



Green Electrification of Mobility Cluster

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VEHICLE ID : 29388D

224 KM

CONNECTED (••) 5G

**Carbon
neutral**

city by 2028

99 %

municipal waste
recovery rate

LAHTI

winner 2021



**EUROPEAN
GREEN CAPITAL**

*An initiative of the
European Commission*



0 %

fossil fuels in the city's
energy production

Significant investments
on

**sustainable
mobility**



Committed to succeed

Lahti GEM is the platform for companies, research and education organizations as well as cities.

The platform is built up to generate and maintain network for developing and commercializing technologies and solutions for green electrification of mobility.

Focus themes of the cluster activities



Vehicle technologies

- + Electric heavy-duty vehicles and work machines
- + Automation, digitalization and software



Infrastructure for electrified transport

- + Electric charging infrastructure and distribution network
- + Long-range transport
- + City transport and logistics
- + Industry 4.0. Taking people in account in everything.



Carbon-neutral energy system as a part of mobility transformation

- + Smart grid and energy management
- + Energy storages
- + Green hydrogen

Strategy

Lahti GEM

is a platform for companies, research and education organizations, and cities to develop and commercialize technologies and solutions for green electrification.

Lahti GEM

- + to promote new openings in research, education and RDI infrastructure.
- + supports business growth and internationalisation through the development of projects and pilots;
- + actively seek new investments and partnerships nationally and internationally;
- + develop an electric transport start-up cluster

Research and experts

- + Strengthening research
- + Openings of the training
- + Electric Mobility Research Center



Innovations

- + Testing and piloting
- + Development projects
- + Start Inquiry



Investments

- + New investments to support the green electrification of transport
- + Companies investing in Finland
- + Intangible Invest-In Operations



New markets

- + Active search for market opportunities
- + Joint offering and partnerships



Networks

- + Interaction and exchange of information
- + Visibility
- + international cluster partnerships



Goal 2027

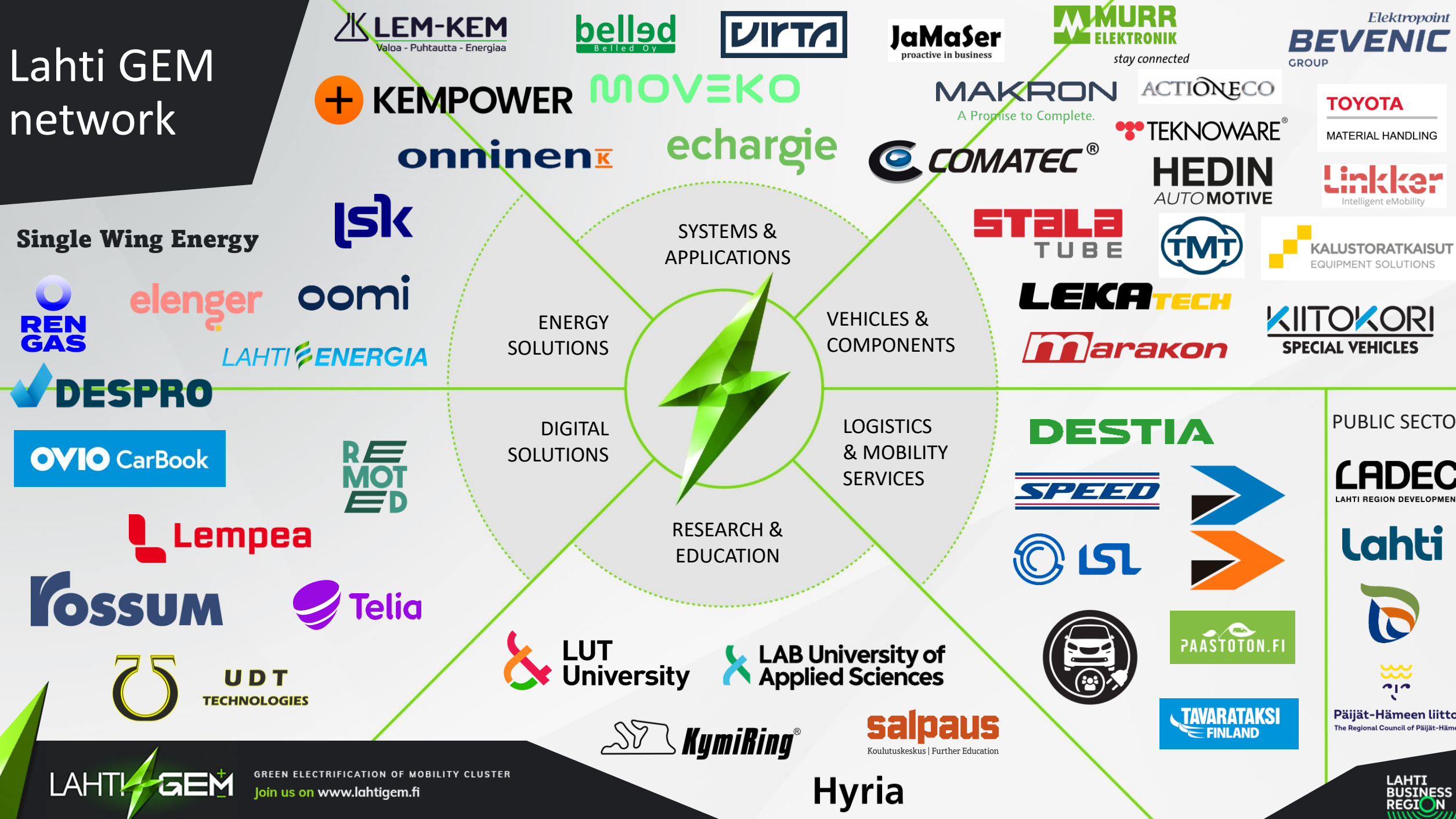
Finland has introduced globally competitive new technologies and system solutions for the green electrification of mobility to the international market.

The Lahti region is internationally known as a centre of excellence and development for green electrification. Lahti is a model city for sustainable electric transport.

Lahti GEM is a platform where technologies and solutions are developed, piloted and commercialised at an exceptionally profitable rate.

The cluster has attracted a significant amount of international-level business and expertise.

Lahti GEM network



- + LUT has established a professorship in electric transportation systems and a related new Master's programme in Lahti
 - The aim is to ensure that Finland will have enough electric mobility expertise based on research and education.
 - The professorship is funded by the City of Lahti and businesses and foundations in the surrounding Päijät-Häme region.
- + Strongly investing in R&D of new energy technologies and electrical engineering
- + Top 300 university in the world (Times Higher Education Ranking 2021)
- + 85 different nationalities
- + 5750 undergraduate and postgraduate students
- + 1028 staff members

<https://www.lut.fi/en>



LAB University of Applied Sciences

- + Education and RDI activities in urban sustainability, mechanical engineering, industrial information technologies and various other fields
 - Special focus in Lahti GEM cooperation in developing education and RDI in the field of electrical engineering and automation
 - Engineer degree programme in electrical engineering and automation started in Lahti in 2023
- + Unique possibilities to combine competences in design and fine arts with engineering
- + Over 8 500 students
- + 523 staff members
- + 6th largest university of applied sciences in Finland

<https://www.lab.fi/en>



Kempower Electric Mobility Research Center - EMRC

- + The Electric Mobility Research Center (EMRC) aims to strengthen cross-disciplinary research on electric transportation and to develop education to meet the needs of future industry.
- + The EMRC offers a research platform that represents a whole new way for LUT to collaborate with companies. This initiative strengthens the role of Finnish science and education in a rapidly growing industry with immense potential.
- + The EMRC's operations also include cooperation with the LAB University of Applied Sciences, further extending the center's capacity and impact.
- + More information: <https://lut.fi/en/emrc>



salpaus

Koulutuskeskus | Further Education

- + One of the biggest vocational education provider in Finland
- + Continuous and up-to-date competence development
- + Education in electrical engineering and automation and logistics
- + Every year about 15,000 students of all ages
- + 630 staff members

<https://en.salpaus.fi/>



Contact us

Our team is here to help you



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For more information go to
www.lahtigem.fi



Päijät-Hämeen liitto

The Regional Council of Päijät-Häme