Engineering.

b. Faculty of Medicine is officially established in 2019 by the decree of Ministry of Research, Technology and Higher Education Number 283/KPT/I/2019. This program remains under the supervision of Faculty of Medicine of Universitas Indonesia for five years. There are three departments, Nutrition Departments, Nurse Department, and Sports Science department.

3. Campus C (Ciwaru)

Campus C (Ciwaru) is focussed only for Faculty of Teacher Training and Education. There are 18 departments in this faculty. They are namely (1) Non-formal Education (2) Indonesian Language Education (3) English Education (4) Biology Education (5) Mathematics Education (6) Elementary School Teacher Education (7) PAUD Teacher Education (8) Guidance and Counseling (9) Physics Education (10) Natural Science Education (11) Chemical Education (12) Special Education (13) Pancasila and Citizenship Education (14) History Education (15) Arts and Performing Education (16) Sociology Education (17) Vocational Education in Electrical Engineering (18) Mechanical Engineering Vocational Education.

4. Campus D (Kepandean) holds Diploma III Nurse.

5. Campus E (Sindangsari)

Kampus E (Sindangsari) Campus E Sindangsari serves as the administrative hub for the other campuses (Campus A, Campus B, Campus C, and Campus D). In addition, Campus E Sindangsari has developed a water management system, automation system, and has a substation equipped with German technology. Campus E Sindangsari consists of several buildings:



(1) Rectorate, (2) Faculty of Politics and Social Science, (3) Integrated Laboratory, (4) Faculty of Agriculture (5) Library, (6) Integrated Classroom, (7) Faculty of Economy and Business. (8) Auditorium, (9) Faculty of Law, (10) Male and Female Dormitory (12) Student Center.

Additional evidence link:

1. Maps of Campus A (Pakupatan) : <https://goo.gl/maps/hf8fc22kcdM6FhbN6>
2. Maps of Campus B (Cilegon) : <https://goo.gl/maps/2x8GmRCvFofeRAFUA>
3. Maps of Campus C (Ciwaru) : <https://goo.gl/maps/SCmTSeb6hwkSe7UQA>
4. Maps of Campus D (Kepandean) : <https://goo.gl/maps/QJRW27GQUtJ3iQsi7>
5. Maps of Campus E (Sindangsari) : <https://goo.gl/maps/PKyYr9GGpQ4xCsX6>



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[1] Setting and Infrastructure (SI)

[1.4] Campus Setting

A. Campus A (Pakupatan)



Location of Campus A Pakupatan (Universitas Sultan Ageng Tirtayasa, Indonesia)

Description:

Campus A (Pakupatan) is located in Serang City. It is the capital city of Banten Province. It may also become an alternative and buffer area for the capital city of Indonesia because it is only located ± 84 km from Jakarta.

The location of campus A Pakupatan is close to residential areas and adjacent to the Pakupatan Bus Terminal. Campus A Pakupatan stands on an area of 2.84 hectares consisting of an administration building and a postgraduate lecture building. Serang City has an area of 266.74 km² with a population of Serang City in 2021 as many as 704.618 people, the population density level in the Serang City area is 2.641 people/km² where most of the population lives in urban areas.

Additional evidence link:

1. <https://untirta.ac.id/tentang/>
2. <https://serangkota.bps.go.id/indicator/12/53/1/jumlah-penduduk.html>



B. Campus B Cilegon



Location of Campus B Cilegon (Universitas Sultan Ageng Tirtayasa, Indonesia)





Master plan Area of Campus B Cilegon (Universitas Sultan Ageng Tirtayasa, Indonesia)

Description:

On Campus B (Cilegon) there are 2 faculties, namely the Faculty of Engineering and the Faculty of Medicine. Faculty of Engineering is in Cilegon Industrial Estate in which there are various kinds of steel, chemical, manufacturing, engineering, and power generation industries, including PT. Krakatau Steel & Group, PT. Krakatau Posco, PT. Candra Asri, PT. Asahimas, PT. Tri Polita, PT. PLN (Persero) PLTGU Cilegon, PT. Indonesia Power UBP Suralaya and many others. Geographically, the Faculty of Engineering Untirta is located at the gate and trade route of Java-Sumatra as well as international trade routes, namely the ASDP crossing port in Merak and several international ports, including Cigading, Bojonegara and Krakatau Bandar Samudra.

Faculty of Engineering stands on an area of 6.17 hectares, consisting of 3.43 hectares used for academic activities and the remaining 2.74 hectares in the form of land overgrown with large forests/trees. In addition, currently the Faculty of Engineering has physical facilities, namely the Dean Building, Hall Building, COE Petrochemical Building, Lecture Building with three floors, Secretariat Room, Lecturer Room, Laboratory, Library, Cooperative Room, Al-Muta'alimin Mosque, Computer Room, Room Workshop, Undergraduate Meeting Room, Clinic, Student Canteen, Department Student Association Room, Sports Facilities and Parking Facilities. Faculty of Engineering continues to make changes and improvements, both in the institutional, academic, as well as in the field of student affairs and cooperation. Changes and improvements in the academic field, especially the formation of new departments, construction of educational facilities and infrastructure in accordance with the master plan design. One of the efforts to improve services in 2022, the Faculty of Engineering, has completed the construction of the Hijrah Canteen Building in accordance with the master plan of the Faculty of Engineering. In addition to the Faculty of Engineering, there is also a Faculty of Medicine which is still in the same campus environment as B.

Cilegon City has an area of 175.5 km², the population of Cilegon City in 2022 is 441,490 people, the population density level in the Cilegon City area is 2,515 people/km².



Additional evidence link:

1. <http://ft.untirta.ac.id/>
2. <https://kedokteran.untirta.ac.id/>
3. <https://cilegonkota.bps.go.id/publication/2021/02/26/62579c317955d0838eef1313/kota-cilegon-dalam-angka-2021.html>

C. Kampus C Ciwaru



Location of Campus C Ciwaru (Universitas Sultan Ageng Tirtayasa, Indonesia)

Description:

Campus C (Ciwaru) is a Faculty of Teacher Training and Education located in Serang City, where Serang City is the administrative center of Banten Province as well as an alternative and buffer area for the State Capital, because from the Special Capital Region of Jakarta it is only about 84 km. The capital city of Serang is in Serang Regency. Campus C (Ciwaru) stands on an area of 2.9 Ha. The location of campus C (Ciwaru) is close to residential areas.

And in 2018 received the mandate to organize the Teacher Professional Education Program through the Decree of the Minister of Research, Technology and Higher Education of the Republic of Indonesia Number: 990/KPT/I/2018, 9 November 2018, namely the fields of study: Physics, Chemistry, Language, English, Biology, Mathematics and Elementary School Teachers.

Serang City has an area of 266.74 km² with a population of Serang City in 2021 as many as 704.618 people, the population density level in the Serang City area is 2.641 people/km² where most of the population lives in urban areas.



Additional evidence link:

1. <http://fkip.untirta.ac.id/>
2. <https://serangkota.bps.go.id/publication/2021/02/26/92d07f0edc333af1889f4a49/kota-serang-dalam-angka-2021.html>

D. Campus D Kepandean



Location of Campus D Kepandean (Universitas Sultan Ageng Tirtayasa, Indonesia)

Description:

Campus D (Kepandean) or Diploma III Nursing Campus is located in Serang City like campuses A and C. Campus D Kepandean stands on an area of 0.593 ha. The location of the D Kepandean campus is adjacent to residential areas and the Bus Terminal.

Additional evidence link:

1. <https://kedokteran.untirta.ac.id/>



E. Campus E Sindangsari



Location of Campus E Sindangsari (Universitas Sultan Ageng Tirtayasa, Indonesia)



KESIAPAN DAN PELAKSANAAN PROYEK



Pembangunan Embung Universitas Sultan Ageng Tirtayasa dilaksanakan pada Kawasan Kampus Sindang Sari dengan areal konstruksi yang berada di atas Tanah milik Universitas Sultan Ageng Tirtayasa yang telah dibebaskan. Pada tanggal 1 Desember 2021, Dokumen Upaya Pengelolaan Lingkungan Hidup dan Upaya Pemantauan Lingkungan Hidup (UKL-UPL) sebagai Persyaratan Kesanggupan dalam Pengelolaan Lingkungan Hidup telah disetujui oleh Dinas Lingkungan Hidup Kabupaten Serang. Dan selanjutnya pada tanggal 28 Februari 2022, Dokumen Kontrak dari 2 paket pekerjaan yaitu Paket Supervisi Konstruksi dan Paket Pembangunan telah ditandatangani dan menjadi permulaan dalam pelaksanaan konstruksi Pembangunan Embung Unirta yang ditargetkan selesai pada akhir tahun anggaran 2022.



BIRD VIEW AREAL KONSTRUKSI
PEMBANGUNAN EMBUNG SULTAN
AGUNG TIRTAYASA

**Master plan of South Embung Landscape at Campus E Sindangsari
(Universitas Sultan Ageng Tirtayasa, Indonesia)**

Description:

Campus E (Sindangsari) is located in Serang Regency, Campus E Sindangsari is close to the administrative center of Banten Province with a distance of about ± 4 km. Campus E is built on an area of 28.5 Ha consisting of 12.9 Ha which has been built with 12 buildings, and 0.7 Ha was built as an Embung (water treatment), and the remaining 14.9 Ha is a land overgrown with trees. The location of Campus E Sindangsari is bordered by plantation and forest areas. There 12 buildings including: (1) Rectorate, (2) Faculty of Social and Political Sciences, (3) Integrated Sustainable Agriculture Laboratory, (4) Faculty of Agriculture, (5) Library, (6)



Integrated Classroom, (7) Faculty of Economics and Business, (8) Auditorium, (9) Faculty of Law, (10) Girls' Dormitory, (11) Boys' Dormitory and (12) Student Learning Center. The construction of Campus E Sindangsari was built with the concept of Smart and Green Building. In addition, Campus E is also equipped with a Retention Pool as a water catchment area with an area of 13,892 m².

Additional evidence link:

1. <https://untirta.ac.id/tentang/>
2. <https://untirta.ac.id/2021/02/09/wujudkan-smart-green-campus-untirta-tuai-dukungan-pemerintah-kabupaten-serang/>
3. <https://www.youtube.com/watch?v=azOBpa4g5lw>
4. <https://bidikutama.com/berita-mahasiswa/jokowi-perintahkan-menteri-pupr-bangun-embung-di-kampus-sindangsari/>



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[1] Setting and Infrastructure (SI)

[1.5] Total Campus Area (m²)



Total Area of
**Campus A
Pakupatan**
(Universitas Sultan
Ageng Tirtayasa,
Indonesia)



Total Area of
Campus B Cilegon
(Universitas Sultan
Ageng Tirtayasa,
Indonesia)



Total Area of
Campus C Ciwaru
(Universitas Sultan
Ageng Tirtayasa,
Indonesia)



Total Area of
**Campus D
Kepandean**
(Universitas Sultan
Ageng Tirtayasa,
Indonesia)



Total Area of
**Campus E
Sindangsari,**
**Master plan of
Embung Campus E
and Development
Land Use of
Campus E**
(Universitas Sultan
Ageng Tirtayasa,
Indonesia)





**Agricultural land
(Karangkitri)**
As
Land for Practicum
of the Faculty of
Agriculture



**Agricultural land
(Cadasari,
Pandeglang)**
As
Ecofarm Riset



**Description:**

Universitas Sultan Ageng Tirtayasa has 5 campuses located in two cities, and 2 Agricultural Lands with each of the following areas:

No.	Campus	Area (m ²)	Distance (m')
1.	Campus A Pakupatan	28.384	859
2.	Campus B Cilegon	61.847	1210
3.	Campus C Ciwaru	29.216	915
4.	Campus D Kepandean	5.933	309
5.	Campus E Sindangsari	127.054	3590
6.	Embung at Campus E Sindangsari	13.892	
7.	Development Land Campus E	176.102	
7.	Agricultural land (Karangkitri)	21.483	673
8.	Agricultural land (Cadasari)	74.250	1448
		538.161	

Additional evidence link :

1. [https://www.google.com/maps/place/Universitas+Sultan+Ageng+Tirtayasa+\(Untirta\)/@-6.120726,106.194561,13z/data=!4m5!3m4!1s0x0:0xd7fbb1e65b42cbd2!8m2!3d-6.1207259!4d106.1945611?hl=id-ID](https://www.google.com/maps/place/Universitas+Sultan+Ageng+Tirtayasa+(Untirta)/@-6.120726,106.194561,13z/data=!4m5!3m4!1s0x0:0xd7fbb1e65b42cbd2!8m2!3d-6.1207259!4d106.1945611?hl=id-ID)
2. <https://untirta.ac.id/>
3. <https://www.google.com/maps/place/Fakultas+Teknik+UNTIRTA/@-5.996273,106.032095,13z/data=!4m5!3m4!1s0x0:0x249411dd80bfd66e!8m2!3d-5.9962731!4d106.032095?hl=id-ID>
4. <https://ft.untirta.ac.id/>
5. <https://www.google.com/maps?ll=-6.130764,106.16566&z=13&t=m&hl=id-ID&gl=US&mapclient=embed&cid=12412607988068042645>
6. <http://fkip.untirta.ac.id/>
7. <https://www.google.com/maps/place/Kampus+D3+Keperawatan+Universitas+Sultan+Ageng+Tirtayasa/@-6.1118034,106.1424769,17.57z/data=!4m5!3m4!1s0x2e418b26b0bae6a1:0x7daee5584bf42617!8m2!3d-6.1119801!4d106.141035>
8. <https://www.google.com/maps/place/Universtas+Sultan+Ageng+Tirtayasa+Banten/@-6.1909125,106.1242294,17.33z/data=!4m8!1m2!3m1!1s0x0:0xd0e3e2065d06d35c!3m4!1s0x2e4221ef196497b9:0xf60ef7a24ea5646c!8m2!3d-6.1903756!4d106.1245219?hl=id-ID>
9. <https://www.youtube.com/watch?v=azOBpa4g5lw>
10. <https://bidikutama.com/berita-mahasiswa/jokowi-perintahkan-menteri-pupr-bangun-embung-di-kampus-sindangsari/>



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UI GreenMetric Questionnaire**

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[1] Setting and Infrastructure (SI)

[1.7] Total Campus Building Area (m²)

A. Campus A Pakupatan



Rectorate Building



A Building



Postgraduate Building



B Building



Gedung Doktor Pascasarjana

Description:

The following is a list of the basic and overall building areas at Campus A Pakupatan:

No.	Building	Ground Floor Area (m ²)	Number of Floors	Area (m ²)
1.	Central Security Post	12	1	12
2.	Left Security Post	24	1	24
3.	ATM Gallery	31	1	31
4.	Rectorate Building	1.055	2	2.110
5.	Lab. FKIP & Clinic	251	2	502
6.	UTBK	603	1	603
7.	UPT Building	116,5	2	233
8.	Law Faculty	455	2	910
9.	Faculty of Economics and Business	605,5	2	1.211
10.	Lab. & Library of FEB	93,5	2	187
11.	Library	405,5	2	811
12.	Gedung Program Doktor Pascasarjana	626,5	2	1.253
13.	Data and Information Centre Building	293,5	2	587
14.	Lecturer room of Faculty of Agriculture	50	2	100
15.	Faculty of Agriculture	553	1	553
16.	Lab. Green House of Agriculture	279	3	838
17.	Lab. Faculty of Agriculture	80	3	240
18.	C Building	679,33	3	2.038
19.	PKM B	590	1	590
20.	PKM A	559	1	559
21.	Saung of students	30	1	30
22.	Back Side Canteen	176	1	176
23.	Canteen of B Building	60	1	60
24.	B Building	784,75	4	3.139
25.	A Building	789,25	4	3.157
26.	Integrated Laboratory	1.450	3	4.350
27.	Saung Untirta Serang	36	1	36
28.	Generator Room	28	1	28
29.	Mosque	750	1	750
Total (m²)		11.467,33		25.118



B. Campus B Cilegon

	
Dean Building Faculty Of Engineering	Faculty Of Engineering Hall
	
Lecture Building	Medical Faculty Building
	
COE Building	Lecture Building

Description:





The following is a list of the basic and overall building areas on Campus B Cilegon:

No.	Building	Ground Floor Area (m ²)	Total of Floor	Area (m ²)
1.	Security Post 1	9	1	9
2.	Security Post 2	25	1	25
3.	Clinic	78	1	78
4.	Dean's Canteen	162	1	162
5.	Engineering Faculty Hall	796	1	796
6.	New Dean's Building	700	5	3500
7.	Old Secretariat	500	1	500
8.	Old Dean's building	426	1	426



9.	Mosque	675	1	675
10.	BR Building	300	3	900
11.	PKM	288	1	288
12.	U Lecture Building	1.551	3	4.652
13.	COE Building	807	4	3.228
14.	Medical building	517	3	1.551
15.	New Canteen	800	2	684
Total (m²)		7634	-	17.474

C. Campus C Ciwaru

	
Lecturer Room and Library	Lecturer Room
	
Mosque	PKM



Art Practice Building



Lecture Building A and B



Dormitory Building

Description:

The following is a list of the basic and overall building areas at Campus C Ciwaru:

No.	Building	Ground Floor Area (m ²)	Number of Floors	Area (m ²)
1.	Security Post	9	1	9
2.	Head of Department Building	209	1	209
3.	Lecturer Building	282	1	282
4.	ATM Gallery	31	1	31
5.	Engineering Laboratory	60	1	60
6.	Mosque	237	1	237
7.	PKM	193	1	193
8.	Art Practice Building	286	1	286
9.	Lecture Building A	595	1	595
10.	Lecture Building B	598	3	1.795
11.	Lecture Building C	544	3	1.632
12.	Old Lecture Building	150	1	150
13.	Canteen	134	1	134
14.	Dormitory	565,5	4	2.262
15.	Lecture Building of FKIP	1.672	4	6.688
Total (m²)		5.565,5	-	14.563



D. Campus D Kepandean



	
Dormitory	Lecture Building

Description:

The following is a list of the basic and overall building areas on Campus D Kepandean:

No.	Building	Ground Floor Area (m ²)	Number of Floors	Area (m ²)
1.	Security Post	5	1	5
2.	Office	389,5	2	779
3.	Lab. Demon	147	1	147
4.	Lab. KMB	166	1	166
5.	Nursing Laboratory	83	2	166
6.	Female's Mosque	82	1	82
7.	Male's Mosque	51	1	51
8.	Classes	555,5	2	1.111
9.	Male Dormitory 1	364	1	364
10.	Male Dormitory 2	50	1	50
11.	Male Dormitory 3 dan Kitchen	157	1	157
12.	Male Dormitory 4	87	1	87
13.	Female Dormitory 1	325	1	325
14.	Female Dormitory 2 dan Clinic	306	1	306
15.	Female Dormitory 3	90	1	90
16.	Guest House	1.184	1	1.184
Total (m²)		4.042	-	5.070



E. Campus E Sindangsari



Rectorat



Faculty of Politics and Social Science



Integrated Sustainable Agriculture LAB



Faculty of Agriculture



Library



Integrated Classroom



Faculty Economy and Bussines



Auditorium



	
Faculty of Law	Female Dormitory

	
Male Dormitory	Student Learning Center

Description:

The following is a list of the basic and overall building areas at Campus E Sindangsari:

No.	Building	Ground Floor Area (m ²)	Number of Floors	Area (m ²)
1.	Rectorat	1.585,60	4	6.469
2.	Faculty of Politics and Social Science	1.239,19	4	4.230
3.	Integrated Sustainable Agriculture LAB	3.757,15	1	3.755
4.	Faculty of Agriculture	1.630,90	4	5.140
5.	Library	812,50	4	3.250
6.	Integrated Classroom	1.112,75	4	4.451
7.	Faculty Economy and Bussines	2.114,11	4	7.800
8.	Auditorium	3.880,40	4	4.746
9.	Faculty of Law	1.430,71	4	4.866
10.	Male Dormitory	792,66	4	2.460
11.	Female Dormitory	792,66	4	2.460
12.	Student Learning Center	4.111,54	4	10.651,91
13.	Gardu PLN	24	1	24
14.	Power House & Trafo	312	1	312
15.	Tangki Air Bersih	34	1	800
16.	Gate/Security Post	34	1	34
Total (m²)		23.664,17	-	61.448,91



Recapitulation of Total Campus Building Area:

No.	Untirta Campuses	Building Area (m ²)
1.	Campus A (Pakupatan)	25.118
2.	Campus B (Cilegon)	17.474
3.	Campus C (Ciwaru)	14.563
4.	Campus D (Kepandean)	5.070
5.	Campus E (Sindangsari)	61.448,91
TOTAL		123.673,91

Additional evidence link :

<https://green.untirta.ac.id/penataan-dan-infrastruktur/>



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[1] Setting and Infrastructure (SI)

[1.8] The Ratio Of Open Space To Total Area

A. Campus A Pakupatan



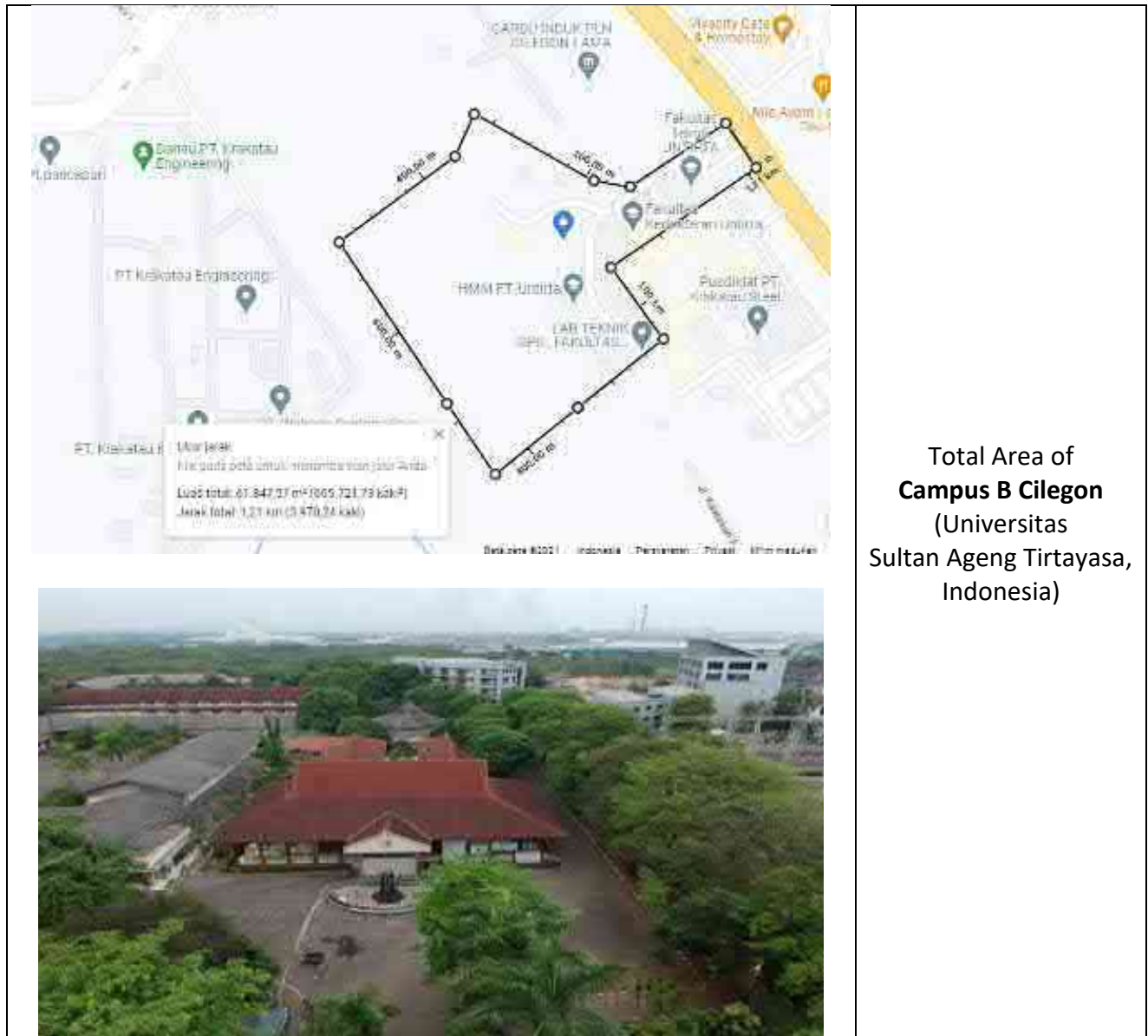
Total Area of
Campus A Pakupatan
(Universitas Sultan
Ageng Tirtayasa,
Indonesia)

Description:

The total area of campus A Pakupatan is 28,384 m²

The total base area of the Pakupatan Campus A building is 11,467.33 m²

The total open space area is $28,384 \text{ m}^2 - 11,467.33 \text{ m}^2 = 16,916.67 \text{ m}^2$



The total area of campus B Cilegon is 61,847 m²
 The total building base area of the Campus B Cilegon is 7,634 m²
 The total open space area is 61,847 m² – 7,634 m² = 54,213 m²



C. Campus C Ciwaru



Total Area of
Campus C Ciwaru
(Universitas
Sultan Ageng
Tirtayasa, Indonesia)

Description:

The total area of the C Ciwaru campus is 29,216 m²

The total base area of the Campus C Ciwaru building is 5,565.5 m²

Total open space area is $29,216 \text{ m}^2 - 5,565.5 \text{ m}^2 = 23,650.5 \text{ m}^2$

D. Campus D Kepandean



Total Area of
**Campus D
Kepandean**
(Universitas
Sultan Ageng
Tirtayasa, Indonesia)

Description:

The total area of campus D Kepandean is 5,933 m²

The total base area of Campus D Kepandean building is 4,042 m²

The total open space area is 5,933 m² – 4,042 m² = 1,891 m²



E. Campus E Sindangsari



**Total Area of
Campus E
Sindangsari**
(Universitas
Sultan Ageng
Tirtayasa,
Indonesia)



Description:

The total area of campus E Sindangsari is 317,048 m²

The total area of Campus E Sindangsari building is 23,664.17 m²

Total open space area is 317,048 m² – 23,664.17 m² = 293,383.83m²

Open Space to Total Area Data Recapitulation:

No.	UNTIRTA's Campuses	Campus Area (m ²)	Ground Floor Area (m ²)	Open Space (m ²)
		(1.5)	(1.6)	(1.5-1.6)
1.	Campus A (Pakupatan)	28.384	11.467,33	16.916,67
2.	Campus B (Cilegon)	61.847	7.634	54.213
3.	Campus C (Ciwaru)	29.216	5.565,5	23.650,5
4.	Campus D (Kepandean)	5.933	4.042	1.891
5.	Campus E Sindangsari	127.054	23.664,17	103.389,83
6.	Embung of Campus E Sindangsari	13.892	0	13.892
7.	Campus E Development Land	176.102	0	176.102
8.	Agricultural land (Karangkitri)	21.483	0	21.483
9.	Agricultural land (Pandeglang)	74.250	0	74.250
TOTAL		538.161	52.373	485.788

Based on a total of 5 campuses and with the addition of land used as a practical laboratory from the faculty of agriculture, the ratio of open space to the total area of UNTIRTA is:

$$\text{The Ratio of Open Space to Total Area} = \frac{(1.5-1.6)}{1.5} \times 100\% = \frac{485.788}{538.161} \times 100\% = 91\%$$

Where the value of 91 % is included in the category [4], namely > 90% - 95%

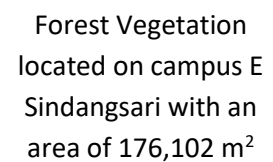
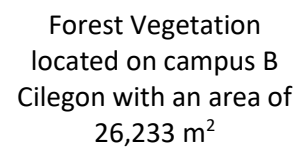
Additional evidence link:

<https://green.untirta.ac.id/penataan-dan-infrastruktur/>



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[1.9] Total Area On Campus Covered In Forest Vegetation (m²)





Forest vegetation in
Karangitri with an
area of 21,483 m²



Forest Vegetation in Cadasari, Pandeglang with an area of 74,250 m²



Description:

The total area of Campus B (Cilegon), Campus E (Sindangsari), Karangkitri Agricultural Experimental Garden, and Pandeglang Experimental Garden are covered with forest vegetation.

Open Space to Total Area Data Recapitulation:

No.	Untirta's Campuses	Open Space (m ²)
1.	Campus B Forest Vegetation	26.233
2.	E Campus Development Area	176.102
3.	Agricultural Area (Karangkitri)	21.483
4.	Agricultural Area (Pandeglang)	74.250
TOTAL		298.068

Total campus area = 538.161 m²

So that the ratio of the total area on the campus covered by forest vegetation is obtained:

$$\% \text{ ratio} = \frac{298.068}{538.161} \times 100\% = 55,39 \%$$

Where the value of **55,39%** is included in the category [5], namely > 35%

Additional evidence link:

<https://green.untirta.ac.id/penataan-dan-infrastruktur/>



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[1] Setting and Infrastructure (SI)

[1.10] Total Area On Campus Covered In Planted Vegetation

A. Campus A Pakupatan



Description:

Area of Campus A Pakupatan: 28,384 m²

Green area (garden): 839.50 m²

B. Campus B Cilegon





Description:

Cilegon Campus B area: 35,614 m²

Green Area (garden): 1,350 m²

C. Campus C Ciwaru

Green Area





Description:

The area of Campus C Ciwaru: 29,216 m²

Green area (garden): 25 m²

D. Campus D Kepandean

Green Area	
	

Description:

Area of Campus D Kepandean: 5,933 m²

Green area (garden): 70.65 m²

E. Campus E Sindangsari

Green Area	
	



Description:

Area of Campus E Sindangsari: 127,054 m²

Green area (garden): 45,218 m²



Data Recapitulation Total area on campus covered in planted vegetation:

No.	Untirta's Campuses	Campus Area (m ²)	Garden (m ²)
1.	Campus A (Pakupatan)	28.384	839,5
2.	Campus B (Cilegon)	35.614	1.350
3.	Campus C (Ciwaru)	29.216	25
4.	Campus D (Kepandean)	5.933	70,65
5.	Campus E Sindangsari	127.054	45.218
6.	Campus		30.250
TOTAL		226.201	77.753,15

Based on the total area of garden on 5 campuses, total area on campus covered in planted vegetation of UNTIRTA is:

Total area on campus covered in planted vegetation = $\frac{77.753,15}{226.201} \times 100\% = 34,00 \%$

In which the value of 34.00 % is included in the category [4], namely > 30% - 40%

Additional evidence link:

<https://green.untirta.ac.id/penataan-dan-infrastruktur/>



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[1] Setting and Infrastructure (SI)

[1.11] Total Area On Campus For Water Absorption Beside Forest And Planted Vegetation

A. Campus A Pakupatan

Water Infiltration Area (Con-Block Installation In Parking Land)



Description:

Area of Campus A Pakupatan: 28,384 m²

Absorption area: 2,628.97 m²

B. Campus B Cilegon

Water Infiltration Area (Grass And Con-Block Installation)



Description:

Cilegon Campus B area: 35,614 m²

Absorption area: 5,600 m²



C. Campus C Ciwaru

Water Infiltration Area (Con-Block Installation In Parking Area)



Description:

The area of Campus C Ciwaru: 29,216 m²

Absorption area: 3,183 m²



D. Campus D Kepandean

Water Infiltration Area (Con-Block Installation In Parking Area)



Description:

Area of Campus D Kepandean: 5,933 m²

Absorption area: 449 m²

E. Campus E Sindangsari

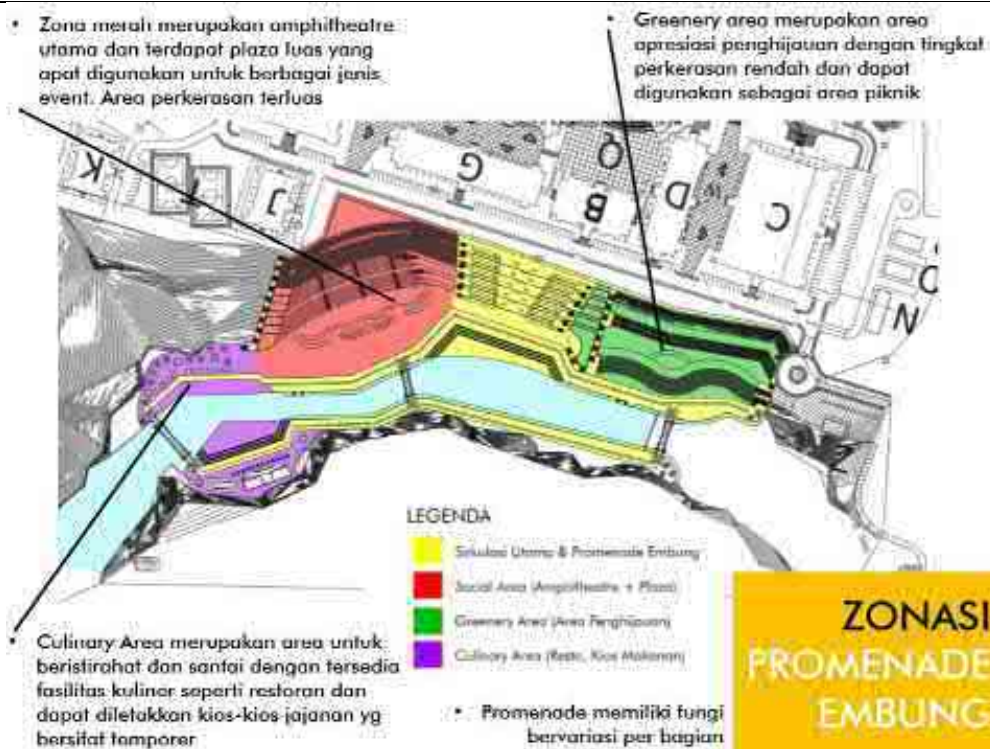
Water Infiltration Area (Grass And Con-Block Installation)



East Side + West Side Retention Pool Construction



Master Plan For Pond/Embung of Campus E Sindangsari





Description:

Area of Campus E Sindangsari: 127,054 m²

Absorption area: 33,480 m²

Data Recapitulation Total area on campus for water absorption beside forest and planted vegetation:

No.	Untirta's Campuses	Campus Area (m ²)	Absorption (m ²)
1.	Campus A (Pakupatan)	28.384	2.628,97
2.	Campus B (Cilegon)	35.614	5.600
3.	Campus C (Ciwaru)	29.216	3.183
4.	Campus D (Kepandean)	5.933	449
5.	Campus E Sindangsari	127.054	33.496
TOTAL		226.201	45.356,97

Based on the total area of garden on 5 campuses, the total area on campus covered in planted vegetation of UNTIRTA is:

$$\text{Total area on campus covered in planted vegetation} = \frac{45.356,97}{226.201} \times 100\% = 21\%$$

Where the value of **21 %** is included in the category **[4], namely > 20% - 30%**



Additional evidence link:

1. <https://www.youtube.com/watch?v=azOBpa4g5lw>
2. <https://bidikutama.com/berita-mahasiswa/jokowi-perintahkan-menteri-pupr-bangun-embung-di-kampus-sindangsari/>



University Budget Recapitulation In The Last 3 Years (Us Dollar)

No	Descriptions	Year			Average
		2020	2021	2022	
1	Total campus budget	6.286.142,211 USD	7.408.832,868 USD	8.691.747,651 USD	7.462.241 USD
2	Total campus budget for sustainability				1.817.663 USD
3	Percentage of campus budget for sustainability efforts				24.35%

Description:

The budget for sustainability campus funds is taken from DIPA for capital and building expenditure activities with a total annual average of 1.817.663 USD or about 24.35 % of the total university BLU budget.

Additional evidence link:

<https://untirta.ac.id/2021/01/02/dipa-rka-kl-untirta-2021/>

<https://untirta.ac.id/en/2022/03/16/dipa-untirta-2022/>



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[1] Setting and Infrastructure (SI)

[1.20] Percentage of operation and maintenance activities of building in one year period





(Maintenance for Cleanliness of Rooms and Yard Periodically)





(Periodic Checking of Supporting Machines and Lights)

Description:

To prolong the use and the life of every facility, Universitas Sultan Ageng Tirtayasa continuously and periodically maintain facilities and infrastructure to support activities on campus. The maintenance programs cover checking the instrument, inspecting the devices, and doing cleanliness. Almost all buildings are always inspected its condition and cleanliness, especially in buildings that carry out many activities such as rectorate buildings, faculty buildings, classrooms are carried out regularly and



periodically. The following is a calculation of the presentation of buildings that carry out routine maintenance:

- | | |
|--|-----------------------------|
| 1. Total campus building area | = 123.673,91 m ² |
| 2. Total operated building | = 93.944,91 m ² |
| Percentage building that operated and maintained | = 76 % |

In which the value of 76% is included in the category [4], namely > 75% - 99%

Additional evidence link:

<https://green.untirta.ac.id/penataan-dan-infrastruktur/>



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[1] Setting and Infrastructure (SI)

[1.21] Campus Facilities For Disabled, Special Needs And Or Maternity Care







Wheelchair Track Facilities For Disabled And Disabled Toilets



Lactation Room Facilities for Maternity Care

Description:

As stated in Law number 8 of 2016 which encourages inclusiveness of persons with disabilities, and complemented by the Regulation of the Minister of Research, Technology and Higher Education in 2017 requiring every university to support services for students with disabilities, Universitas Sutlan Ageng Tirtayasa persistently provide facilities to support such health campus ecosystem. One of them is by providing and improving facilities for disability. There are disability facilities that can be found at Untirta such as disability lanes along pedestrians, special parking spaces, restrooms and complete with signs for access to the building. In some locations, lactation rooms are available to support maternity care. Not only giving a support to facilities, Untirta also cares for students with special needs by giving appreciation to students who have achievements in both academic and non-academic.

Additional evidence link:

<https://untirta.ac.id/2020/10/19/berkah-dies-natalis-ke-39-untirta-vivi-mahasiswi-berkebutuhan-khusus-banjir-hadiah/>

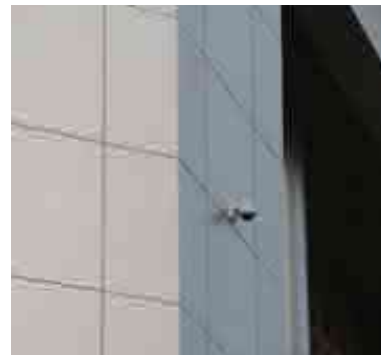


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[1] Setting and Infrastructure (SI)

[1.22] Security and safety facilities





Description:

Since Universitas Sultan Ageng Tirtayasa is recognized as an integral institution in Banten with several campus sites, its security must become a great concern. Consequently, security on each campus is structurally organized. This can be seen from the number of security posts, CCTVs, and fire extinguishers (APAR) in each campus site. The aim is to support security in the Untirta from every undesirable things. Thus, every academician feels comfortable and secure in carrying out activities within the campus. In addition, Untirta conducted several disaster response simulations to ensure that every location meet security standards.



Additional evidence link:

https://www.instagram.com/reel/CSBHreiJQ-N/?utm_medium=copy_link



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[1] Setting and Infrastructure (SI)

[1.23] Health Infrastructure Facilities For Students, Academics And Administrative Staffs' Wellbeing



**Description:**

The provision of comprehensive health care facilities in a campus is genuinely important. Health care facilities do not only focus on symptoms of every illness, but also on the action of prevention and management that will fully create communal health in the academic community. Unit of Technical Service - Clinic of Untirta, established in accordance to the Untirta Rector's Decree of 2003 concerning Organization and Work Procedures (OTK) Untirta, has the obligation to provide health services to all academicians (including lecturers, staffs, and students), both preventively and curatively. Therefore, Unit of Technical Service – Clinic of Untirta carried out an integrated service program. It is a service activity that aims to provide health services, information, and health socialization in an integrated manner.

Unit of Technical Service – Clinic of Untirta conducted an annual program, that is providing medical tests for new students. The tests comprise of general health check up, illegal drugs or narcotics, and color-blind tests for certain faculties that require this kind of test. To simplify form of health services at the Service Unit – Clinic of Untirta, technical instructions are given for those who need treatment using a special card for the treatment to control changes or developments of the patients.

The existence Unit of Technical Service – Clinic of Untirta is expected to become a health service center of Untirta. To achieve such expectations, various collaborations in health services has been carried out notably with the community around campus to provide medical assistance for all academicians and people of Banten province. Unit of Technical Service – Clinic of Untirta seeks to strengthen its role in maximizing the form of Untirta health services through various work plans for the next five years. They are namely seminars or workshops in health topics by inviting experts or collaborating with other health service units in providing health services to implement activities' community service. As aforementioned, Unit of Technical Service – Clinic of Untirta can be a medium for untirta to increase the quality of health services, both for Untirta itself and the community around.

Universitas Sultan Ageng Tirtayasa has several clinics spread across several campuses, namely:

1. Campus A (Pakupatan)
Campus A (Pakupatan) as the central clinic.
2. Campus B (Cilegon)
Campus B (Cilegon) currently has a clinic located at the front of the Cilegon campus site map which is intended for students and Untirta employees.
3. Campus C (Ciwaru)
Campus A (Ciwaru) currently has a clinic located at the front of the Ciwaru campus site map.

Additional evidence link:

1. <http://ubis.untirta.ac.id/umc>
2. https://www.youtube.com/watch?v=q_uNd9YN3tw&t=3s
3. <https://www.youtube.com/watch?v=6BwocozDAXc>
4. <https://www.youtube.com/watch?v=dQk5is6Gptk>
5. <https://www.youtube.com/watch?v=1HJ5dHFZdWg>



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University : Universitas Sultan Ageng Tirtayasa
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Web Address : <https://untirta.ac.id/>

[1] Setting and Infrastructure (SI)

[1.24] Conservation : Plant, Animal, And Wildlife Genetic Resources For Food And Agricultural Secured In Either Medium Or Long-Term Conservation Facilities



Palawija Plantations and Research Conservation Areas



Chili Plants in the Yard of Faculty of Agriculture Building



Fish Conservation On The Ground Floor Of The Student Center Building



Fish Ponds At Several Spots in Campus



Finalis Duta Smart & Green Untirta 2022 Paparkan Gagasan Pelestarian Lingkungan

Enhancing Students Pro-Environmental Behaviour in Supporting Smart, Green, and Sustainability Campus

Description:

As a developing university in Indonesia, Untirta continuously persistent in transforming every aspect that will reach into an integrated, smart, and green university. One of which is harnessing a vacant land. A vacant land utilised is in the backyard of Campus E (Sindangsari). This serves a function as a secondary plantation. Moreover, Faculty of Agriculture has two lands used for plant conservation practices. They are located in Karangkitri and in Cadasari, Pandeglang district. The lands are intended for a local food innovation. Besides, around faculty of agriculture building is planted with chilli plant.

Untirta has conservation pond on the ground floor of Student Center at Campus E (Sindangsari). There are variety of fish inside the pond. In addition, fishpond and aquarium can also be found in some spots. There are approximately 54% of total conservation has been carried out.

Additional evidence link:

1. <https://untirta.ac.id/2021/09/03/untirta-mendapat-4000-benih-ikan-dari-balai-benih-ikan-tawar/>
2. https://www.instagram.com/p/CUU8LRWpayl/?utm_medium=copy_link
3. <https://untirta.ac.id/2022/10/11/finalis-duta-smart-green-untirta-2022-paparkan-gagasan-pelestarian-lingkungan/>



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[2] Energy and Climate Change (EC)

[2.1] Energy Efficient Appliances Usage



Example of LED light usage, Air Conditioning Inverter system (Campus B Universitas Sultan Ageng Tirtayasa)



Example of LED light usage, (Campus E Universitas Sultan Ageng Tirtayasa)



Example of Air Conditioning Inverter and VRV system (Campus E Universitas Sultan Ageng Tirtayasa)

**Description:**

Universitas Sultan Ageng Tirtayasa has several campus locations namely Campus A located in Pakupatan - Serang, Campus B located in Cilegon, Campus C located in Ciwaru - Serang, Campus D located in Kepandean – Serang and Campus E located in Sindang Sari – Banten.

Currently the Main Campus has moved to campus E in Sindangsari, there are Rectorate Building, Auditorium, Library, Laboratory, 4 faculty buildings, Integrated Class Building, Student Center Building and 2 Dormitory Buildings.

This year, there is an increase in the number of lamps, due to the addition of new rooms. Based on the total number of lamps, 78.7% have used energy-saving lamps. This is due to the policy of using LED lamps at every lamp change. The use of Air Conditioners in each room is 80% using energy-saving technology, be it inverter technology, or the latest VRV technology for the room cooling system.

At campus E Sindangsari, the use of LED lights and energy-saving air conditioners has reached 100%. With a total of 5420 lamps spread over 12 buildings, all of air conditioner have been using centralized VRV technology. The use of lights and air conditioners can be monitored and controlled by the BAS (Building Automation System)

Appliance	Total Number	Total number energy Efficient appliances	Percentage
LED Lamp	11250	8862	78,7%
AC	1216	With Inverter Technology =348	80%
		With VRV Technloogy = 620	
		Totally = 968	
		Average Percentage	79,35%

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>



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[2] Energy and Climate Change (EC)

[2.3] Smart Building Implementation

***Min. at least five requirements for each building**

No.	Name	Place	automation		safety				energy		water		Indoor environment				lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
	Universitas Sultan Ageng Tirtayasa; Campus A	Serang, Indonesia			x	x											x	x		x	20612
	Universitas Sultan Ageng Tirtayasa; Campus B	Cilegon, Indonesia			x	x			x							x	x	x		x	8987
	Universitas Sultan Ageng Tirtayasa; Campus C	Serang, Indonesia			x	x											x	x		x	4989
	Universitas Sultan Ageng Tirtayasa; Campus D	Serang, Indonesia			x	x											x			x	1258
	Universitas Sultan Ageng Tirtayasa; Campus E	Serang, Indonesia	x	x	x	x			x							x	x	x		x	60275
	Total																				96121

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

Smart building implementation

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

Example:

*Total Building Area: 123674 m²

$$\frac{96121 \text{ m}^2}{123,674 \text{ m}^2} \times 100\% = 78\%$$



Building A





Building B

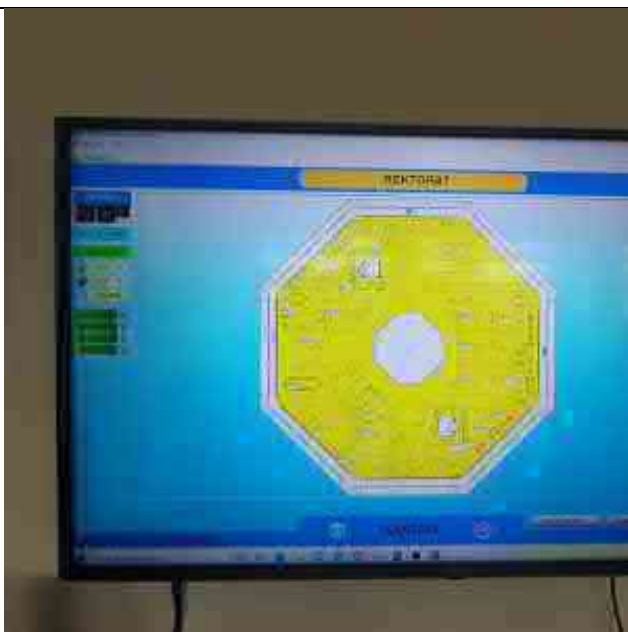


Building C





Building D



Building E



In the calculation of a smart building implementation, two campuses meet the minimum requirements of 5 features; campus B and Campus E. However, Campus A, campus C and campus D meet three features, namely S2, S3 (fire fighting system and CCTV system) and L1 (use LED).

. Campus E is a new campus which is built based on smart and green building.

Percentage of the building area that has used the smart building concept reached 78%, which the largest area is in E campus Sindangsari, with all of buildings already installed with smart systems. Of the 11 buildings in Sindangsari, each building is equipped with an electronic system i.e. CCTV security, Fire Alarm, Building Sound system, temperature sensor, heat sensor, smoke detector-It's all integrated with the Building Automation System (BAS). All systems in E campus Sindangsari can be monitored and controlled centrally, as well as with the use of electricity, both lighting and AC systems.

The integrated control system is located in Library, and can also be monitored from Rector's room. Not only that, all of information is also supported by the existence of an IPTV system spread in each building

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>



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[2] Energy and Climate Change (EC)

[2.5] Renewable Energy Sources in Campus



Biodiesel 1250 KVA



Biodiesel 460 KVA



Biodiesel 460 KVA



Description:

1. There are five Biodiesel generators available which are distributed in Campus A two generators (capacity 1250 kVA), one in Campus B (capacity 1250 kVA), one in Campus D (capacity 460 kVA), and another one in Campus E (capacity 1250 kVA).
2. In Campus B, solar cell 3300 Wp was installed and utilized for lighting. The lighting load is 1410 Watt. There is also a small capacity of wind power plants that is specifically used for lecturers' and students' research.



3. There are some studies of solar cell implementation have been conducted in Campus B. Some studies which utilized the software PVSyst recommended the installation of 24 solar cells (12 series and two parallels) with the capacity of 300Wp on each of them. As a result, the Solar cell power plant enables to generate total energy of 11.211 energy/year. The installation of the solar cell power plant is in the right place to generate a lot of energy. To fulfill the lightning load of 11.624,5 kWh/year, some loads of solar cell power plant ON-GRID is also supplied by the National Electrical Company (known as PLN). The amount of energy of the solar cell power plant used is 6.253 kWh/year and energy supplied by PLN is 5.371,5 kWh/year. Other studies stimulated the use of solar cells as a power plant on BR building (3-floor building) with a lightning load of 5.280 kWh/year and it was required for, at least, 36 solar cells (300Wp/each). The distribution on each floor will be 12 solar cells that are connected to 6 series and 2 parallels.
4. In early 2022, a study was conducted to measure the total amount of energy in Universitas Sultan Ageng Tirtayasa. This planning was stimulated using the PVSyst application and the load on the simulation used energy consumption on a yearly calendar. Modul PV used was Jinko Solar JKM 300M-60-V *monocrystalline* and its specification is as in the following table 1.

Table 1 Spesification of Modul Jinko Solar JKM 300M-60-V *monocrystalline*

No	Spesification	Notes
1	Peak Power (Pmax)	301,5 Watt
2	Efficiency Module / Area	18,42 %
3	Max. power volt (Vmp)	32,6 V
4	Max. power current (Imp)	9,22 A
5	Open circuit volt (Voc)	39,1 V
6	Short circuit current (Isc)	10,02 A
7	Dimension	1650 x 992 x40 mm
8	Weight	19 kg

The inverter used was customized with the number of module PV that will be installed. Inverter Solaredge SE2500H-AUS was used for building A-D and its specification is as in the following table 2.

Table 2 Specification of Inverter Solaredge SE2500H-AUS

No	Specification	Notes
1	Fixed Input DC Voltage	380 V
2	Input Current	8 A
3	Efficiency	99.1 %
4	Maximum Input Power	3,9 kW
5	Output Voltage	230 V
6	Output Current	11,5 A
7	Output AC Power	2,5 kW



Meanwhile, for the energy use in the entire building utilized 2 inverter Solaredge SE16K-EU-APAC/AUS and its specification is as in the following table 3.

Tabel 3 Spesifikasi Inverter SE16K-EU-APAC/AUS

No	Spesifikasi	Notes
1	Fixed Input DC Voltage	750 V
2	Input Current	23 A
3	Efficiency	97.97 %
4	Maximum Input Power	17,6 kW
5	Output Voltage	400 V
6	Output Current	25,5 A
7	Output AC Power	17 kW

Solar cell power plant (PLTS) on building A-D will use 10 modules which are compiled series. On the module, seitan will be installed *optimizer* SolarEdge 505 that functions to maximize the output of the module and to match the input of required inverter voltage.

In addition, the design for the whole load will use 128 modules that are compiled 32 series that are parallel on four parts.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>

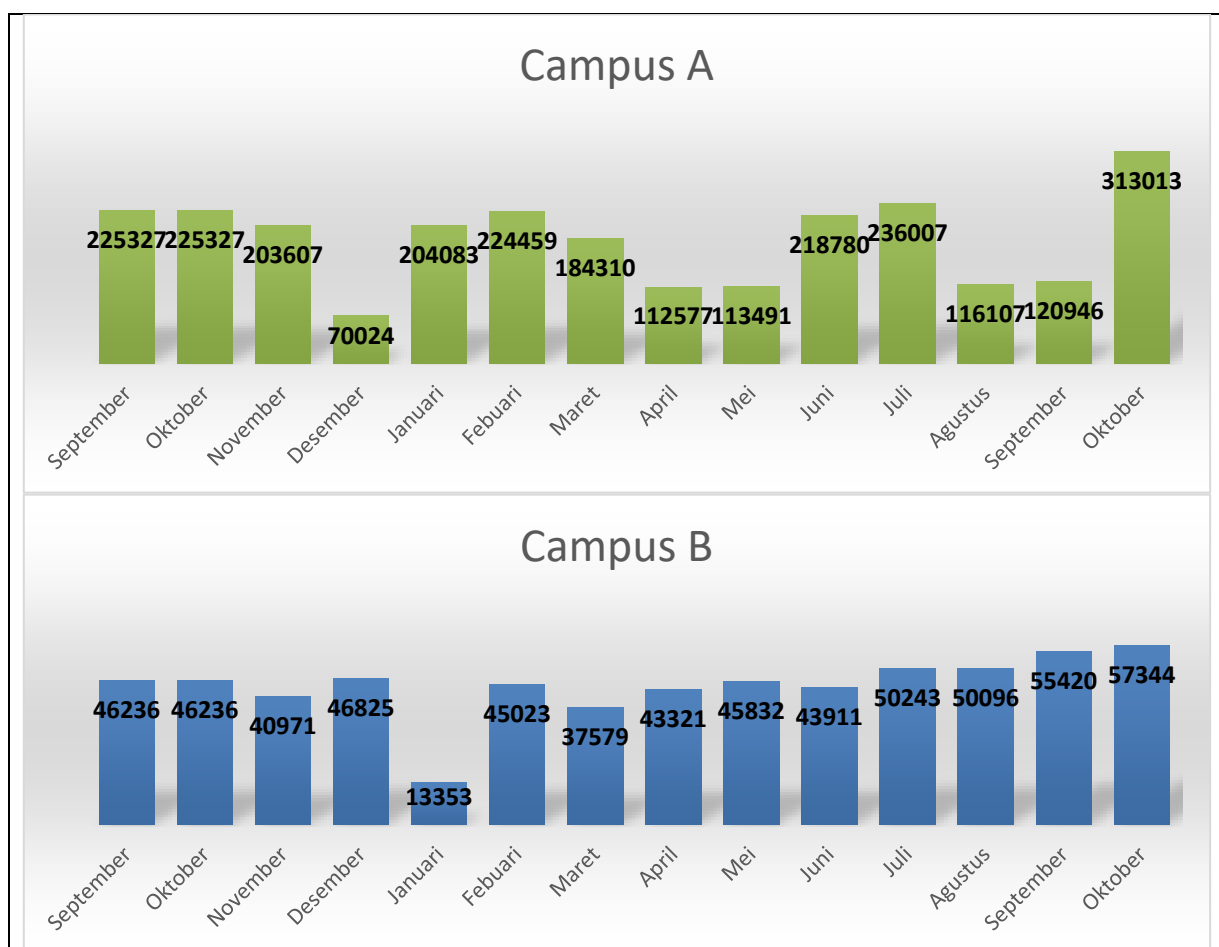


Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

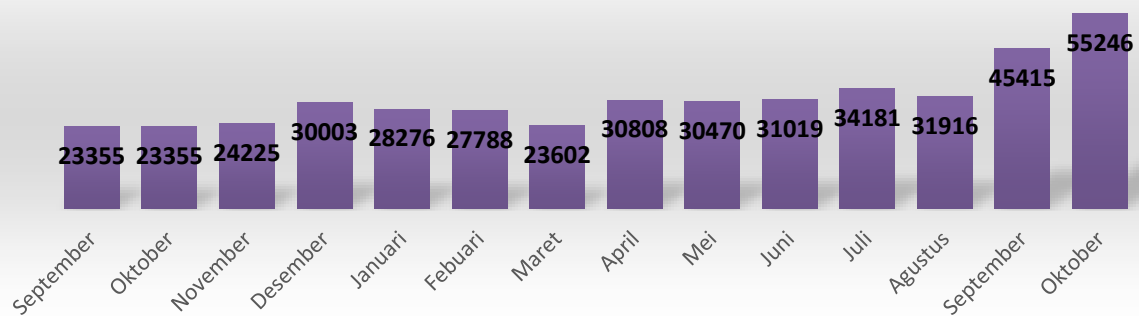
[2] Energy and Climate Change (EC)

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

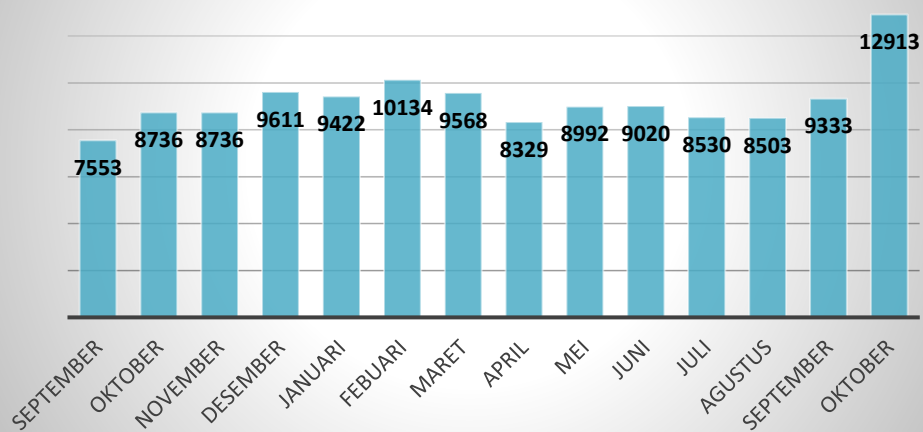




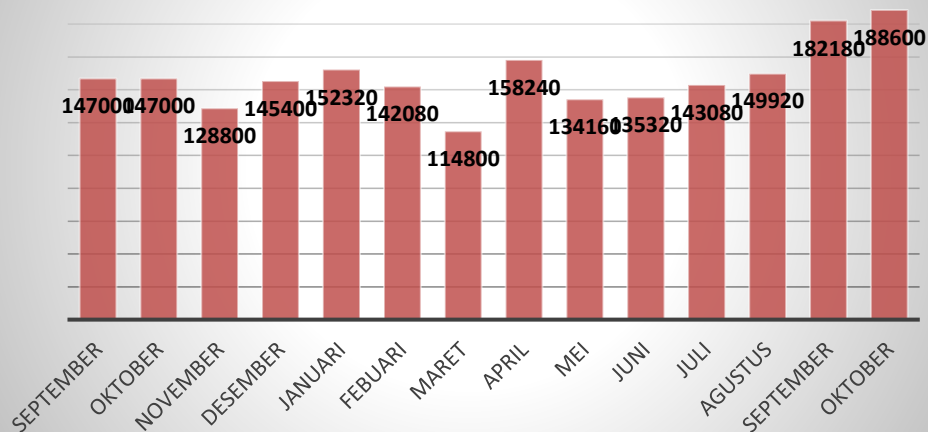
Campus C



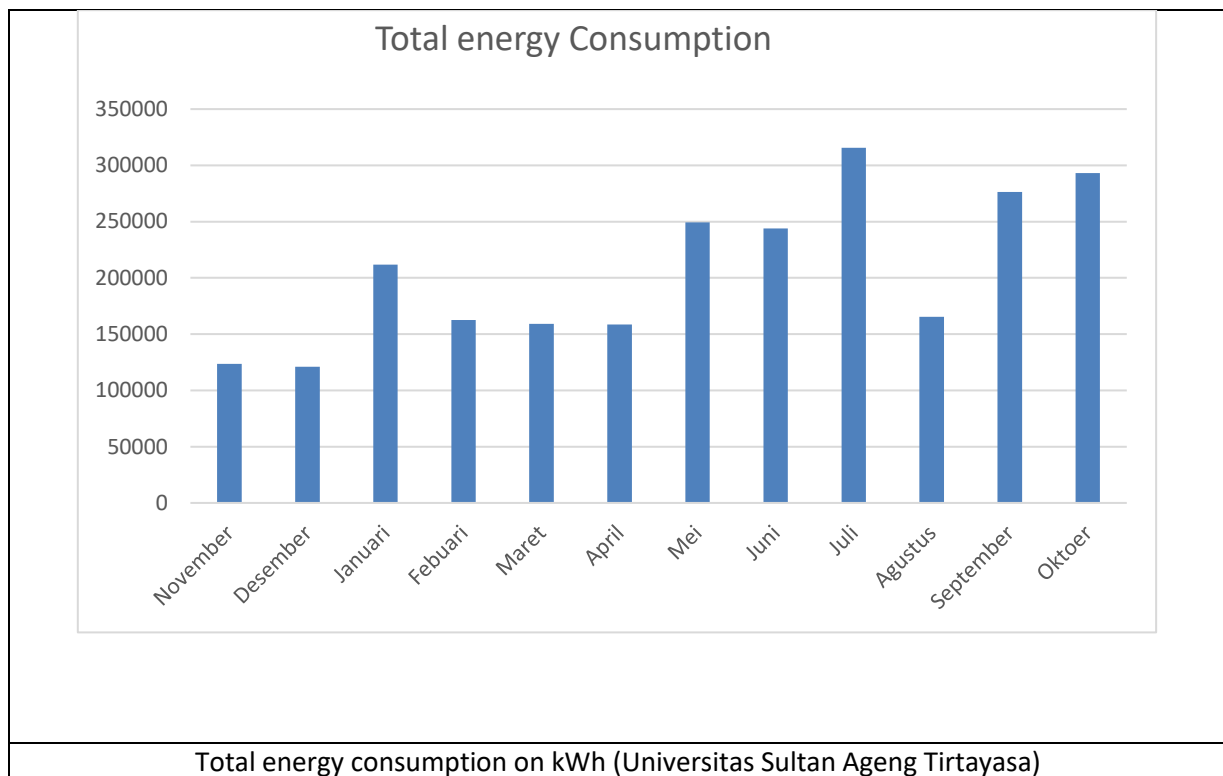
Campus D



Campus E



Annual energy consumption on each campus

**Description:**

Campus A, monthly energy consumption can be seen on the graphic. The total of energy use in 1 year are 2.695.589 kwh, last year was 587.667 kWh.

Campus B, load demands are supplied by two sources namely PT Krakatau Daya Listrik (KDL) and PT Persero PLN. The total energy use from both sources are 645.187 kwh and last year load demands were 462.494 kWh.

Campus C, the total of energy consumption in one year are 454.020 kwh, and last year 425.877 kWh, and for Campus D, the total energy consumption are 141.203 kwh, and for last year was 89,069 kWh.

Campus E, the total energy consumption are 89,069 kwh, and for last year was 1,083,405 kWh.

The total energy consumption of Universitas Sultan Ageng Tirtayasa is 6,087,719 kwh, and last year at 2,480,862 kWh.

Overall, seen from the total electrical energy used by Untirta there is a decrease in usage, although there is an additional campus area in Sindangsari which consists of 11 buildings. This shows that the Campus E (Sindangsari) has realized the use of energy-efficient electrical equipment. The use of electrical energy has increased because the learning system has re-applied the face-to-face method.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>

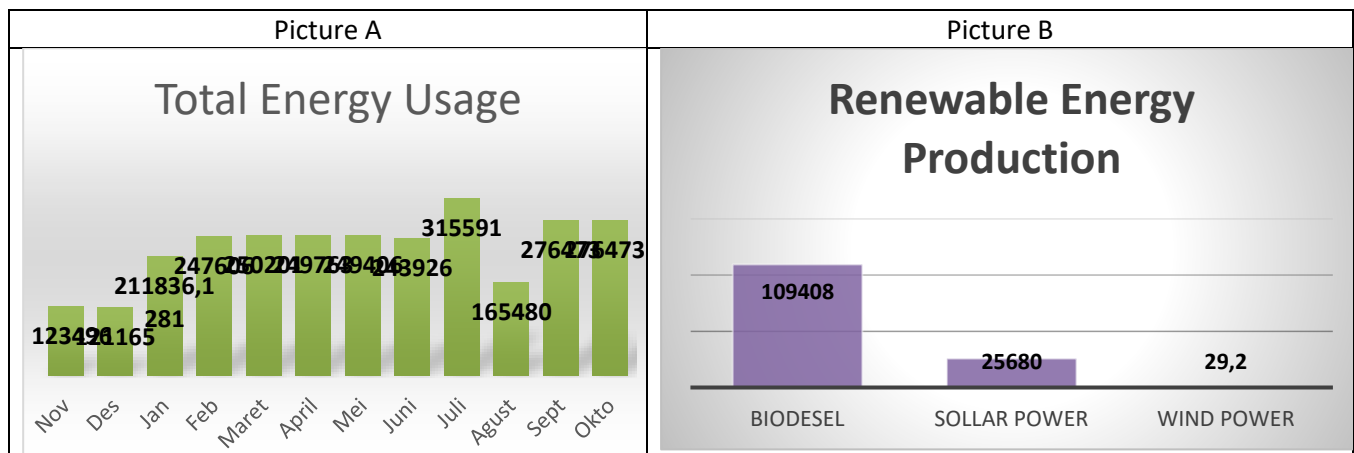


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[2] Energy and Climate Change (EC)

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



Description:

The calculation of renewable energy resulted in one-year calendar is as follow:

Biodiesel: There are 3 biodiesels available with the capacity of 460 kVA and 1 biodiesel capacity of 1250 kVA. The total amount of capacity is 2630 kVA. Assumed that cos phi is 0,85 and its operation for 1 hour/a week, biodiesel generate total energy of 109408 kWh.

Solar power: Using 20 solar cell, energy that can be generated is in 25680 kWh/year.

Wind power: It is still in small scale of wind power design and the power generates between 35 – 50 watt. Two hours per day, those equipment yield 29,2 kWh/year.

In total, the renewable energy is **118837,2 kWh**

The ratio of renewable energy production divided by total energy usage per year:

$$\frac{\text{renewable energy production}}{\text{total energy useage per year}} = \frac{118837.2}{2,480,862} \times 100\% = 4,8\%$$

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>



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[2] Energy and Climate Change (EC)

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





The figure above is the sample of rector's decree on the use of renewable energy



The pictures above are the sample of green Area Garden in Universitas Sultan Ageng Tirtayasa





The pictures above are the sample of Green Building architecture implementation in Universitas Sultan Ageng Tirtayasa

Description:

The implementation of renewable energy has been successfully implemented at Universitas Sultan Ageng Tirtayasa, as can be seen in Campus B. Several studies regarding the use of solar and wind energy have been conducted. Almost all the buildings at Universitas Sultan Ageng Tirtayasa have implemented a natural lightening system and ventilation system as referred to concept of green building. Land expeditious is also applied, for instance, the application of green house roof top for hydroponic system using circulation water pump system by using solar cell. The use of fishpond for hydroponic DFT system operated by the solar cell sources.

A green shelter making has also been successfully implemented, this is a bicycle shelter facility can be used to charge electric bicycles with solar power, equipped with a vertical garden. Everything is stated in the policy of research direction refers to a green campus.

During the development, the policy of parks making and green areas continues to be carried out.

The green building design concept has been implemented in all Sindangsari campus buildings with elements of air conditioning and natural lighting applied

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>



Template for Evidence(s)

UI GreenMetric Questionnaire

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[2] Energy and Climate Change (EC)

[2.10] Greenhouse gas emission reduction program

 <p>KEMENTERIAN RISET, TEKNOLOGI, DAN INFORMATIKA UNIVERSITAS SULTAN AGENG TIRTAYASA (Jalan Pahlawan - Pematang Siantan, Kota Pontianak) Telp. 081 2000 0000 / 0812 2000 0000 www.unsirta.ac.id</p> <p>KEMPUKAR KERTEN UNIVERSITAS SULTAN AGENG TIRTAYASA Museum - 15 / 10944/RPT/2020/02/2020</p> <p>Teknik KELUARGA FUNDATARIAN FAKES DAS PERUBAHAN KEMERIAAN PERUBAHAN KEMERIAAN UNIVERSITAS SULTAN AGENG TIRTAYASA TAHUN 2020 KEMERIAAN PERUBAHAN KEMERIAAN</p> <p>1. Private Vehicle Reduction Policy on campus</p>	 <p>2. Design of rooftop solar panels for E campus</p>
 <p>3. Providing Electric Cars in the E Campus Area</p>	



P

**Description:**

Untirta continues to make efforts to reduce carbon emissions, starting with the issuance of a policy in the form of the Rector's Decree regarding the policy of reducing private vehicles entering the campus area. In 2022 year, we has build a rooftop solar panel with a capacity of 1,1 MW step by step is currently in the DED document stage. The provision of an environmentally friendly shuttle in the form of an electric car has now been implemented which operates in the campus area.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>



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[2] Energy and Climate Change (EC)

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





Examples of innovative program (Untirta, Indonesia)
Gerakan GNEM Untirta Menana Pohon , Gerakan 100 Bipri, Lomba cipta Jingle GNRM. Lkakarya UIGM wilayah Barat

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>

<https://revolusimental.id/artikel/Untirta-Hijaukan-Kampus-dengan-Gerakan-Menanam>



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[2] Energy and Climate Change (EC)

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



Workshop on UI GreenMetric for Universities in Western Part of Indonesia 2022





Peringati Hari Lingkungan Hidup Dunia, Untirta Bersama BCA dan DLHK Provinsi Banten Tanam 3.000 Pohon di Kampus Sindangsari.

Untirta menerima donasi pohon kayu dan pohon buah terbanyak di antara area lainnya, yakni 17% dari total pohon hasil konversi jarak tempuh peserta Walk for Tree yang diadakan oleh BCA sebelumnya. Bibit pohon tersebut diserahkan secara simbolis oleh Fely Hadinata, Kepala Kantor BCA Wilayah XII – Wisma Asia kepada Rektor Untirta di Ruang Convention Hall Kampus Untirta Sindangsari. Tak hanya itu, Untirta turut menerima 50 karung pupuk dan peralatan tanam berupa cangkul, alat siram, ember, gayung, koret, dan sarung tangan plastik yang diserahkan secara langsung kepada Duta Smart & Green Campus Untirta 2021, Alfian Fajri Nasrulloh.

Kepala Dinas Lingkungan Hidup dan Kehutanan Provinsi Banten, Wawan Gunawan, S.Sos, M.Si yang hadir untuk membuka acara mengungkapkan bahwa semula ribuan pohon ini direncanakan ditanam di wilayah perkotaan. Namun, Dinas Lingkungan Hidup dan Kehutanan Provinsi Banten lantas menyadari potensi Untirta dalam memelihara dan merawat pepohonan, terlebih dengan kepemilikan lahan kosong yang luas dan komitmen Untirta dalam pelestarian lingkungan.





The ICIEE is a biennial conference with previous successful events held in 2018 and 2020. This year, the conference will have keynote lectures from Professor Chii-Wann Lin from National Taiwan University, Professor Josaphat Tetuko Sri Sumantyo from Chiba University entitled and Professor Hadi Suyono from Universitas Brawijaya. There are 82 submissions and participants (in person and virtual) coming from various countries such as Bangladesh, India, Indonesia, Iran, Japan, Korea, Malaysia, Pakistan, and Thailand.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/energi-dan-perubahan-iklim/>

<https://untirta.ac.id/2022/06/08/peringati-hari-lingkungan-hidup-dunia-untirta-bersama-bca-dan-dlhk->



Template for Evidence(s) UI GreenMetric Questionnaire

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Web Address : <https://untirta.ac.id>

[3] [WASTE]

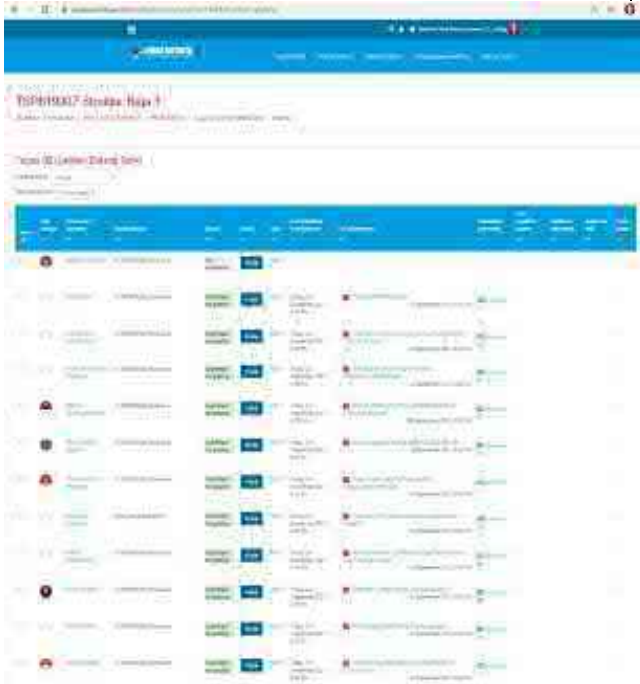
[3.2] Program to reduce the use of paper and plastic in campus



Reducing the use of plastic containers (either beverage or food) during activities on campus, such as meetings and other activities



Submission of completed assignments
by means of email



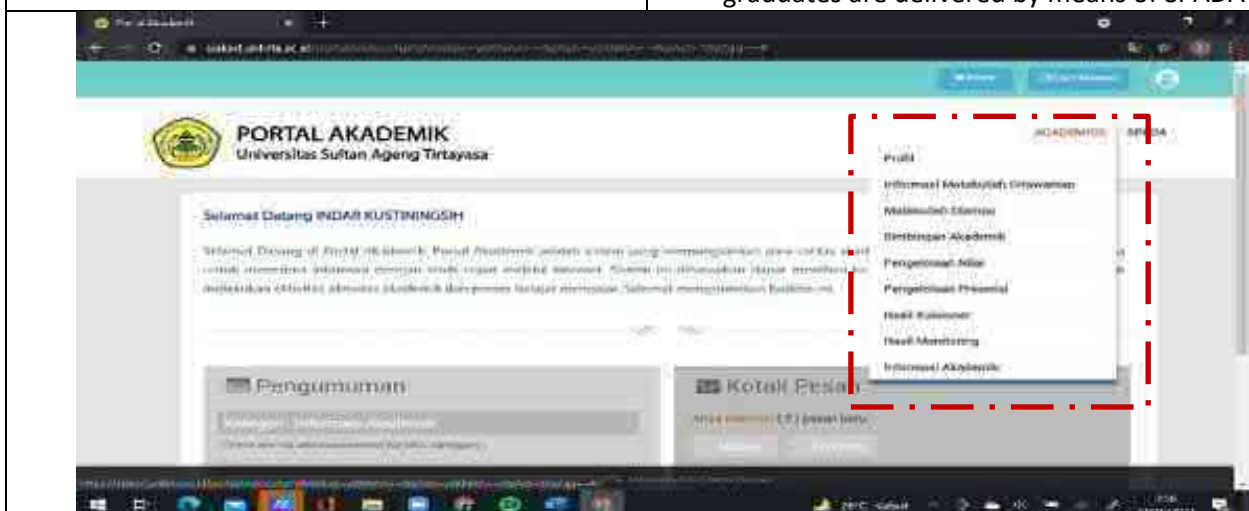
Submission of assignments by means of SPADA



Submission of completed test answer sheet
by means of through email



Learning materials for undergraduate and post-graduates are delivered by means of SPADA





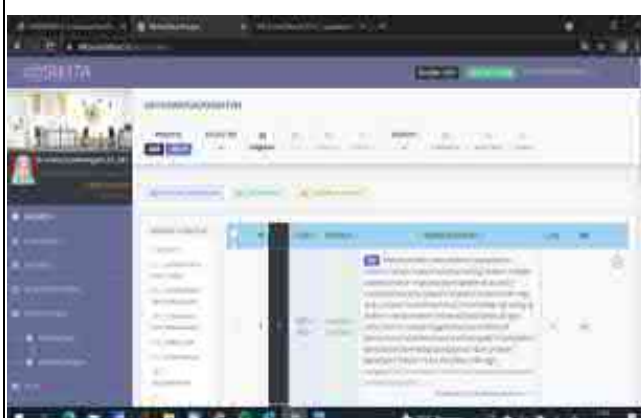
SIAKAD is used for storing students' final marks, attendance, questionnaire of lectures' performance, and academics supervision



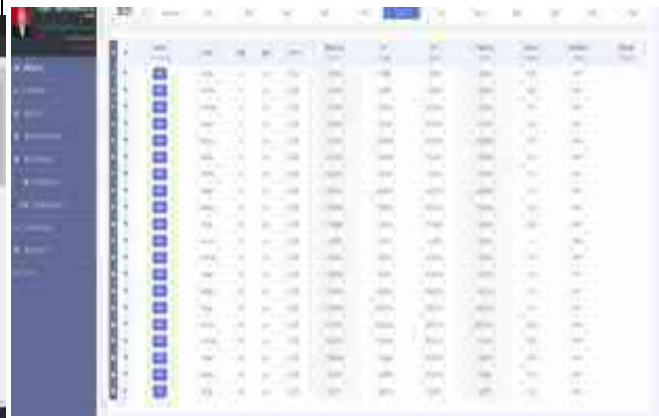
SIMPENMAS is a program used for internal research and public service grant



SISTA is an information system used for registration of thesis writing and final exam



SIKITA is a system used for recording lectures' and staffs' working performance



SIKITA is used to record lectures' and staff attendance

Description:

Universitas Sultan Ageng Tirtayasa has actively played its role in reducing the use of paper and plastic since 2020 as asserted in Rector's Decree No 639/UN43/KPT.PR.00.00/2020. Several programs that has successfully run are as follows:

1. Reducing the use of a container made of plastics (either for drinking or food storage) amid campus activities such as meetings and any other activities.
2. Correspondence in Untirta, both for administration and finance is no longer paper based and replaced by a system called SIKD and SIM KEU.
3. Teaching and learning apply an online platform called SPADA. Students submitting assignments are no longer in a hardcopy, but they are in a softcopy sent by means of SPADA atau email.
4. Students absence management, subjects taken, score management, academic supervision, lecturer's, and student's questioner can be accessed via SIAKAD.
5. Untirta's internal grant competition both research and community services are served in an online system.
6. Registration for final projects (thesis/ dissertation), graduation are served by means of Sista Untirta. Every file of final assignment is submitted in the form of a softcopy to the department.
7. Submission of remuneration data (performance files and absences) both for lecturers and university staffs is collected via SIKITA.



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[3] [Waste]

[3.1] Recycling program for University waste



Waste sorting program, namely organic waste, inorganic waste and B3 waste.



Waste management scheme at Universitas Sultan Ageng Tirtayasa



Organic waste treatment in Universitas Sultan Ageng Tirtayasa



Processing rainwater and river water for ablution



Processing of plastic waste into fuel



**Description:**

Since 2020, Recycling program for university waste has become a priority in Untirta as asserted on Rector's decree No 636/UN43/KPT.PR.00.00/2020. Sorting waste (organic, inorganic and B3 waste) has been carried out ever since. This is executed for easier recycling process. Almost 80% of waste have been recycled so that it can be reused for other purposes. There are 5 programs for waste management in Untirta::

1. Waste sorting program, namely organic waste, inorganic waste and B3 waste.
2. Compost production for recycling organic waste centered in Campus Sindangsari.
3. Rainwater management and river for ablution.
4. Ablution water is recycled so that it can be used for watering plants.
5. Processing of plastic waste into fuel

Additional evidence link:

Processing rainwater and river water for ablution

<https://link.untirta.ac.id/konservasiair>

Processing of plastic waste into fuel

<https://green.untirta.ac.id/2021/10/18/pengembangan-industri-pengolahan-sampah-plastik-terpadu-berbasis-circular-economy-di-kota-cilegon-banten/>

Additional evidence link:



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[3] [WASTE]

[3.3.] Organic Waste Treatment

	
<p>Organic waste management into compost</p>	
	  <p>Composter for liquid organic fertilizer</p> <p>Planting corn on a vacant land at Sindangsari Campus using compost and liquid fertilizer produced by an organic waste management</p>

Description:

Since 2020, organic waste at Universitas Sultan Ageng Tirtayasa has undergone a recycle process since 2020. 80% of organic waste has been successfully recycled into a liquid fertilizer and a compost used for fertilizing plantation land such as corn, chili, and pepper.

Additional evidence link:

<https://green.untirta.ac.id/2022/01/18/penanaman-perdana-bibit-palawija-dilahan-kampus-untirta-sindangsari/>



Template for Evidence(s) UI GreenMetric Questionnaire

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[3] [WASTE]

[3.4] Inorganic waste treatment



Lab-scale pyrolysis at the Faculty of Engineering



Chopped plastic waste



Plastic waste processing in collaboration with PT Chandra Asri Tbk



The results of plastic waste processed



Description :

Universitas Sultan Ageng Tirtayasa has sorted inorganic and organic waste using different garbage bins placed inside and outside the campus building. Moreover, Untirta has reduced inorganic waste through the mandatory use of tumbler for drinking container both for staffs and lecturers. There is also a ban for the use of bottled water in a meeting and any other activities.

Since 2021, Universitas Sultan Ageng Tirtayasa in collaboration with another institution has conducted inorganic waste management. Along with PT. Chandra Asri Tbk, 80% of plastic waste at Universitas Sultan Ageng Tirtayasa has been processed into a fuel using pyrolysis method.

Additional evidence link:

<https://drive.google.com/file/d/1y2IUkUUmpS3G5UExkVhNc4pqOlzAy0p4/view?usp=sharing>

Additional evidence link:

<https://green.untirta.ac.id/2021/10/18/pengembangan-industri-pengolahan-sampah-plastik-terpadu-berbasis-circular-economy-di-kota-cilegon-banten/>



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Web Address : <https://untirta.ac.id>

[3] [WASTE]

[3.5] Toxic waste handled



Description :

Since 2020, Universitas Sultan Ageng Tirtayasa has given considerable attention to B3 waste management as asserted in a Rector's decree No 636/UN.43/KPT.PR.00.00/2020. It is due to that B3 waste management was handled by the third party. By 2021, almost 50% of B3 waste management has been managed independently centered in the integrated lab and Faculty of Agriculture at Campus Sindangsari.

Additional evidence link:

<https://green.untirta.ac.id/2021/10/15/alat-netralizer-limbah-di-kampus-untirta-sindangsari/>

Additional evidence link:



Template for Evidence(s) UI GreenMetric Questionnaire

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Web Address : <https://untirta.ac.id>

[3] [WASTE]

[3.6] Sewage disposal



Sewer water in Sindang Sari



WTP Electro System Processing Scheme



Wastewater and rainwater management using WTP Electro System



Results of water treatment used for ablution

Description:

Universitas Sultan Ageng Tirtayasa has conducted water management which is categorized into "Treatment for down cycling". This wastewater management utilize WTP electro system installed at Campus Sindangsari. The results of rainwater and wastewater management can be reused for ablution. Meanwhile, an ablution water at Universitas Sultan Ageng Tirtayasa can be reused for watering every green area at Universitas Sultan Ageng Tirtayasa.



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[4] Water (WR)

[4.5] Water pollution control in campus area



Figure 4.5.1 Water quality sampling and monitoring at Water treatment Untirta Campus E Sindangsari

Description:

Water collection sampling was carried out in water treatment pool at Student Center, water treatment at power house area, and clean water that used in building area (random). Each sample collected 1.8 L (3 bottles 600 ml) delivered to laboratory.

Policy

Untirta has a policy on preventing and reducing water pollution of all kinds

Untirta Rector's Decree Number 633 / UN43 / KPT.PR.00.00 / 2020 concerning THE IMPLEMENTATION POLICY FOR WATER MANAGEMENT OR WATER HARVESTING, Untirta CAMPUS, it regulates the following:

1. Rainwater management/water harvesting activities in the campus areas A / Untirta - Pakupatan, B / Untirta - Cilegon, C / Untirta - Ciwaru, D / Untirta - Kepandean, and E / Untirta - Sindangsari.



2. The implementation of rainwater harvesting programs as a means of meeting water requirements in campus facilities, such as watering plants and flushing toilets.
3. The establishment of a river water recycling program in the E / Untirta - Sindangsari campus region as a regulator of the hydrological system (runoff) and river conservation (increasing the river's water quality/purification process) to allow water to flow back into the river.
4. Implementation of the WTP development program for the reservoir (embung) as a source of clean water for one or more buildings on the E / Untirta - Sindangsari campus.

Untirta Rector Decree Number 634 / UN43 / KPT.PR.00.00 / 2020 concerning THE IMPLEMENTATION POLICY FOR WATER CONSERVATION IN Untirta CAMPUS, it regulates the following:

1. Implementation of zoning and water conservation measures in Campus B / Untirta - Cilegon and Campus E / Untirta - Sindangsari.
2. The Program for implementing local and ecological protection functions; as conservation zones to restore balance and anticipate disaster-prone areas, which include botanical forests and the area's lungs, river boundaries, and disaster evacuation zones.
3. The implementation program for green open space includes green open space for slope conservation, water catchment areas, retention and detention facilities on campus A / Untirta - Pakupatan, campus B / Untirta - Cilegon, campus C / Untirta - Ciwaru, campus D / Untirta - Kepandean, and campus E / Untirta - Sindangsari.
4. The establishment of biopore hole drilling programs and infiltration wells throughout UNTIRTA's campus regions.
5. The Implementation Program for Greenery Areas; a green open space zone with a low level of pavement that serves as a recreation place for campus A / Untirta - Pakupatan, campus B / Untirta - Cilegon, campus C / Untirta - Ciwaru, campus D / Untirta - Kepandean, and campus E / Untirta – Sindang

In addition, there is another policy about minimize using paper in campus activities No 632/UN43/KPT.PR.00.00/2020 and policy about minimize using plastic in campus activities No 639/UN43/KPT.PR.00.00/2020

Wastewater Treatment

Untirta has a system to prevent polluted water to enter the water system by using waste water management system. Since 2020, Universitas Sultan Ageng Tirtayasa has given considerable attention to B3 waste management as asserted in a Rector's decree No 636/UN.43/KPT.PR.00.00/2020. It is due to that B3 waste management was handled by the third party. By 2021, almost 50% of B3 waste management has been managed independently centered in the integrated lab and Faculty of Agriculture at Campus Sindangsari.



Figure. 4.5.2 IPAL at Faculty of Agriculture Campus E Sindangsari

Guideline standard

Untirta try to complies with Government Regulation Number 82 of 2001 concerning Management of Water Quality and Control of Water Pollution which contains water quality standards and guidelines for water discharges.

<https://hkln.kemenag.go.id/download.php?id=552>

Monitoring and Evaluation

Monitoring and evaluation reports will be cheked regularly every years in integrated laboratory Campus E Sindangsari and confirmation in Dinas Lingkungan Hidup Banten Province every 2 years.

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

<https://www.youtube.com/watch?v=oAkbiJlyWIE>

<https://green.untirta.ac.id/2021/10/15/alat-netralizer-limbah-di-kampus-untirta-sindangsari/>



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[6] Education and Research (ED)

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

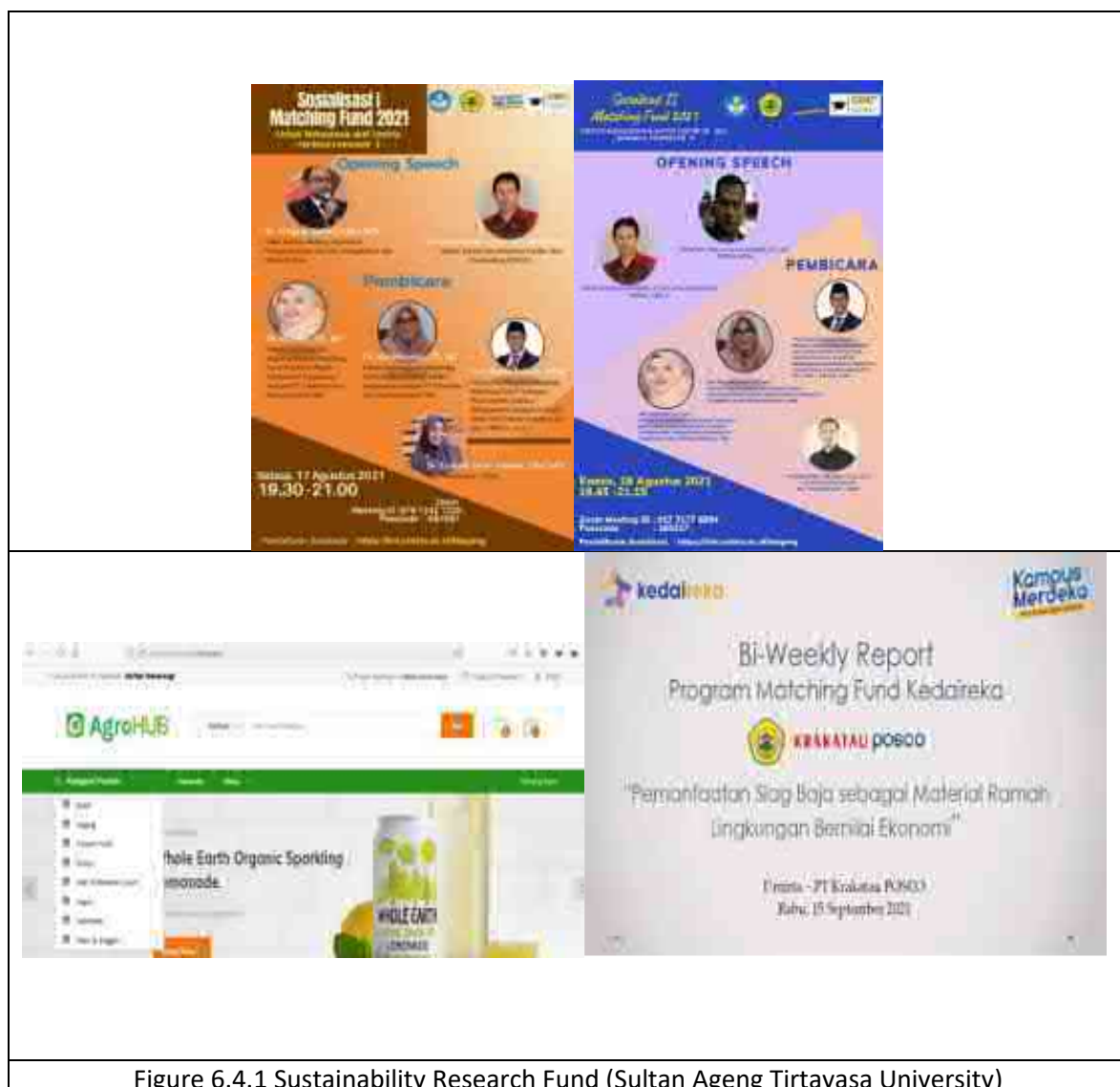


Figure 6.4.1 Sustainability Research Fund (Sultan Ageng Tirtayasa University)

Description:

Total research fund dedicated to sustainability research in 2020 = 445.215 US Dollars



Total research fund dedicated to sustainability research in 2021 = 394,527 US Dollars

Total research fund dedicated to sustainability research in 2022 = 484.390 US Dollar

The average annum last 3 years of research fund dedicated to sustainability research = 441.377 US Dollars

The ratio of research funds for research on the theme of Sustainability is 67%.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>



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[6] Education and Research (ED)

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

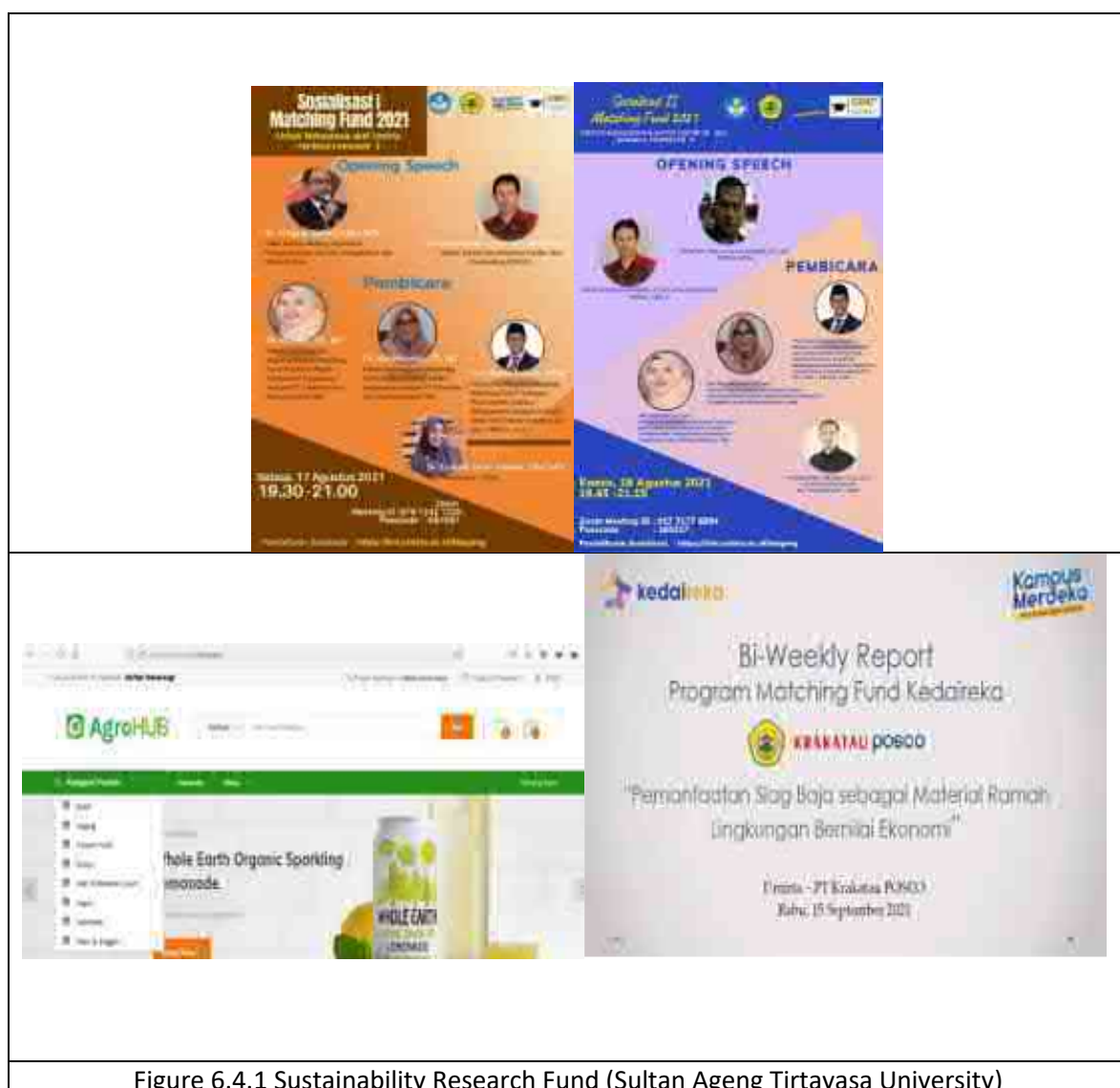


Figure 6.4.1 Sustainability Research Fund (Sultan Ageng Tirtayasa University)

Description:

Total research fund dedicated to sustainability research in 2020 = 445.215 US Dollars



Total research fund dedicated to sustainability research in 2021 = 394,527 US Dollars

Total research fund dedicated to sustainability research in 2022 = 484.390 US Dollar

The average annum last 3 years of research fund dedicated to sustainability research = 441.377 US Dollars

The ratio of research funds for research on the theme of Sustainability is 77%.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>

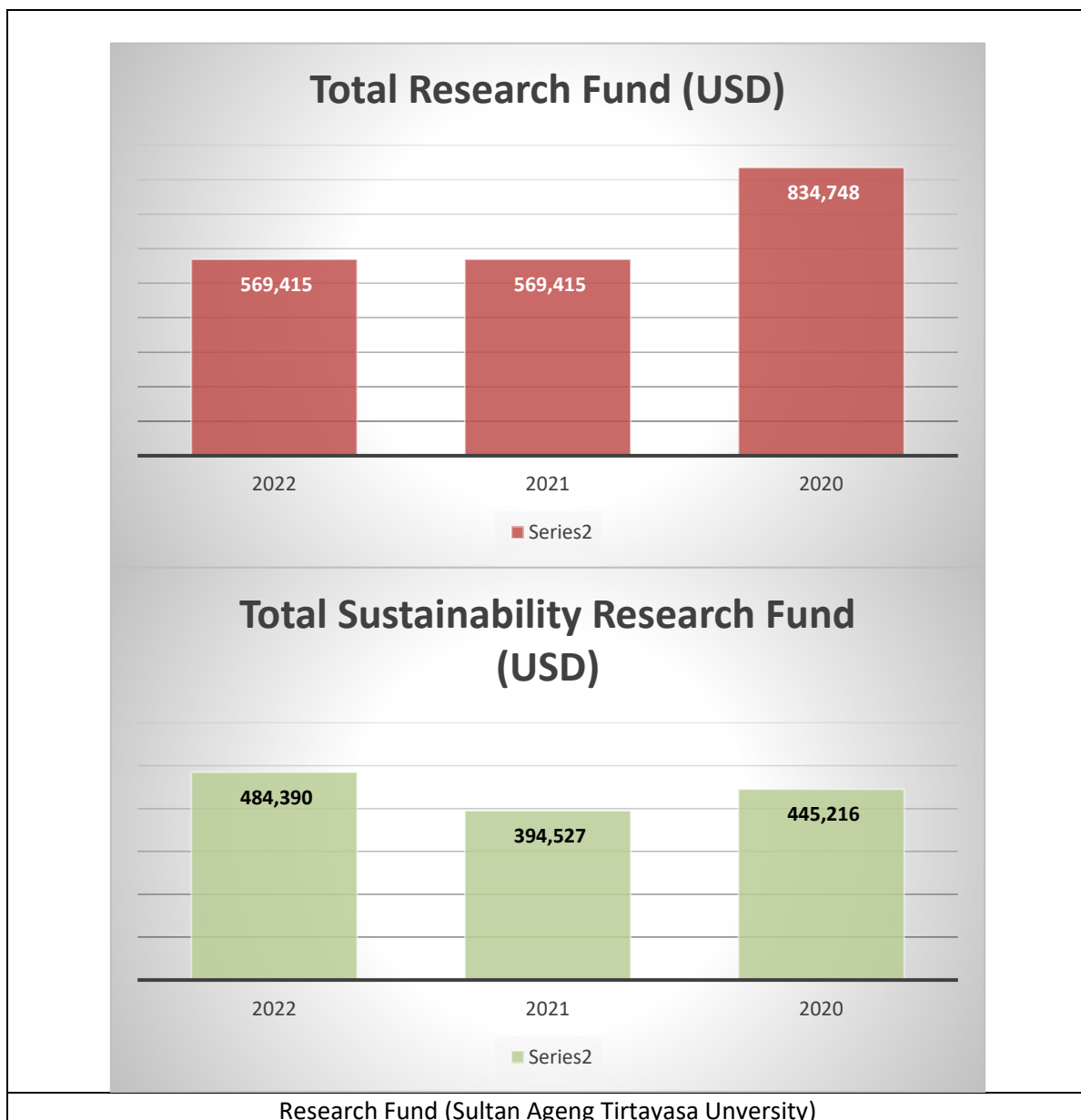


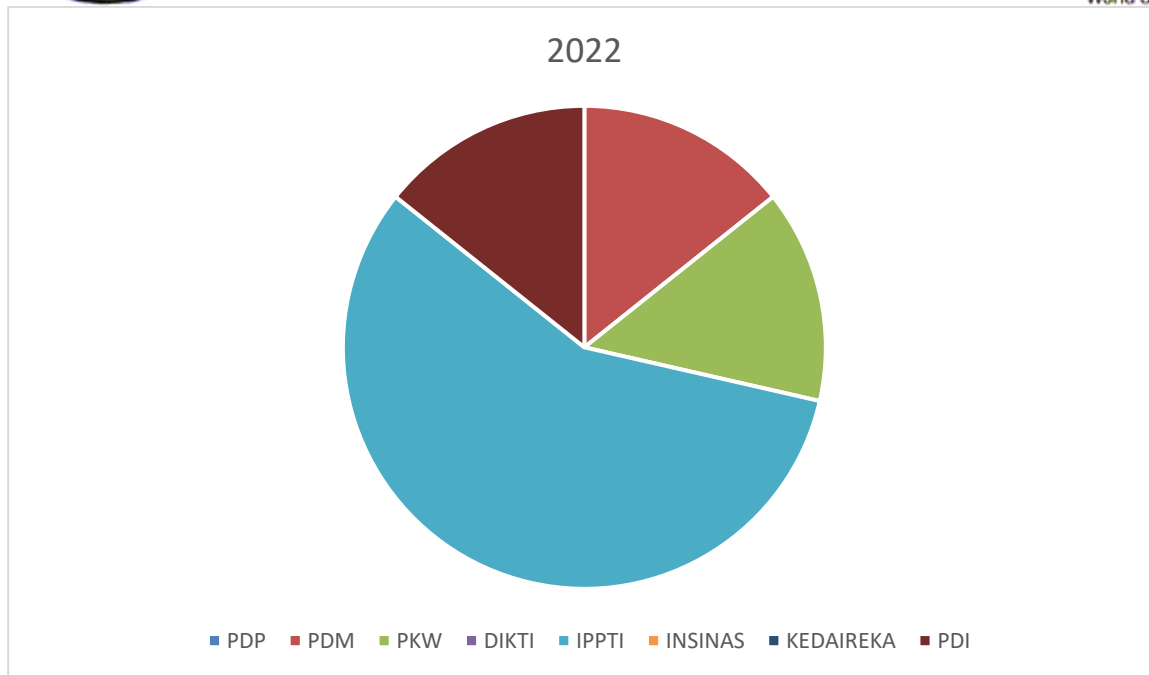
Template for Evidence(s) UI GreenMetric Questionnaire

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Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[6] Education and Research (ED)

[6.5] Total Research Funds (in US Dollars)





Description:

This year there was increase in research funds sourced from the Kedaireka Matching fund scheme. Although on the other hand, there was a total decline in research funds due to the end of the research program funded by the IsDB.

The averaged annum last 3 years of research fund = 657.859 USD

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>



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University : University of Sultan Ageng Tirtayasa
Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[5] Transportation (TR)

[5.4] The Total Number Of Vehicles (Cars And Motorcycles) Divided By Total Campus Population

Several Operational Vehicle For The Untirta Campus





Description:

(Based on data from BMN, the number of cars managed by Untirta is 75 vehicles)

No.	Indicator	Total
5.1	Number of cars actively used and managed by the university	75
5.2	Number of Cars entering the university daily	404
5.3	Number of Motorcycles entering the university daily	1969
Total Number of Vehicles		2449
1.12	Total number of regular students	22318
1.14	Total number of academic and administrative staff	1302
Total Campus Population		23620
The Total Number Of Vehicles (Cars And Motorcycles With Combustion Engine) Divided By Total Campus Population		0,1036

Additional evidence link:

<https://green.untirta.ac.id/transportasi/>

<https://ppid.untirta.ac.id/?p=1463>

<https://siakad.untirta.ac.id>



Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
Country : Serang Banten
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[5] [TRANSPORTATION]

[5.5] Shuttle Services



Untirta's Shuttle Bus



Shuttle Bus Schedule

Description:

Untirta provide bus service campus route with no charge to support the accessibility of all academic community. Bus Campus operates on weekdays (Monday-Friday). It divided into two lines (B.01 line and B.02 line). B.01 line will pass through Campus E - Campus D – Campus B, while B.02 line will will pass through Campus E – Campus C- Campus A. For development, Untirta will operate a shuttle bus service with adding several time periode and number of busses to cover more people so that can reducing using private vehicles on campus.



Template for Evidence(s) UI GreenMetric Questionnaire

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<https://green.untirta.ac.id>

[5] [Transportasi]

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

Bicycle Parking at Campus A Pakupatan



Bicycle Parking at Campus B Cilegon





Bicycle Parking at Campus C Ciwaru



Bicycle Parking at Campus E Sindangsari





Electric Car Parking at Campus E Sindangsari



Description:

In order to create a pollution-free campus environment, Untirta has provided free bicycle services for entire academic community to use in campus area. In addition, it can encourage the use of bicycle as main option of transportation in campus area. Using bicycle as main transportation in campus area can reduce vehicle emission. This service can improve the quality of the environment and the pedestrian safety by starting to reduce using motorized vehicles in campus area.

Untirta already has open model electric cars, such as golf cars or commonly called as buggy cars. This vehicle is used to transport students and staffs throughout Campus E (Sindangsari). Each electric buggy cars can accommodate up to eight passengers. With the presence of these zero-emission vehicles, both bicycles and electric cars, it is hoped that the amount of exhaust emissions on campus can be minimized as a result as cleaner and healthier air. In addition, there is no charge for using bicycles or buggy cars for Untirta's academic community.

Additional evidence link :

1. <https://untirta.ac.id/2018/10/05/untirta-bersepeda-membangun-kebersamaan/>
2. <https://untirta.ac.id/2019/09/25/sivitas-untirta-rayakan-diesnatalis-ke-38-dengan-gowes-sepeda-santai/>
3. <https://untirta.ac.id/2020/09/24/tirtayasa-virtual-bike/>
4. <https://untirta.ac.id/2020/10/21/bni-sumbang-10-unit-sepeda-listrik-untuk-untirta/>
5. <https://simerdeka.untirta.ac.id/konten/detail/untirta-terima-mobil-listrik-heman-energi-dari-bni-kc-serang>
6. <https://suarabantennews.com/redaksi/kontak-kami/20684/mahasiswa-untirta-ciptakan-mobil-listrik-formula/>
7. <https://www.youtube.com/watch?v=7i0uRzBIEZE>



Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
Country : Serang Banten
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

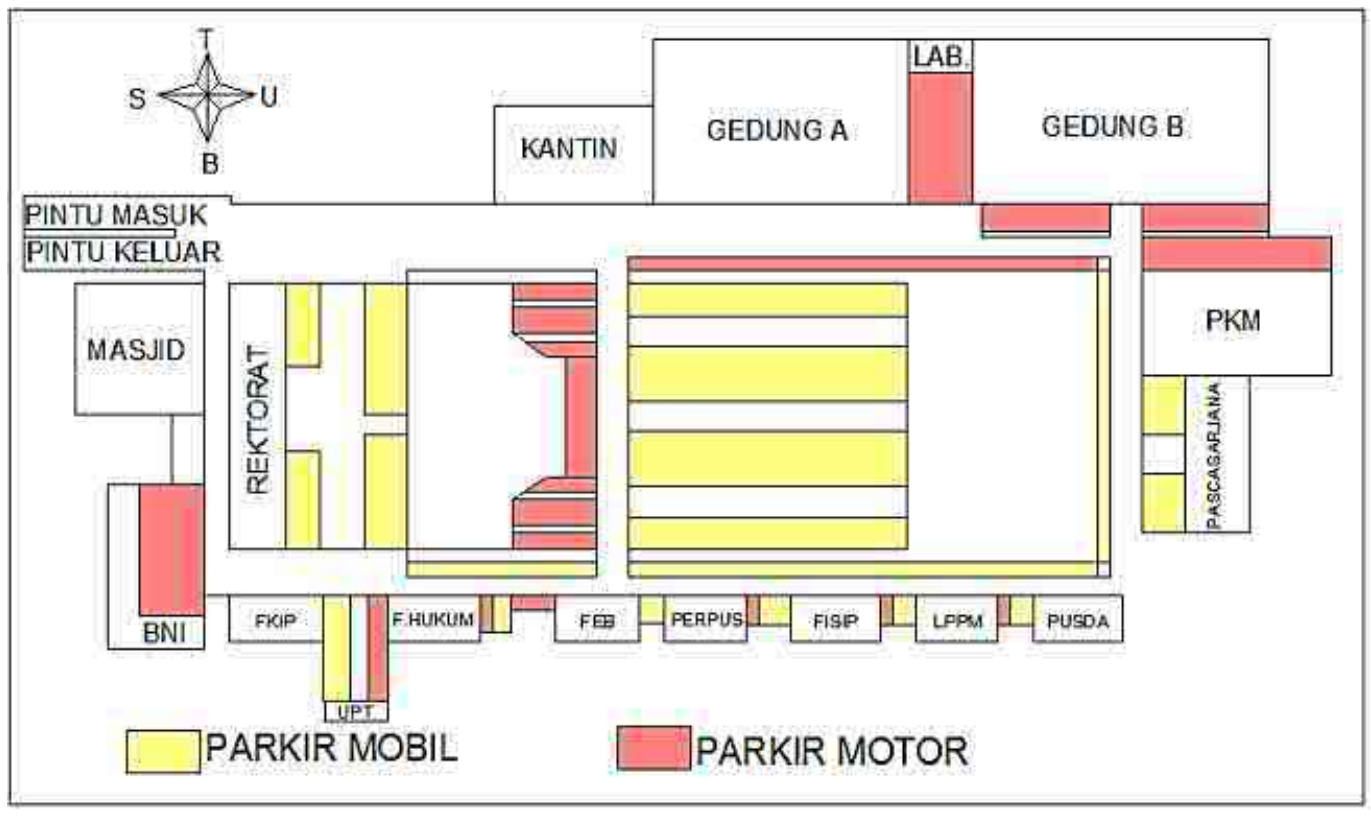
[5] [TRANSPORTATION]

[5.13] Ratio of Parking Area to Total Campus Area

Campus A Pakupatan



Parking Zone at Campus A Pakupatan





Campus B Cilegon



Parking Zone on Campus B Cilegon



KETERANGAN	
Parkir Motor	■
Parkir Mobil	■
Batas Luar Area	■



Campus C Ciwaru



Parking Zone on Campus C Ciwaru



Campus D Kependean



Parking Zone on Campus D Kepandean



Campus E Sindangsari



Parking Zone on Campus E Sindangsari



Description:

No	Campus	Area (m ²)
1.	Campus A Pakupatan	28.384
2.	Campus B Cilegon	61.847
3.	Campus C Ciwaru	29.216
4.	Campus D Kepandean	5.933
5.	Campus E Sindangsari	317.048
Total Area		442.428

No.	Campus	Parking Area (m ²)
1.	Campus A Pakupatan	3.015,80
2.	Campus B Cilegon	3.226,23
3.	Campus C Ciwaru	1.546,85
4.	Campus D Kepandean	574,60
5.	Campus E Sindangsari	132,00
Total Parking Area		8.495,48

Total Campus Area	442.428
Total Parking Area	8.495,48



Ratio of ground parking area to total campus area	0,02 % Where the value of 0,02 % is included in the category [5], namely < 1 %
---	---

Additional evidence link :

1. [https://www.google.com/maps/place/Universitas+Sultan+Ageng+Tirtayasa+\(Untirta\)/@-6.120726,106.194561,13z/data=!4m5!3m4!1s0x0:0xd7fbb1e65b42cbd2!8m2!3d-6.1207259!4d106.1945611?hl=id-ID](https://www.google.com/maps/place/Universitas+Sultan+Ageng+Tirtayasa+(Untirta)/@-6.120726,106.194561,13z/data=!4m5!3m4!1s0x0:0xd7fbb1e65b42cbd2!8m2!3d-6.1207259!4d106.1945611?hl=id-ID)
2. <https://untirta.ac.id/>
3. <https://www.google.com/maps?ll=-6.189931,106.124637&z=13&t=m&hl=id-ID&gl=US&mapclient=embed&cid=15052122896560739164>
4. <https://www.google.com/maps/place/Fakultas+Teknik+UNTIRTA/@-5.996273,106.032095,13z/data=!4m5!3m4!1s0x0:0x249411dd80bfd66e!8m2!3d-5.9962731!4d106.032095?hl=id-ID>
5. <https://ft.untirta.ac.id/>
6. <https://www.google.com/maps?ll=-6.130764,106.16566&z=13&t=m&hl=id-ID&gl=US&mapclient=embed&cid=12412607988068042645>
7. <http://fkip.untirta.ac.id/>
8. <https://www.google.com/maps/place/Akademi+Keperawatan+UNTIRTA/@-6.1121953,106.1407066,19z/data=!4m5!3m4!1s0x2e418b26b0bae6a1:0x7daee5584bf42617!8m2!3d-6.1119801!4d106.141035?hl=en>



The Parking Restriction Policy and Reduction of Private Vehicles on the Untirta Campus



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI
UNIVERSITAS SULTAN AGENG TJAKRA
 Jalan Raya Pajene 4, 40141 Sukoharjo, Kecamatan Pajene Kabupaten Sukoharjo
 Boyolali, Jawa Tengah 50132 Telp. (0271) 4210000 Fax. (0271) 4210000

Surat Keputusan Nomor: 100/UN/KEP/2022
 Tanggal: 10 Januari 2022

Menetapkan **Daftar Dosen Tetap**

Yaitu:

1. Dr. Agus Satrio, S.Pd, M.Pd
2. Dr. Agus Satrio, S.Pd, M.Pd
3. Dr. Agus Satrio, S.Pd, M.Pd
4. Dr. Agus Satrio, S.Pd, M.Pd
5. Dr. Agus Satrio, S.Pd, M.Pd
6. Dr. Agus Satrio, S.Pd, M.Pd
7. Dr. Agus Satrio, S.Pd, M.Pd
8. Dr. Agus Satrio, S.Pd, M.Pd
9. Dr. Agus Satrio, S.Pd, M.Pd
10. Dr. Agus Satrio, S.Pd, M.Pd

Ditandatangani oleh:

Rektor Universitas Sultan Ageng Tjakra

(Stempel dan Tanda Tangan)

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS SULTAN AGENG TJAKRA
 Jalan Raya Pajene 4, 40141 Sukoharjo, Kecamatan Pajene Kabupaten Sukoharjo
 Boyolali, Jawa Tengah 50132 Telp. (0271) 4210000 Fax. (0271) 4210000

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5. Dr. Agus Satrio, S.Pd, M.Pd
6. Dr. Agus Satrio, S.Pd, M.Pd
7. Dr. Agus Satrio, S.Pd, M.Pd
8. Dr. Agus Satrio, S.Pd, M.Pd
9. Dr. Agus Satrio, S.Pd, M.Pd
10. Dr. Agus Satrio, S.Pd, M.Pd

Ditandatangani oleh:

Rektor Universitas Sultan Ageng Tjakra

(Stempel dan Tanda Tangan)

Special Parking Sticker Which Is Only Given To Particular Lecturers And Teachers



"Green Friday" Activities, Held on the Second Sunday of Each Month on Fridays



Description:

In order to preserve the environment on campus, it will regulate restrictions on entering and parking at campus A Pakupatan Untirta considering that for other campuses there are still enough parking spaces available so that there is no congestion in parking spaces; the area of campus A Untirta is not affordable to accommodate the number of parking vehicles.

This policy is conducted to limit the carbon emissions/pollution in order to provide comfortable campus environment and order in the Untirta campus environment, especially at Campus A Pakupatan. This policy only allows parking for vehicles belonging to the University (Dinas), Senior Lecturers (Sepuh), Education Personnel and is valid only from Monday - Friday. To mark vehicles that can be parked, the University issues a special parking sticker which is only given to particular lecturers and teachers.

As a solution for those who do not get a parking space on campus, Untirta has provided a parking lot as an alternative place in collaboration with third parties in managing parking lots. Previously charged parking rates in the parking lot, but the University has waived fees as a consequence of the parking restriction policy.

Furthermore, the University has prepared several additional policies to limit the volume of parking in the campus environment, especially at the New Sindangsari Campus, based on the Rector's Decree No. 637 / UN43 / KPT.PR.00.00 / 2020 has listed several policies, including:

- The application of vehicle parking fees in the Universitas Sultan Ageng Tirtayasa campus.
- Enforcement of vehicle plate odd-even system for all vehicles entering the campus, except for official vehicles.
- Enactment of the operation of buses serving inter-campus routes that operate from 07.00 - 18.00.
- Enforcement of Car Free Day (CFD) on the campus of Universitas Sultan Ageng Tirtayasa as an implementation of reducing the parking area, at least one day per week during weekdays.
- Prohibition of bringing vehicles into the campus for one year for first semester students



In addition, Untirta has been update policy of limits the volume of parking in campus area, especially at Campus E (Sindangsari), based on announcement letter from Rector No. B/2153/UN43/RT.07/2022 has listed several updated policies, including:

- a. Two-wheeled and 4-wheeled motorized vehicles shall be parked at parking area beside main gate Campus E (Sindangsari), except:
 - ✓ Official vehicle
 - ✓ Operational vehicle
 - ✓ Guest vehicle with scheduled appointments
- b. For mobilization in campus, regional vehicles (U0Term) already provided which will pick up and drop off passengers at a predetermined places.
- c. During the probationary period, free of charge for staffs, students, and lectures

Untirta also offers a regular "Green Friday" program, which involves working on a bicycle from Campus A Pakupatan to Campus E Sindangsari at 7:00 a.m. and continuing with the "Clear Campus" activity in order to keep the Sindangsari Campus clean of rubbish.

Additional evidence link :

1. <https://bidikutama.com/berita-mahasiswa/catat-ini-kebijakan-untirta-soal-lahan-parkir-kampus-a/>
2. <https://bidikutama.com/berita-mahasiswa/babak-baru-lahan-parkir-untirta/>
3. <https://www.youtube.com/watch?v=7iOuRzBIEZE>
4. <https://www.youtube.com/watch?v=YSUVAiTxaJM>
5. <https://untirta.ac.id/2021/02/18/untirta-green-friday-19-februari-2021/>
6. <https://untirta.ac.id/en/2020/09/24/tirtayasa-virtual-bike/>



Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
Country : Serang Banten
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[5] [TRANSPORTATION]

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

The Availability of UNTIRTA Campus Bus services



PETA RUTE DAN JADWAL BIS UNTIRTA

UNTIRTA KAMPUS BUS SINDANGBARI 4-10 KAMPUS (B.01)

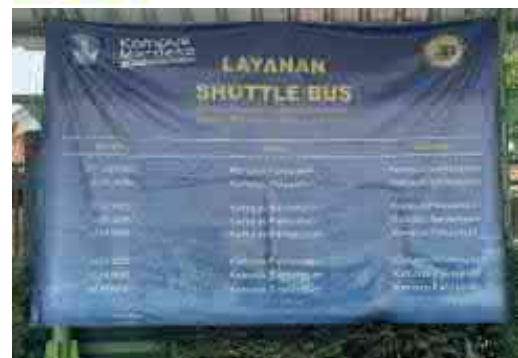
Waktu Keberangkatan	Waktu Tiba	Waktu Kembali
06.00	06.15	06.30
06.30	06.45	07.00
07.00	07.15	07.30

UNTIRTA KAMPUS BUS SINDANGBARI 4-10 KAMPUS (B.02)

Waktu Keberangkatan	Waktu Tiba	Waktu Kembali
06.00	06.15	06.30
06.30	06.45	07.00
07.00	07.15	07.30

UNTIRTA KAMPUS BUS SINDANGBARI 4-10 KAMPUS (B.03)

Waktu Keberangkatan	Waktu Tiba	Waktu Kembali
06.00	06.15	06.30
06.30	06.45	07.00
07.00	07.15	07.30





Conditions of Car Free Day Implementation at Untirta





KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS SULTAN AGENG TIRTAWANA
Jalan Fatah Iskandar No.1 A Palembang - Sumatera Selatan 30132
Telpone (0311) 280115 / Faksimile (0311) 280124
Website : www.unsri.ac.id / info@unsri.ac.id

Abstract

- ### Stärkungsregeln

- References**

ALCOHOL-ATTN

bertatapokan, antara lain, akan menghasilkan persentase persis, dan pengurangan lamanya periode di dalam Universitas Duitan. Akan tetapi, demikian.

- SUBJECTS**

METHOD

Registration for the lab is a weekly, ongoing effort.

Dr. FARAH SULAIMAN
NIP. 19681006200112-0012

<https://doi.org/10.26907/2502-3008.v2i1.p1>

-



**Description:**

The Car Free Day activity is a routine agenda which is carried out by Universitas Sultan Ageng Tirtayasa in order to support and care for the condition of the campus environment as stipulated in several Rector's Decrees and Rector's Letters. By implementing the CFD activity, air quality on campus is protected from vehicle emissions that can endanger humans and the environment. The policy of the CFD program can create a new culture in transportation; using public transportation, cycling and walking.

As Untirta's main commitment to realizing a green campus, it is planned to build an integrated public transport service system, by implementing services and ticketing systems with low rates even free of charge. Then to support this service, Untirta will implement restrictions on the SRP (Parking Space Unit) as an effort to force motorized vehicle users, in this case, the academic community, to switch to public transportation. Currently, Untirta has provided free campus bus service facilities which are scheduled for Monday-Friday with routes to each Untirta campus which is spread across several different areas.

Another program to limit the use of motorized vehicles on the Untirta campus is to issue the following policies:

- a. The application of vehicle parking fees in the Universitas Sultan Ageng Tirtayasa campus.
- b. Enforcement of vehicle plate odd-even system for all vehicles entering the campus, except for official vehicles.
- c. Enactment of the operation of buses serving inter-campus routes that operate from 07.00 - 18.00.
- d. Enforcement of Car Free Day (CFD) on the campus of Sultan Ageng Tirtayasa University as an implementation of reducing the parking area, at least one day per week during weekdays.
- e. Prohibition of bringing vehicles into the campus for one year for first semester students

In addition, Untirta has been update policy of limits the volume of parking in campus area, especially at Campus E (Sindangsari), based on announcement letter from Rector No. B/2153/UN43/RT.07/2022 has listed several updated policies, including:

- a. Two-wheeled and 4-wheeled motorized vehicles shall be parked at parking area beside main gate Campus E (Sindangsari), except:
 - ✓ Official vehicle
 - ✓ Operational vehicle
 - ✓ Guest vehicle with scheduled appointments
- b. For mobilization in campus, regional vehicles (U0Term) already provided which will pick up and drop off passengers at a predetermined places.
- c. During the probationary period, free of charge for staffs, students, and lectures

Additional evidence link :

1. <https://bidikutama.com/berita-mahasiswa/car-free-day-untirta-2/>
2. <http://fkip.untirta.ac.id/2019/08/08/pemberitahuan-car-free-day-terkait-pelaksanaan-spok-2019/>
3. <https://untirta.ac.id/2020/07/04/pelaksanaan-car-free-day-di-lingkungan-kampus-selama-utbk-sbmptn/>
4. <https://fisip.untirta.ac.id/2019/09/24/car-free-day-25-26-september-2019/>
5. <https://bidikutama.com/berita-mahasiswa/untirta-cfd-selama-2-hari-ke-depan/>
6. <https://bidikutama.com/berita-mahasiswa/gelar-utbk-ini-tanggal-cfd-untirta/>
7. <https://www.youtube.com/watch?v=7iOuRzBIEZE>
8. <https://www.youtube.com/watch?v=YSUVAiTXaJM>



Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
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Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[5] [TRANSPORTATION]

[5.16] Pedestrian Path Policy on Campus



Sidewalk (Pedestrian Paths) at Campus A Pakupatan



Sidewalk (Pedestrian Paths) at Campus B Cilegon



Sidewalk (Pedestrian Paths) at Campus C Ciwaru



Sidewalk (Pedestrian Paths) at Campus E Sindangsari

Description:

Pedestrian walkway facilities on the Untirta campus area are intended to make it easier for pedestrians to reach their destinations in a comfortable, safe, and peaceful manner. Pedestrian walkway facilities are made to protect pedestrians from heat and rain. In addition, it is separated by a distance from the vehicle path so it is quite safe when walking. Some areas of campus are provided with increments to replace stages, and guide blocks for pedestrians with physical disabilities (disabled).

Additional evidence link :

<https://green.untirta.ac.id/transportasi/>

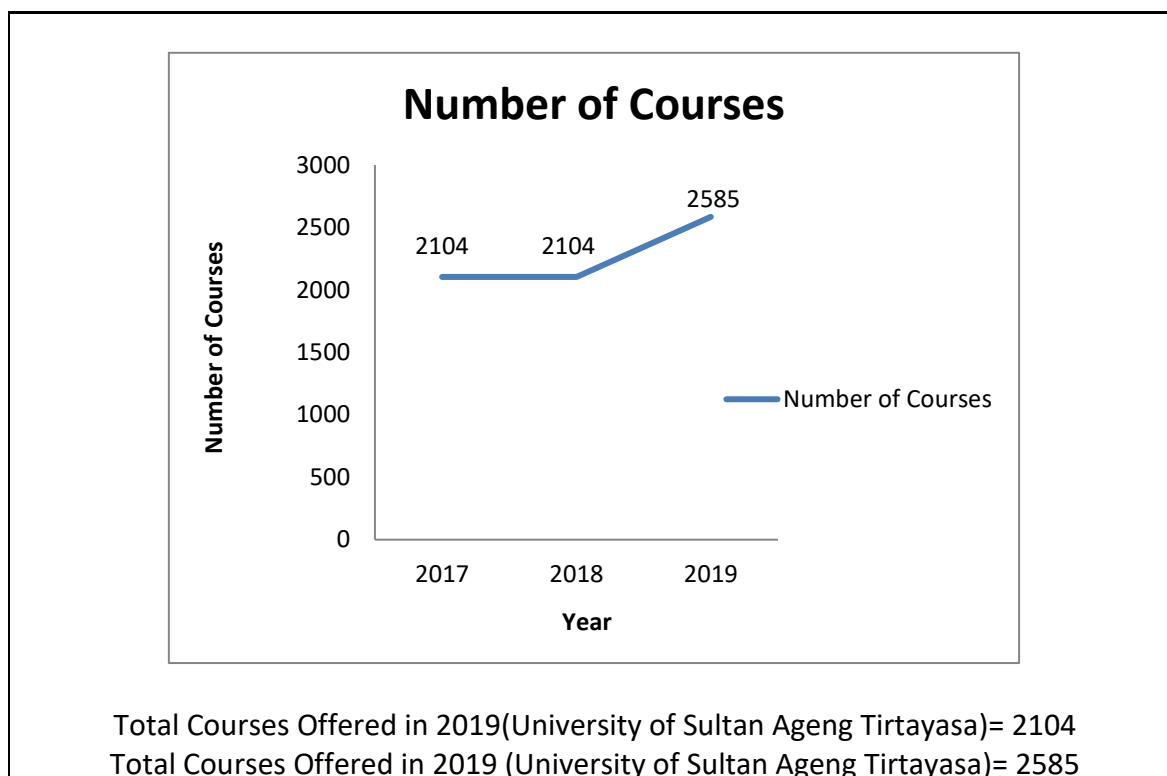


Template for Evidence(s) UI GreenMetric Questionnaire

University : University of Sultan Ageng Tirtayasa
Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[6] Education and Research (ED)

[6.2] Total Number of Courses/Subjects Offered



The grand Design of Curriculum used in University of Sultan Ageng Tirtayasa has been legalized by Universitas of Sultan Ageng Tirtayasa Rector Decree No. 259/UN.43/KR/SK/2014. In 2017-2018, Curriculum 2014 was implemented focused on the principle of KKNI in order to assess an individual in the aspects of knowledge, competencies, and skills in accordance with the learning achievements obtained through educational process. In 2019-2024, Curriculum 2019 implements the outcome-based (OBE) curriculum still in reference to KKNI. OBE is designed to cover the goals with what evidence in the learning outcomes.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>



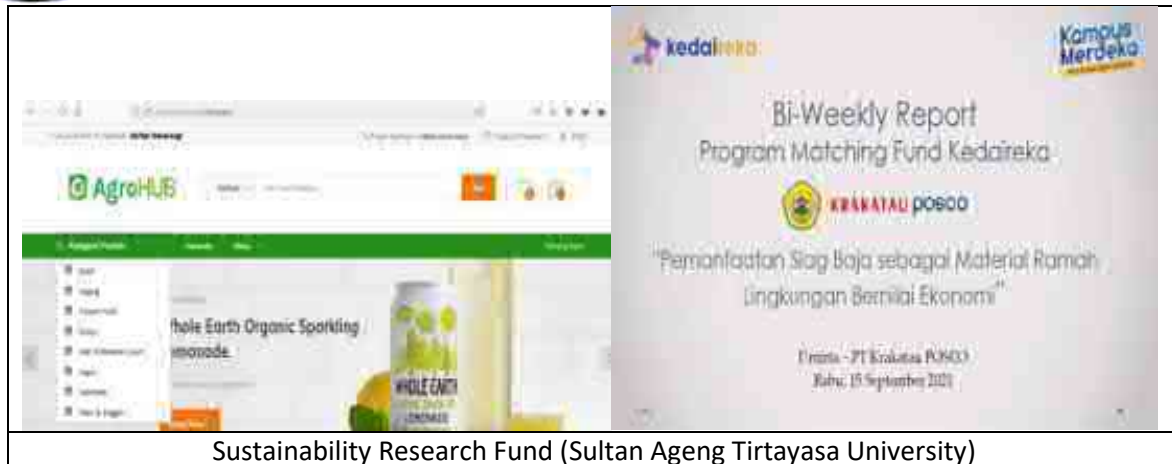
Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[6] Education and Research (ED)

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





Sustainability Research Fund (Sultan Ageng Tirtayasa University)

Description:

Total research fund dedicated to sustainability research in 2018 = 514785 US Dollars

Total research fund dedicated to sustainability research in 2019 = 223580 US Dollars

Total research fund dedicated to sustainability research in 2020 = 445215 US Dollars

The average annum last 3 years of research fund dedicated to sustainability research = 394,527 US Dollars

The ratio of research funds for research on the theme of Sustainability is 41%.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>



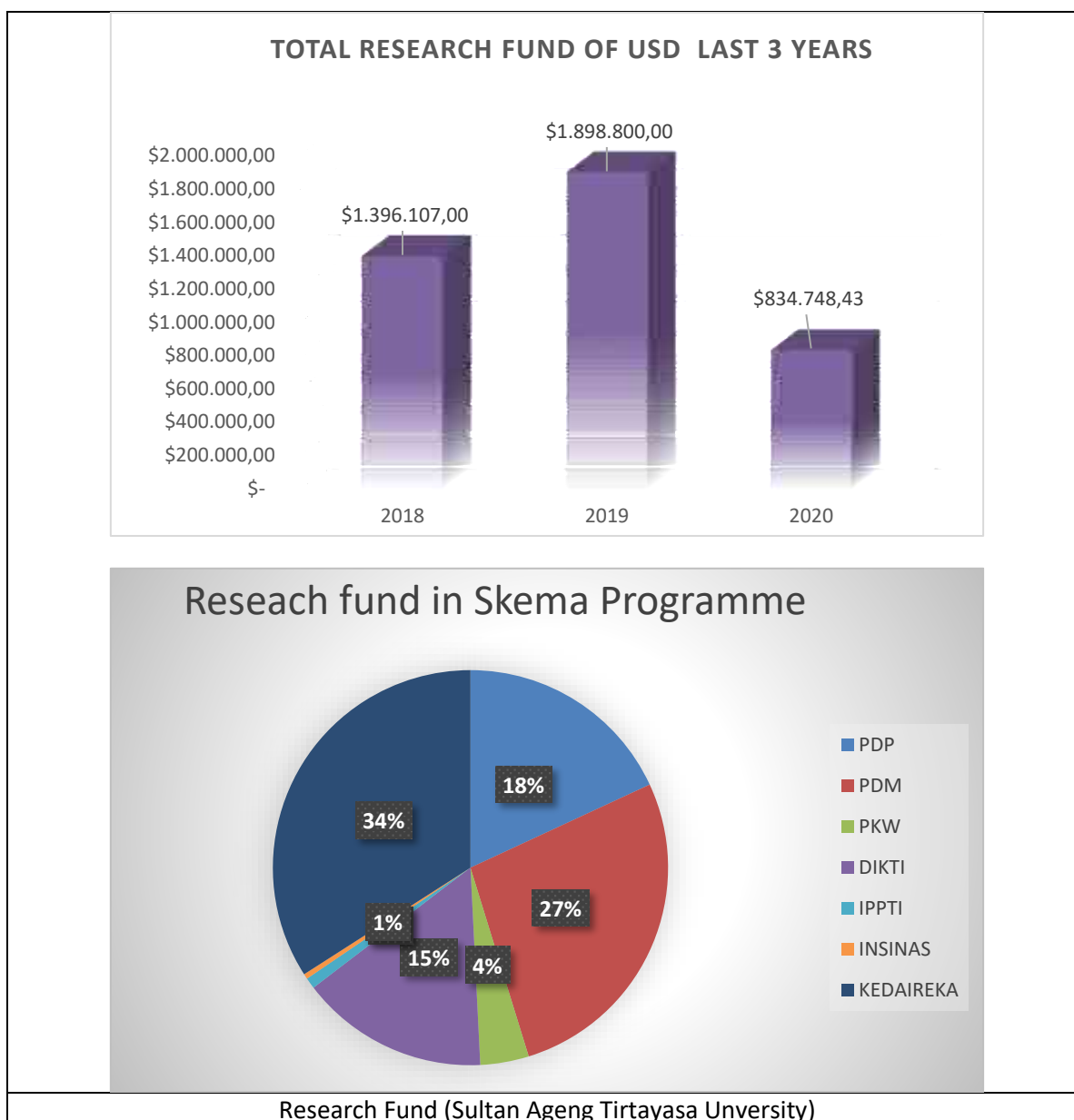
Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[6] Education and Research (ED)

SAMPLE

[6.5] Total Research Funds (in US Dollars)





Description:

This year there was a 34% increase in research funds sourced from the Kedai Raka Matvhing fund scheme. Although on the other hand, there was a total decline in research funds due to the end of the research program funded by the IsDB.

Total research fund in 2018 = 1.396.107 US Dollars

Total research fund in 2019 = 1.898.800 US Dollars

Total research fund in 2020 = 834748 US Dollars

The averaged annum last 3 years of research fund = 1.376.552 US Dollars

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>



Template for Evidence(s) UI GreenMetric Questionnaire

University : Universitas Sultan Ageng Tirtayasa
Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[6] Education and Research (ED)

[6.7] Number of scholarly publications on sustainability.



Search results for "sustainability"

Quartile	Publications	Citation
Q2	Wahle-Perspectives Reflection on how Indigenous Knowledge and Related Ideas Can Improve Science Education for Sustainability Science and Education vol. 29 Issue: 11 2020-02-01 Journal	11
-	Integration of production and supply chain strategic planning for renewable resources under sustainability considerations: Fast wood case study less International Conference on Industrial Engineering and Engineering Management vol. 1 Issue: 1 2021-12-01 Conference Proceedin	8
Q2	Integrating perspectives from indigenous knowledge and Western science in secondary and higher chemistry teaching to contribute sustainability education Sustainable Chemistry and Pharmacy vol. 16 Issue: 1 2020-06-01 Journal	5
Q1	Conceptual framework for how to teach/learn concepts in Indonesia Indonesian Subject 24 Immigrant learning in grades 1-3 of elementary school in the curriculum 2013 to contribute to sustainability education Sustainability (Switzerland) vol. 13 Issue: 1 2021-01-01 Journal	0
Q2	Consejo de la Mente Perspectives Reflection on how Indigenous Knowledge and Related Ideas Can Improve Science Education for Sustainability Science &	0



Sinta publications on sustainability (Universitas Sultan Ageng Tirtayasa Indonesia)

Scholarly publications on Sustainability (Universitas Sultan Ageng Tirtayasa Indonesia)



JUDUL	ISSUE	ABSTRACT	DOI
Jurnal Perikanan dan Kelautan	Vol 9, No 3 (2019)	Vulnerability of Reeffishes of Handline and Lift Net Fishing Gear that Landed in Kendari, Bitung, Wakatobi and Larantuka Fishing Port	ABSTRACT DOI
Yonizner Yanibeth; Mennofatri Boci; Masnur Tarmazita; Helmy Akbar			
Jurnal Perikanan dan Kelautan	Vol 9, No 1 (2019)	Analysis of The Shark Fisheries Sustainability in Citarap Regency, Central Java	ABSTRACT DOI
Anhar Nuzli; Anis Dan Purwana Fidi; Fajana Wahyu Funnah			
JURNAL AGRIBISNIS TERPADU	Vol 13, No 1 (2020)	PERANAN PENYULUH PERTANIAN DALAM MEMBUKUKAN KEBERLANJUTAN AGRIBISNIS PETANI MUDA DI KABUPATEN MAGALANGKA	ABSTRACT
Dendi Ambarudin; Sumartono Sumartono; Anif Sabia; Anni Fatchira			
JURNAL AGRIBISNIS TERPADU	Vol 12, No 1 (2019)	STRATEGI KEBERHASILAN USAHA HOME INDUSTRY SEPATU DALAM MEMBUDIDAYA MASYARAKAT	ABSTRACT DOI
Suzah Fauziah Audina; Muhtadi Muhtadi			
JURNAL AGRIBISNIS TERPADU	Vol 11, No 2 (2018)	KEBERLANJUTAN KETERSEDIAAN BAHAN DI KABUPATEN PANDEGLANG (PROVINSI BANTEN)	ABSTRACT DOI
Naharanti Rani Lanya; Anis Supri Wahono; Ahmad Rukhan			
Titikas Ekonomika	Vol 15, No 2 (2020)	Pengaruh Integrated Reporting Terhadap Asimetri Informasi	ABSTRACT DOI

Untirta's Journal Publications on Sustainability (Universitas Sultan Ageng Tirtayaasa Indonesia)

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>




Template for Evidence(s)
UI GreenMetric Questionnaire

University : University of Sultan Ageng Tirtayasa
Country : Indonesia
Web Address : www.untirta.ac.id
<https://green.untirta.ac.id>

[6] Education and Research (ED)

[6.8] Number of events related to sustainability. (average annually for the past 3 years)

These events are annual program held by each Student Organization

<p>Student Association of Agronomic- Himpunan Mahasiswa Agronomi (HIMAGRON)</p> 	
1	<p>Serasi (Selasa Berprofesi), practices how to incorporate to improve soil quality manage crops and improve the environment starting with plantation until harvesting</p>  
2	<p>Community empowerment in Desa Cisalam, Baros, Kabupaten Serang as a Partner Village carried out once a moth</p>  
3	<p>Field Trip to Hidroponic garden</p>  



4 Commemorate Earth days conducted by held several Scientifics studies program



Student Association of Agribisnis-Himpunan Mahasiswa Agribisnis (HIMAGRI)



5 Himagri goes to village for community empowerment



6 Public Discussion related with climate exchange and energy availability for Fisherman welfare





7 Seminar and Culinary Contest on local food, Promotion and preservation of **traditional** Nice cuisine



Student Association of Fisheries Studies-Himpunan Mahasiswa Perikanan (HIMAPI)



8 Commemorate on Fisherman Days



Faculty Student Activity Unit of the Plant Lovers Unit Kegiatan Mahasiswa Fakultas Pecinta Tanaman (UKMF-PCT)





9	<p>Training Activities for student- Local microorganism-MOL production, biopesticides, Kokedama, Hydroponics, Aquaponics, other crop cultivation,</p> <div> </div>
10	<p>Ngebon (Cultivation training)</p> <div> </div>
11	<p>Mangrove Plantation: planting mangrove seedlings in the area of Tunda Island, Banten, to conserve mangrove areas and prevent abrasion</p> <div> </div>
12	<p>1000 Trees Programme in Munjul, Pandeglang. These activities are carried out through reforestation and environmental preservation efforts</p> <div> </div>



13	<p>Bonsai Training: Give student skills on creating Bonsai as art and hobby</p> 
<p>Student Association of Biology Education –HMJ Pendidikan Biologi</p> 	
14	<p>Specialization in Biology-Biologi Peminatan (BIOTAN): exploration of natural resources (SDA) in Tunda Island, Serang-Banten on 2019, Taman Hutan Raya Carita on 2018 and Gunung Pulosari 2017</p> 
15	<p>Bioeducare in Villages: community empowerment and concern with the environmental problem. 2019 in Sukatani village, 2018 in Curug Agung Village and 2017 in Sukageunah Village</p> 
16	<p>Biology Expo: to improves students skill on environmental conservation knowledge and skills</p> 
<p>Student Association of Natural Science Education –HMJ Pendidikan IPA</p>	
17	<p>Month of Forest in commemoration of Department of Natural Science Educations Dies Natalis -Bulan Rimba</p> 



Student Association of Chemical Education –HMJ Pendidikan Kimia



18 Community empowerment in Jarakah Vilage Kasemen Banten



Student Association of Primary School Education –HIMAGUSEDA



19 Community Empowerment in Village



Student Excecutive Board Faculty of Economic and Business - Badan Eksekutif Mahasiswa (BEM FEB)



20 Cheerful with Orphans in the month of Ramadan - CERBAY (Ceria Bersama Anak Yatim dibulan Ramadhan)





Student Excecutive Board Faculty of Law - Badan Eksekutif Mahasiswa (BEM FH)



21

Village Development Grant Program for Disaster Mitigation System



Mapala Krakatau Fakultas Teknik Untirta



22

Tree Plantation: programme for increasing green areas in the city



Student Association of Chemical Engineering-Himpunan Mahasiswa Teknik Kimia (HIMATEMIA)



23

Waste Treatment competition

24

Training on process safety management



Sultan Ageng Tirtayasa University Student Nature Explorer- MAPALAUT









25	Kasepuhan Local Wisdom Exploration, Guidance Period of member
26	Mabim Gunung Hutan, The Journey of Mapalaut

Annual Events related to sustainability held by University

No	Events
Department of Biology education, Faculty of Teacher training and Education	
27	<p>National Seminar on Biology and Biology Education: The Role of Biology Learning Based on Local Potentials for Industrial Revolution Era 4.0</p> 
28	<p>Field Trip Vertebrate animal diversity in HALIMUN SALAK National Parks</p> 
29	<p>Workshop "Combating Fusarium Wilt of Banana: Diagnosis, Preventive, and Genetic Improvement on Resistance plants" collaboration programme with R&D Great Giant Food.</p>










	 	
30	<p>Studi Kebantenan: BANTEN DALAM GENGAMAN</p> <p>Introduce Banten everything from history, culture, natural potential, and traditional culinary to foster a love for Banten land among teenagers by Biology education students</p>  	
31	<p>Training of Trainers on Identification of Mycotoxin Producing Fungi in collaboration with Seameo BIOTROP</p> 	
32	<p>Biology education students goes to Baluran for field trip and experiment in Ecology and Conservation biology course</p> 	
33	<p>Community service in Pontang Village: How to use agriculture waste as Mushroom Cultivation media</p>	



34	Education Programme for Primary School students on Aves in SD PERADABAN CILEGON		
35	Community service to Primary School Student How to implemented 3R		
36	Ornithologi in action: Bird Watching in Taman Burung TMII (Taman Mini Indonesia Indah) for Student of Biology Education who take Ornithologi course		
37	Field trip for Biology Conservation and General Ecology in National Park of Ujung Kulon		



	 
38	<p>Field trip for Biology Conservation in Rawa Danau Nature Reserve</p>  
39	<p>Biology Education and Conservation-BIDIK: explore biodiversity in National Park of Ujung Kulon</p>  
	Faculty of Agriculture
40	<p>The 1st International Conference on Agriculture and Rural Development (ICARD) in collaboration ICEFORY, Balitbantan Kementrian Pertanian dan Perhimpunan Agronomi Indonesia to share knowledge, unite ideas, and find out suitable strategies for sustainable agriculture with empowering potency of rural area under global and local issues.</p> 
	Community service and empowerment carried out by faculty, lecturer and student of Department of Agroecotechnology in 2017-2018



41	Urban Farming Wolkaponik System as a Solution to Scarcity of Chili Pepper in the Ciceri Permai Complex in 2017
42	Local Community Assistance for the Development of Organic Agriculture and Agribusiness Potentials to Create an Organic Village in Pandeglang Regency in 2017
43	Coastal Community Empowerment through the Introduction of Silvofishery Technology in Order to Utilize Idee Ponds in the North Coast area of Banten in 2017
44	Student / Alumni Assistance Program in Special Efforts (USAHA KHUSUS-UPSUS) to Increase Food Production for Rice and Corn Commodities, Kalanganyar & Warunggunung Districts, Lebak Regency, Banten Province in 2017
45	Development Assistance for Horticultural Areas (Chili Pepper Commodities) in Cikuya Village, Sindangsari Village, Serang Regency, Banten in 2017
46	Community Empowerment by Improving the Quality of Fruit Seedlings Using the Mini Grafting Method in 2017
47	Empowerment of Farmer Groups through Utilization of Fruit and Papaya Seed Waste (Carica Papaya) in Efforts to Improve Farmers' Economy in Lebak Regency, Banten Province in 2017
48	Pemberdayaan Masyarakat dalam Pembentukan Klaster Tabulampot-Vertikultur Untuk Optimalisasi Pekarangan Rumah dan Industri Sebagai Ruang Kawasan Lindung dan Kawasan Budidaya TBSO di Sekitar Industri Modern Cikande Serang Menuju Perwujudan Agro-Eco-Industrial Park Bersih Hijau dan Sehat (BHS) in 2017
49	Local Community Assistance for the Development of Organic Agriculture and Agribusiness Potentials to Create an Organic Village in Pandeglang Regency in 2018
50	Pokdarwis Development Program (Tourism Awareness Group) through the use of agricultural waste into souvenir products to improve community welfare in Pandeglang district 2018
51	Empowerment of Rice and secondary crops Farmers in the Formation of Soybean Seed Breeding Groups to Ensure Independent Soybean Seed Availability in Serang Regency, Banten Province 2018
52	Community-based science and technology Increasing Rice Paddy Production Using Biotamax Organic Fertilizer and Humic Acid 2018
53	Assistance to the Program for Increasing Rice and Corn Production in Bojongmanik & Cimarga Subdistricts, Lebak Regency in 2018
	Community service and empowerment carried out by faculty, lecturer and student of Department of Agribusiness in 2017-2018
54	Product Development Technology Intoduction and Packaging Introduction to Palm Sugar UMKM to Increase Product Added Value in Communities Around the Halimun Mountain Conservation Area in 2017
55	Community empowerment through the development of ornamental plants and vegetables with the Vertical Garden System by utilizing waste for the development of the Old Banten Religious E-Tourism in 2018
56	Increasing Rice Paddy Production Using Biotamax Organic Fertilizer And Humic Acid in 2018
57	Socialization of Zero Waste Compost Making Technology in Serang City, Banten Province in 2018
	Community service and empowerment carried out by faculty, lecturer and student of Department of Chemical Engineering in 2017-2018
58	2017/2018 Introduction Of Rubber Seed Waste Processing Technology Into Processed Snack Products To Achieve Local Food Security In Lebak Banten
59	2017/2018 Experts In Qualification, Evaluation And Verification Of Coal Tar As Raw Materials For Chemical Industry



60	2017/2018 Community Education To enhance information on utilization And Side Effects Of Chemical Compounds As Additional Materials in village
61	2017/2018 Water Purification Program With Combination Methods Of Conventional Water Purification And Ultrafiltration For Linduk Settlement Communities, Pontang Regency
62	2017/2018 Expert Research Team On Biomass Potential Technology Applied Study Activities In Banten Province
63	2017/2018 Kkm Mandiri In Kadugenep Village
Community service and empowerment carried out by faculty, lecturer and student of Department of Public Administration, Gaduate Programme 2017-2018	
64	2017 Extension of the Biopore Method as an Effort to Prevent Floods in Tegal Ratu Village, Ciwandan District, Cilegon City
65	2018 Pokdarwis (Tourism Awareness Group) Development Program Through the Use of Agricultural Waste as Souvenir Products to Improve Public Welfare in Pandeglang Regency
66	2018 Optimizing the Role of Community Groups in Realizing Community Empowerment and Environmental Care in Their Territories
67	2018 Training of Mantri Farmers Regeneration in an Effort to Strengthen Family Food Security in Sawarna Village, Lebak Regency, Banten

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>



Template for Evidence(s)
UI GreenMetric Questionnaire






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[6] Education and Research (ED)

[6.9] Number of student organizations related to sustainability

No	Name of student organizations	The program related with environment and sustainability
1	Student Association of Agronomic- Himpunan Mahasiswa Agronomi (HIMAGRON) 	Serasi (Selasa Berprofesi), Community empowerment in Desa Cisalam, Baros, Kabupaten Serang , Field Trip to Hidroponic garden, Commemorate Earth days
2	Student Association of Agribisnis-Himpunan Mahasiswa Agribisnis (HIMAGRI) 	Himagri goes to village, Public Discussion related with climate exchange and energy availability for Fisherman welfare in 2019, Seminar and Culinary Contest on local food in 2019
3	Student Association of Fisheries Studies-Himpunan Mahasiswa Perikanan (HIMAPI) 	Commemorate on Fisherman Days in 2019
4	Faculty Student Activity Unit of the Plant Lovers Unit Kegiatan Mahasiswa Fakultas Pecinta Tanaman (UKMF-PCT) 	Training Activities for student- Local microorganism- MOL production, biopesticides, Kokedama, Hydroponics, Aquaponics, other crop cultivation, Ngebon (Cultivation training), Mangrove Plantation, 1000 Trees Programme
5	Student Association of Biology Education –HMI Pendidikan Biologi 	Specialization in Biology-Biologi Peminatan (BIOTAN), Bioeducare in Villages, Biology Expo,



6	Student Association of Natural Science Education – HMJ Pendidikan IPA	Month of Forest in commemoration of Department of Natural Science Educations Dies Natalis -Bulan Rimba
7	Student Association of Chemical Education –HMJ Pendidikan Kimia 	Community empowerment in Jarakah Vilage Kasemen Banten
8	Student Association of Primary School Education – HIMAGUSEDA 	Community Empowerment in Sindangkarya Village
9	Student Excecutive Board Faculty of Economic and Business - Badan Eksekutif Mahasiswa (BEM FEB) 	Cheerful with Orphans in the month of Ramadan - CERBAY (Ceria Bersama Anak Yatim dibulan Ramadhan)
10	Student Excecutive Board Faculty of Law - Badan Eksekutif Mahasiswa (BEM FH) 	Village Development Grant Program for Disaster Mitigation System
11	Mapala Krakatau Fakultas Teknik Untirta 	Tree Plantation
12	Student Association of Chemical Engineering- Himpunan Mahasiswa Teknik Kimia (HIMATEMIA)	Waste Treatment competition, Training onprocess safety management



13	<p>Sultan Ageng Tirtayasa University Student Nature Explorer- MAPALAUT</p>	<p>Kasepuhan Local Wisdom Exploration, Guidance Period of member- Mabim Gunung Hutan, The Journey of Mapalaut</p>

Additional evidence link:

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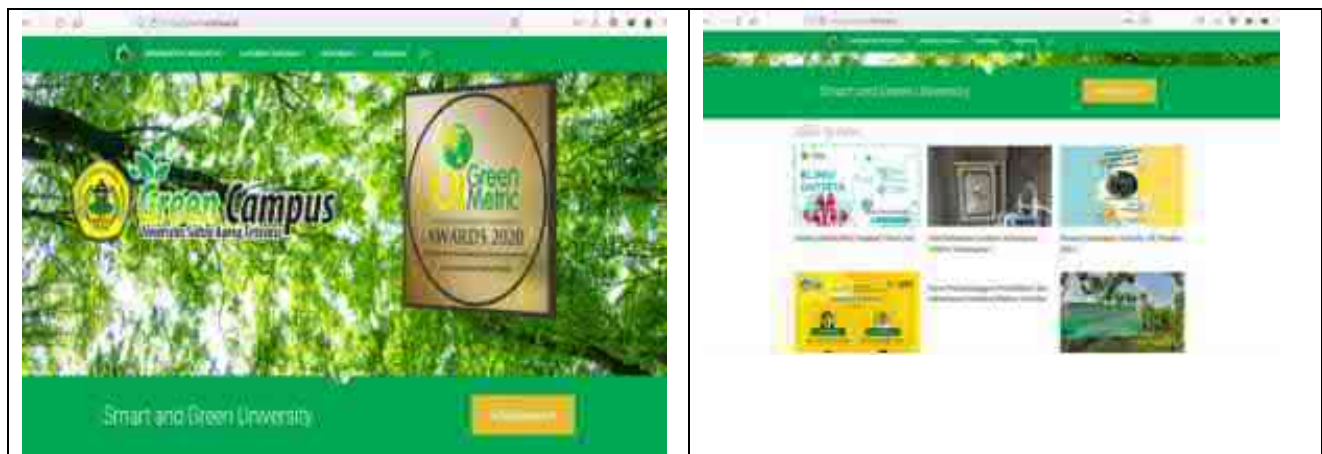


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[6] Education and Research (ED)

[6.12] Sustainability Report



Website Green Campus of Universitas Sultan Ageng Tirtayasa
<https://green.untirta.ac.id>





The screenshot shows the 'Green Campus' website for Universitas Sultan Ageng Tirtayasa (UNTIRTA). The main content area features the UNTIRTA logo with a green plant graphic above it, and the title 'Laporan Tahunan UIGM Untirta 2021'. The sidebar on the right includes a search bar, 'Recent Posts' with links to various reports, and 'Archives' with a list of years from 2021 to 2023.

Sustainability report (Universitas Sultan Ageng Tirtayasa, 2021)

Every information and activity regarding Smart and Green Campus can be viewed on a specific website that is developed and managed by UPT. Smart, Green and SDGs and Relationship Affair of Untirta. The website covers all activities in UIGM assessment categories namely Setting and Infrastructure Energy and Climate Change Waste, Water, Transportation, Education and Research. In addition, some activities related to 17 Goals of SDGs including “Kampus Sehat” – Healthy Campus program. Everything is always up to date.

Sustainability report produced in 2020. and 2021.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/2022/10/20/laporan-tahunan-uigm-untirta-2021/>



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[6] Education and Research (ED)

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



cultural activities on campus (Universitas Sultan Ageng Tirtayasa, Indonesia)



High-achiever students took part in a competition organized by the Association of Indonesian 'Sendratasik' (Dance and Music Art) Education Study Programs (AP2SENI). Janah, won the 1st place in the Monologue Contest with the title Galuh by Fauzian Ansyari. The other students won 1st place in the Dance Competition, supervised by lecturers of Performing Arts Education of Faculty of Teacher Training and Education UNTIRTA.

Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>



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www.green.untirta.ac.id

[6] Education and Research (ED)

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

	
<p>SPADA for E-Learning (Universitas Sultan Ageng Tirtayasa) https://spada.untirta.ac.id/</p>	<p>Vaccine Program in Two Stages</p>
	
<p>International Seminar: Broad Exposure to Science and Technology 2021 (BEST-2021) hosted by Universitas Sultan Ageng Tirtayasa, Banten, Indonesia https://best.untirta.ac.id/</p>	

	
<p>Untirta facilitates Vaccine Booth organized by Bank of Indonesia Representative of Banten Province and Financial Services Authority (OJK)</p>	<p>To prevent Covid-19 spread, Untirta distributed freely hand sanitizer to all university members and public.</p>
<div>  </div> <div>  </div> <div>  </div>	
<p>Some activities organized by university members to stay in a good shape and prevent Covid-19.</p>	

Description:

SPADA Untirta, an online learning system Universitas Sultan Ageng Tirtayasa, develops to answer several challenges in higher education particularly conventional learning that is replaced by cross-boundaries learning. This life-long learning concept is very useful during this pandemic situation.

BEST-2021 will provide a wonderful forum for you to refresh your knowledge base and explore the innovations in Material science, Metallurgy and Material, Chemical, Mechanical, Electrical, Industrial, and Civil Engineering.



It will give you the opportunity to meet and interact with the leading scientists, engineers, and researchers, friends and colleagues as well as sponsors and exhibitors.

To respond the status of pandemic Covid-19 particularly in Banten Province, which was categorized into extraordinary situation, Untirta through a program named Untirta Peduli, produces and distributes hand sanitizer for free to university members and public.

For a vaccine program, all university members of Untirta have full vaccine Covid-19 shots. The first batch was on March 3rd and the second one was on March 22nd and 23rd. The total vaccinated people were 753. Furthermore, several national vaccination programs was conducted in Untirta. In collaboration with Bank of Indonesia Representative of Banten Province and Financial Services Authority (OJK), with Banten Police Department and Military Based in Banten, Government of Banten Province and Serang City, vaccination program for the first and second shot was held in Auditorium Campus E Sindang Sari. Not only in Campus E Sindang Sari, but also in Campus B Faculty of Engineering vaccination booth was also built, as the result of collaboration between Student Executive Board and District Military Command of SILIWANGI 0623.

For a preventive action, faculty of medicine Untirta organized a regular Friday aerobics program by virtual. In addition, medical check-up was initiated by Untirta clinic to check health condition for lecturers and university members in Untirta.

Additional evidence link:

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[6] Education & Research

[6.15] Number of sustainability community services project organized and/or involving students





Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>



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[6] Education & Research

[6.16] Number of sustainability-related startups

The following table is the list of UNTIRTA's students' Startups which is in food security sector

NO	STUDENT NAMES	BRAND	SECTOR OF BUSINESS	PRODUCT
1	AZMI AULIA RYAN	Cwan Dimsum	Goods	Food
2	M. IHSAN PRATAMA PUTRA	Kini Cheese Tea	Goods	Food
3	FIRDA FEBRYANTI	Efftu Food	Goods	Food
4	TIA FITRIANI UTAMI	alleatdrink.id	Goods	Food
5	AULIA RAHMAN IMAN F	Cetak Prasasti	Service	Publisher
6	RAHMAT AJI MUKTAR	Roti bakar pelanggan	Goods	Food
7	NOVIANA	Nov_shopee /binder	Goods	stationery
8	IKA KURNIA RAHMA	Bidikmisi chicken	Goods	Food
9	GITA TASYA RAHMADANI	Nasi Bakar	Goods	Food
10	RESKA TRI RESMAWATI	Makaroni bentet renyah	Goods	Food
11	AZMI AULIA RYAN	Kokesnack	Service	Food
12	LILI INDRIYANI	Bola Pisang Crispy	Goods	Food
13	PUTRI FEBRI YANDITA	Banoffee by Putdit	Goods	Food
14	IRFANDI RAHMAN	Miracle Of Kedai (MiKedai)	Goods	Beverage
15	NURUNISSA PUTRI SETIAWAN	Corndog bandeng	Goods	Food
16	UMNIYATUL AMIROH	AMICHO	Goods	Cloth
17	SEPTIO IQBAL MAULANA	Nata De Aleovera	Goods	Beverage

The documentation of the some of the products and activities is as the following.





Additional evidence link:

Additional evidence link: <https://green.untirta.ac.id/pendidikan-dan-penelitian/>