



LAND OF THE CURIOUS



 CARBON NEGATIVE LUT 2024

LUT UNIVERSITY – CLIMATE ACTION PLAN

2021–2024

Approved by the LUT management committee
on 11 May 2021



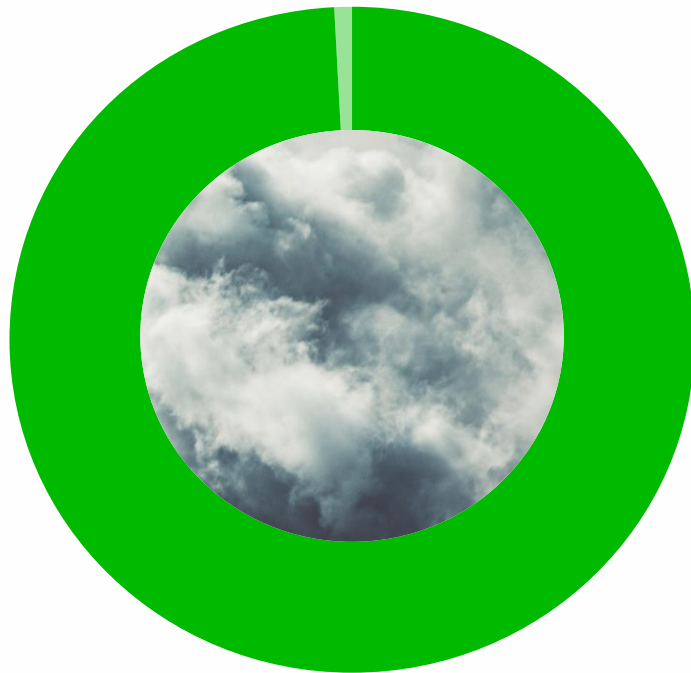
 CARBON NEGATIVE LUT 2024

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- » Clean energy, water and air are life-giving resources for which we at LUT University seek solutions with our expertise in technology and business by means of education and science.
- » We help society and businesses in their sustainable renewal.
- » We aim first to reduce our carbon footprint to zero and then become carbon negative in 2024. We are tackling our carbon dioxide emissions with a Climate Action Plan.
- » Our international community consists of 6 500 members. Our campuses are in Lappeenranta and Lahti, Finland.

LUT'S CARBON FOOTPRINT

LUT's total carbon footprint 1593 t CO₂eq



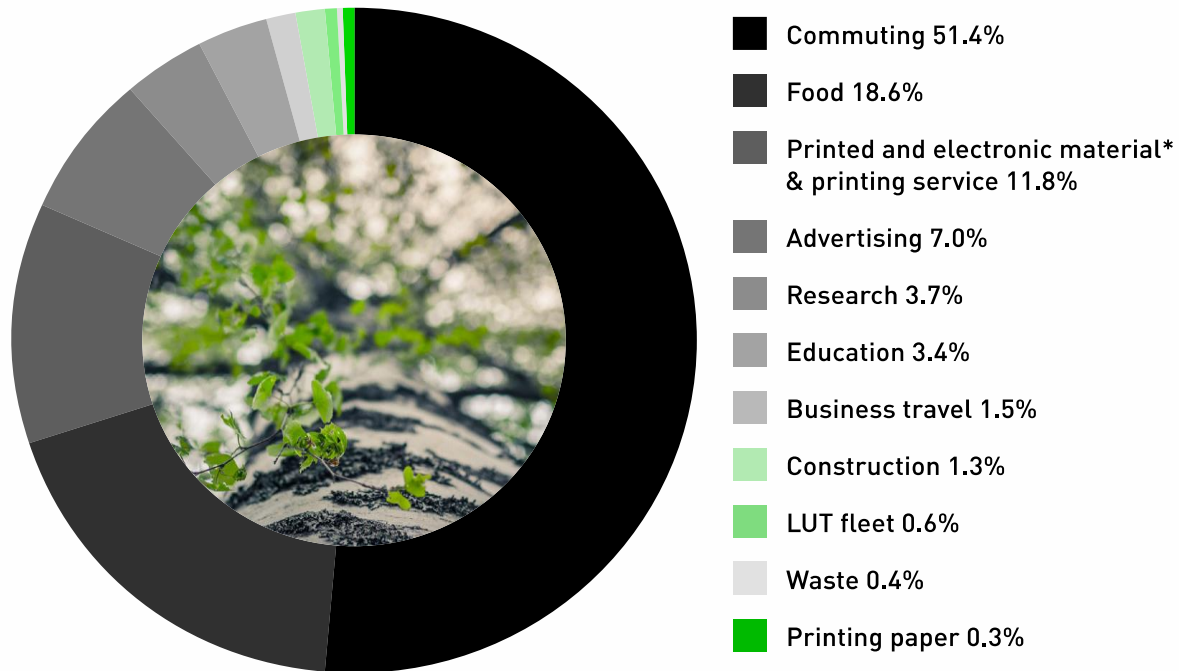
SCOPE 1: 9.7 t CO₂ekv
Direct emissions from resources owned and controlled by LUT, including emissions from four owned cars.

SCOPE 2: 0 t CO₂eq
Indirect emissions from the generation of purchased energy. LUT's electricity comes 100% from renewables, and therefore, it is considered that emissions from generation are zero. The GHG Protocol says that a company does not account for GHG emissions from operations in which it owns an interest but has no control. The owner of LUT's buildings and the buyer of their district heating, the University Properties of Finland, has included district heating in its own calculations and already compensated for all the emissions. That is why district heating is excluded from the calculations.

SCOPE 3: 1583.7 t CO₂eq
Emissions are all indirect – not included in scope 2 – and emissions that are linked to the value chain and operations of LUT, e.g. business travel via CWT, food at LUT Buffet, construction, maintenance.

LUT'S CARBON FOOTPRINT

LUT University's carbon footprint in 2020



**Printed and electronic periodicals and books, FinELib material, electronic course material, other electronic and printed material*

LUT'S CARBON FOOTPRINT



SCOPE 1: 9.7 t CO₂ ekv

SCOPE 2: 0 t CO₂eq

SCOPE 3: 1583.7 t CO₂eq

SCOPE 1 = cars owned by LUT

Carbon footprint is small.

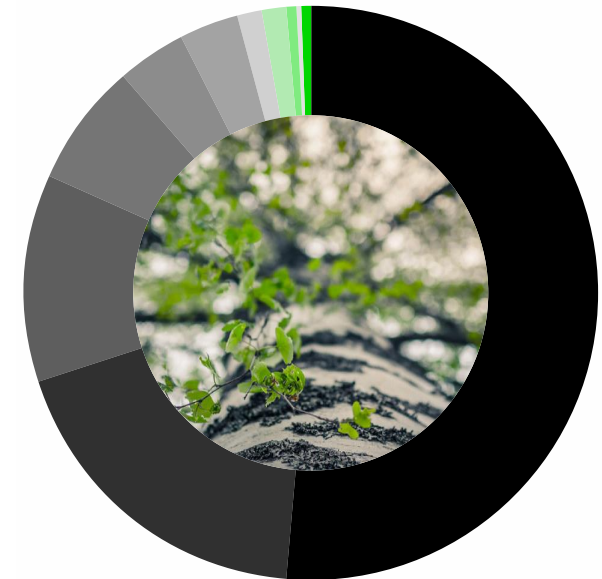
SCOPE 2 = ELECTRICITY + HEAT

Carbon neutral electricity, CF=0
Heat compensated,
not included in calculation

SCOPE 3 =

Important to reduce:

- Actions that LUT has control over, e.g. business travel and related emissions
- Emissions from meals and mobility



Commuting 51.4%

Food 18.6%

Printed and electronic material*
& printing service 11.8%

Advertising 7.0%

Research 3.7%

Education 3.4%

Business travel 1.5%

Construction 1.3%



LUT fleet 0.6%

Waste 0.4%

Printing paper 0.3%

BUSINESS TRAVEL

Target: Reduction of business travel emissions

ACTIONS:	SDG 13 +
1. Updating the travel guidelines of LUT Universities and adding information to the intranet to increase awareness.	12 RESPONSIBLE CONSUMPTION AND PRODUCTION 
2. Ensuring that the staff of LUT Universities uses the contract travel agency and chooses environmentally friendly modes of transportation.	
3. Finding ways together with the travel agency to promote climate-friendly travel choices.	17 PARTNERSHIPS FOR THE GOALS 
4. Promoting dialogue with Finnish universities to find ways to harness the travel expense claim system for carbon footprint calculations.	

CARS OWNED BY LUT

Target: Minimisation of emissions of vehicles owned by LUT

ACTIONS:

1. Assessing the need to use university-owned cars.
2. Reducing the number of cars owned by LUT Universities and/or trading them in for lower-emission vehicles.

SDG 13 +

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



DISTRICT HEATING

District heating emissions included in rent. The district heating contract is in the property owner's name (University Properties of Finland), and the district heating emissions are included in the owner's carbon footprint calculation. University Properties of Finland compensates for the district heating emissions.

Target: Optimisation of heating consumption based on occupancy

ACTIONS:

1. Assessing the need for space in an organisation that enables remote and office work.
2. Dropping the room temperature when a space is not in use.

SDG 13 +







WASTE

Basic waste emissions are included in the property owner's (University Properties of Finland) carbon footprint. University Properties of Finland compensates for the emissions.

Target: Reduction of business travel emissions		
ACTIONS:	SDG 13 +	
1. Negotiations with the property owner on switching to carbon neutral waste management/compensation if the property owner does not yet compensate for emissions from basic waste.	17 PARTNERSHIPS FOR THE GOALS	
2. Lappeenranta campus: Finding out how waste management needs to be improved; ensuring sorting possibilities indoors.	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	
3. Increasing awareness of waste sorting on campus with different campaigns and events with students and stakeholders.	17 PARTNERSHIPS FOR THE GOALS	12 RESPONSIBLE CONSUMPTION AND PRODUCTION

ELECTRICITY

Target: Increasing self-sufficiency in electricity production and reducing electricity consumption

ACTIONS:	SDG 13 +		
1. Continuing the purchase of carbon neutral electricity on the Lappeenranta campus and encouraging the property owner to commit to purchasing carbon neutral electricity on the Lahti campus.		<div>7 AFFORDABLE AND CLEAN ENERGY</div> 	
2. Campaigning for electricity conservation with students and stakeholders.	<div>7 AFFORDABLE AND CLEAN ENERGY</div> 	<div>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</div> 	<div>17 PARTNERSHIPS FOR THE GOALS</div> 








ELECTRICITY – LAPPEENRANTA CAMPUS

Target: Reduction of business travel emissions

ACTIONS:	SDG 13 +
1. Increasing self-sufficiency in electricity production by increasing solar power production annually.	<div>7 AFFORDABLE AND CLEAN ENERGY</div> <div>11 SUSTAINABLE CITIES AND COMMUNITIES</div>
2. Reducing ventilation rates when facilities are not in use.	<div>7 AFFORDABLE AND CLEAN ENERGY</div> <div>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</div>
3. Changing cooling systems into free cooling systems in collaboration with University Properties of Finland.	<div>7 AFFORDABLE AND CLEAN ENERGY</div> <div>17 PARTNERSHIPS FOR THE GOALS</div>
4. Reducing electricity consumption by installing more energy efficient lighting in collaboration with the property owners.	<div>7 AFFORDABLE AND CLEAN ENERGY</div> <div>17 PARTNERSHIPS FOR THE GOALS</div>
5. Exploring possibilities to save electricity in laboratories	<div>7 AFFORDABLE AND CLEAN ENERGY</div> <div>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</div>
6. Turning off screens that do not need to be on during the night and lights in common areas on campus.	<div>7 AFFORDABLE AND CLEAN ENERGY</div> <div>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</div>










MEALS ON CAMPUS

Target: Systematic solutions to reduce the carbon footprint of customers in campus restaurants.

ACTIONS:	SDG 13 +	
1. Increasing collaboration with campus restaurants to reduce negative climate impacts of meals.	<div>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</div> 	<div>17 PARTNERSHIPS FOR THE GOALS</div> 
2. Requesting tenders for climate friendly event catering from campus restaurants.	<div>2 ZERO HUNGER</div> 	<div>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</div>  <div>17 PARTNERSHIPS FOR THE GOALS</div> 
3. Arranging campaigns with restaurants, students and other stakeholders.	<div>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</div> 	<div>17 PARTNERSHIPS FOR THE GOALS</div> 

COMMUTING – STAFF AND STUDENTS

Target: Systematic solutions to reduce the carbon footprint of commuting between home and campus

ACTIONS:	SDG 13 +
1. Exploring possibilities to increase remote workdays for staff.	
2. Increasing cooperation with the campus cities. Making mobility to the campuses more sustainable.	 
3. Continuing the availability of rental bikes on the Lappeenranta campus.	  
4. Exploring the possibilities for a rental bike pick-up site on the Lahti campus.	  

COMMUTING – STAFF AND STUDENTS

Target: Systematic solutions to reduce the carbon footprint of commuting between home and campus

ACTIONS:	SDG 13 +
5. Increasing student and staff awareness of changing rooms and showers on campus and of safe bicycle parking and charging areas on both campuses.	<div>3 GOOD HEALTH AND WELL-BEING</div> <div>11 SUSTAINABLE CITIES AND COMMUNITIES</div>
6. Campaigning for sustainable mobility with students and stakeholders.	<div>3 GOOD HEALTH AND WELL-BEING</div> <div>11 SUSTAINABLE CITIES AND COMMUNITIES</div> <div>17 PARTNERSHIPS FOR THE GOALS</div>
7. Exploring possibilities to introduce university-owned bicycles and public transportation tickets paid by the employer.	<div>3 GOOD HEALTH AND WELL-BEING</div> <div>11 SUSTAINABLE CITIES AND COMMUNITIES</div>

