

Green Universities Efforts and Ideas

Sustainability and Digitalization in Higher Education

Dr. Dario Liberona



Virtual International Week

15-19 February 2021

Seinajoki University of Applied Sciences
Finland

SeAMK 

We will like a green Campus like this ...





#12. University of Arizona – Campus Recreation, Tucson, AZ



**#9. University of North Florida – Biological Sciences
Jacksonville, FL**



**#7. University of Nottingham – Centre for Sustainable
Energy Technologies, Ningbo, China**



**#1. Ewha Womans University, Seoul, South
Korea**

Or Like These



**#4. La Trobe University – Institute for
Molecular Science, Bundoora, Australia**

Green Universities Efforts and Ideas is much more than a very green Campus

Is more about the difference you can make in communities and the Impact

The Top 5 Most Sustainable Universities in the World

If sustainability is an important part of your college search, you should check out the most sustainable is integral to each campus environment.

UC DAVIS

Quick Links <

ABOUT US ADMISSIONS ACADEMICS RESEARCH CAMPUS LIFE NEWS

Sustainability

QS TOP UNIVERSITIES

Rankings > Discover > Events > Prepare > Apply > Careers >

University search: Study Level Subject of interest Study destination GO

That's according to the Green League compiled by People and Planet (P&P), a coalition of UK students dedicated to holding universities to account on environmental and ethical issues. Green university rankings are growing in prominence, as both students and universities place more importance on environmental responsibility.

What difference can 'green' universities make to the environment?

Nowadays, everyone's pretty clued up on what can be done to help build a more sustainable and environmentally friendly society. On a personal level, we know we should recycle, limit our energy use and do our best to buy products with low 'carbon footprints', from sustainable sources.



THE WORLD UNIVERSITY RANKINGS

PROFESSIONAL JOBS EVENTS RANKINGS STUDENT

The 20 "greenest" universities in the world

UK and US dominate GreenMetric Ranking of World Universities 2014 results

February 10, 2015

The University of Nottingham has topped a list of 360 institutions in the GreenMetric Ranking of World Universities 2014, as revealed in *Times Higher Education* earlier this month.

But which other universities make it into the top 20 of this table of "green" credentials? The University of Indonesia-produced ranking encompasses 62 categories, including transport, energy

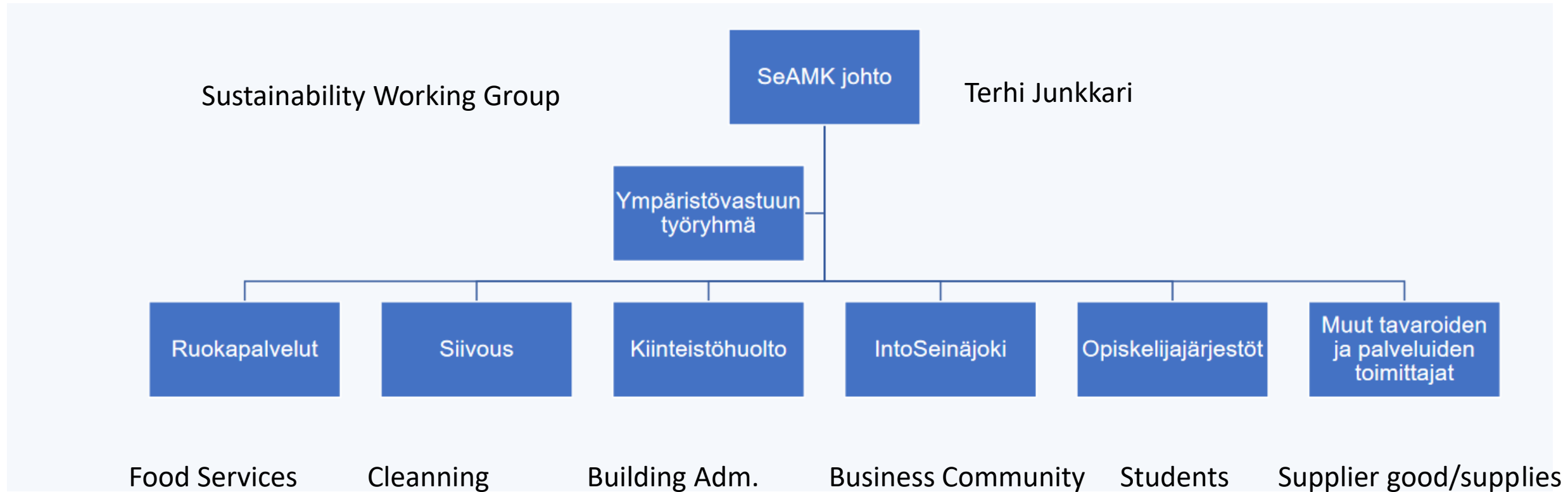


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Need for a basic University Green Sustainable plan

- Have the support of the University Authorities
- Organize a multidisciplinary organization that is empower with a clear director.
- Establish a sustainable strategic plan
- Define year sustainable Budget
- Establish goals an priorities
- Participate in Benchmarking Rankings
- Incorporate Sustainable courses in all University carreers
- Networking and collaboration
- Develop a sustainability related research center

Set a multidisciplinary group that is empowered, motivated and counts with the strong support of Board and Rector



Develop a sustainability working plan

The plan must be challenging and accountable



Seamk Sustainability Strategy
5 years plan

Financial Sustainability
Environmental Sustainability
Social Sustainability
Cultural Sustainability

Circular Economy Approach
Reduce our environmental footprint

Develop a Sustainability Year Report (Accountability)



ANSWERING THE WORLD'S CALL

The University of Auckland SDG Report 2020



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Sustainability Reports

PLANS & REPORTS

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Sustainability Reports

[2018-19 Berkeley Sustainable Practices Report & 2019 UC Annual Report on Sustainability Practices](#)

[2015 & 2019 UC Berkeley Decarbonizing Campus Energy System Studies](#)

[2018 UC Berkeley Full STARS Report & 2018 UCB STARS Findings](#)

[UC Berkeley Sustainable Building Standards Summary \(2020\)](#)

[2018 Berkeley Sustainability Performance by the Numbers](#)

[2015-2016 Sustainability Report](#)

[2014 Sustainability Report](#)

[2013 Sustainability Report \(2013 GRI Content Index\)](#)

[2012 Sustainability Report](#)

[2011 Sustainability Report](#)

[2010 Sustainability Report](#)

Campus Initiatives

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Vice Chancellor Professor Dawn Freshwater explains the University of Auckland's approach to forging a more sustainable planet and humanity.

Forging a more Sustainable Planet and Humanity

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Sustainability

The University of Auckland is committed to pursuing sustainability via research, teaching and learning, operating practices, partnerships and capacity building.

Measure and Communicate good results

Distribution of the University of Eastern Finland's carbon footprint in 2019


OVERALL CARBON
FOOTPRINT AROUND

16,000
(tCO₂eqv)

18,260


DEGREE STUDENTS AND
STAFF MEMBERS

PER PERSON
878
kgCO₂eqv


22%
HEATING


21%
LABORATORIES


16%
FLIGHTS


17%
CAMPUS RESTAURANTS

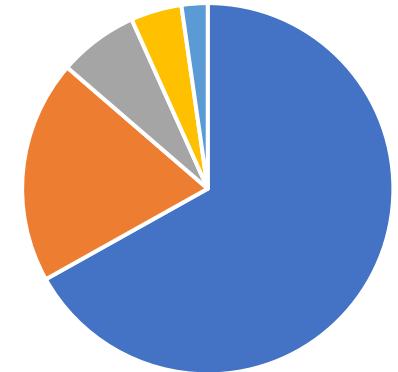

14%
OTHERS


10%
PROCUREMENTS

 **Hiilineutraali**
UEF 2025

Carbon Neutral by 2030

Carbon footprint, SeAMK 2019



■ Heating ■ Flights
■ Other campus loads ■ Other travelling
■ Electricity

Heating	67%
Flights	19%
Other campus loads	7%
Other travelling	4%
Electricity	2%

Develop Sustainability related Courses

coursera

Explorar ▾

circular economy



Para Empresas ▾

Para los estudiantes

Inicia Ses



Corporate Sustainability. Understanding and Seizing the Strategic Opportunity

Università Bocconi

Curso

★★★★☆ 4.6 (440) | 17 MIL estudiantes

Mixed



Sustainable Fashion

Copenhagen Business School

Curso

★★★★☆ 4.8 (446) | 29 MIL estudiantes

Beginner



Beyond the Sustainable Development Goals (SDGs): Addressing Sustainability and Development

University of Michigan

Curso

★★★★☆ 4.7 (346) | 11 MIL estudiantes

Mixed



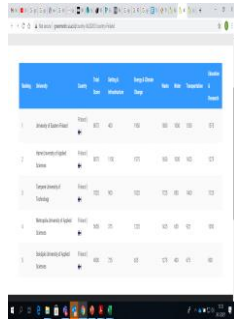
Urban Nature: Connecting Cities, Nature and Innovation

Lund University

Curso

Goal 10% of the Courses
2021 – From 71 to 150 courses

Benchmark the Results



Green Metric World Universities Rankings
Organize by University of Indonesia
More than 780 universities in more than 85 countries
Ranking Started 2010

No	Categories	Percentage of Total Points (%)
1	Setting and Infrastructure	15
2	Energy and Climate Change	21
3	Waste	18
4	Water	10
5	Transportation	18
6	Education And Research	18
	TOTAL	100

N o	Criteria and Indicators		No	Criteria and Indicators	Points
			5	TRANSPORTATION	18%
1	SETTING AND INFRASTRUCTURE	15%	TR 1	The ratio of total vehicles (cars and motorcycles) divided by total campus population	200
SI 1	The ratio of open space area towards total area	300	TR 2	Shuttle services	200
SI 2	Area on campus covered in forest	300	TR 3	Zero Emission Vehicles (ZEV) policy on campus	200
SI 3	Area on campus covered in planted vegetation	300	TR 4	The ratio of Zero Emission Vehicles (ZEV) divided by total campus population	200
SI 4	Area on campus for water absorbance	200	TR 5	Ratio of parking area to total campus area	200
SI 5	The ratio of open space area divided campus population	200	TR 6	Transportation program designed to limit or decrease the parking area on campus for the last 3 years (from 2015 to 2017)	200
SI 6	University budget for sustainability effort	200	TR 7	Number of transportation initiatives to decrease private vehicles on campus	300
			TR 8	Pedestrian policy on campus	300

Having different sources of **Energy**:
 Solar Plants
 Windmills generators
 Hydrogen prototypes

No	Criteria and Indicators	Points
6	EDUCATION AND RESEARCH	18%
ED 1	The ratio of sustainability courses towards total courses/subjects	300
ED 2	The ratio of sustainability research funding towards total research funding	300
ED 3	Sustainability publications	300
ED 4	Sustainability events	300
ED 5	Sustainability student organizations	300
ED 6	Sustainability website	200

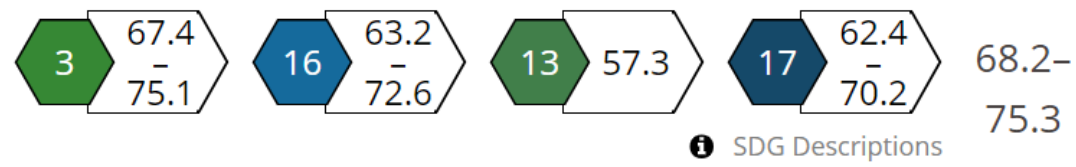
ED 7	Sustainability re	University	2018	2019	2020
		Aalto University	7725	7950	
	Deve	Tampere University Of Technology	7200	7050	7000
	Impr	University Of Eastern Finland	7125	7450	8000
	Writ	Metropolia University of Applied Sciences	5750	5650	5600
	Enga	Hame University of Applied Sciences		7200	8000
	Orga	Seinäjäki University of Applied Sciences			5600

201-300

University of Eastern Finland

Finland

Explore

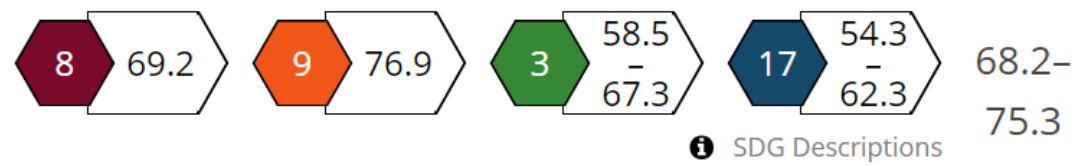


201-300

University of Oulu

Finland

Explore

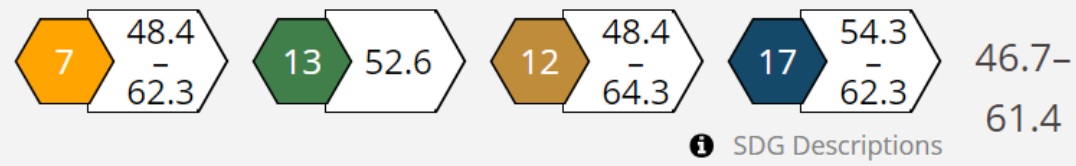


401-600

University of Jyväskylä

Finland

Explore

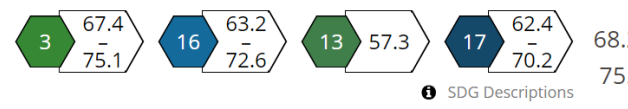


201-300

University of Eastern Finland

Finland

Explore



201-300

University of Oulu

Finland

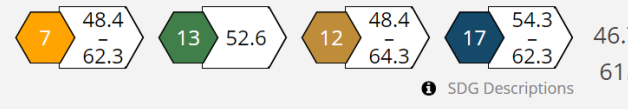
Explore



401-600

University of Jyväskylä

Finland



University	SDG	SDG	SDG	SDG
Aalto University	9	11	12	
University Of Eastern Finland	3	13	16	
University of Helsinki	11	13	16	
University of Turku	3	11	16	
Laapperanta-Lahti University	6	7	12	
University of Oulu	3	8	9	
University of Jyvaskyla	7	12	13	

Develop Networks and Collaboration

Sitra

Group of Universities with the Ministry Group of Sustainability and responsibility lead by the Ministry of Education and Culture

Kaupamäki

Green Metrics

Into Seinäjoki

R and D projects, with other Universities

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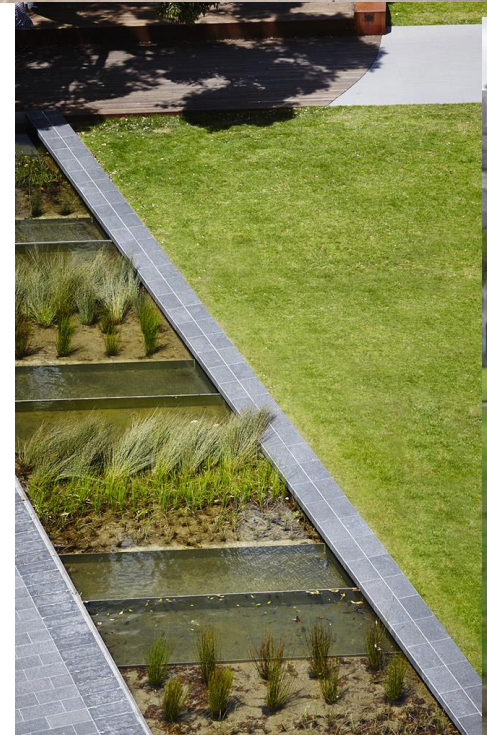
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- Head of Sustainable Group and Dean of Agriculture School

- Sustainability courses coordinator – Business School

- Green Metrics Collaborator – Business School



Good Practices

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Good Practices

1. Take notes electronically –
2. Purchase reusable bags
3. Invest in one good water bottle –
4. Recycle – One of the oldest tricks in the “sustainability book”
5. Compost – See if it is possible for your campus to provide a compost bin for food waste from the cafeteria.
6. Create a campus garden –
7. Be smart about transportation – Promote biking or walking where possible,
8. Check your lighting – CFL or LED bulbs not only provide a better quality of light, but they also use less electricity.
9. Only use what you need – Less Consume
10. Use real dishes and towels – No Plastic or paper cutlery
11. Donate –
12. Buy green.
13. Go digital – Opt out of receiving snail mail, opt in for email alerts instead.
14. Be an environmental bookworm –try not to buy new textbooks. Buy used, online versions
15. Use less paper – If it is required for your classwork to be printed out, reducing margins, spacing, print double-sided.
16. Buy local – See if there are any farmers’ markets or thrift stores in your area
17. Use less water –
18. Get involved – Join an environmental group and Connect with office of sustainability
19. Avoid using straws!
20. Instead of buying paper plates and plastic cups, use compostables instead – Biodegradable eating and party items are much more eco-friendly.

Good Practices

21. Reduce your consumption of meat –
22. Carry a thermos, and skip the daily throw-away coffee routine –
23. Buy new things only when necessary –
24. Use old/unused materials for other purposes –
25. Grow your food –
26. Dispose of waste properly
27. Sort your waste –
28. Switch off all appliances when not in use
29. Support green businesses
30. Keep a garden journal –
31. Always remember the five R's when thinking about what to do (Refuse, reduce, reuse, re-purpose, then recycle)
32. Throw cigarette waste into containers –
33. Carpool to work,
34. Buy the “ugly” fruit and vegetables at the market, because most of the time they go unsold and are thrown away.
35. Unplug chargers and other cables that aren't being used,
36. Monitor your energy and water bills
50. Put rainwater to use –
37. Train custodians on green cleaning – Green cleaning products
38. Communicate your school's sustainability values –
39. Learn more about your local watershed –
40. Apply for a Green Schools Fellowship
45. Study for a LEED Professional Credential – The LEED-AP or LEED Green Associate credential signifies that you're a leader in the field and an active participant in the green building movement.

Sustainable Education for a Sustainable World



Seamk Sustainability 2021



Kiitos / Thank you
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