

The Vision of the **Baltic** **Energy Ecosystem**

Paulius Kozlovas | Head of Technology Development



1 Change in Energy Flows



Pipelines



Tankers

Energy flows →

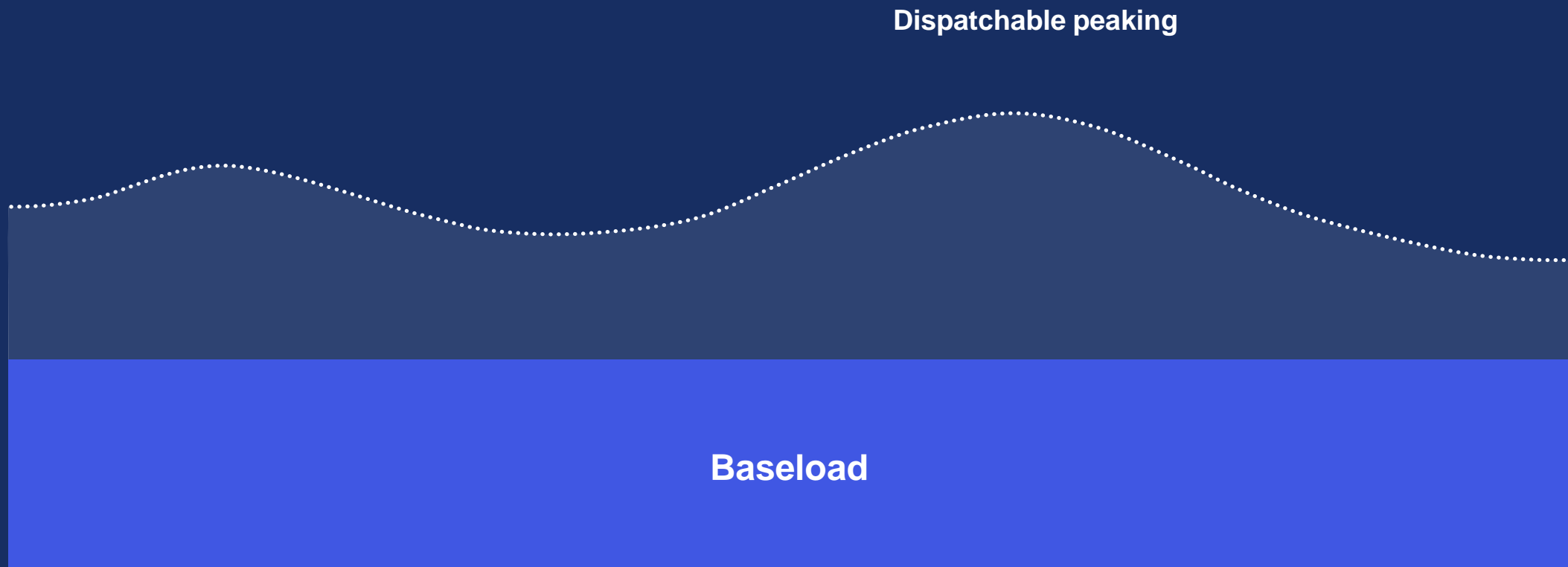
1 Change in Energy Flows

Nordics and the Baltic States will become substantial suppliers of both electricity and hydrogen for Central Europe and in particular – Germany.



2 Change of the Energy System

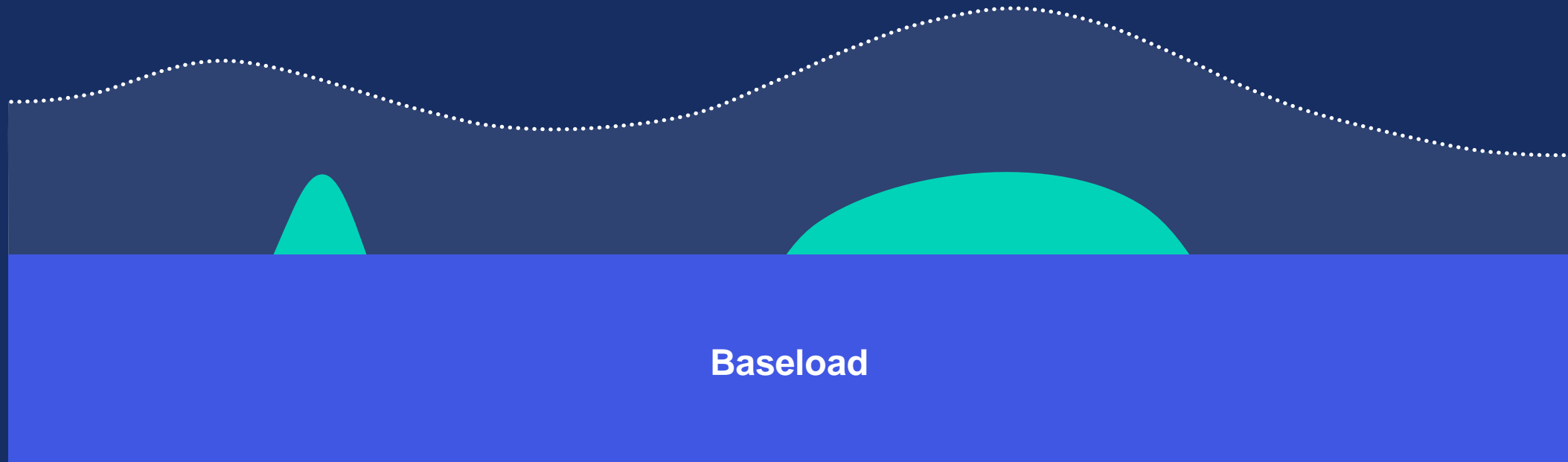
Traditional
Energy
System



Dispatchable peaking Energy demand

2 Change of the Energy System

Traditional
Emerging
Energy
Renewables
System

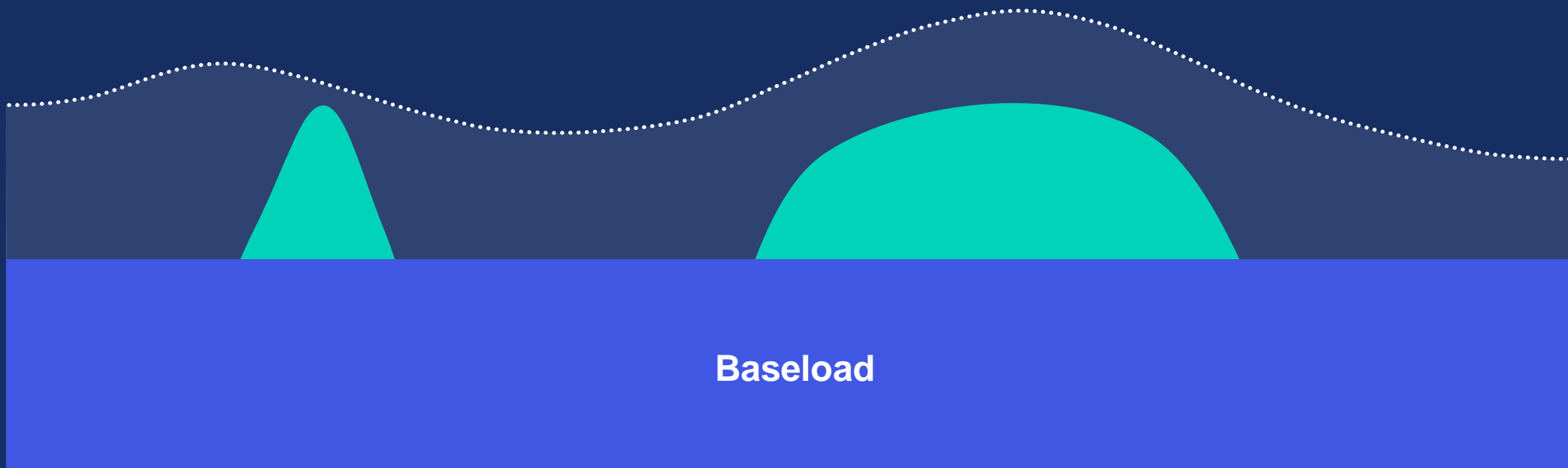


Baseload

Dispatchable peaking Energy demand Energy RES generation

2 Change of the Energy System

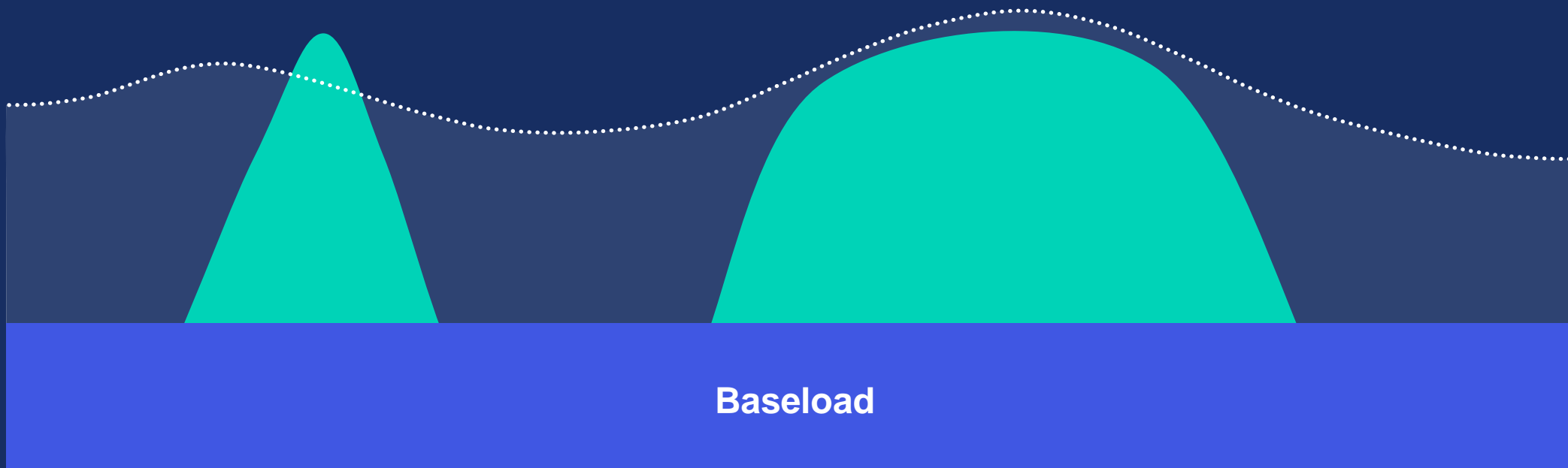
Emerging
Renewables



Dispatchable peaking Energy demand Energy RES generation

2 Change of the Energy System

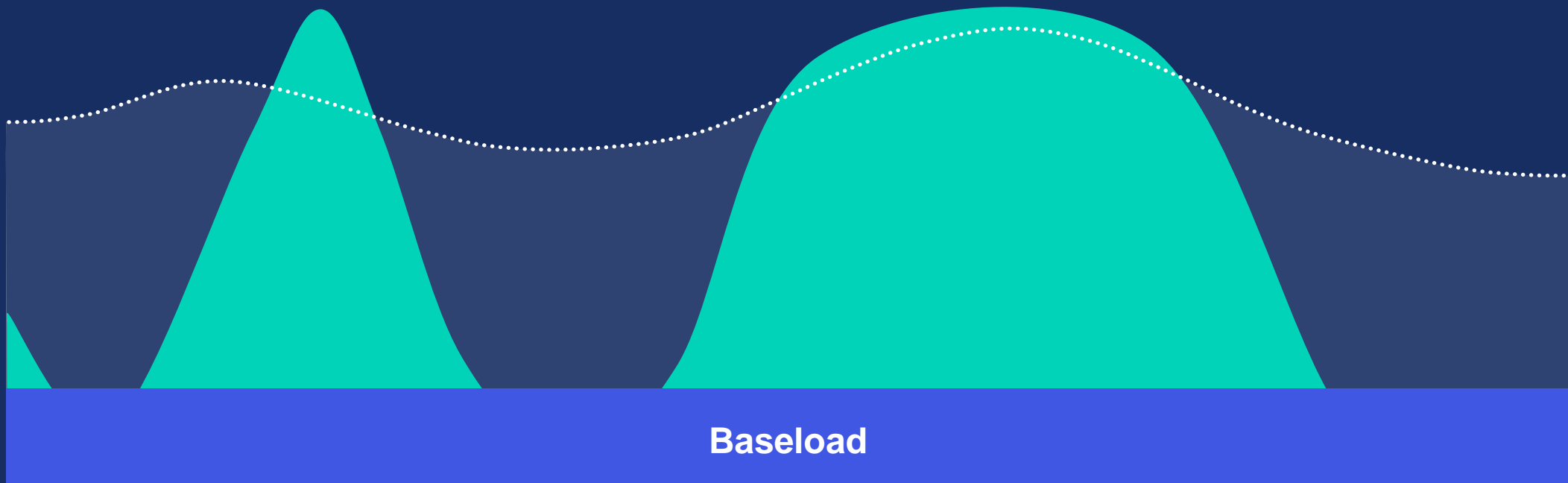
Emerging
Renewables



Dispatchable peaking Energy demand Energy RES generation

2 Change of the Energy System

Emerging
Renewables

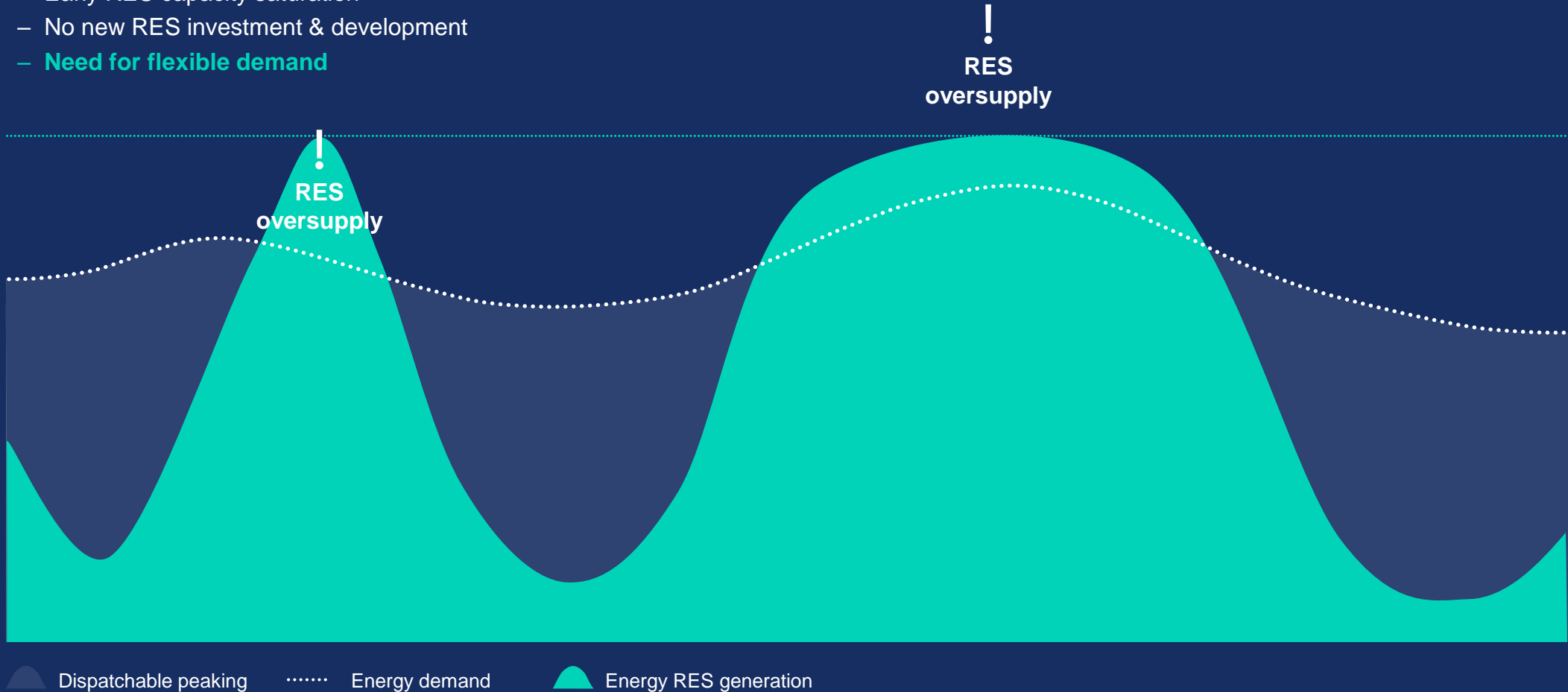


Dispatchable peaking Energy demand Energy RES generation

2 Change of the Energy System

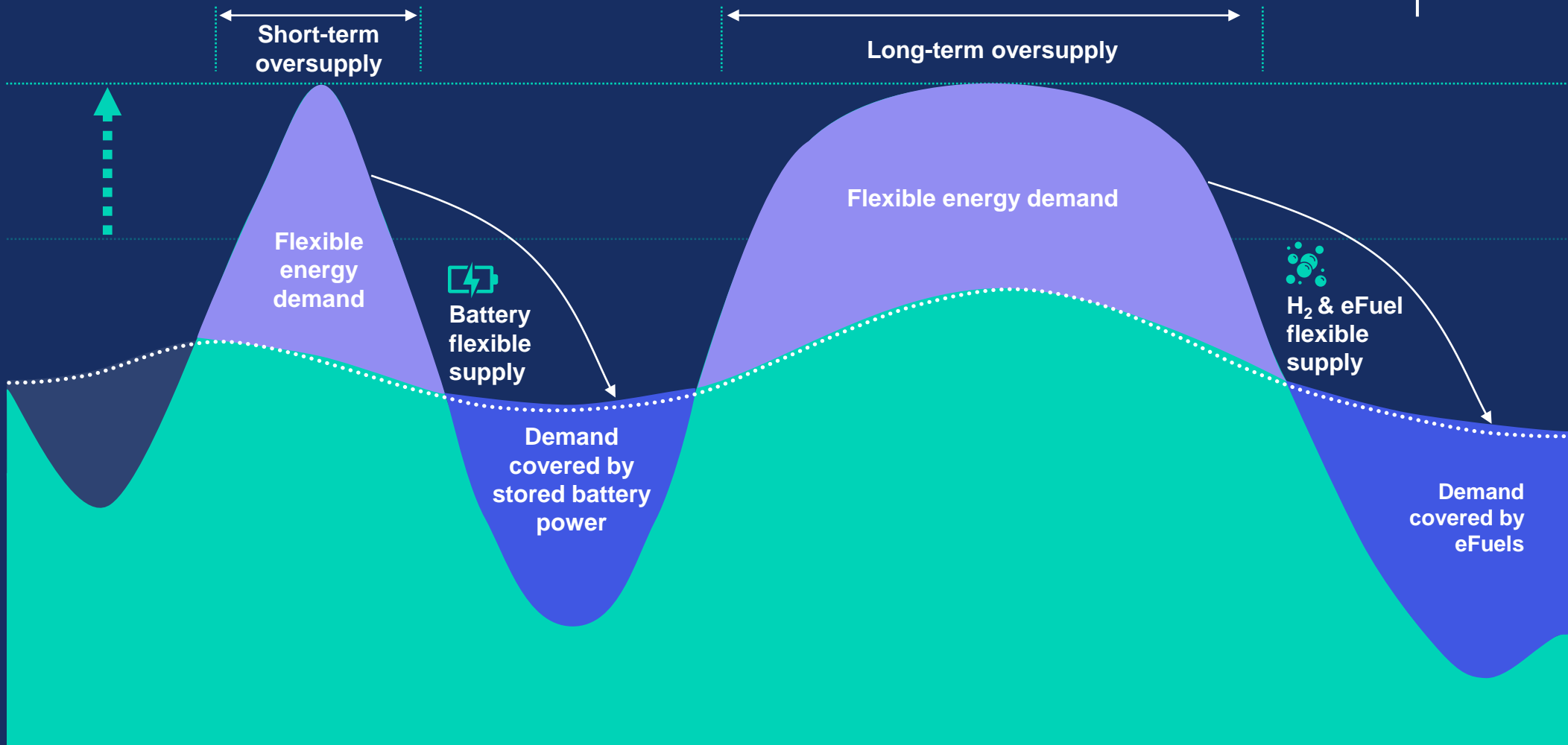
RES WITHOUT FLEXIBLE DEMAND EFFECTS:

- Negative energy price periods
- Early RES capacity saturation
- No new RES investment & development
- **Need for flexible demand**



2 Change of the Energy System

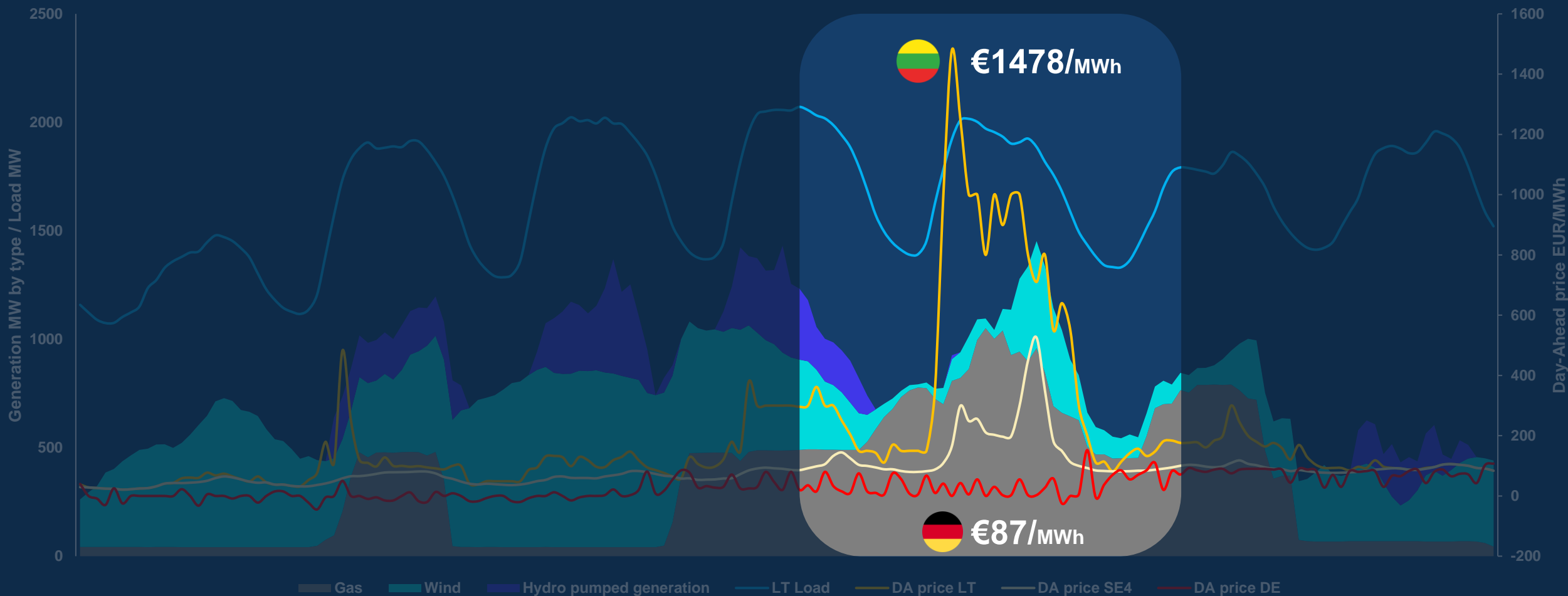
New Energy Model



Dispatchable peaking Energy demand Energy RES generation Flexible demand Demand covered

2 Change of the Energy System

Load, generation (MW), LT, SE4 & DE Day-Ahead prices (EUR/MWh)



**Baltic states are primed to lead
this energy transition**

Renewable Potential

Baltic States potential combined:



26 GW
offshore wind



18 GW
onshore wind

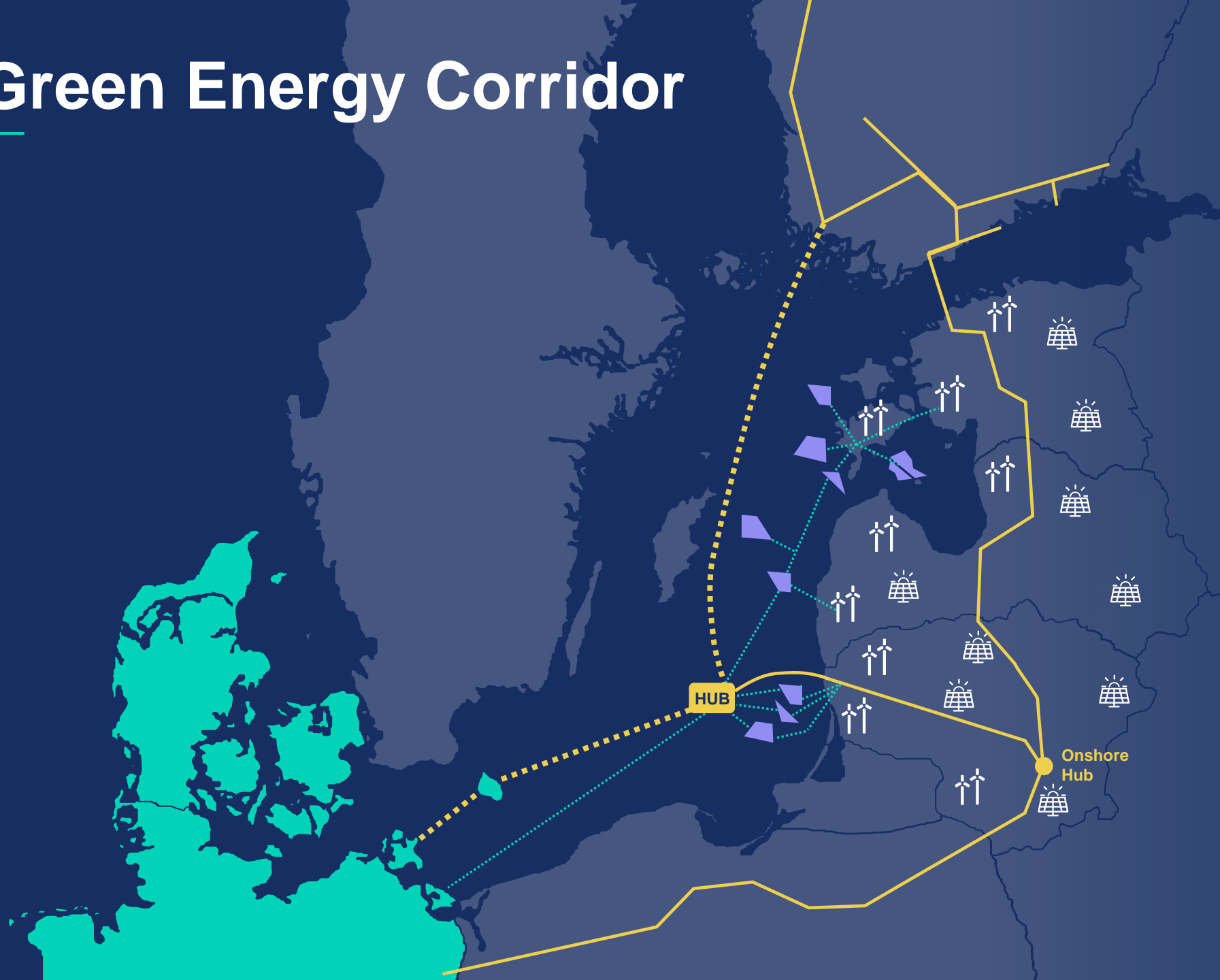


10 GW
solar

~7x

The full potential of the Baltic States could surpass their energy consumption by seven times.

Green Energy Corridor



Expected timeline

- 2030**
First offshore wind parks in Baltics
+1 GW Onshore P2X Hub
- 2032+**
Offshore Hub operational
- 2035+**
+4 GW Offshore Hub P2X operational
Offshore Hub-to-Bornholm H2 link established
- 2038+**
Offshore Hub-to-Finland H2 link established
- 2040**
Onshore integration to H2 Backbone

Key Takeaways

1

Change in
**Energy
Flows**

2

Change of
**the Energy
System**

3

Change of
**Business
Models**

Thank You

