

Towards resource efficient city

2050 targets



Energy production and consumption

- The city of Lappeenranta has carbon neutral district heating and electricity production.
- Residents and companies are the resource for energy system transition.
- Energy networks provide energy storage and stabilize consumption and demand.
- Energy efficiency enables the well-being of future generations.
- Energy expertise has created new prominent businesses.



Transportation and urban structure

- There is CO₂ neutral, sustainable transportation and urban structure which supports well-being.
- Engaging, dense and car-optional city centre in Lappeenranta is well connected to diverse suburbs by various modes of transportation.
- The city of Lappeenranta is an international logistics hub for CO₂ neutral transportation.
- The urban structure in Lappeenranta is compact and comfortable and it supports energy efficiency.



Consumption and material cycling

- All waste is treated as a recycled resource.
- The transition towards a circular economy has created new business models and opportunities.
- Life cycle approach is included in all purchases, product design and decision making.
- Consumers, companies, industry and the city of Lappeenranta are committed to resource efficiency



Food production and consumption

- The food consumed in Lappeenranta is healthy and sustainable.
- The use of local food in the public food services is well-established.
- Waste from the food production and consumption is fully utilized.



Water usage, lakes and rivers

- The quality of surface and underground water is equal to the natural state.
- International water treatment technology and business is concentrated into Lappeenranta.
- Water consumption and energy used for water treatment have been reduced by 50 %.
- All nutrients from community and industrial wastewater are extracted and recycled.

LAPPEENRANTA IN THE YEAR 2050

SUSTAINABLE WELL-BEING

NO OVERCONSUMPTION

NO EMISSIONS

NO WASTE