



MERINOVA

Technology Centre Vaasa

1

ENERGY VAASA

Matina Mitsobonou
EU Affairs Manager - Merinova
matina.mitsobonou@merinova.fi

#EnergyVaasa
#WeAreEnergyVaasa



Merinova is located in Vaasa, Finland.

Was founded in 1989 and is **mainly owned (to 70%) by the energy technology and cleantech companies and public actors (30%) in the Vaasa region.**

Merinova is an important and neutral actor whose **mission is to make the energy cluster in the Vaasa region even more successful.**

Provides growth and success for energy technology companies in the Vaasa region through **Merinova's excellent project expertise and development services.**

Implements development projects, technology projects, studies, and other actions in the field of energy and energy technology.

Manages the EnergyVaasa cluster – the largest energy technology cluster in the Nordic countries.

#EnergyVaasa
#WeAreEnergyVaasa

Cluster Management Excellence

- The **EnergyVaasa energy cluster** has been granted an **ECEI Gold Label certificate** of the highest degree, which demonstrates first-class, sophisticated cluster management.
- The Gold Label certificate of the Vaasa cluster is the **first of its kind in Finland**, and the energy industry's fourth in the Nordic countries and sixth in Europe.
- The ECEI certificates are **granted by The European Secretariat for Cluster Analysis (ESCA)**, which is a neutral council, subject to the EU, with EU-level rights to audit cluster operations.
- **Attaining the gold label clearly demonstrates that a cluster is a pioneer in its industry.** The certificate also gives the cluster other benefits. In Denmark, clusters are required to hold a gold level to obtain international and regional financing. For the EnergyVaasa cluster, this trump card enables new development and collaboration opportunities.



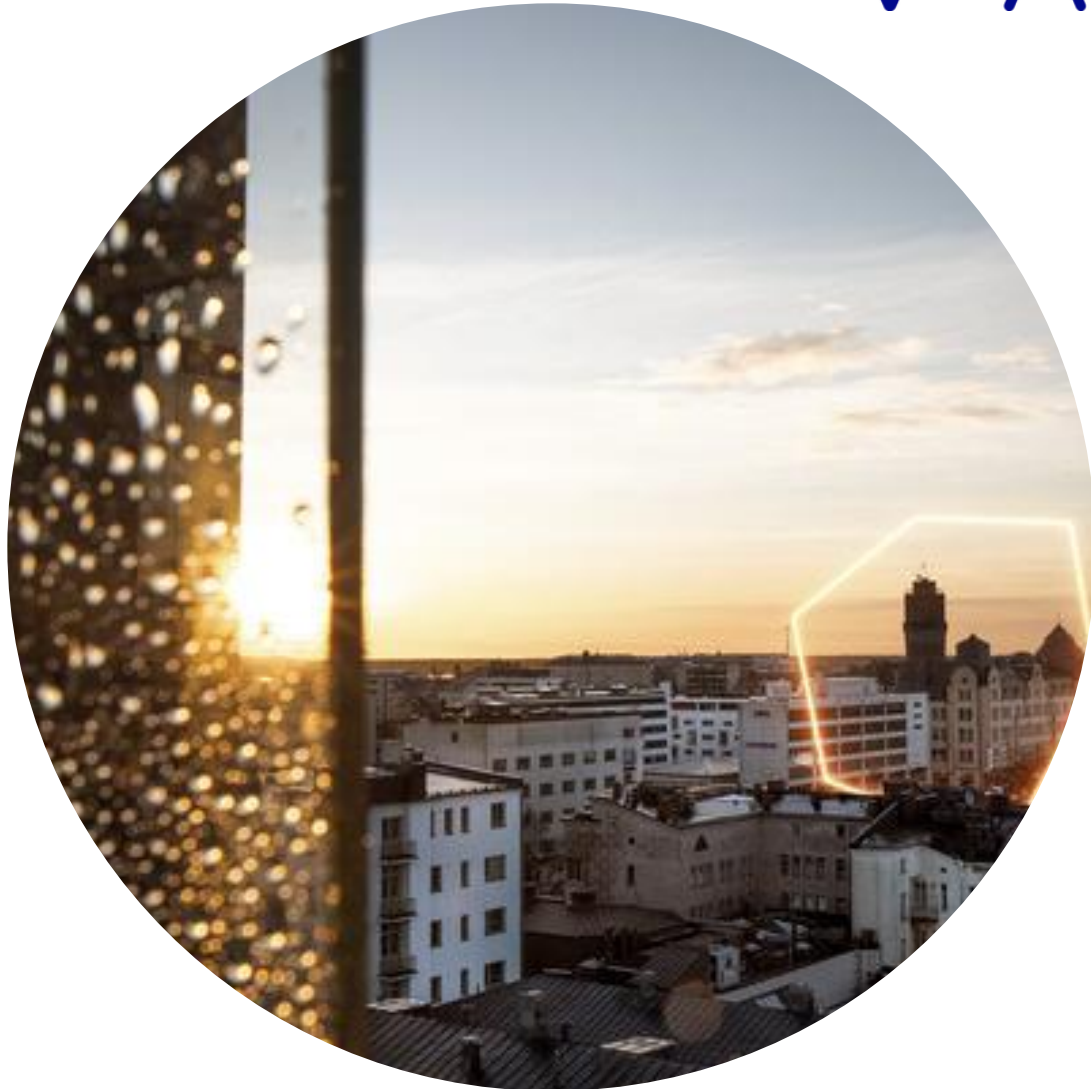
ENERGYVAASA

Internationalization Award by the President of the Republic of Finland granted to Energy Vaasa



ENERGYVAASA

ENERGY VAASA



- Merinova started EnergyVaasa's operations in 2001
- EnergyVaasa is the largest energy technology cluster in the Nordic countries. This has made it a world leader within different technologies, such as smart electrical solutions, sustainable energy, flexible power generation and digitalisation – to mention a few.
- Local universities, energy technology companies and municipalities work intensively together on research, product development, innovation and education.
- EnergyVaasa is the leading energy hub in the Nordic countries. Our mission is clear: to create more sustainable technologies for saving the planet!

Long traditions



The Wickström brothers start their engine factory in Vaasa

1906



War in Finland forced Wärtsilä and Strömberg to move manufacturing to the Western part of Finland. War reparations 1944-1952 increased the efficiency of production

1938-1952

Strömberg generators and transformers to Vaasa

Wärtsilä starts to manufacture diesel engines in Vaasa

1954

Strömberg becomes a part of ABB

oy *Strömberg* Ab

ABB

Vacon starts to manufacture frequency converters

1993



Increased environmental awareness & legislation after 2000 has changed the energy sector

Lot of business for EnergyVaasa companies

2000
5,000 jobs

1988 Spin-offs like VEO, Vacon and VAMP

1940

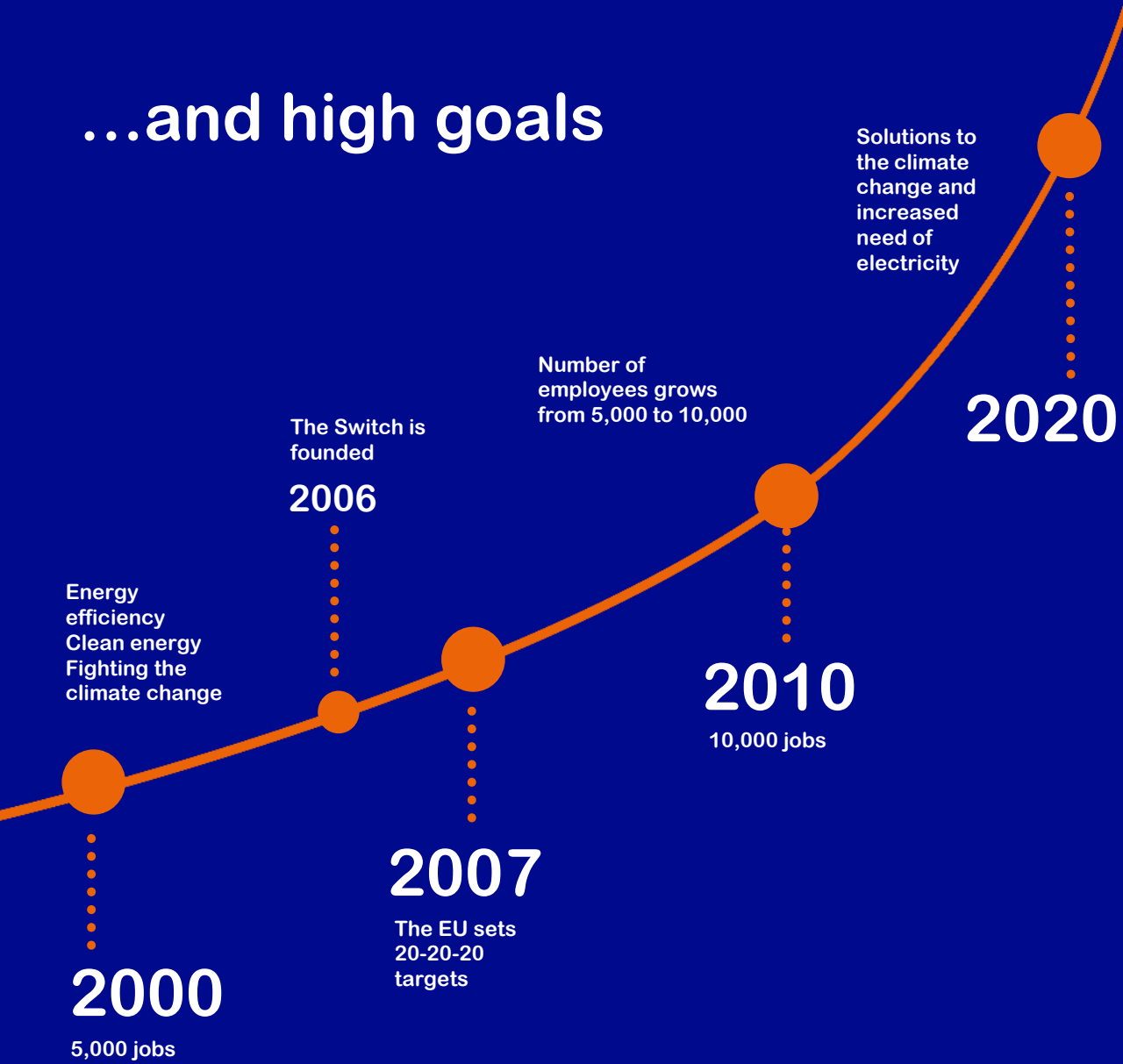
Strengths:
Know-how and
efficient production

ENERGYVAASA

1880

Beginning of energy technology

...and high goals



ENERGYVAASA

MORE
THAN

180



BUSINESSES, SEVERAL
OF WHICH ARE **GLOBAL
MARKET LEADERS** IN
THEIR FIELD

R&D

250

MILLION
ANNUALLY



IN ENERGY TECHNOLOGY
OF WHICH **80% IS
PRIVATELY FUNDED**

TOTAL
BUSINESS
TURNOVER
OVER

6.0

BILLION
EUR
ANNUALLY



**EXPORT
RATE
OVER**

80%

1.9

BILLION
EUR
BY 2030



ENERGY TECHNOLOGY
INFRASTRUCTURE
INVESTMENTS BY LEADING
COMPANIES

A STUNNING

30%



OF FINLAND'S TOTAL
EXPORT IN
ENERGY TECHNOLOGY

CURRENT
NUMBER OF
EMPLOYEES:

13,000



25%

OF TOTAL MANPOWER
IN THE FIELD OF
ENERGY IN FINLAND

Our statements

"We are world leaders in several key areas..."

SMART
GRID

MARINE
SOLUTIONS

SUSTAINABLE
ENERGY
PRODUCTION

ENERGY
EFFICIENCY



← DIGITAL SOLUTIONS →

ENERGYV^ASA

Welcome to

EnergyWeek 2025 March 17th to 20th



Energy & Climate



Wind & Renewable Energy



Energy Storage



Gas Energy

ENERGY WEEK 2024



Energy Technology





>60%

**Most Green
Patents in
the Nordics**

**More than 90% of the Finnish R&D in
electrical and automation solutions**

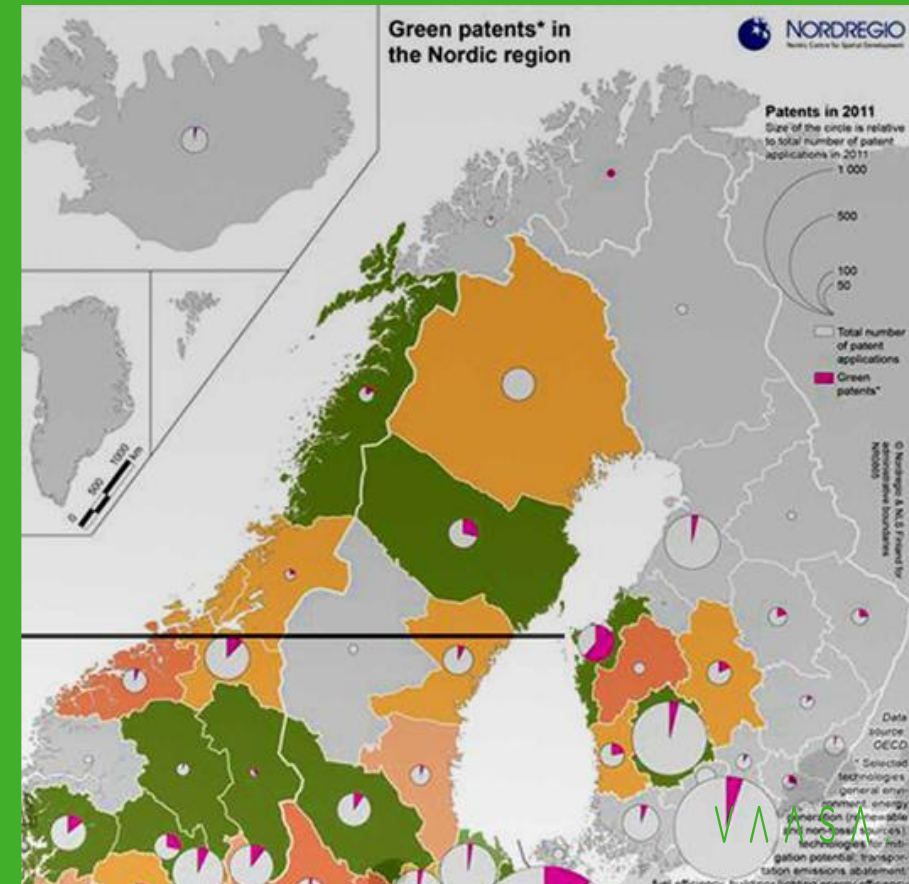


ENERGYVΛΛSΛ



Green Patents

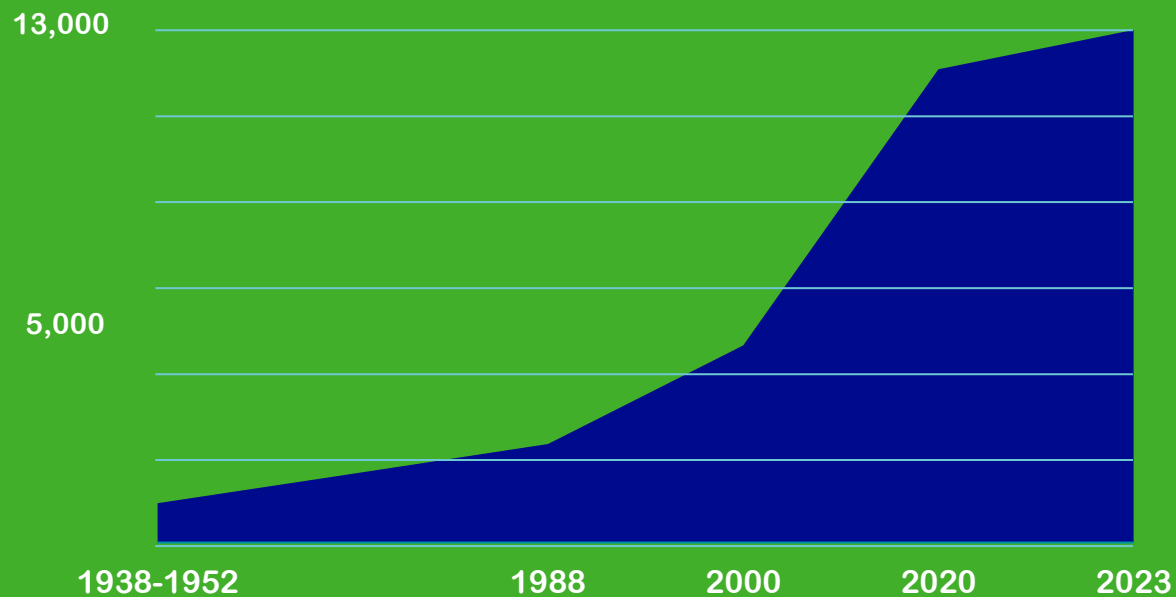
Most green patents in the nordic countries.



ENERGYVΛΛSΛ



Timeline vs. number of jobs



OF THE FINNISH ENERGY
SECTOR WORKFORCE

1/5

EMPLOYS
MORE THAN
FAMILIES

14,000

UNIVERSITY
STUDENTS

45% OF THE PEOPLE IN THE
VAASA REGION HAVE A DEGREE
IN HIGHER EDUCATION

>110

NATIONALITIES

ENERGYVAASA



TOTAL
BUSINESS
TURNOVER OVER **6.0** BILLION
EUR
ANNUALLY



EXPORT
RATE
OVER

80%

1.9 BILLION
EUR
BY 2030



ENERGY TECHNOLOGY
INFRASTRUCTURE
INVESTMENTS BY LEADING
COMPANIES

R&D



250 MILLION
ANNUALLY

IN ENERGY TECHNOLOGY OF
WHICH 80% IS PRIVATELY
FUNDED

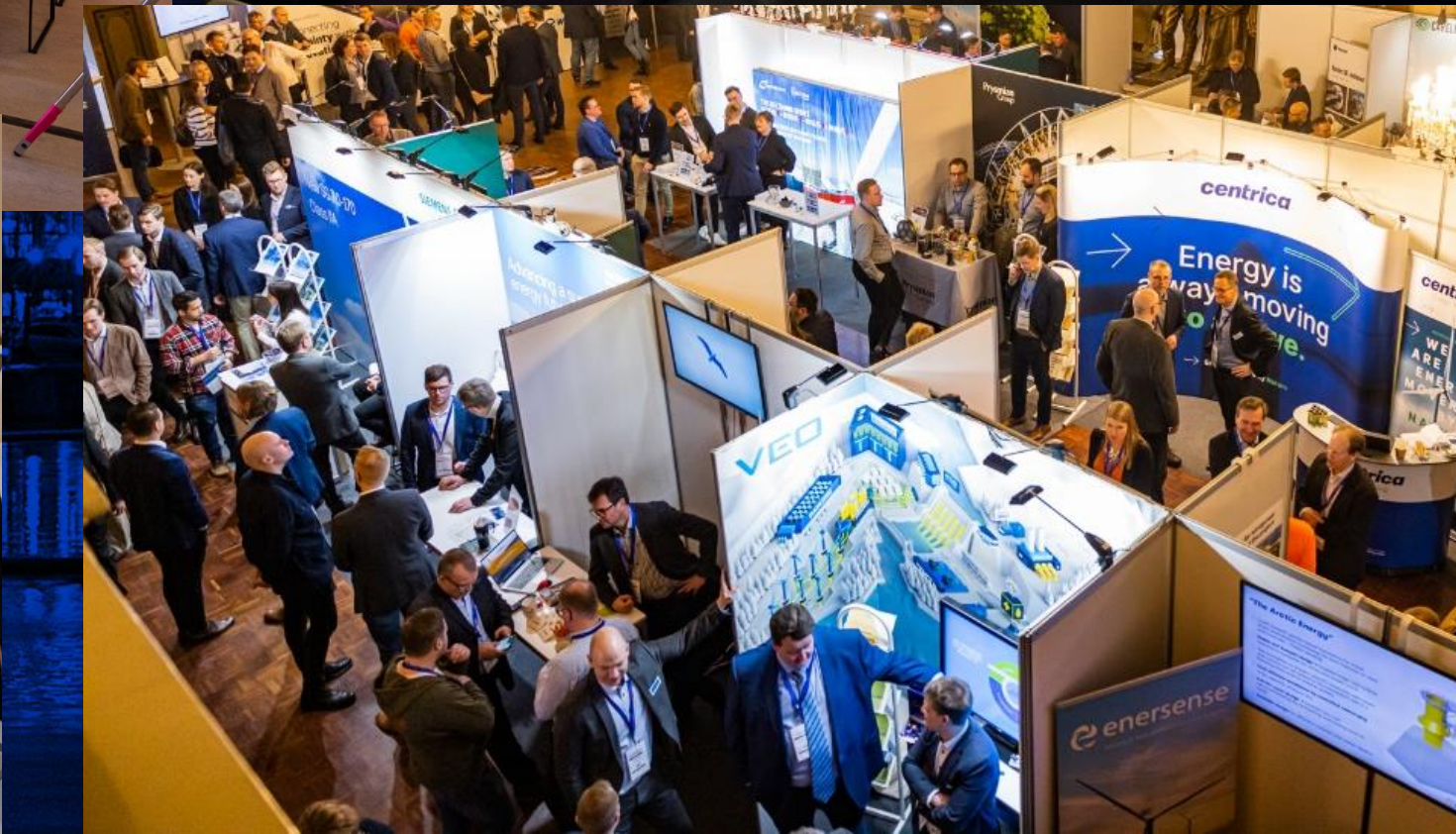
ENERGY V A A S A



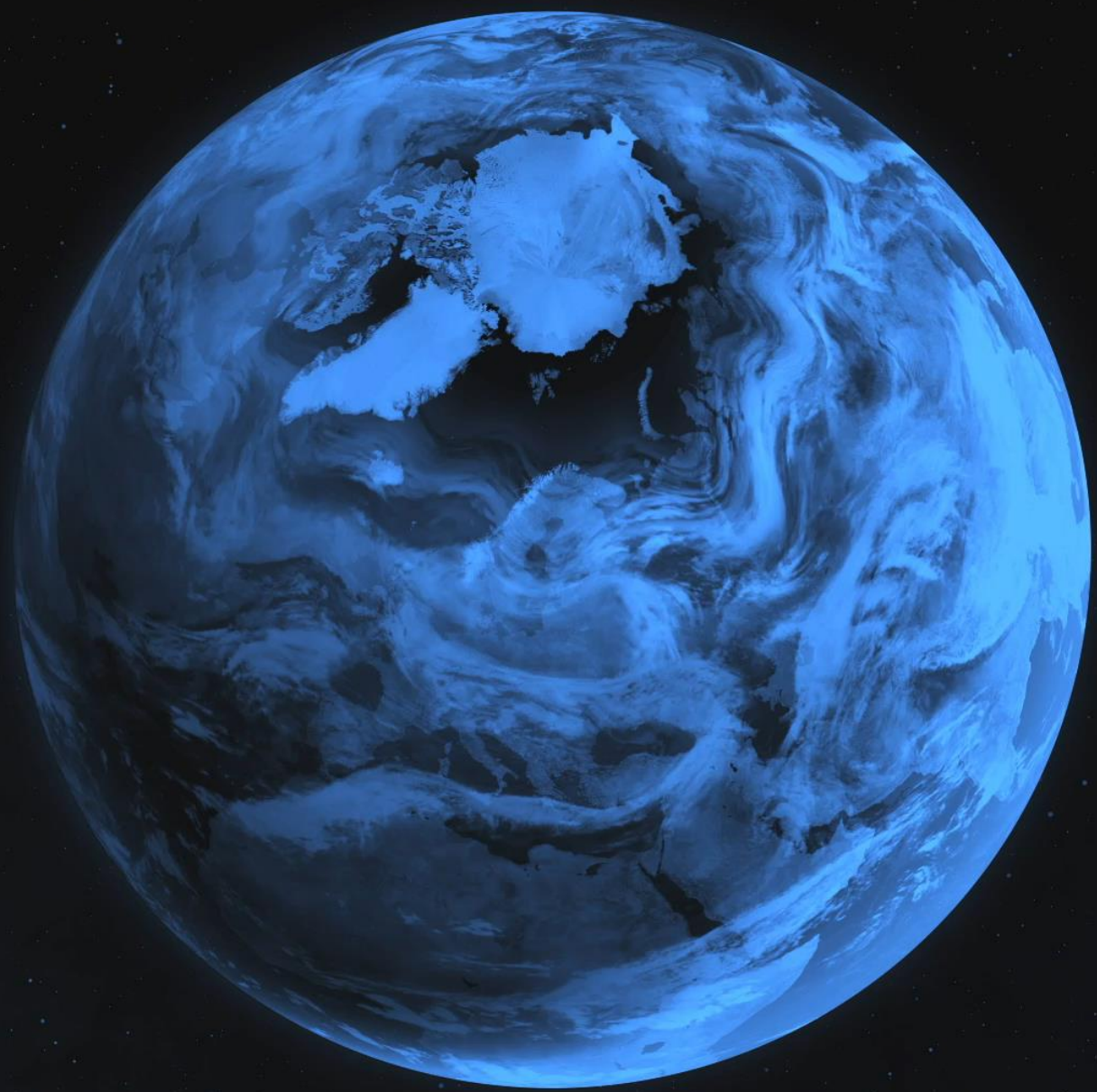
World Leader in Electrical and Automation Technology

- 100% of countries have EnergyVaasa technology in their electrical network systems
- MicroSCADA developed in Vaasa automates, supervises and monitors 10% of the global electricity distribution.
- More than 90% of Finland's electrical and automation development takes place in the Vaasa region
- The region provides the world's finest technology to all corners of the world

ENERGYVAASA







A photograph of the Aurora Borealis (Northern Lights) in shades of green and purple, dancing across a dark night sky. Below the lights, a long bridge with two prominent white pylons spans a body of water. The bridge is illuminated, and its lights reflect on the water's surface. The overall scene is serene and majestic.

Thank You!

ENERGYVΛΛSA