

ENERGY VAASA



#EnergyVaasa
#WeAreEnergyVaasa

GOLD



Cluster Management Excellence

PROVEN FOR CLUSTER EXCELLENCE



#EnergyVaasa
#WeAreEnergyVaasa

ENERGY EDUCATION PATH IN VAASA

In Vaasa, the energy capital of the Nordic countries, students master the skills of working life and energy competence.



STUDENTS GET USEFUL SKILLS AND ABILITIES

We create models which promote learning the working skills of the future

- Identifying dynamic working life skills in the future and integrating these into education
- Education across language, school and educational stage boundaries

COMPETENT TEACHERS

We support and motivate teachers

- Structure
- Network of energy teachers
- Educating teachers
- Learning environments (virtual and physical)



1

EARLY CHILDHOOD EDUCATION

Raising interest and participation

- Energy documentation
- ICT ja basics of technology
- Small group, theme and project work

BASIC EDUCATION

Modern teaching resources
Multiprofessional projects

2

3

VOCATIONAL EDUCATION

Central focus

- Qualifications and further education in the energy branch

Proficient support group - Energy in professions

- Qualifications that support the energy branch
- All qualifications



4

UPPER SECONDARY SCHOOL EDUCATION

Central focus

- Physics, Chemistry, Mathematics

Energy as a phenomenon
• In subjects and school activities

POLYTECHNIC EDUCATION

Central focus

- Intelligent electricity technology, robotics and 3D
- International trade

Proficient support group - Energy in professions

- Education and research that support the energy branch

5



POLYTECHNIC EDUCATION

Central focus

- Intelligent electricity technology, robotics and 3D
- International trade

Proficient support group - Energy in professions

- Education and research that support the energy branch



ENERGY COMPETENCE GROWS IN THE SCHOOLS

Energy is a natural part of the educational content on all educational stages

- Energy is integrated into education
- Visits to energy companies
- Expert visits (virtual and live)
- Energy as a subject in education and degrees

6

UNIVERSITY EDUCATION

Central focus

- Degree programmes in Energy

Proficient support group - Energy in professions

- Energy-related themes and know-how in other degrees
- Energy as a minor subject



STUDENTS KNOW THE STUDY AND CAREER POSSIBILITIES WITHIN THE ENERGY CLUSTER

Interaction between schools and working life

- Training for study counsellors
- Excursion path
- Expert bank
- Business village
- Introduction to working life
- Precision days
- Summer jobs



ENERGIAPOLKU.FI

V A A S A .

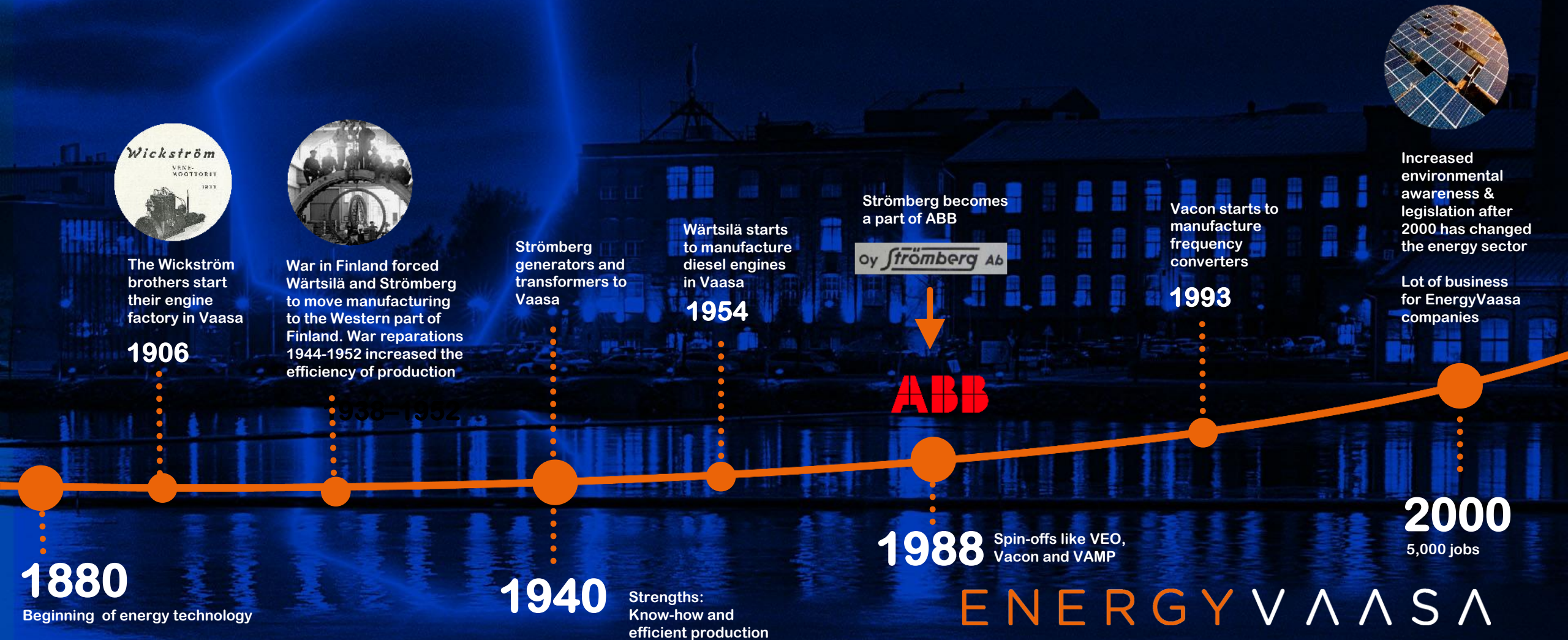
YOUNG PEOPLE AND ADULTS ENTER INTO WORKING LIFE WITH GOOD SKILLS

The energy cluster attracts skilled people

- Work-oriented studies
- Teamwork between working life, students + teachers
- STEM subjects
- Optional subjects
- Club activities
- Educational path in FIN/SWE/ENG
- Further training



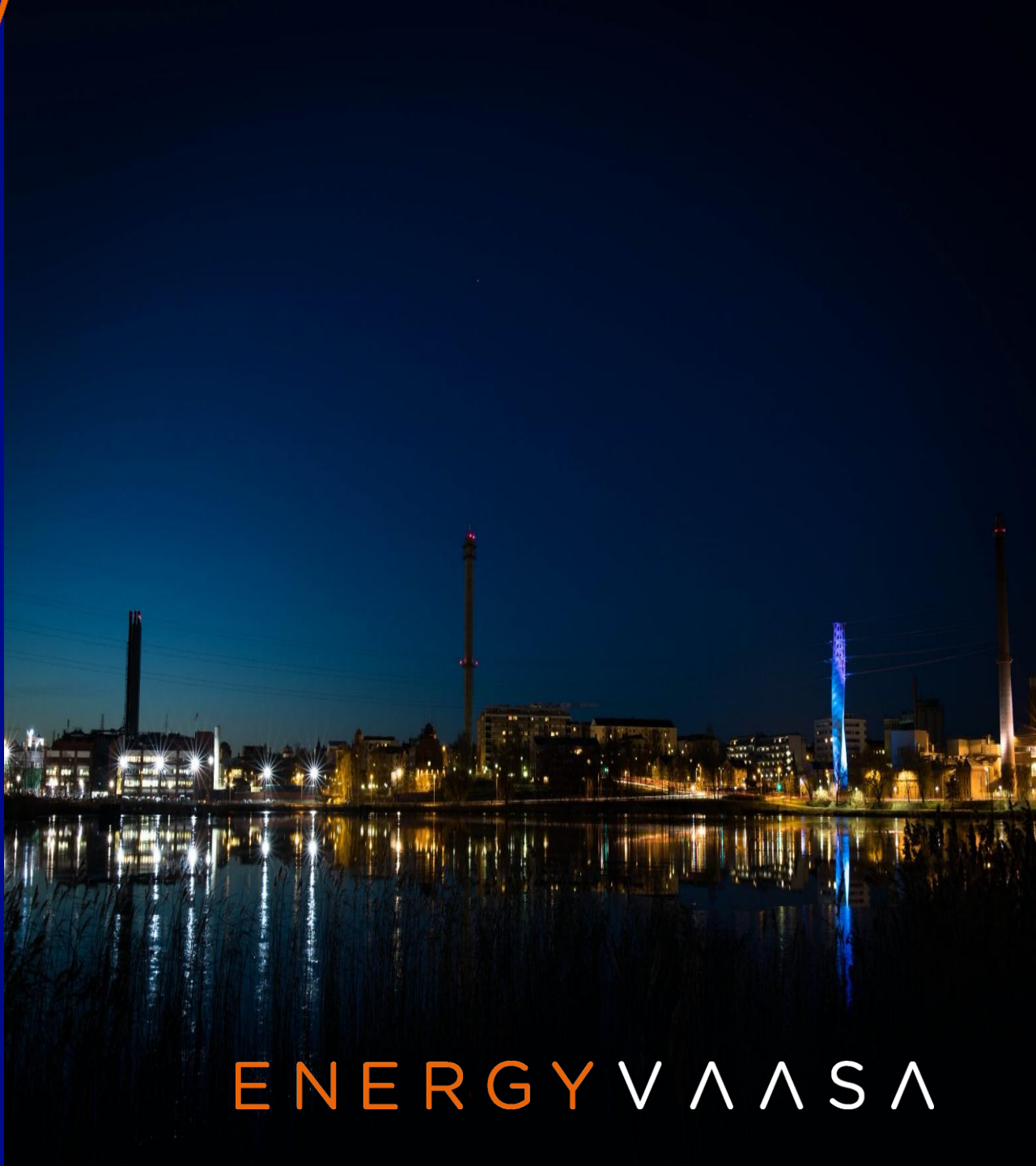
Long traditions



oy *Strömberg* Ab

ABB

...and high goals



ENERGYVAASA



>60%

Most Green Patents in the Nordics

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

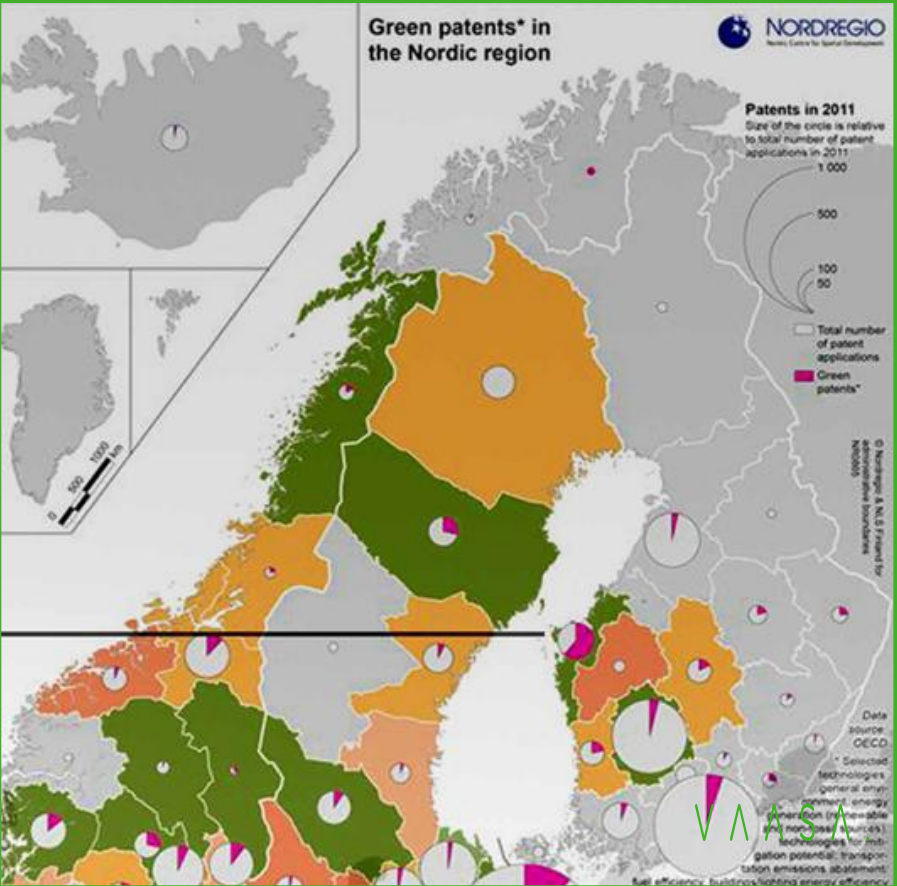


ENERGYVÄÄSÄ



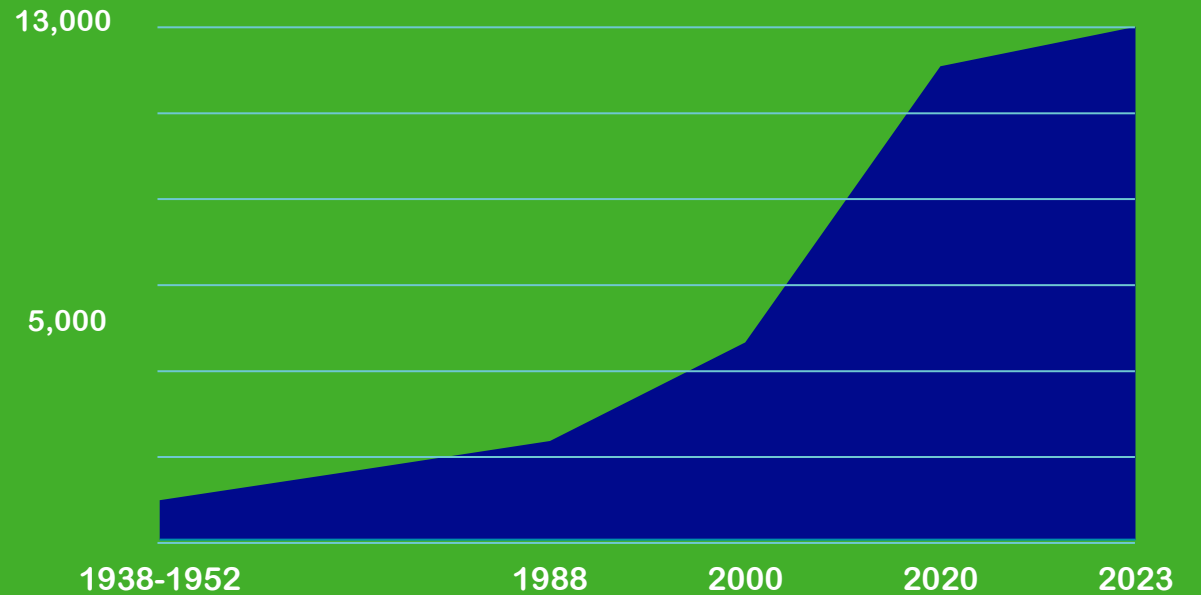
Green Patents

Most green patents in the nordic countries.





Timeline vs. number of jobs



OF THE FINNISH ENERGY
SECTOR WORKFORCE

1/5

EMPLOYS
MORE THAN
FAMILIES

14,300

UNIVERSITY
STUDENTS

>110

NATIONALITIES

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

ENERGYVAASA

WÄRTSILÄ ampne

Wapice

ENERGY
V A A S A

VED

ARCTEQ
RELIABLE POWER

Hitachi Energy

Comsel System

MORE THAN 180



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

13,000



NUMBER OF EMPLOYEES

25%

OF TOTAL MANPOWER IN THE FIELD OF ENERGY IN FINLAND

2%

OF FINLAND'S POPULATION GENERATES



EXPORT: 5.5% , TECH EXPORT: 12%
ENERGY TECH EXPORT: 30%

ENERGY V A A S A



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

ENERGYVΛΛSA



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

Our statements

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

SMART
GRID



MARINE
SOLUTIONS



SUSTAINABLE
ENERGY
PRODUCTION



ENERGY
EFFICIENCY

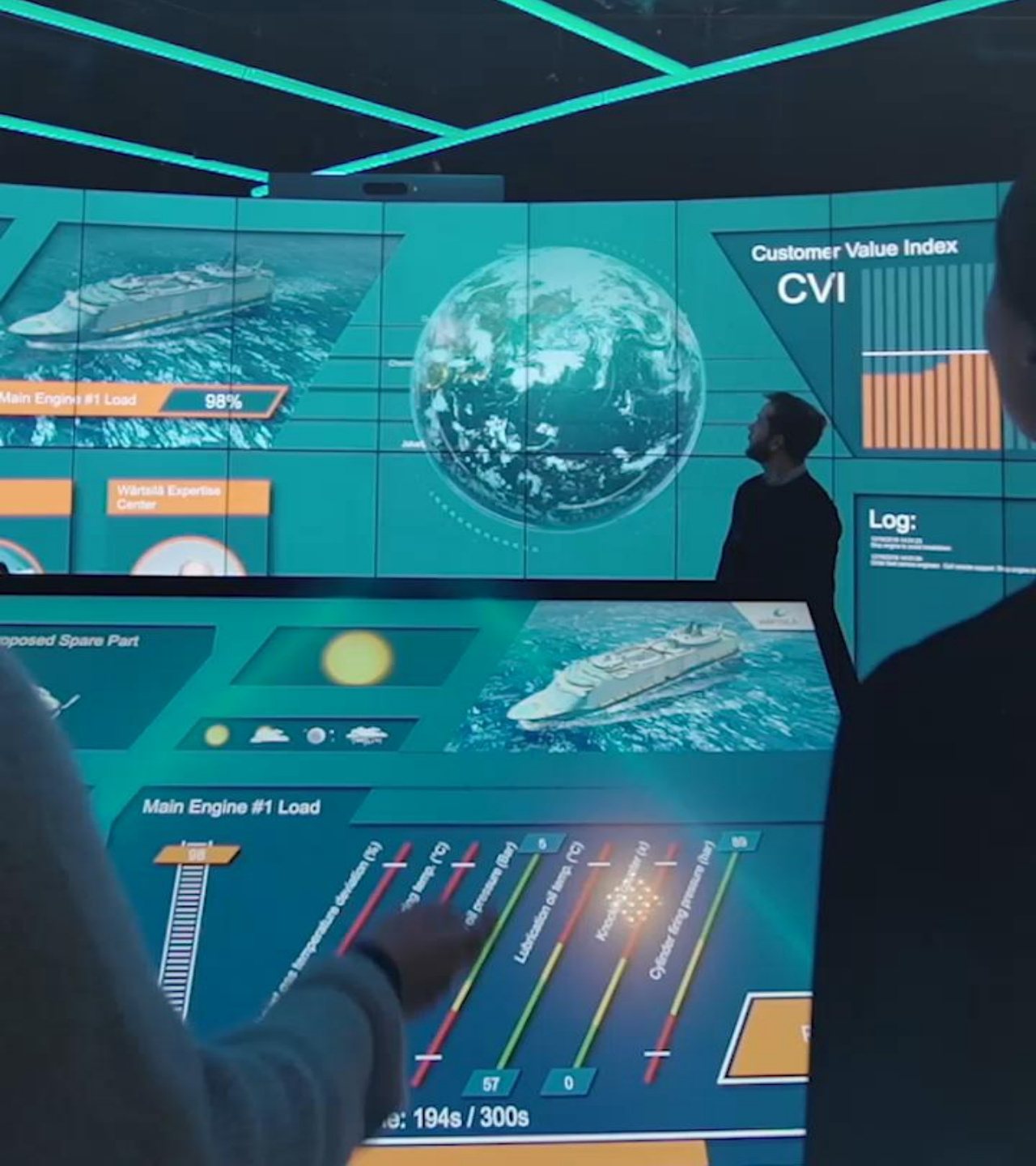


DIGITAL SOLUTIONS

ENERGYVΛΛSA

Energy Technology





Wärtsilä

“By emphasising sustainable innovation, total efficiency and data analytics, we maximise the environmental and economic performance of the vessels and power plants of our customers.”

ENERGYVΛΛSA



Vaasan Sähkö

“We are one of the largest wind power producers in Finland, and all our future investments in primary energy will be renewable.”

ENERGYVAASA



Danfoss

“Our AC drives help save the planet by reducing the global electricity consumption by 8% by 2040.”

ENERGYVΛΛSA



Matina Mitsobonou

Stories of
ENERGYVAASA

“... getting to know the energy sector is thrilling. I’m very excited to be part of all of this - the innovative ideas that we see here can hopefully be part of saving the world in the future,”

ENERGYVAASA

Stories of
ENERGYVAASA

Heino Järvelä



As a development engineer, Heino is for example, making sure that Vaasan Sähkö's products and services are as green and customer friendly as possible.

ENERGYVAASA



Paula Gonzalez,

Stories of
ENERGYVAASA

“I’m developing an application that will help the man on the street to become even more environmentally friendly.

*It feels fantastic knowing that my coding can **contribute** to something so **meaningful**”.*

ENERGYVAASA



Mette Karlman

Stories of
ENERGYVAASA

“I can’t say I’m saving the world myself, but I’m making sure that my colleagues who do are fit for fight...”

with team-building exercises are important building stones when we support our world savers.”

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Stories of
ENERGYVAASA

Tommy Grannas

Wärtsilä's visions of a Smart Marine Ecosystem and a 100% renewable energy future.

*Wärtsilä's investment in the [#SmartTechnologyHub](#) in Vaasa is an essential part of how to turn these **bold visions into reality.***

ENERGYVAASA

A man with a beard and short dark hair, wearing a light blue button-down shirt and khaki pants, stands in a hallway with his arms crossed. He is smiling and looking towards the camera. The hallway has white walls and several posters or notices on the wall, including a prominent red one. The lighting is bright and even.

Khuram Shahzad

Stories of
ENERGYVAASA

*Khuram Shahzad at Danfoss Drives is currently working on marine hybridisation solutions making, for example, Wasaline's new ferry as **climate and customer friendly as possible.***

ENERGYVAASA



WELCOME NEXT YEAR!

EnergyWeek

March 15th to 18th 2027



ENERGYWEEK.FI

#ENERGYWEEK

EnergyWeek 2026

- Whole week full of events and program
- New theme each day. Wind, Renewables, Gas, Storage and environment
- In 2025 we had over 11000 visitors from over 50 countries, 254 speakers, 40 seminars and almost 60 events.
- Next time 15.-18. March 2027
- 812 B2B matchmaking meetings

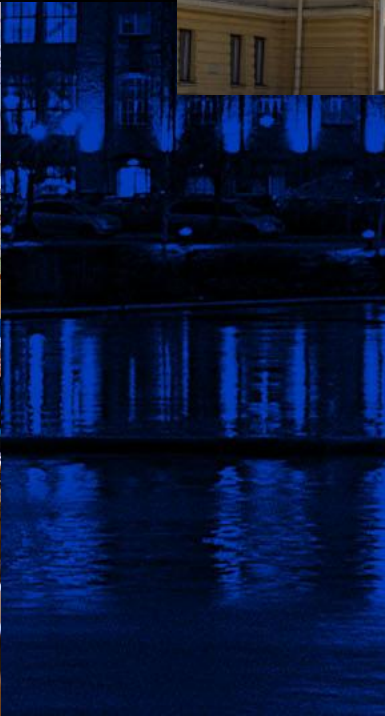
ALREADY
ON THE HORIZON

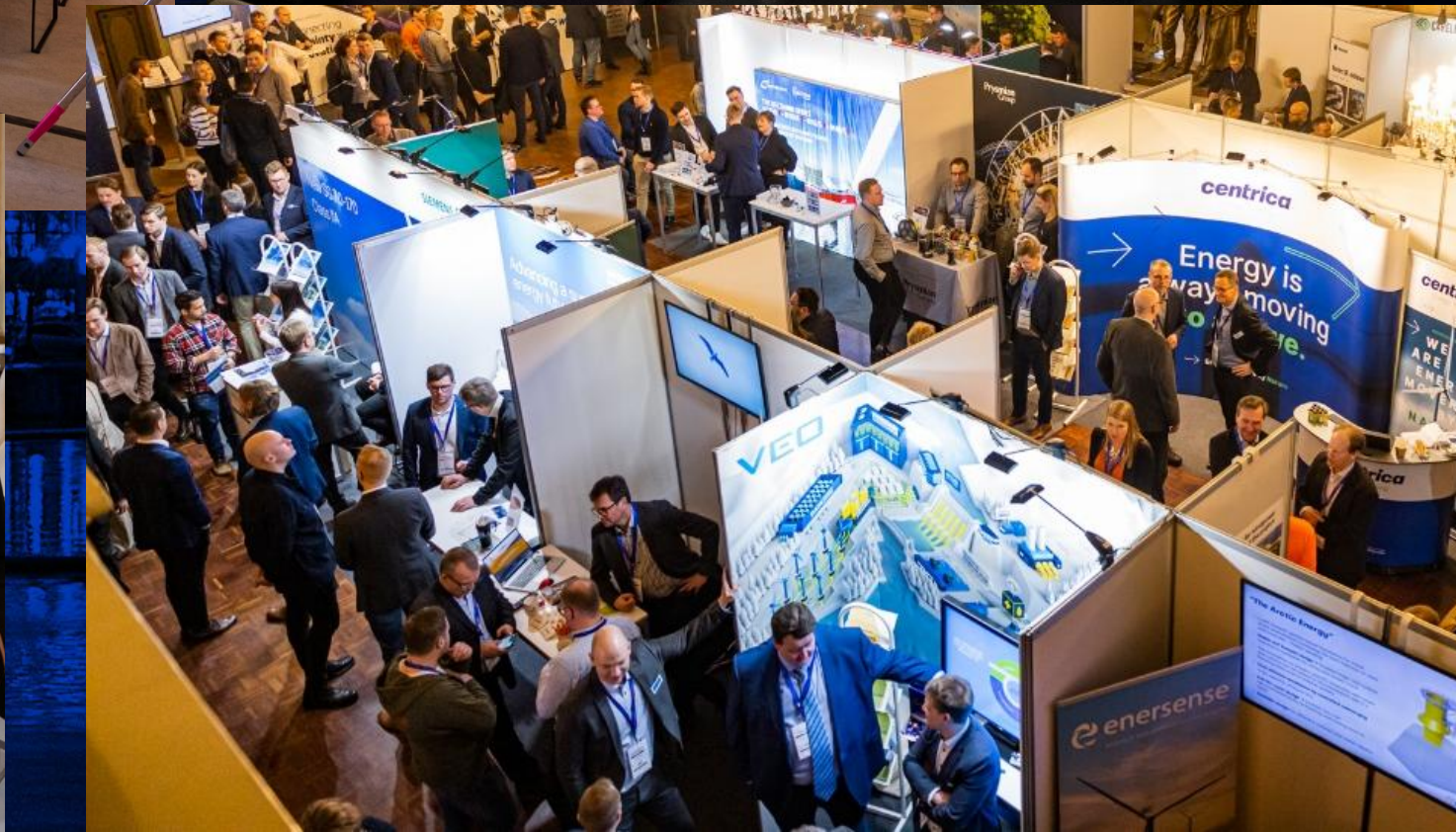
Energy Week 2026

MARCH 16-19
VAASA, FINLAND

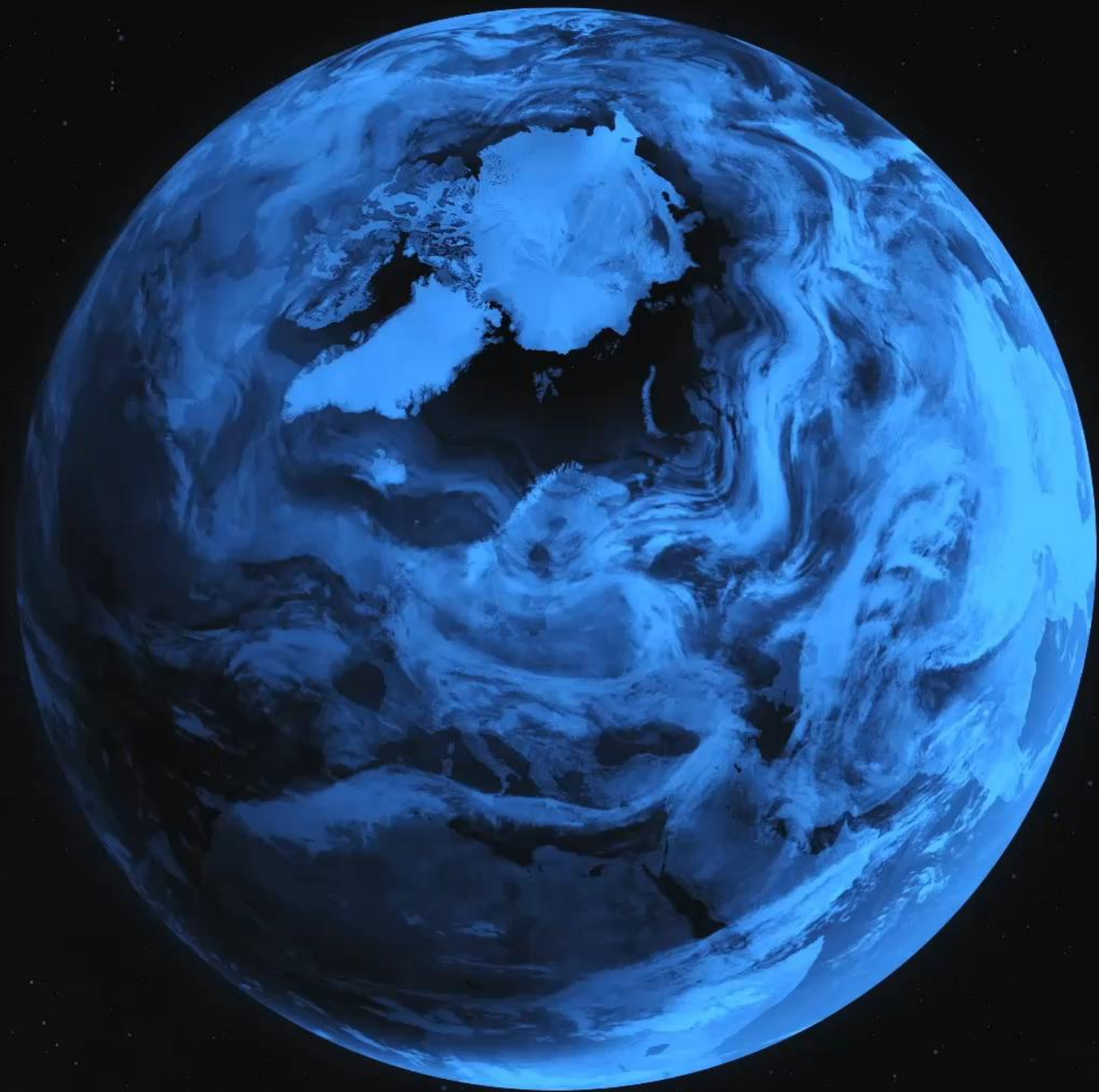
» ENERGYWEEK.FI
#ENERGYWEEK

The poster features a dark blue background with a stylized, glowing orange and white silhouette of a human face. The face is composed of various energy-related icons: a globe, a wind turbine, a battery, and a flame. The text is white and orange, with 'Energy' in orange and 'Week 2026' in white. The dates 'MARCH 16-19' and location 'VAASA, FINLAND' are also in white. At the bottom, the website 'ENERGYWEEK.FI' and hashtag '#ENERGYWEEK' are displayed in white. The overall aesthetic is modern and tech-oriented.









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
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TOTAL
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**ENERGY TECHNOLOGY
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A STUNNING

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OF FINLAND'S TOTAL
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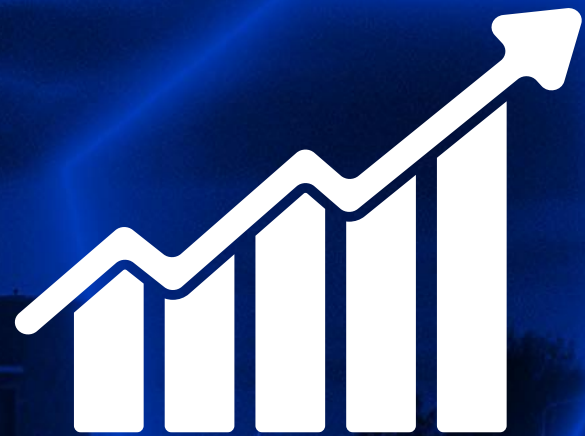
CURRENT
NUMBER OF
EMPLOYEES:

13,000



25%

OF TOTAL MANPOWER
IN THE FIELD OF
ENERGY IN FINLAND



GOALS 2030



180 → 200

ENERGY KLUSTER COMPANIES



250 milj.€ → 300 milj.€

AMOUNT OF YEARLY R&D



6 bln.€ → 10 bln.€

COMBINED TURNOVER



1.9 bln.€ → 2.5 bln.€

INVESTMENTS IN ENERGY TECH. INFRASTRUCTURE



13 000 → 20 000

EMPLOYEES



+ 20 %

NEW START-UP COMPANIES

GOLD

Cluster
Management
Excellence

PROVEN FOR CLUSTER EXCELLENCE

ENERGYVΛΛSA

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 across a body of water. The bridge is illuminated with lights, and its reflection is visible on the water's surface. The overall scene is serene and majestic.

Thank You!

ENERGYVΛΛSA