

LUT AND SUSTAINABLE DEVELOPMENT GOALS

SDG 1 | NO POVERTY

- » The employment rate of our graduates is 97%
- » Scholarships have been awarded to 84% of enrolled students who were required to pay a tuition fee.
- » As a part of the [Finnish Institute of Technology](#), LUT offers courses free of charge to degree students and adult learners.



SDG 4 | QUALITY EDUCATION

- » [LUT offers rolling admission](#) to Master's programmes in English for those who have completed or are close to completing their degree outside of Finland.
- » LUT will start a [Bachelor's programme in technology also on its Lahti campus](#).
- » The LUT Junior University concept was awarded by [ISCN](#) as an outstanding example of [Partnerships for Progress](#).



SDG 2 | ZERO HUNGER

- » During the COVID-19 pandemic, LUT has allowed students to have meals on campus at a student discount.
- » The campus restaurant constantly monitors the amount of biowaste produced by customers and buffet lines. [Research](#) carried out by the restaurant has shown that measuring and communicating the results decreases biowaste by 25% per customer.
- » [Food from air with a new process: LUT has piloted power-to-x solutions with VTT.](#)



SDG 5 | GENDER EQUALITY

- » At the end of 2020, the share of female employees was 45%.
- » A total of 31% of undergraduate students and 37% of postgraduate students were women.
- » [The student union LTKY](#) eradicates educational inequalities and ensures that studies are accessible, equal and safe for everyone.



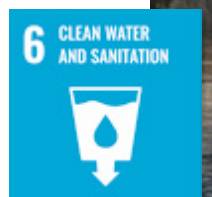
SDG 3 | GOOD HEALTH AND WELL-BEING

- » Employees receive occupational health care services. LUT monitors and develops the health of its employees.
- » The mental well-being of the staff is monitored with a monthly mood tracker survey where employees can also give open feedback.
- » [LUT has created a guide to care robotics and welfare technology in collaboration with German and Swedish universities.](#)



SDG 6 | CLEAN WATER AND SANITATION

- » In 2020, LUT's water consumption was 1.84 m³/person.
- » Amit Bhatnagar, Professor of Water Treatment, [has been recognised on the Highly Cited Researchers 2020 list](#).
- » A [large research project](#) produced new information about reducing pharmaceutical emissions at the primary source and municipal wastewater treatment plants.



SDG 7 | AFFORDABLE AND CLEAN ENERGY

- » 100% of the electricity LUT purchases is renewable. Solar panels on campus produce 5% of the electricity LUT consumes.
- » The "Clean Energy for all Europeans" [policy package](#) sets the tone for a more sustainable and customer-centric EU energy transition.
- » [LUT's Nuclear Engineering Laboratory is developing a small modular reactor \(SMR\) for district heating](#) to cut heating-related carbon dioxide emissions.



SDG 10 | REDUCED INEQUALITIES

- » LUT welcomes international students from beyond the EU [to international Bachelor's studies in technology](#) in education collaboration with HEBUT University, China.
- » In 2020, applications to [international programmes increased by 55.2%](#). A total of 82 nationalities were represented among the applicants.
- » 104 outgoing and 199 incoming exchange students.



SDG 8 | DECENT WORK AND ECONOMIC GROWTH

- » [LUT Universities updated its Equality and non-discrimination plan in 2020](#).
- » The number of full-time equivalent employees in 2020 was 1028.
- » Black Lives Matter movement shows: corporate activism becoming mainstream. Researcher Laura Olkkonen studied the [role businesses play in our society](#).



SDG 11 | SUSTAINABLE CITIES AND COMMUNITIES

- » In 2020, the Sustainability Science Carbon Negativity Team carried out a survey on commuting habits of students and employees at LUT. The results aided LUT's [greenhouse gas emissions inventory](#).
- » JHC Ukkonen is an [electric superbike and an LUT student project](#). Its goal is to achieve the best possible performance in the lightest possible package.
- » The mobile application [CitiCAP](#) for personal carbon trading encouraged Lahti residents towards more ecological mobility.



SDG 9 | INDUSTRY, INNOVATION AND INFRASTRUCTURE

- » 52 active spin-offs have been established at least three years ago.
- » An [LUT-based new start-up](#) supplies new functionalities for water electrolysis applications that make green hydrogen as profitable as possible.
- » The multidisciplinary [Digibuzz project](#) aims to determine the best digital twin and modelling solutions for industry.



SDG 12 | RESPONSIBLE CONSUMPTION AND PRODUCTION

- » In 2020, 0% of LUT's 105 tons of waste was landfilled.
- » A multi-epistemological [inquiry into culture and institutions](#) tells what constrains the sustainability of our day-to-day consumption
- » [The Package Heroes consortium](#) explores food packaging solutions that are environmentally friendly.



SDG 13 | CLIMATE ACTION

- » LUT is committed to [carbon negativity by 2024](#). Our carbon footprint is calculated in accordance with the Greenhouse Gas Protocol.
- » [Energy citizenship researchers](#) aim to understand the conditions that best support people in working both individually and collaboratively towards a more sustainable future.
- » [LUT explores how the valuable carbon dioxide in atmospheric circulation can, with emission-free electricity and new technologies, be transformed into a number of products to replace fossil raw materials.](#)



SDG 16 | PEACE, JUSTICE AND STRONG INSTITUTIONS

- » [Finnish universities have published 12 theses](#) and intend to become leaders in sustainable development.
- » [LUT's organisational structure](#), board of directors, advisory board and university collegium are transparent. LUT consults its student union in decision-making.
- » [Anne Quarshie's research resulted in five global ideas for disaster preparedness](#) of authorities in cases such as the COVID-19 pandemic or extreme weather caused by climate change.



SDG 14 | LIFE BELOW WATER

- » Clean water, energy and air are life-giving resources for which we seek [new solutions](#) with our degree programmes in technology and business.
- » [A research project has identified the pharmaceutical residues](#) that are the most harmful to the environment and the most efficient technological solutions for their treatment.
- » The [Department of Separation Science](#) specialises in water analysis and water, wastewater and soil purification techniques.



SDG 17 | PARTNERSHIPS FOR THE GOALS

Local level:

- » LUT played a significant role in the Green Leaf application process of the City of Lappeenranta; as a result, the city won the [European Green Leaf Award](#) for the year 2021.
- » LUT campuses are located in [Lappeenranta](#) (European Green Leaf city 2021) and [Lahti](#) (European Green Capital 2021) – both forerunners in environmentally friendly activities. In co-operation with the university and a large range of enterprises and other organisations, the cities create a platform for sustainable innovations.
- » LUT is a part of the [Smart Campus National RDI Network](#). It aims to improve the competitiveness, specialisation profiles and digitalisation of higher education (HE) and municipalities.



National level:

- » LUT was actively involved in collaborative theses on the [sustainable development and responsibility of Finnish universities](#).
- » LUT, Wärtsilä and St1: [Power-to-X solutions](#) should be brought to the core of Finland's energy and climate solutions.
- » LUT's research aims to change [public procurement](#) from price-centric to value creation for the society.

International level:

- » LUT's database is used for Wärtsilä's interactive map on [100% renewable electricity systems](#).
- » LUT is a member of many [international networks](#) promoting sustainable development, such as the [ISCN](#) and the [NSCN](#)
- » The [Participatory Communication of Science](#) project explores ways to ensure diversity and inclusion in science participation and communication.

SDG 15 | LIFE ON LAND

- » The [Metsä360 award granted by LUT](#) accelerates forest processing and supports the growth of a responsible bioeconomy.
- » [Satellite images and computational models](#) combat invasive species that threaten biodiversity.
- » In 2020, the University Properties of Finland, the owner of our campus buildings, [commissioned nature assessments](#) for about twenty of its campuses, including LUT's Skinnarila campus.

