



Summary:  
Lahti's 2030  
Sustainable Energy and  
Climate Action Plan

LAHTI

SECAP 2019-2030

## General

Lahti is involved in the 2030 EU Covenant of Mayors for Climate & Energy. As a new addition to the Covenant, the cities carry out a Climate Risks and Vulnerability Assessment and draw up a Baseline Emission Inventory and Sustainable Energy and Climate Action Plan. Lahti's SECAP includes all of these.

In the context of this Action Plan, we propose Lahti's emissions reduction goal to be -80% from the level of 1990 by 2025. This goal corresponds to the level of Lahti's ambition and measures and it enables – along with the compensations – carbon neutrality in 2025. Lahti also joined the previous Action Plan in 2012 and participating in it has supported Lahti's strategic climate and energy goals.

Part of the Plan is monitoring every other year and a new emission calculation every four years. In addition to these, the City implements its own monitoring. The Environmental Developments Unit of the City of Lahti Group Services is responsible for the distribution and monitoring of the Action Plan. The responsible bodies of the measures have been defined separately.

The Climate Risks and Vulnerability Assessment as well as the adaptation measures have been implemented interactively with the citizens and interest groups. The assessment was carried out during 2018 by using the IVAVIA methodology developed in the international RESIN project.

## The climate threats selected for adaptation in Lahti

- 1) Increase in temperature (increase 2.9–8.2 degrees in Lahti, depending on the scenario)
- 2) Increase in precipitation (+5–35%/month, depending on the scenario)
- 3) Windstorms (increase in the wind velocity of major storms already evident)
- 4) Record heat waves
- 5) Heavy rainfall

The phenomena and threats were selected in a working group based on the information provided by the Finnish Meteorological Institute.

## Climate impacts that require adaptation

In Lahti, the impacts of climate change have been broadly recognised in various sectors. The sectors include infrastructure and land use, health and well-being of people, living environments, parks and green areas, the economy and inter-sector impacts. We have also considered the indirect impacts and the impacts of changes happening elsewhere. Identifying risks and impacts creates a strong foundation for measures to decrease vulnerability.

The City of Lahti has prepared for serious disruptions, and the key tasks have been determined. City Organisation employees essential for the City's preparation are annually trained. For other city employees and residents, there is still room for improvement in regard to independent preparation.

## Examples of the measures

To this Plan, we have compiled over 90 measures related to climate change mitigation and adaptation and their responsible bodies from the existing plans of the City of Lahti, such as the previous Sustainable Energy Action Plan (SEAP). A few examples of the measures below.

Measure	Responsible bodies	Progress	Adaptation/ mitigation measure	Estimate of the emissions reduc- tion efficiency.  Is the adaptation measure priori- tised?
Energy efficiency actions in the rental housing stock: repairing old building stock.	Lahden Talot; Canemure project; SMARTTEES project	Active	Adaptation & Mitigation	High
Local transport runs by electricity and biogas by 2030.	Traffic planning; LSL	New	Mitigation	Relatively high
Replacing the old district heat boiler with a new bio energy boiler: Kymijärvi 3 bioenergy heating plant	Lahti Energia	Active	Mitigation	Very high
Local management of stormwater is increased in both existing and new urban areas.	Lahti Environmental Services; urban planning; build- ing inspection	Active	Adaptation	Prioritised
Securing ecosystem services in forests, open areas and built green areas owned by the City of Lahti.	Forestry services; park services; urban planning	Active	Adaptation	Prioritised
Drawing up the road map for Lahti's circular economy. Developing new sharing services and working as a platform to them.	Environmental Devel- opments Unit	Under prepara- tion	Mitigation	Difficult to assess
Climate and environmental counselling for the citizens and housing associations.	Environmental Devel- opments Unit; Regional Council	Active	Adaptation & Mitigation	Difficult to assess
Climate partnership for businesses: Spreading and developing this form of activity.	Environmental Devel- opments Unit; LAMK; LADEC	Active	Adaptation & Mitigation	Difficult to assess  Prioritised