

*MISSION*Latvia

# ENERGY SYSTEMS

Green. Scalable. Independent.





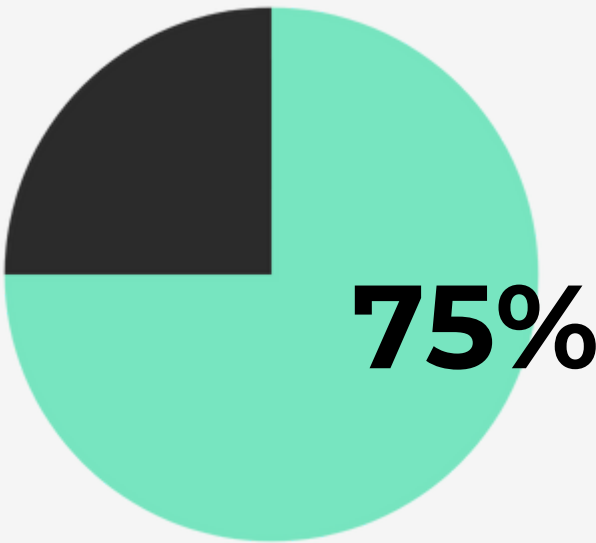
# ENERGY SYSTEMS IN NUMBERS

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4th in the EU by share of energy from renewable sources

1535

Million EUR sector added value



of energy manufactured in Latvia is made from green renewable energy sources



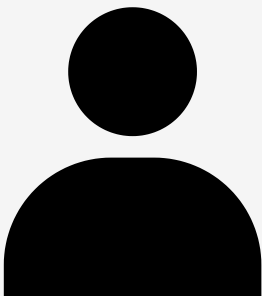
3345

total sector companies

9.6%



Share of Energy sector value-added in GDP

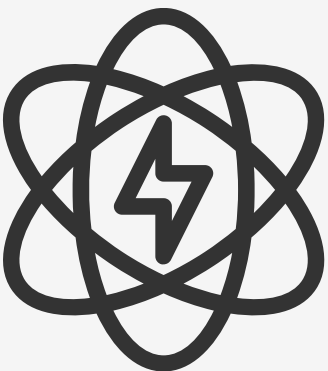


24.1k

employees in the sector

2549

EUR average monthly salary in the sector



66%

or 3,196 GWh renewable energy share



# OVERVIEW OF LATVIA'S ENERGY SECTOR

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- Latvia is expanding renewable energy use, focusing on **hydropower, wind, solar and biomass**.
- In February 2025, **Latvia secured full energy independence** by disconnecting from Russia and integrating into ENTSO-E.
- Ongoing efficiency efforts under REPowerEU further strengthen EU integration, **enhance regional security, and support geopolitical alignment**.
- Latvia has world leaders in **wind turbine maintenance** with robotic technologies - Aeronex.
- **Hydrogen** and bioethanol significant investment projects - CIS Liepāja, PurpleGreen C, NORSAF.
- Latvia is rapidly developing **electric and hydrogen components manufacturing** for different usage – EHT Fabric, AS Jauda, Dinex, AJ Power, Electrify.
- **Hydrogen Digital Twins** and Startup ecosystem - Naco Technologies, Electrify, Dinex, Protium Tech, Digas...





# RENEWABLE ENERGY

**4th**

in the EU by share of  
energy from  
renewable sources

**>50%**

of Latvia's energy  
consumption is source  
from renewable energy

**62%**

of Latvia's final energy  
consumption is targeted  
to come from RES by 2030

**500km+**

coastline with favorable  
wind conditions in sea  
>9m/s





## PARTNERS (ASSOCIATIONS, ETC.)

- ELWIND
- Latvian Hydrogen Association
- Latvian IT Cluster
- ETKC
- Rail Baltica
- LEEA
- Green Tech Cluster
- Vefresh

## GOVERNMENTAL

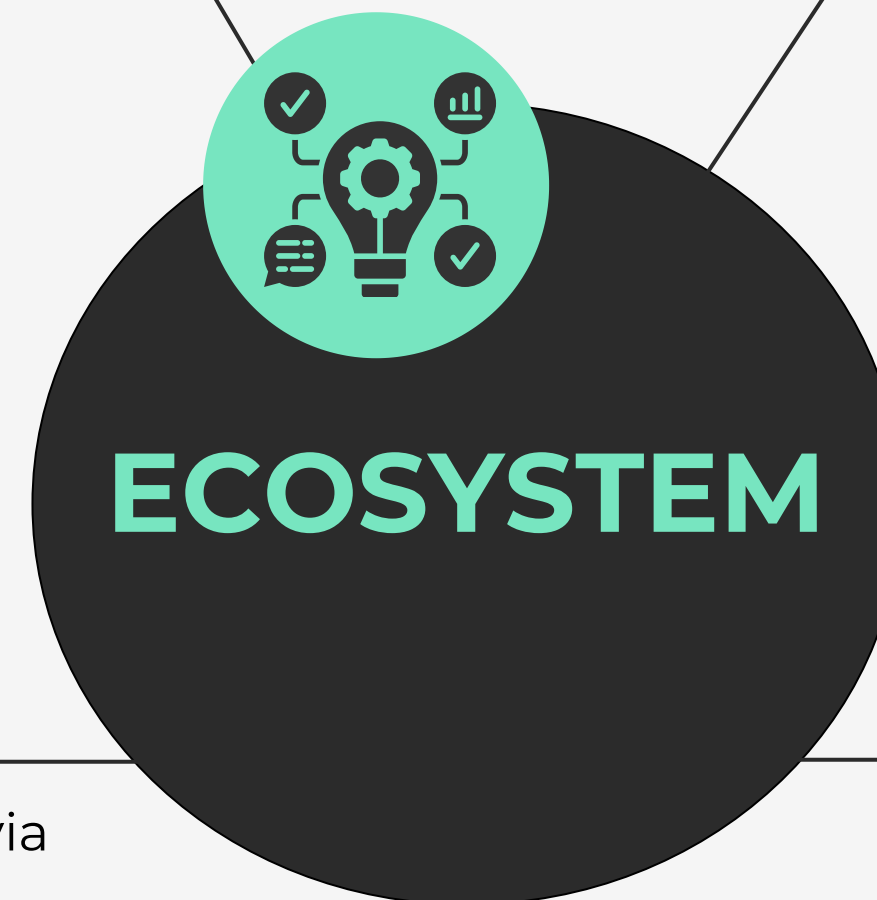
- Investment and Development Agency of Latvia
- Riga Energy Agency
- Riga Investment and Tourism Agency
- Ministry of Education and Science of the Republic of Latvia
- Ministry of Economics of the Republic of Latvia
- Ministry of Energy and Climate of the Republic of Latvia
- Ministry of Environmental Protection and Regional Development of the Republic of Latvia
- Ministry of Transport of the Republic of Latvia

## EDUCATION, RESEARCH & SCIENCE


- University of Latvia
- Institute of Physical Energetics
- Riga Technical University
- RTU DESIGN FACTORY
- Institute of electronics and computer science
- Latvia University of Life Sciences and Technologies
- Transport and Telecommunication Institute

## SMART ENERGY AND MOBILITY INDUSTRIAL PARTNERS

- |                     |                              |
|---------------------|------------------------------|
| ◦ Latvian Railway   | ◦ Electrify                  |
| ◦ Aeronas           | ◦ RIX                        |
| ◦ LSEZ              | ◦ BeTriton                   |
| ◦ Naco Technologies | ◦ ABLabs                     |
| ◦ Enefit            | ◦ Fiqsy                      |
| ◦ Dinex             | ◦ Freeport of Riga Authority |
| ◦ LEC               | ◦ Citybee                    |
| ◦ AJ POWER          | ◦ Rīgas Satiksme             |
| ◦ Latvenergo        | ◦ Bolt                       |
| ◦ Latvijas Gāze     | ◦ Jauda                      |
| ◦ FokkerNextGen     |                              |





A close-up view of a robotic maintenance arm with orange joints and black cables, positioned on a white wind turbine tower. The background shows a hilly landscape with other wind turbines under a clear sky.

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

**Aerones**


## ENERGY SYSTEMS SHOWCASE

An aerial view of a large industrial facility, likely a hydrogen production plant, situated on a peninsula or near a body of water. The facility includes several large storage tanks, processing buildings, and a network of pipes. The water is a deep blue, and the sky is overcast.

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A leading project company dedicated to sustainable hydrogen production in the Port of Liepāja

**CIS LIEPAJA**

An aerial view of a large industrial complex, identified as a hydrogen and ammonia plant. The facility features numerous large white storage tanks, industrial buildings, and a complex network of pipes and roads. The surrounding area includes some greenery and infrastructure.

A large-scale hydrogen and ammonia plant is in development, with studies underway and a 2024 sales MoU signed with a German trader.

**Purplegreen**



An innovative project focused on R&D to design and construct a new type of aircraft with hydrogen engine technology.

**Fokker Next Gen**