WIND POWER IN LATVIA

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Board member
Offshore wind  Riga  May 2017
Today
Offshore wind in Europe
WindEurope
information
About Latvia:
wind, see, harbours, geology, environment, economy, electrical grid and market, regulation and restrictions, legal acts, strategy .....
Offshore wind farms
Daily wind power numbers

Onshore Wind (GWh) by country
- Germany
- Spain
- France
- United Kingdom

Offshore Wind (GWh) by country
- Denmark
- Germany
- United Kingdom

Share of wind energy in total electricity demand: 12.9%
- Onshore Wind (GWh): 1,098
- Offshore Wind (GWh): 185

Which could power
- Equivalent EU households*: 129 million
- Average industrial electricity demand **: 45%

* Elaborated on the electricity demand of an average EU28 household in 2015, Eurostat
** Elaborated on the industrial electricity consumption of each EU28 country in 2015, Eurostat

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windeurope.org/daily-wind/
Economic output

• 330,000 jobs

• €72bn 2015 turnover

• €27.5bn invested in 2015

• €1bn EFSI direct investments

Source: Paul Langrock; Wind Europe
Wind energy investments 2000 - 2030
Offshore turbine development

Turbines are **15% larger** than in 2015
Offshore outlook

- Market still focused on North West Europe
- Stable pipeline next 4 years
- Uncertainty after 2020 in some countries

WindEurope assessment based on regulatory signals, turbine orders and investment trends
Mean Annual Wind Speeds in m/s

Reference NCEP Reanalysis

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Baltic states
HV power grid
Latvia have 500 km sea coast line, 
Good offshore wind conditions, developed HV grid, 
INCE 2014 in Nordpool spot market

LATVIA IMPORTS ~1/3 ELECTRICITY ~ 2TWH = 83 m€

CO2 QUOTAS PRICE + 1 € / t CO2 = + 1 € / MWh

No wind measurement map, complicated legal environment, 
Inefficient RES scheme suporting gas CHP 
To Gazprom every day one milj euro
Developing spatial plans

Ministry of Economy - energy, building permits ...

Ministry of Environment and Regional Development – RES, CO2 emissions, safety zones, biotops ...

Ministries:
Agriculture (fishery), Defence (space), Culture (archeology), Transport (Ships, planes, communications), Finances (budget, OIK), Foreign affairs borders), Internal affairs (safety) .Justice ...

+ various public organizations and groups
Latvians are everywhere

A photo of the jack-up vessel Seajacks Scylla installing one of the 67 Siemens 6MW turbines at the 402MW Veja Mate offshore wind farm using a 1,500mt Huisman Leg Encircling Crane.

Veja Mate is a EUR 1.9 billion offshore wind project owned by the Highland Group Holdings Ltd, Siemens Financial Services, and CI II, managed by Copenhagen Infrastructure Partners. The wind farm is expected to be fully operational by late 2017/early 2018.

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