MISSION Latvia

GREEN FUELS

Abundant renewable-energy potential with a strong gas-infrastructure base

6th lowest hydrogen cost in Europe
Latvia ranks among Europe's most cost-efficient locations for network-connected green hydrogen production

4 TWh annual biomethane potential
Latvia's biomethane production potential equals around half of the country's current gas consumption

22.4 TWh renewable energy capacity
Latvia's potential renewable energy generation capacity

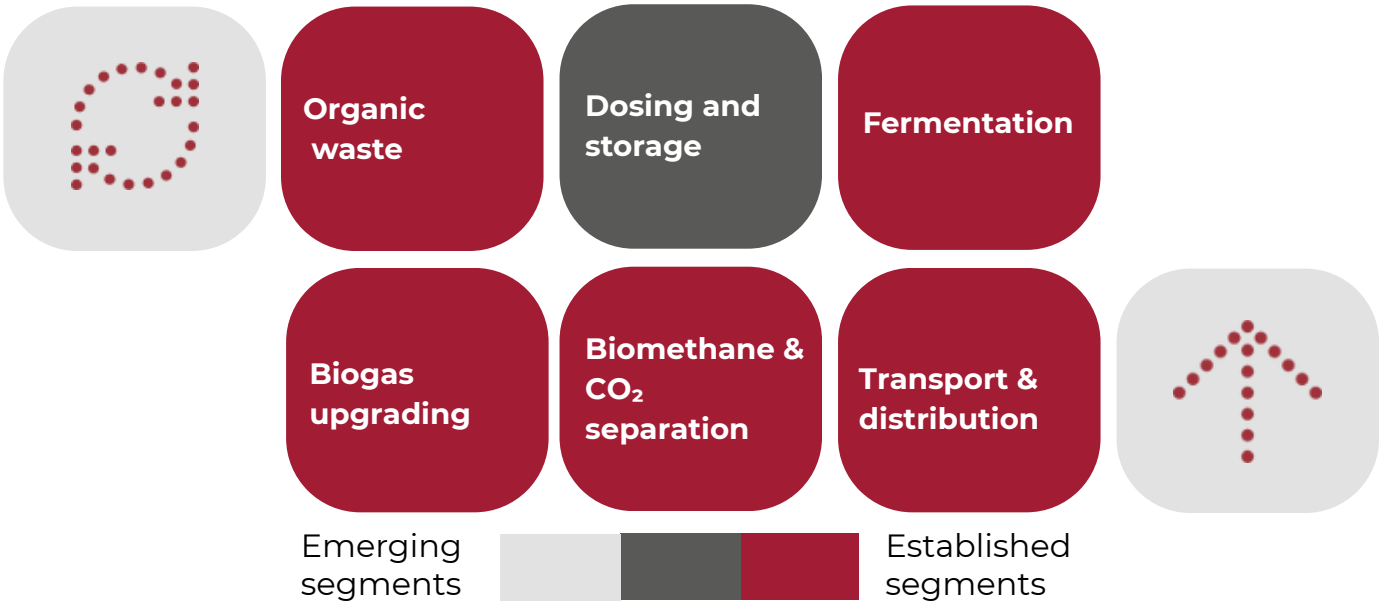
24 TWh underground storage
The Inčukalns gas storage facility — the largest in the Baltics — covers more than half of the region's annual gas demand (40 TWh)

€21.5 million available support
State and EU funding programmes provide support for biomethane production and transportation infrastructure

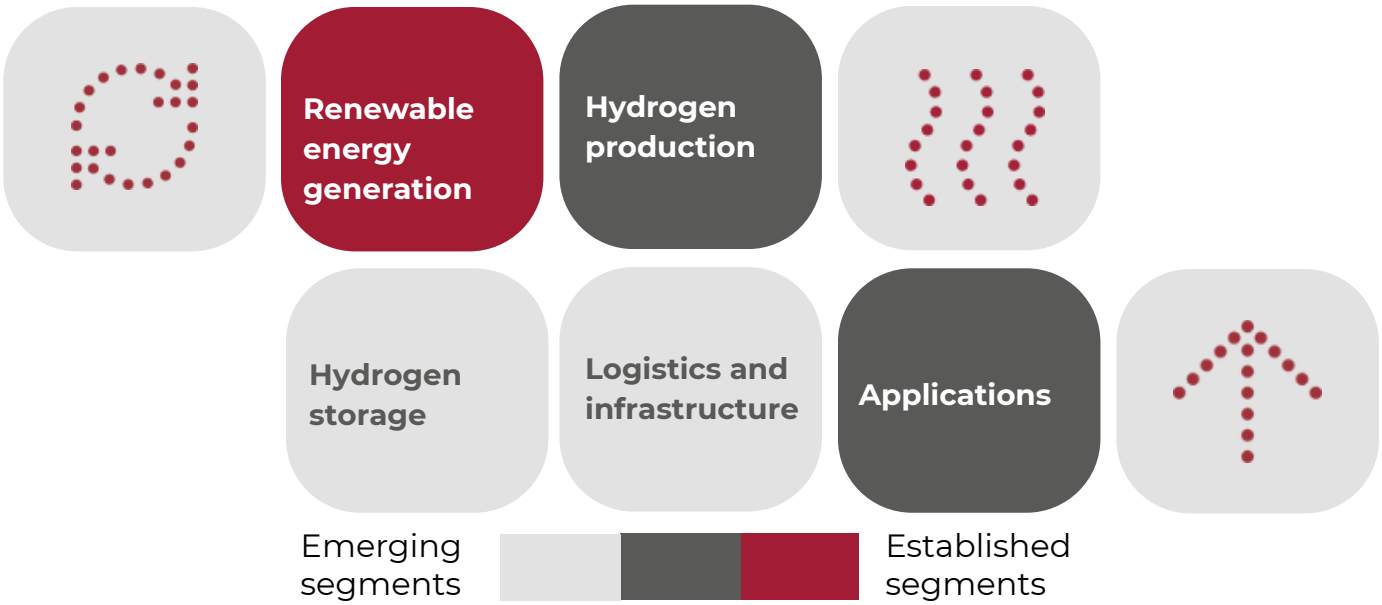
Leading companies

Latvenergo · CIS · conexus BALTIC GRID · VIRŠI · UTILITAS · Balticovo

Biomethane value chain



Green hydrogen value chain



Enabling scalable green fuel production for regional and cross-border supply chains

Conexus Baltic Grid
The Baltic gas infrastructure operator, which has also opened the first publicly accessible biomethane entry point in 2025, with three more points planned to open.

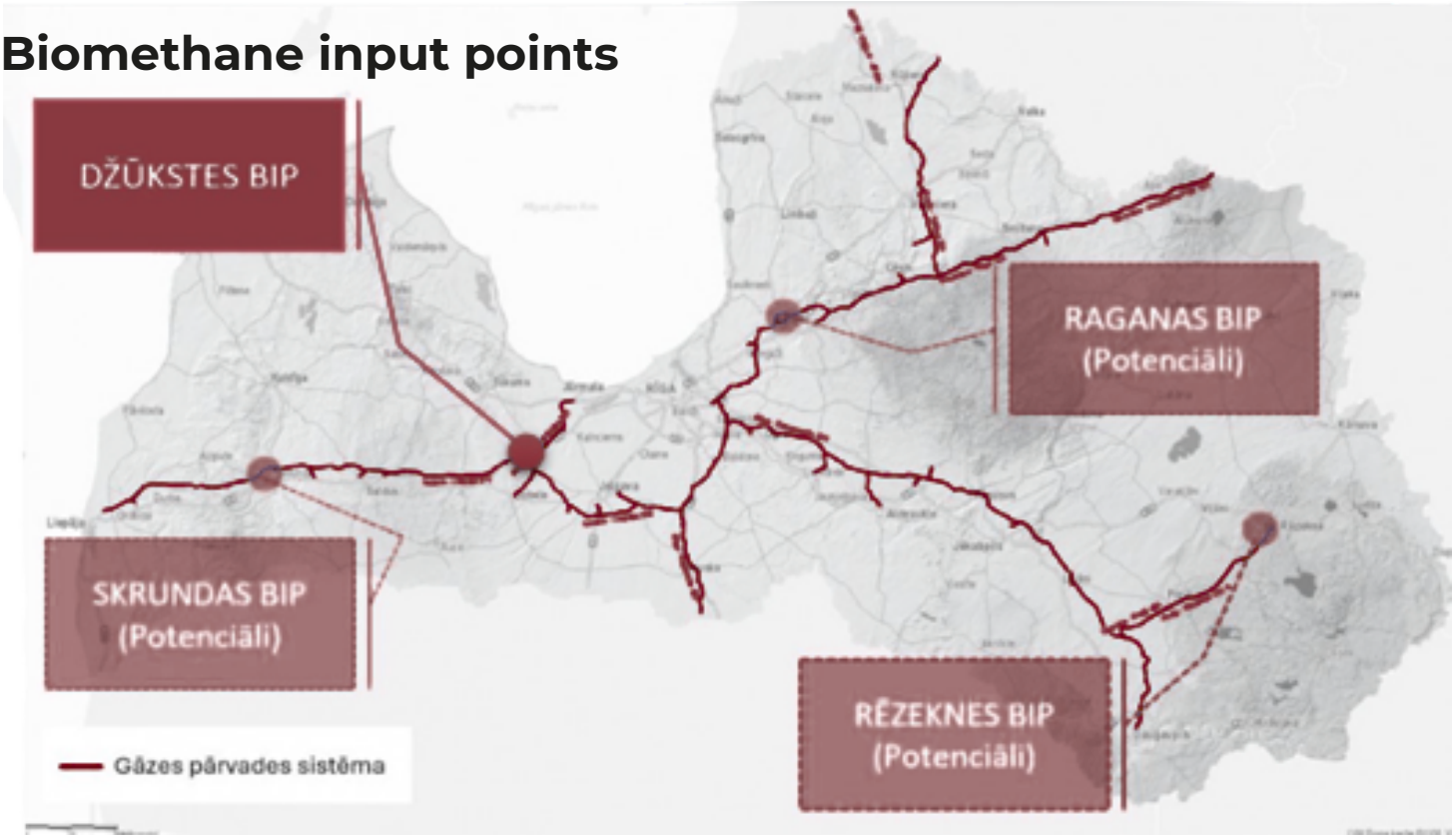
Latvenergo
Latvenergo plans to test a 5 MW hydrogen electrolyzer, currently already offers natural gas, which creates prerequisites for the use of biomethane.

Balticovo
Balticovo began producing biomethane and liquefied CO2 from chicken manure in 2024

CIS
Project for a hydrogen production plant in Liepāja with a production capacity of 140,000 tons per year, planned start of operations by 2029

Virši
Virši plans to open its biomethane plant in the second half of 2025

Biomethane input points



Relevant Education Institutions

INSTITUTE OF SOLID STATE PHYSICS
UNIVERSITY OF LATVIA

RIGA TECHNICAL UNIVERSITY

Latvia University of Life Sciences and Technologies

UNIVERSITY OF LATVIA

LATVIAN STATE INSTITUTE OF WOOD CHEMISTRY

Fizikālās Enerģētikas Institūts
Institute of Physical Energetics

R&D and process-development location for hydrogen and biomethane technologies

Institute of Solid State Physics
Researchers at the Institute of Solid State Physics have modelled and experimentally studied perovskite-based nanomaterials with potential to improve the efficiency of hydrogen production processes (2024).

Latvia University of Life Sciences and Technologies
Riga Technical University
Latvian State Institute of Wood Chemistry
Research institutions conduct experimental and process-engineering studies on biomethane production, including feedstock conversion, efficiency optimisation and integration into bioenergy systems.