



**Hydrogen Sector in  
Lithuania**  
**2024-2050**

**H<sub>2</sub>**

**HYDROGEN**

**H<sub>2</sub>**

# Lithuania Strategic Energy Objectives

Combining security, environmental, economic and social ambitions

**ENERGY  
INDEPENDENCE**



Energy independent and self-sufficient by 2050

**100%  
DECARBONISATION**



Acceleration towards 100% renewable energy in cost effective way

**BECOME AN ENERGY  
EXPORTER**



Energy and higher value products supplier for the region

**PURSUE INDUSTRIAL  
GROWTH**



Energy sector transformation - opportunities for industrial growth

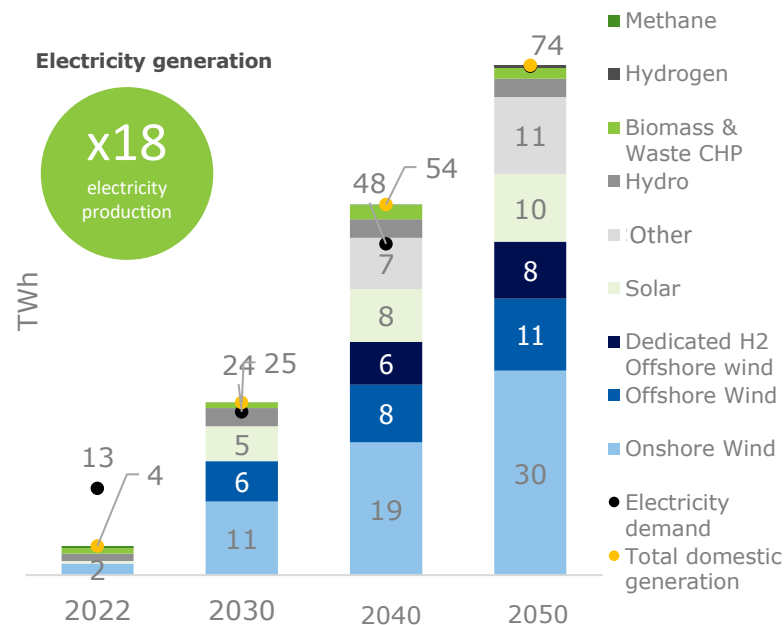
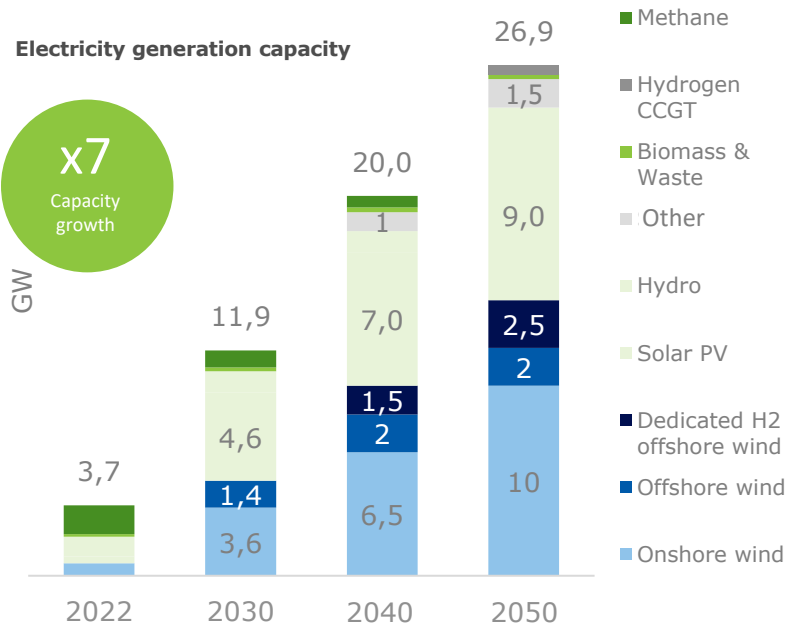
**ENERGY COSTS &  
AFFORDABILITY**



Ensured energy affordability and maximized export opportunities

# Electricity generation

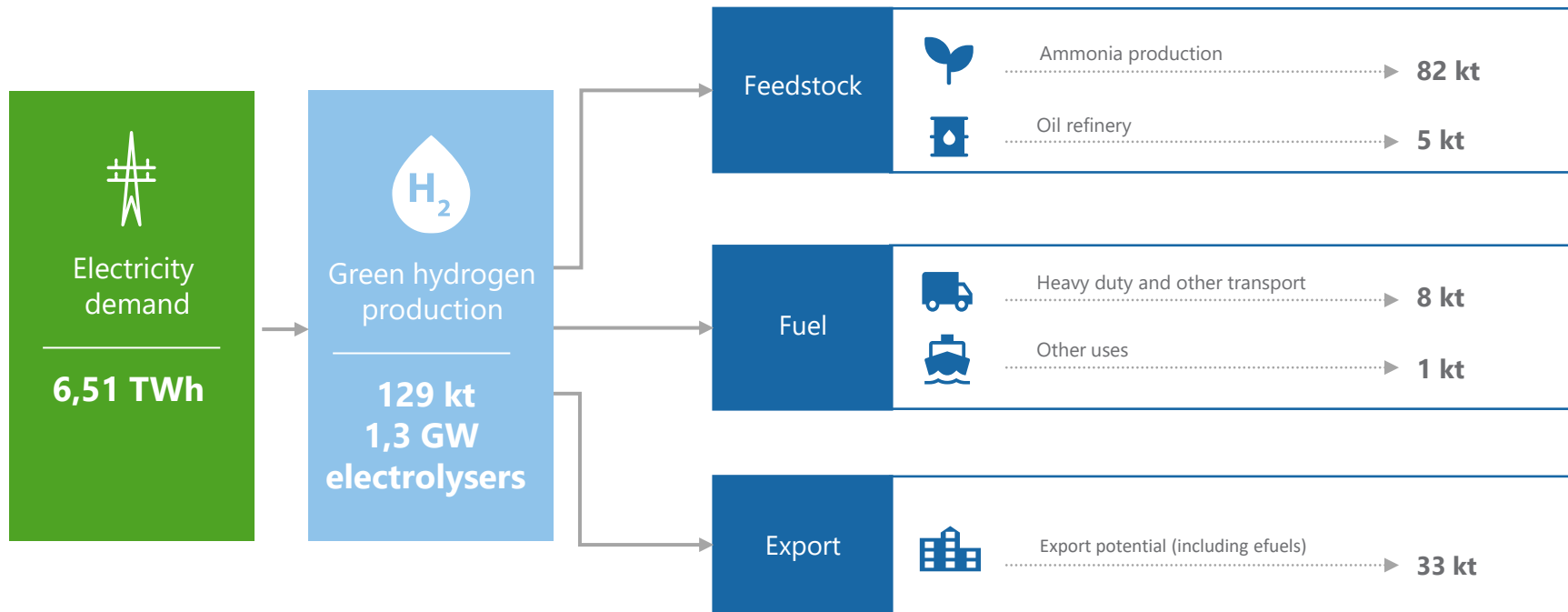
Lithuania – electricity exporting country by 2030 and beyond



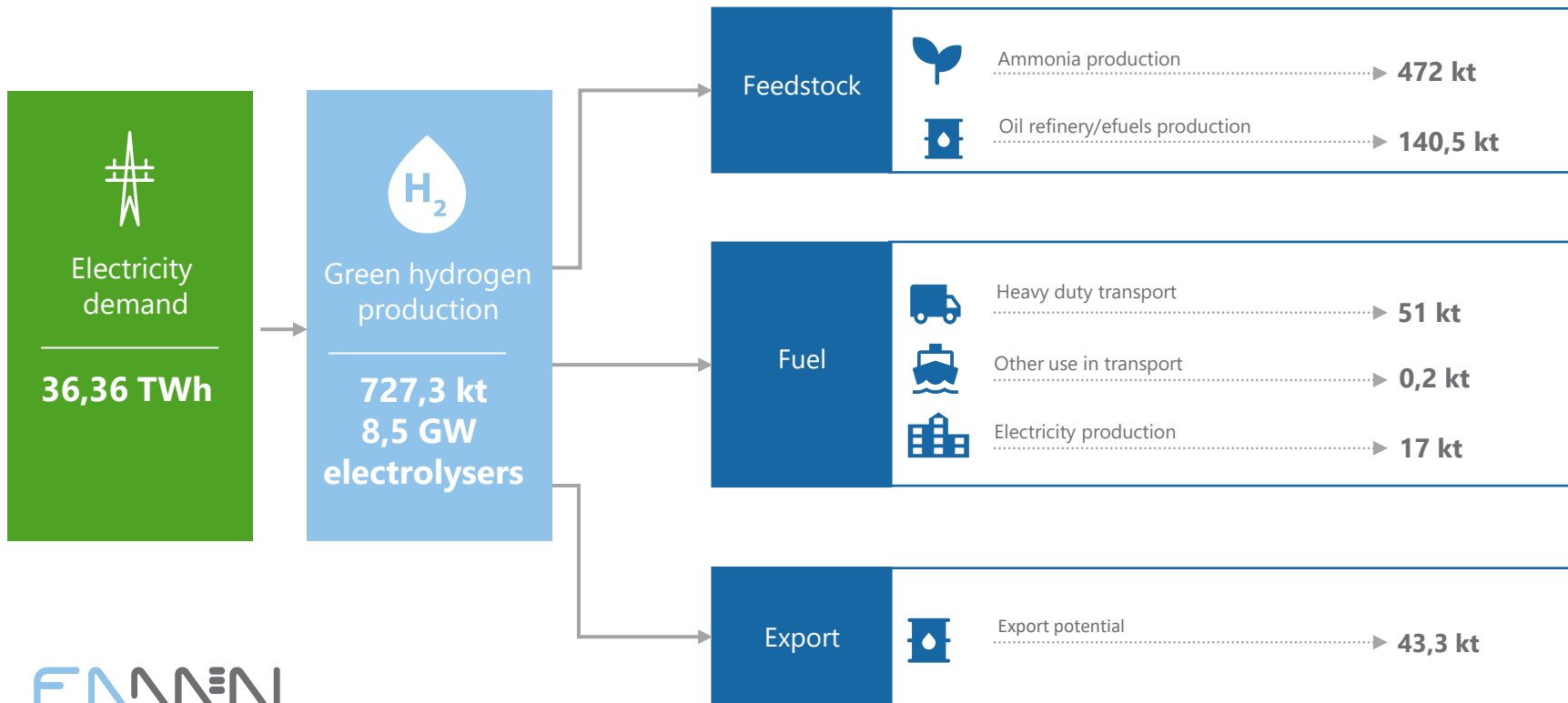
A 5-to-8-fold increase in installed capacity, driven by onshore & offshore wind and solar PV...

...is leading to a 10 to 20 higher electricity generation.

# Hydrogen targets for 2030



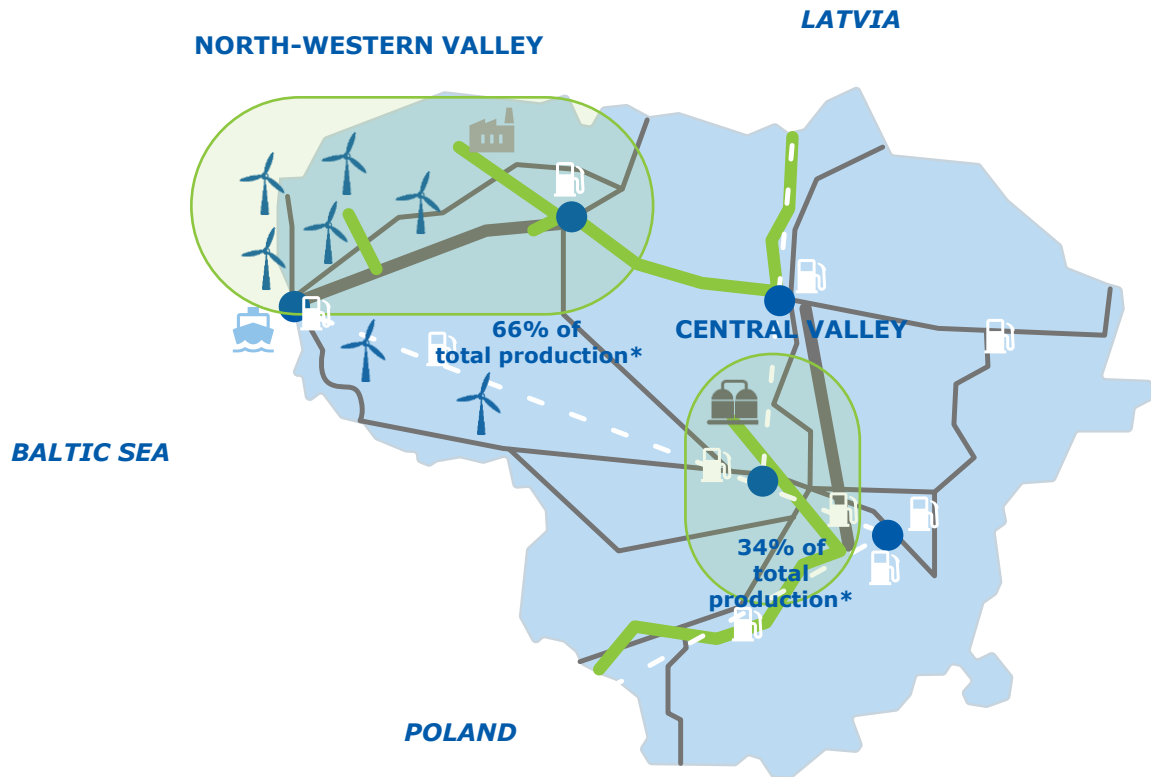
# Hydrogen targets for 2050



# Hydrogen infrastructure in Lithuania

Two regions in Lithuania will be the main hydrogen production centers

*\*Rough estimates of production potential for 2050*



# Lithuanian hydrogen potential 2050

Hydrogen generation capacity growth and grid infrastructure development will be driven by growing hydrogen demand in the domestic and regional industrial centres



Lithuania's offshore wind target – **4,5GW**



Lithuania's onshore wind target – **10 GW**



Lithuania's solar energy target – **9 GW**



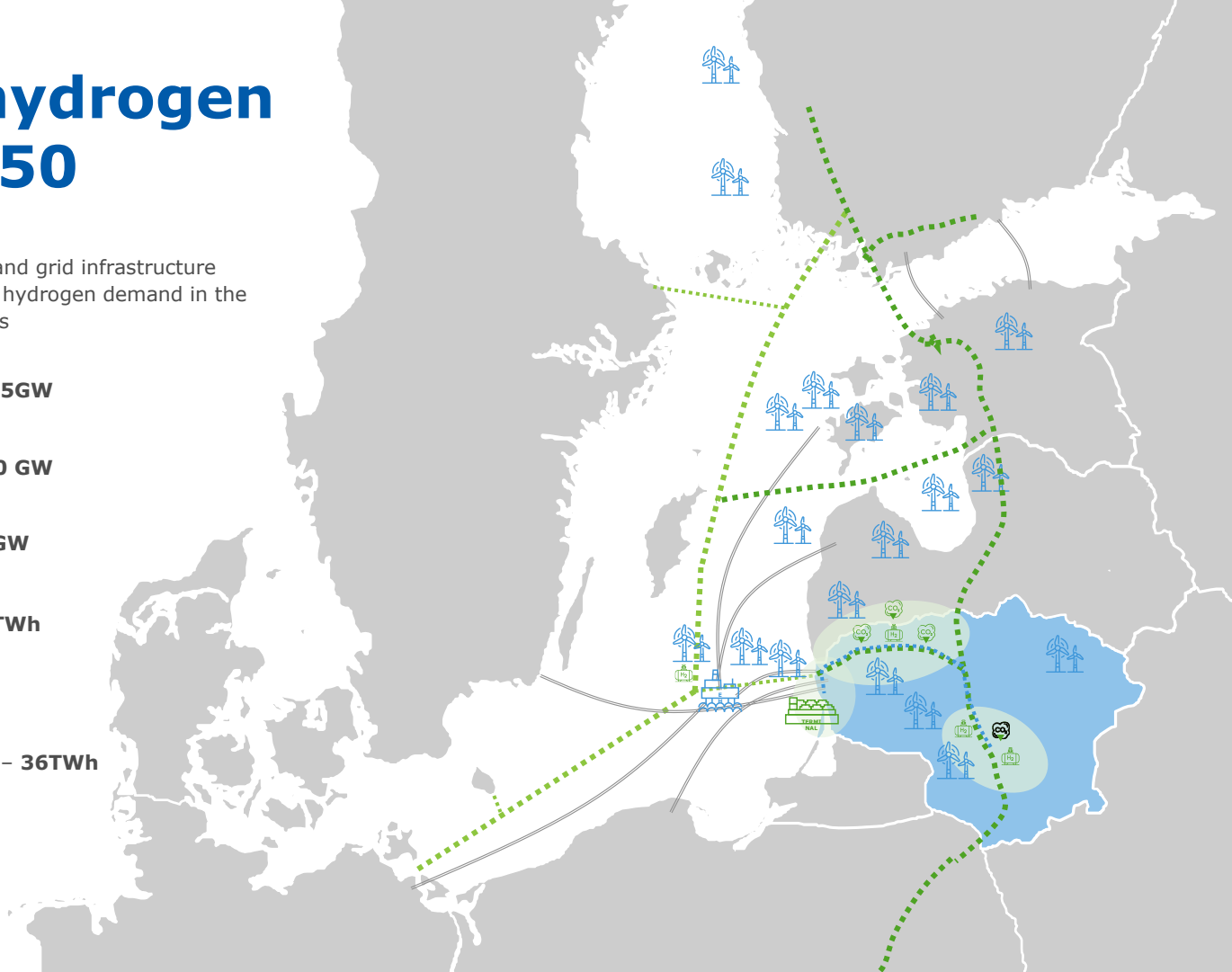
Lithuania's hydrogen demand – **24TWh**



P2G capacities – **8,5GW**



Electricity demand for P2G industry – **36TWh**



► Thank you

