# New trends in the European electric power business

7<sup>th</sup> July 2020

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### **Diversified energy transition policy drivers**

Together with climate change, other important policies are accelerating the transition

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#### Emission reductions will transform the energy sector



Decarbonized power and ever more efficient uses will deliver most of the GHG reductions



Source: McKinsey Net-Zero Europe study, 2020

#### **2030 EU renewable energy targets**



Increased ambition implies more than doubling wind & solar and extra-efforts in end-use sectors



electricity (RES-E%)

Sources: 1. European Commission, EC's 2030 Target Plan Impact Assessment policy scenarios (excluding ALLBNK scenario). 2. Enerdata. 3. internal EU Member States National Energy and Climate Plans assessment 4. EC's 2030 Target Plan Impact Assessment policy scenarios (using upper capacity values – excluding ALLBNK scenario). UK excluded.

## **RES deployment in major European Countries**

Europe should accelerate investments in renewable resources to limit rising temperatures to 1.5C by 2050



\* Hydro excluded Source: BNEF Gr

## **Deeper decarbonization requires more electrification**

enei Paris targets will require at least 60% of electricity penetration in the EU final energy demand

		Today	2030	2050
EU economy	EU economy decarbonization vs 1990	22%	55%	100%
	Direct electrification rate	23%	31%	60%
Transport	Direct electrification rate	2%	8%	63%
Buildings	Direct electrification rate	33%	42%	72%
Industries	Direct electrification rate	32%	37%	46%

Source: "Sustainable paths for EU increased climate and energy ambition" Compass Lexecon, Enerdata and Enel Foundation, 2020



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