

Sector coupling: Towards a renewables-based system

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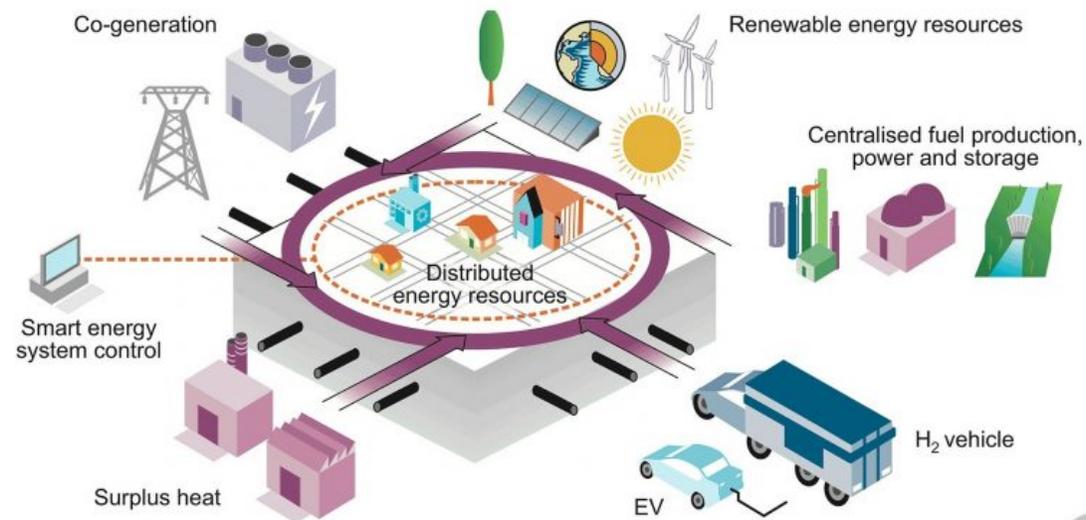


Sector Integration

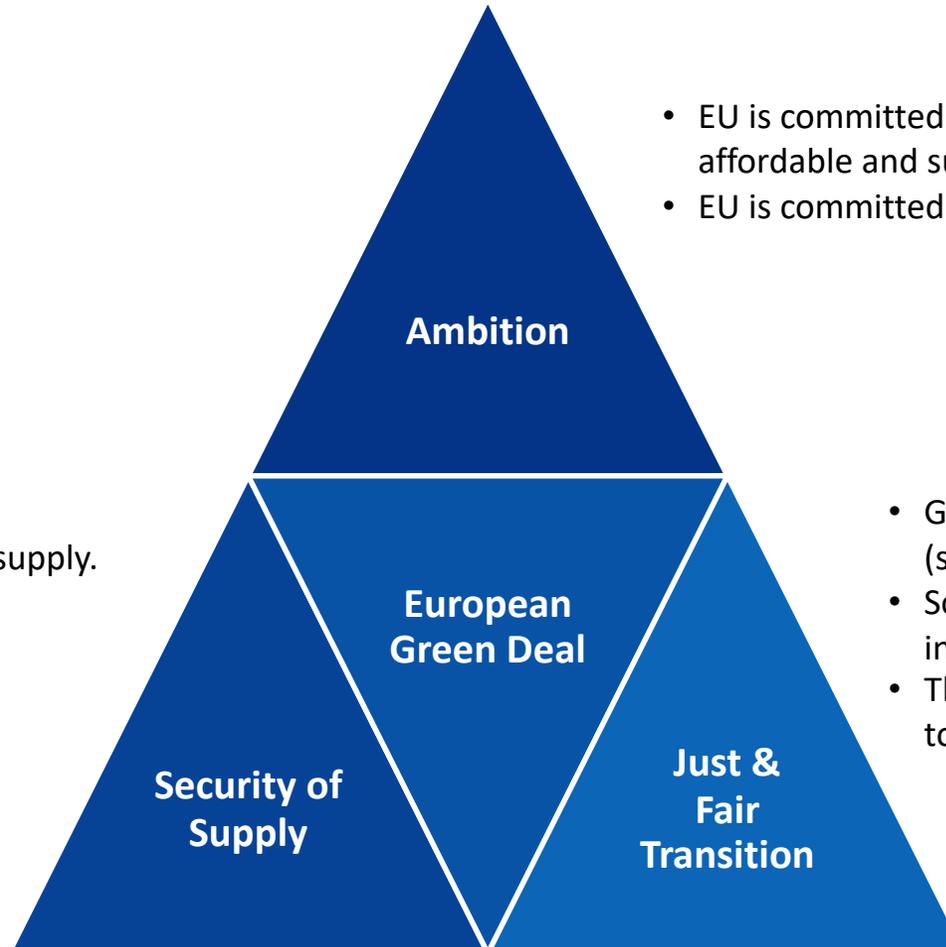
The integration of the **power, transport, industry, heating and cooling and building sectors through progressive electrification.**

Sector Coupling

“The transition to a zero-carbon energy sector is therefore meant to imply, along with a **progressive electrification, a shift towards a more and more decarbonised gas and a closer interaction between the two.**” (Florence School of Regulation, FSR)



European Green Deal: Importance for sector coupling



- Strengthen sectoral integration.
- Increase local/regional security of supply.
- Increase distributed generation.
- Unlock flexibility services.
- Reduce EU energy consumption.

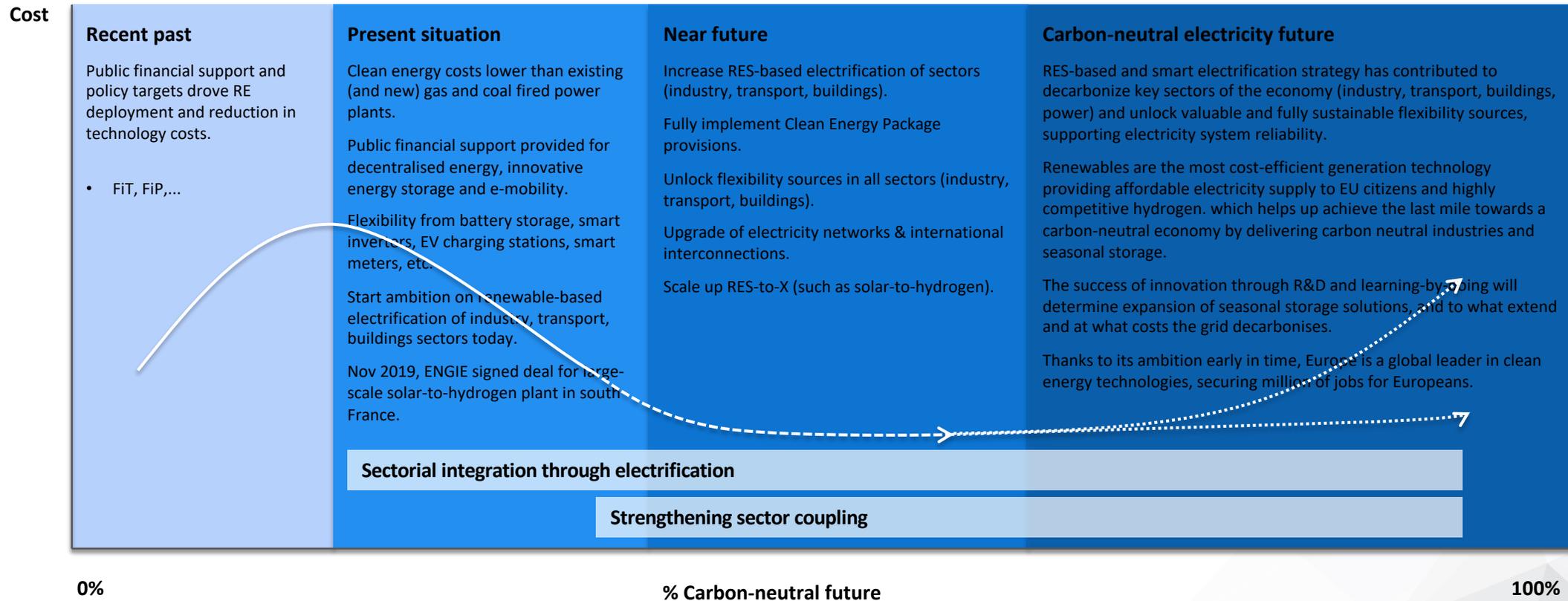
- EU is committed to reduce GHG emissions and to provide secure, affordable and sustainable energy for its citizens.
- EU is committed to become first climate-neutral continent by 2050.

- Global leadership in cutting-edge clean energy technology (solar modules, electrolysers, inverters).
- Solve carbon leakage issue by delivering competitive green industries (steel, chemical, etc) with RES-to-X.
- The EU has the demand and potential for many more than today's 4 million "green jobs" - upskill workforce.

Drivers for sector coupling: A virtuous cycle



Timeline: Long-term vision on a carbon-neutral future



For solar to be at the core
of a **smart, sustainable, secure**
and **inclusive** energy system

Thank you

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