

Mainstreaming Renewable Energy in Industry

European Energy Forum

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➤ **Current role of wind energy in the European economy**

- **16% of Europe's electricity demand.**
- **Jobs: 300,000**
- **Factories: 248**
- **New Investments 2020: €43bn**

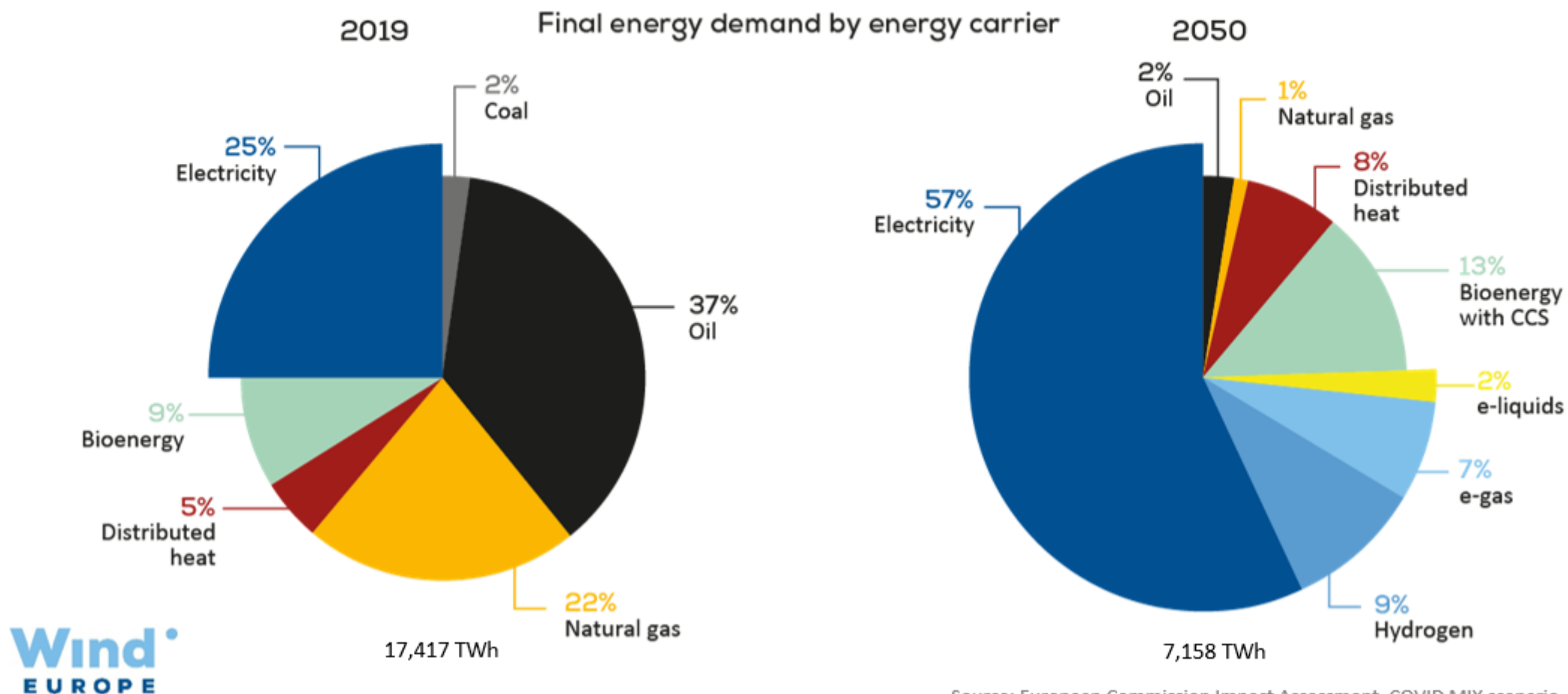
➤ Future expectations

➤ How to deliver Renewables to Industry

➤ Recommendations to mainstream Renewables in Industry

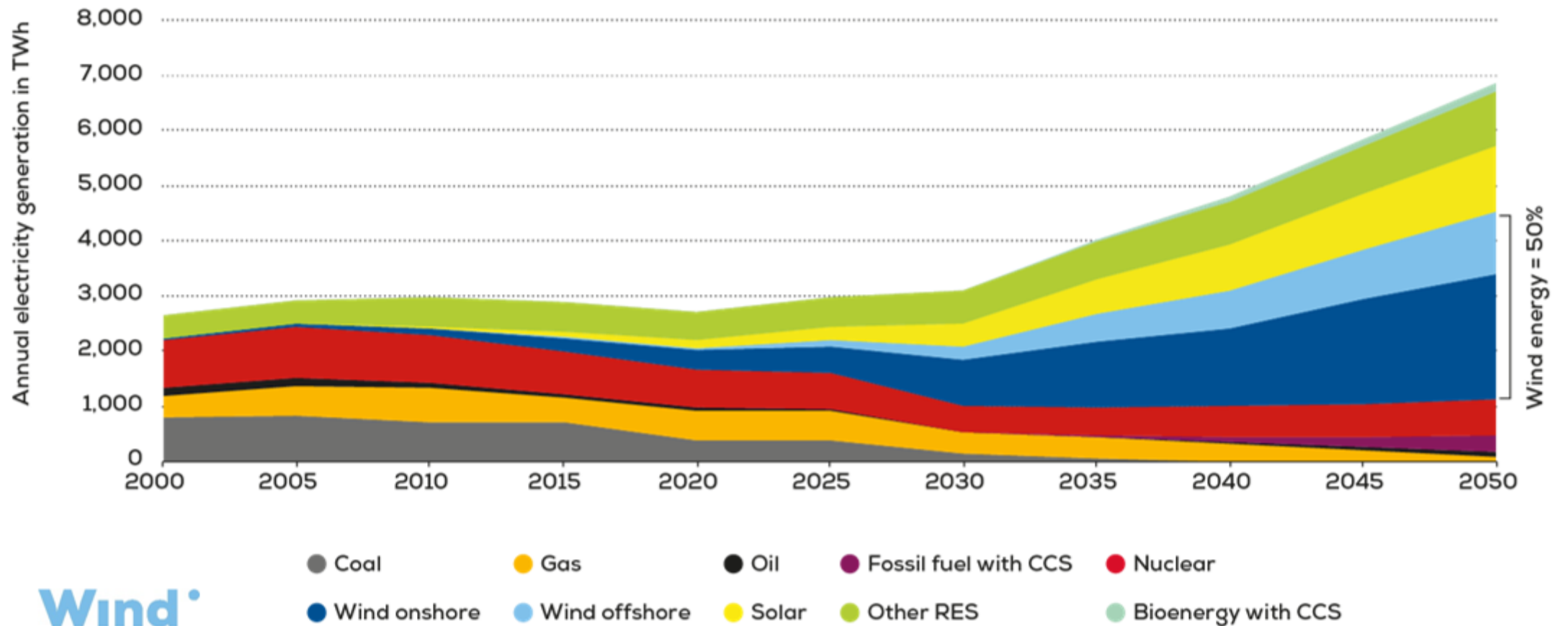
- Current role of wind energy in the European economy
- **Future expectations** - “the meaning of decarbonising the industry”
- How to deliver Renewables to Industry
- Recommendations to mainstream Renewables in Industry

Direct and indirect electrification will meet 75% of energy demand by 2050

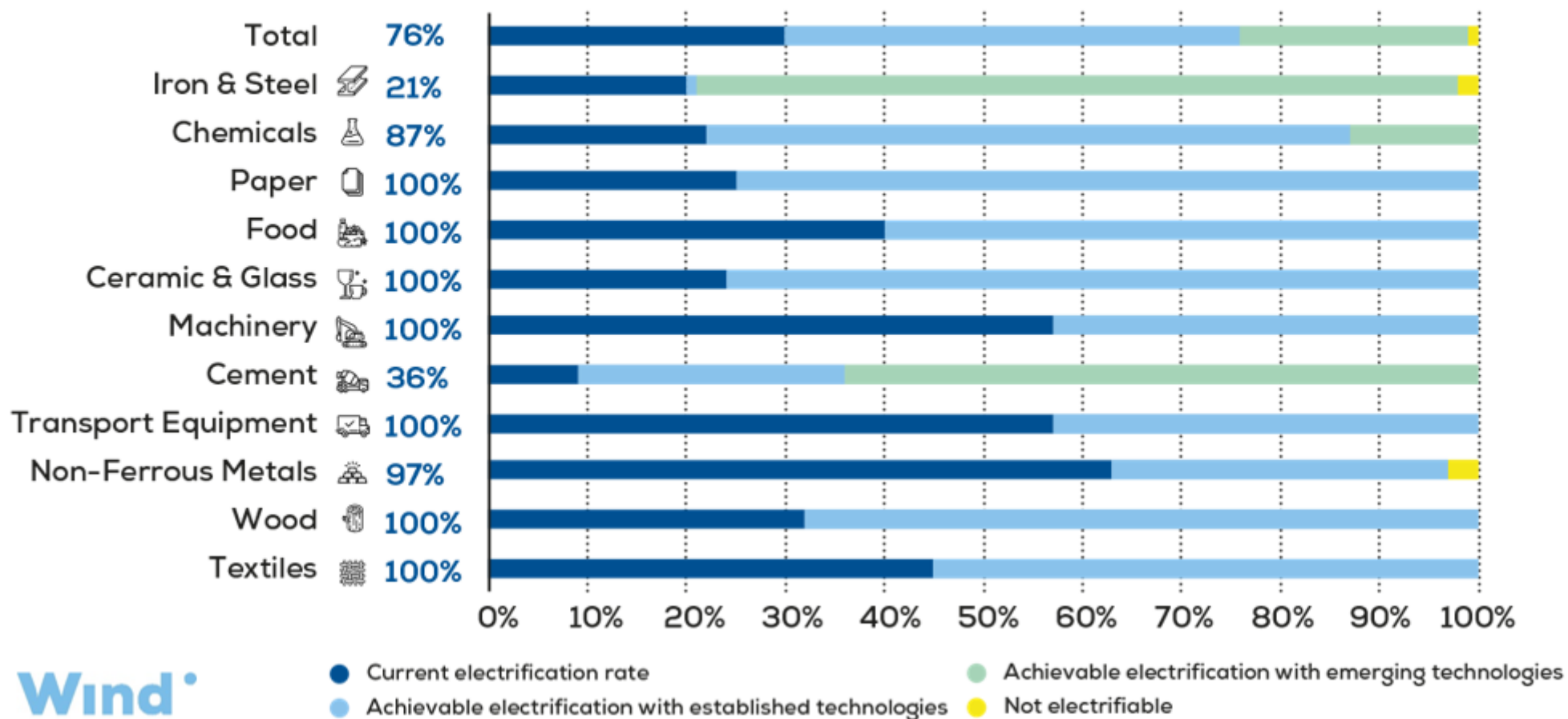


Source: European Commission Impact Assessment, COVID MIX scenario, 2020

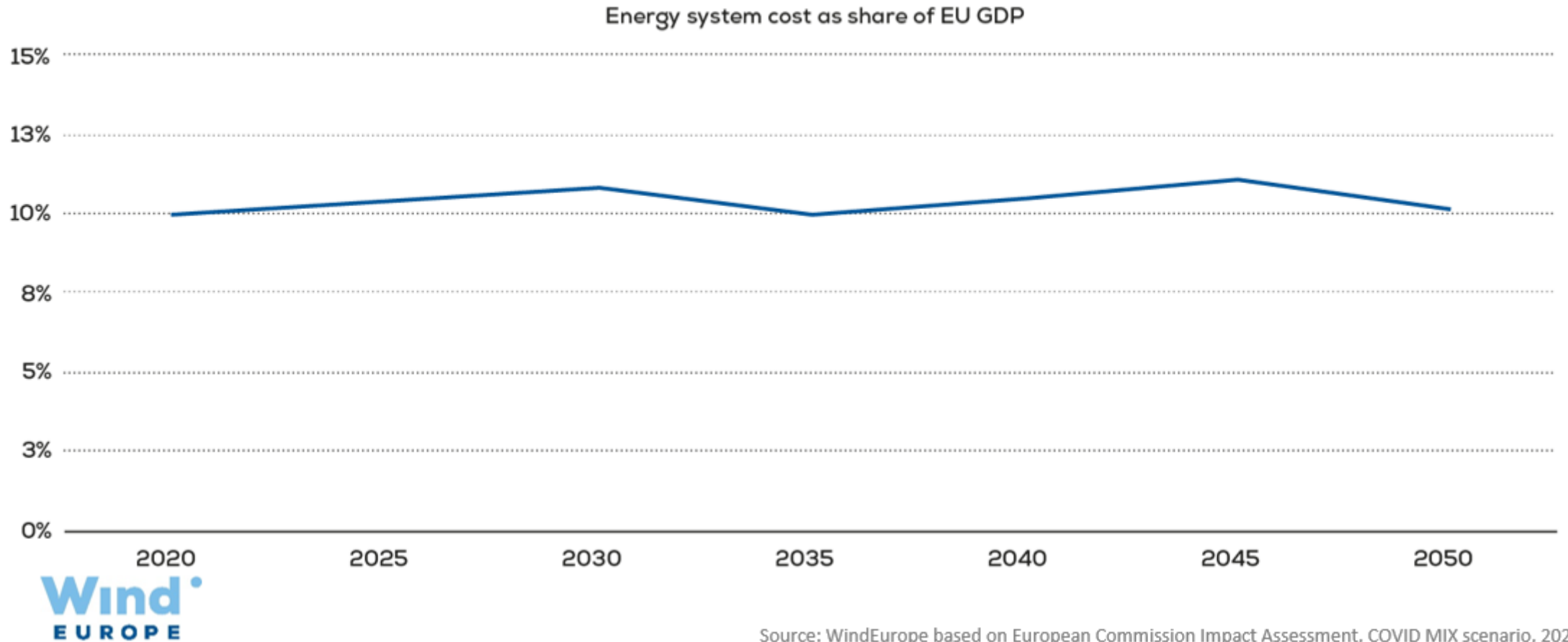
Demand for electricity will more than double by 2050 with wind energy meeting 50%



76% of Europe's industry power and heat demand can be electrified with today's technology

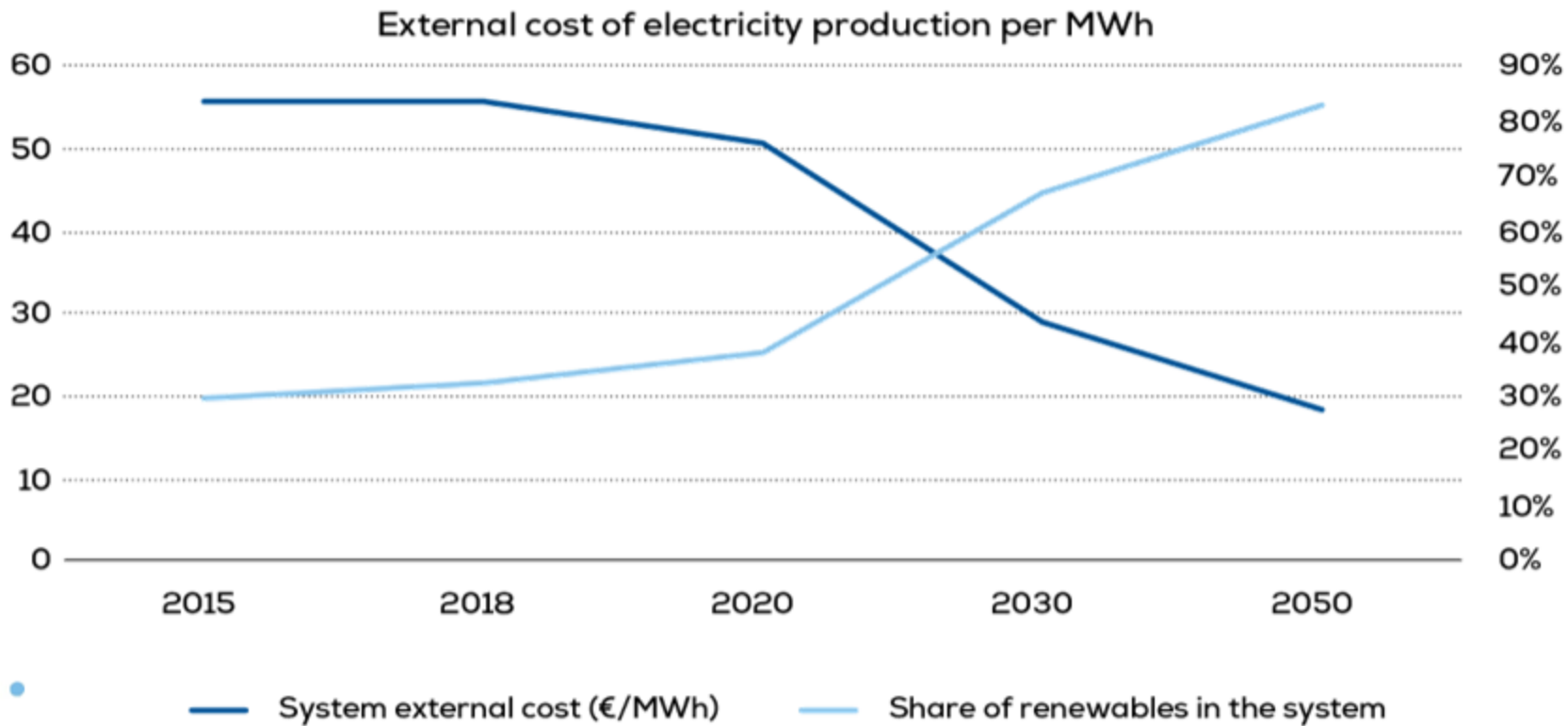


A climate-neutral energy system will cost the same as a share of GDP as today's energy system



Source: WindEurope based on European Commission Impact Assessment, COVID MIX scenario, 2020

And increasing renewable energy helps decrease energy system external costs: climate, health, pollution, environment and resources



Sources: ETIPWind based on Trinomics and Eurostat

- Current role of wind energy in the European economy
- Future expectations
- **How to deliver Renewables to Industry – key tools & bottlenecks**
 - Key tool: Corporate PPAs
 - Key bottlenecks: Permitting & Grids
- Recommendations to mainstream Renewables in Industry

- Current role of wind energy in the European economy
- Future expectations
- How to deliver Renewables to Industry
- **Recommendations and final asks....**
.....to mainstream Renewables in Industry

Final asks to mainstream Renewables in Industry

1. Support the European Commission's proposal:

- 40% renewables
- all sub-targets to be met exclusively with renewables

2. Accelerate the development of Corporate renewable PPAs:

- simplifying the rules on Guarantees of Origin

3. Approve a unique and clear definition of renewable hydrogen

- ...that applies across EU legislation
- “renewable electricity combined with electrolysis”

4. Support the 50% target for the use of renewable hydrogen in hard-to-abate industry

- creating the conditions for its success (i.e., Contracts for Difference to cover the cost gap between renewable and grey hydrogen, as renewable hydrogen scales up to competitiveness)