

JŪRAS SINERĢIJAS FORUMS

ELWIND ATKRASTES VĒJA PARKA ATTĪSTĪBA LATVIJĀ

Jānis Ločmelis

ELWIND projekta nodaļas vadītājs
Latvijas Investīciju un attīstības aģentūra



KURZEMES
PLĀNOŠANAS
REĢIONS



RTU LIEPĀJA



LATVIJAS
HIDROEKOĻĢIJAS
INSTITŪTS



Finansē
Eiropas Savienība

Mission
Latvia

**ELWIND offshore wind
park development in
Latvia**

4th

Among EU countries with the highest renewable energy use

>50%

Of Latvia's electricity consumption is sourced from renewable energy

~62%

Of Latvia's final energy consumption is targeted to come from renewable energy by 2030





~500 km coastline

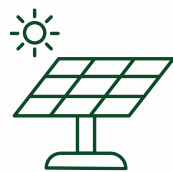
Favorable wind conditions in
sea > 9 m/s



~15 GW potential

1/6th of the 90GW
Baltic Sea region

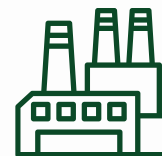
Advantages of Latvia's energy sector



Renewable energy with EU market access



Low land costs and underground sites storage potential



SEZ and industrial park ecosystem



5.8+ GW available in the transmission grid with low network tariffs

Our focus: ELWIND

A joint Estonian-Latvian cross-border offshore wind farm project

Potential to harvest up to 7 terawatt-hours worth of clean wind energy for the Baltic region every year, while ensuring minimal environmental impact





- 📍 Sõrve, Estonia
- 📍 Kurzeme, Latvia
- 🏗️ 2029
- 🕒 Operational by 2035
- ✈️ 70 - 140
- ⚡ 1 - 2 GW

- Onshore substation
- 🌊 Estonian ELWIND area
- 🌊 Latvian ELWIND area
- ▬▬▬ Indicative hybrid interconnector corridors



Why this way?

Providing regulatory and business predictability to market participants, by taking care of the permits and **conducting technical and EIA studies.**

Meaning Estonia and Latvia predeveloping two offshore areas and **auctioning these out.**

This will **mitigate the risks** and insecurities of the development for the interested parties.



Studies

DELIVERED

Grid

Possible grid connection points, cable routes and network configuration

Desk studies

- Metocean
- Geological
- UXO (interim report LV)
- Archeology (interim report LV)

CONTRACTED

Fish & pelagic species

Metocean
in-situ measurement campaign

Pre-FEED and FEED design

Birds

Migration and feeding areas

Geophysical survey

Technical experts

Owner's engineers

Bats

feeding flights and migratory corridors

Benthos community

Suspended solids, water quality

Seals & mammals

Nursery and habitats

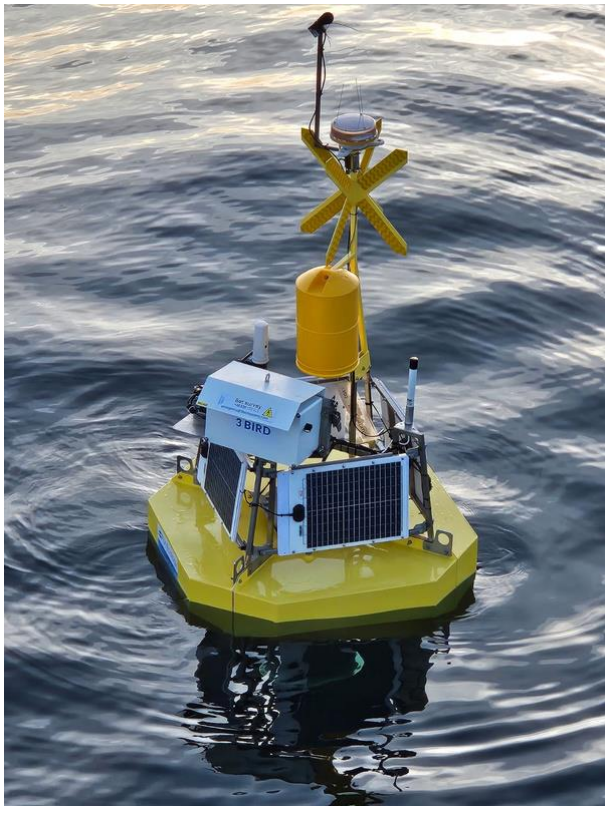
UPCOMING TENDERS

Onshore studies (LV)

Species and habitat research, Coastal erosion, Traffic and transport, Noise assessment

Geotechnical survey

Wind Resource Assessment





Preparation

CEF/CB RES financing
EIA studies
Technical and socio-economic studies
Auctioning principles and documentation

2022
-
2028

Construction

Wind farm construction
Grid construction

2030

Auctioning & Permitting

Technical requirements for connection
Technical design
Tendering

2029

Park(s) operational

Commissioning
Testing
Operation

2035

01

Security

Contributing into energy security and energy independence in the region

Helping to lower and stabilize energy prices

Phasing out fossil fuel-based energy production

02

Investment

States become better partners to the whole sector

Development of a regional supply chain **~1 billion EUR**

~500 jobs

Design, Engineering, Construction

Renaissance of Ports

03

R & D

50 startups (energy accelerators)

Testbeds

Knowledge & education

Power to X

Sea biodiversity increase

Latvia

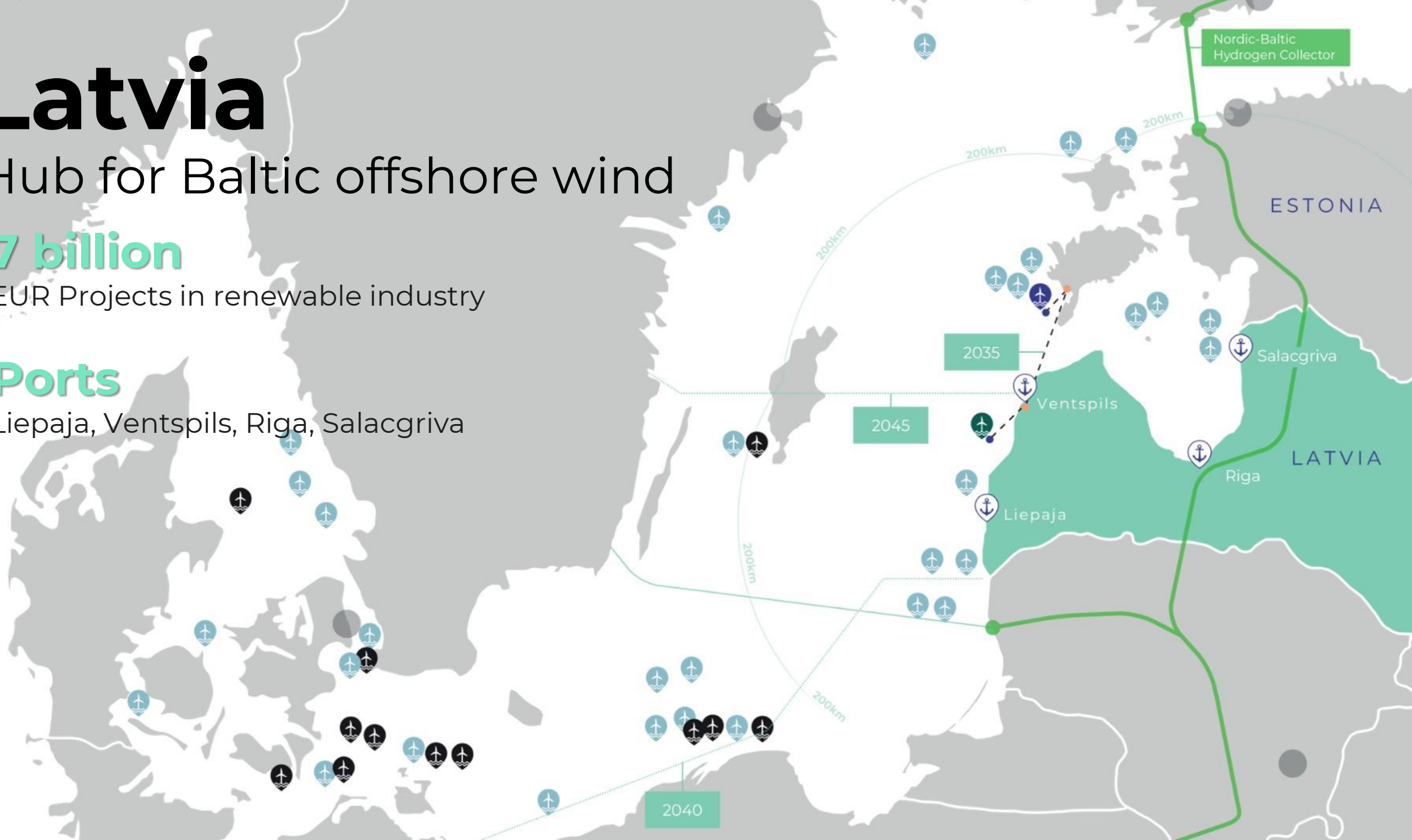
Hub for Baltic offshore wind

7 billion

EUR Projects in renewable industry

Ports

Liepaja, Ventspils, Riga, Salacgriva



Liepāja

Sustainable Industry hub



CIS LIEPĀJA
CIS Liepaja
Hydrogen Production:
 Total area - 36 ha
 Operational by 2034
 Production volume - 140 000 t of hydrogen annually

AST
Onshore Power Hub/Substation
 Completed by 2037

NORSAF
Carbon Capture and Storage
 CO2 capture capacity of 850 000 tonnes per year
 Operational by 2030

NORSAF
Norsaf
 Sustainable Aviation Fuel (SAF) Production
 Total area 16 ha
 Operational by 2030

FokkerNext Gen
Fokker Next Gen
 Aviation Innovation and Green Technology:
 Operational by 2035

LSEZ LIEPĀJA **Liepāja**
Liepaja Industrial Park
 Total area - 120 ha
 Operational by 2026

Van Oord **EUROPORTS** **SMULDERS**
 Marine ingenuity
VanOord - Euroports - Smulders
 Offshore Wind and Heavy Lift Terminal
 Development
 Total area - 55 ha
 Operational by 2029



Ventspils



Offshore wind hub

Manufacturing base for wind turbine oversized structures and components
Installation port and O&M center

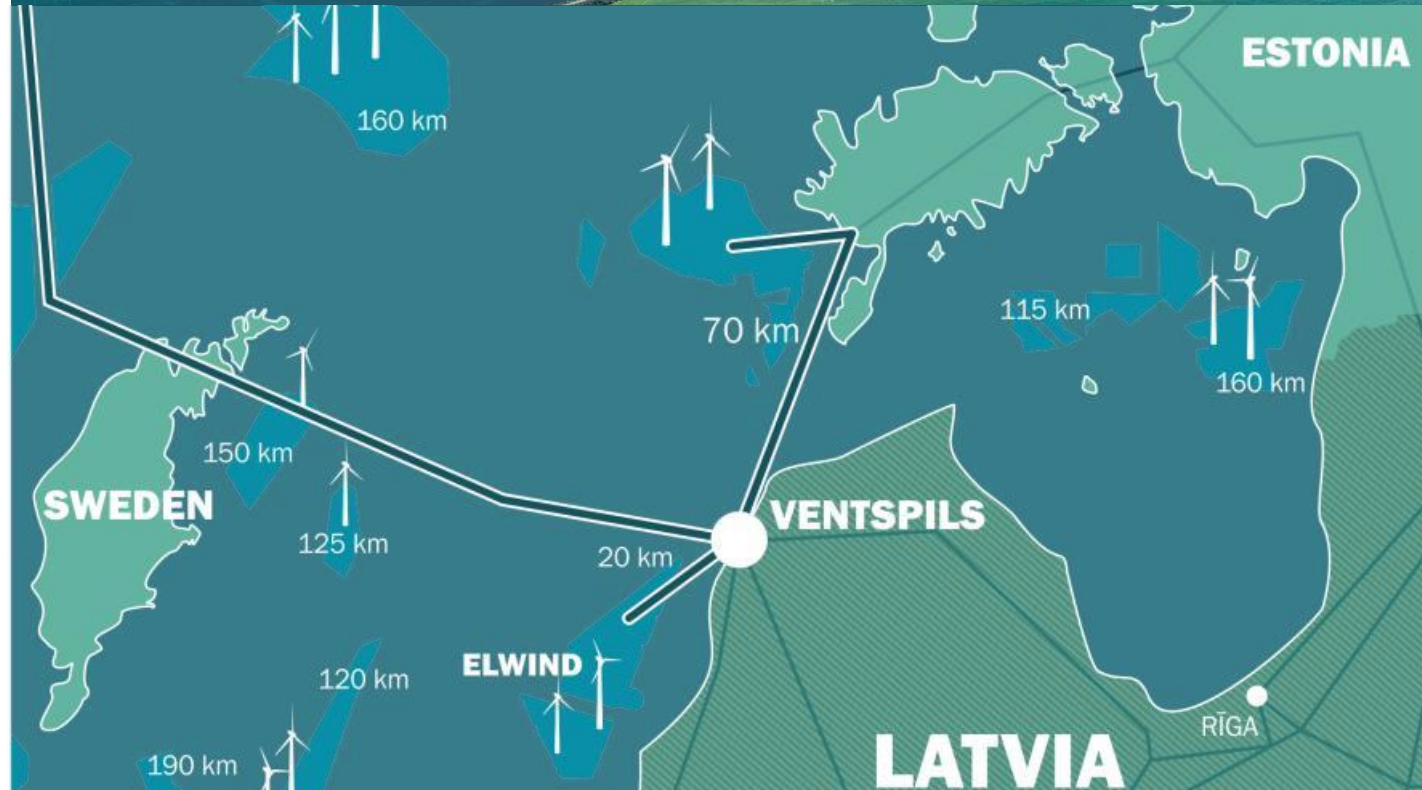
HYDROGEN ECONOMY CLUSTER

Green hydrogen and derivative products (ammonia) production plant
Renewable methanol plant.
Solar panel and BESS parks
Industrial gas (CO₂, etc.) terminal

PORT OF VENTSPILS

SPECIAL ECONOMIC ZONE

Non-freezing, deep-water port
Ro-Ro cargo centre of Latvia
500 ha for industrial development
Latvia's fastest growing industrial zone



Riga Port of Riga

Wind Energy component manufacturing project

90

for the development of a large-scale renewable energy component production

+85 M €

investments in infrastructure and territorial development

+200 M €

private investment in the creation of production facilities

+650

jobs created



Salacgrīva

Port - O&M



Salacgrīva port is

planned to be developed as a base and maintenance hub for offshore wind farms in the Gulf of Riga.

The port's location allows convenient access for vessels, equipment, and specialists to reach the offshore wind farms.

The port will serve as a logistics center for the delivery of turbine components, as well as for their installation and regular maintenance.



Local Success Stories

AERONES

Aerones develops **wind turbine state-of-the-art robotic**, IoT technologies and provides wind turbine maintenance services worldwide.



SUBmerge Baltic

Autonomous Underwater Drones for **scanning underwater structure for offshore parks** maintenance or defence sector.



NACO Technologies

Naco Technologies have created nano-coating and new materials replacing the need for platinum and expensive materials. Naco Develop Next-Gen **coating for the wind turbines** with the Aerones cooperation.



BOTC training centre

Provides hands-on **training and safety courses for jobs in industries like wind energy, offshore work**, and maritime. They teach skills such as working at heights, fire safety, and sea survival.





Research

Design

Construction

Maintenance

Decommissioning

Raw materials

Technologies

Workforce

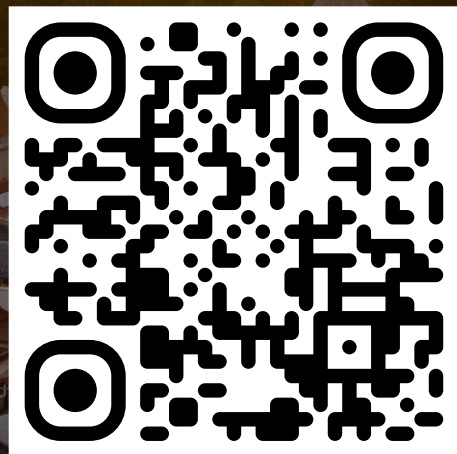
Infrastructure

They have chosen Latvia



Our mission – your
achievements

MISSION 
Latvia



www.investinlatvia.org



elwindoffshore.eu