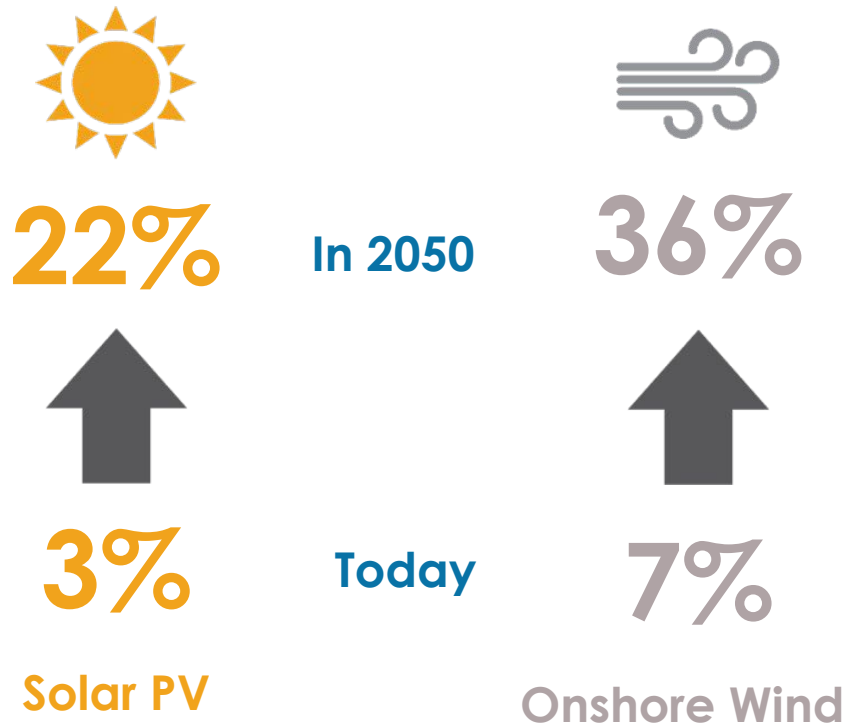




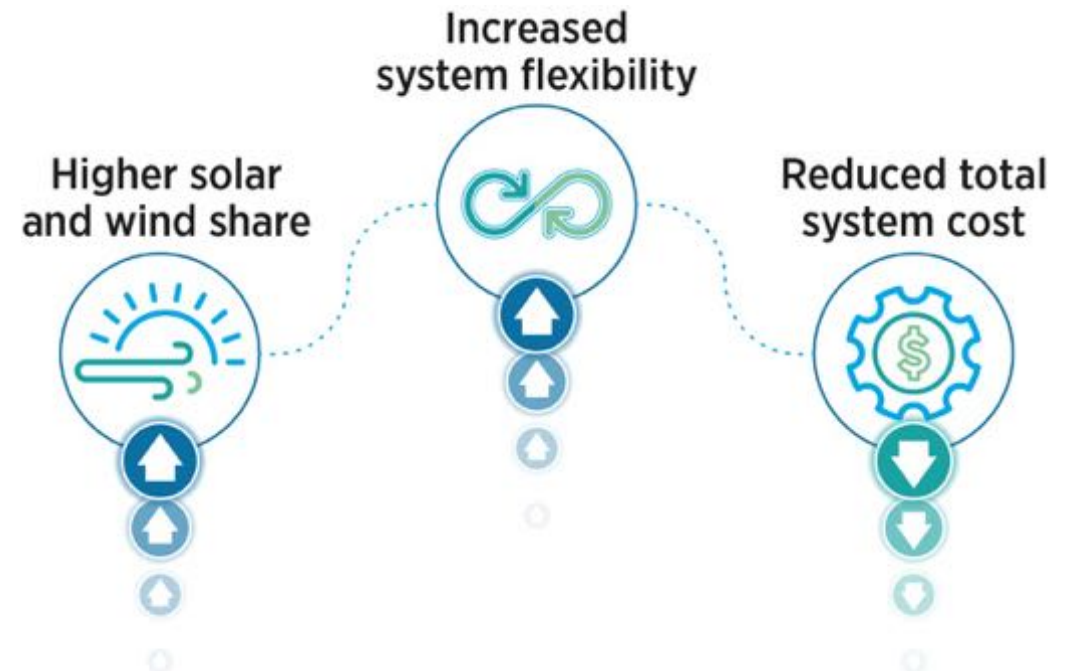
Innovation Landscape for a Renewable-Powered Future

Wind and PV at the core of the energy transition

Onshore Wind and Solar PV electricity shares in the generation mix

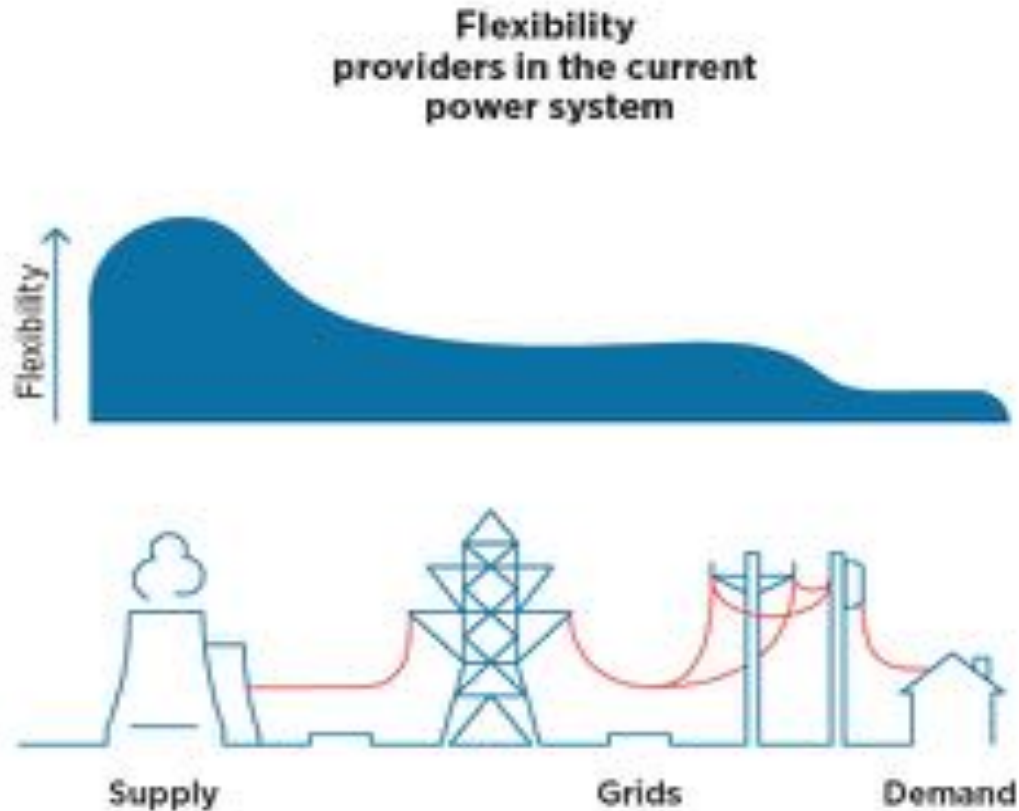


- Wind and PV are **variable energy sources** – addressing variability is crucial for high deployment.
- Today's challenge – **integrating high shares of wind and PV** in power systems.
- **Power-system flexibility** is key to the cost-effective use of renewables.

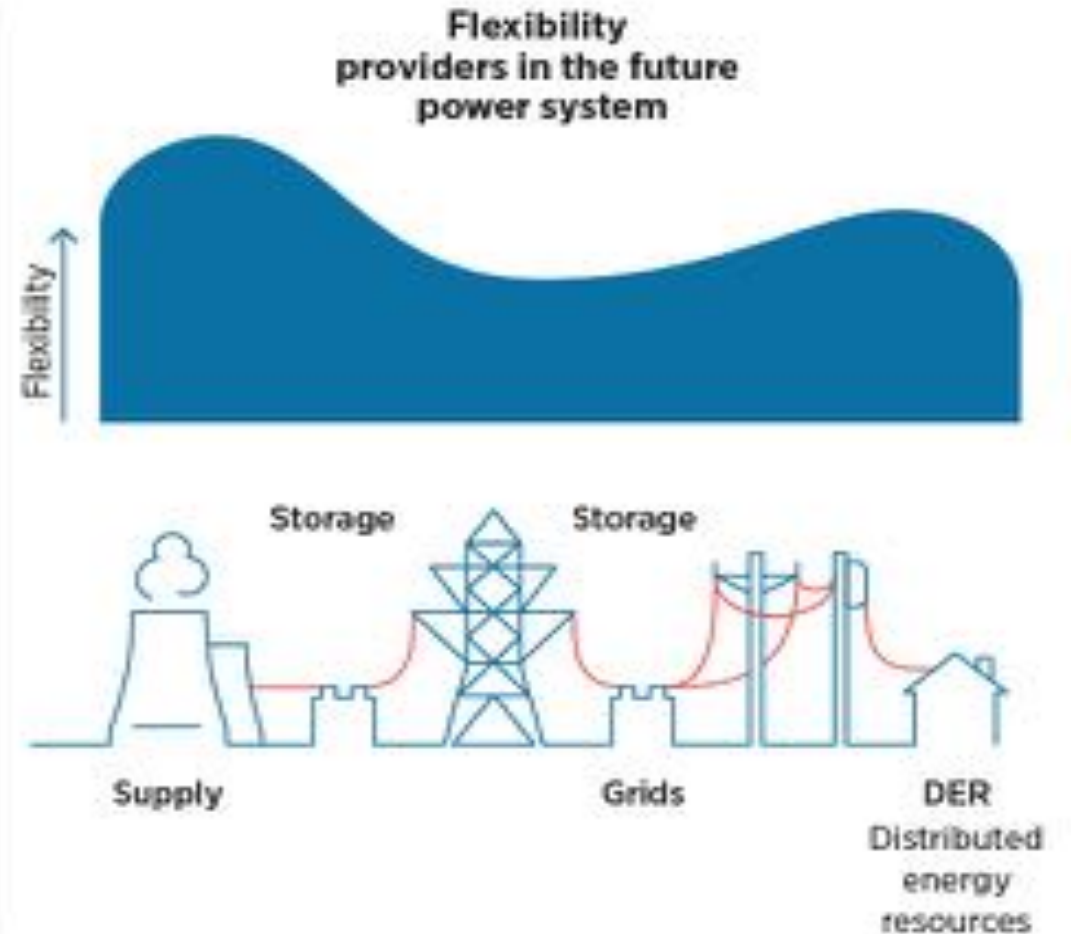


Three innovation trends



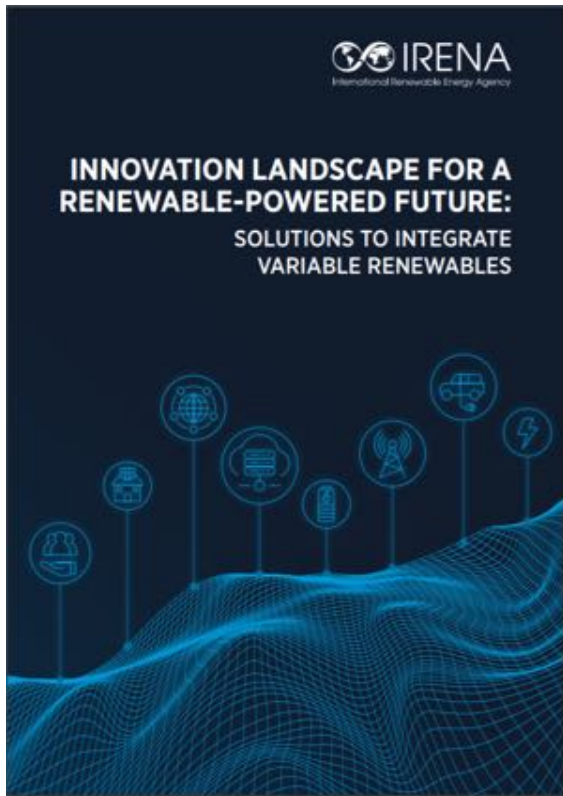


Flexibility sources: Flexible generation

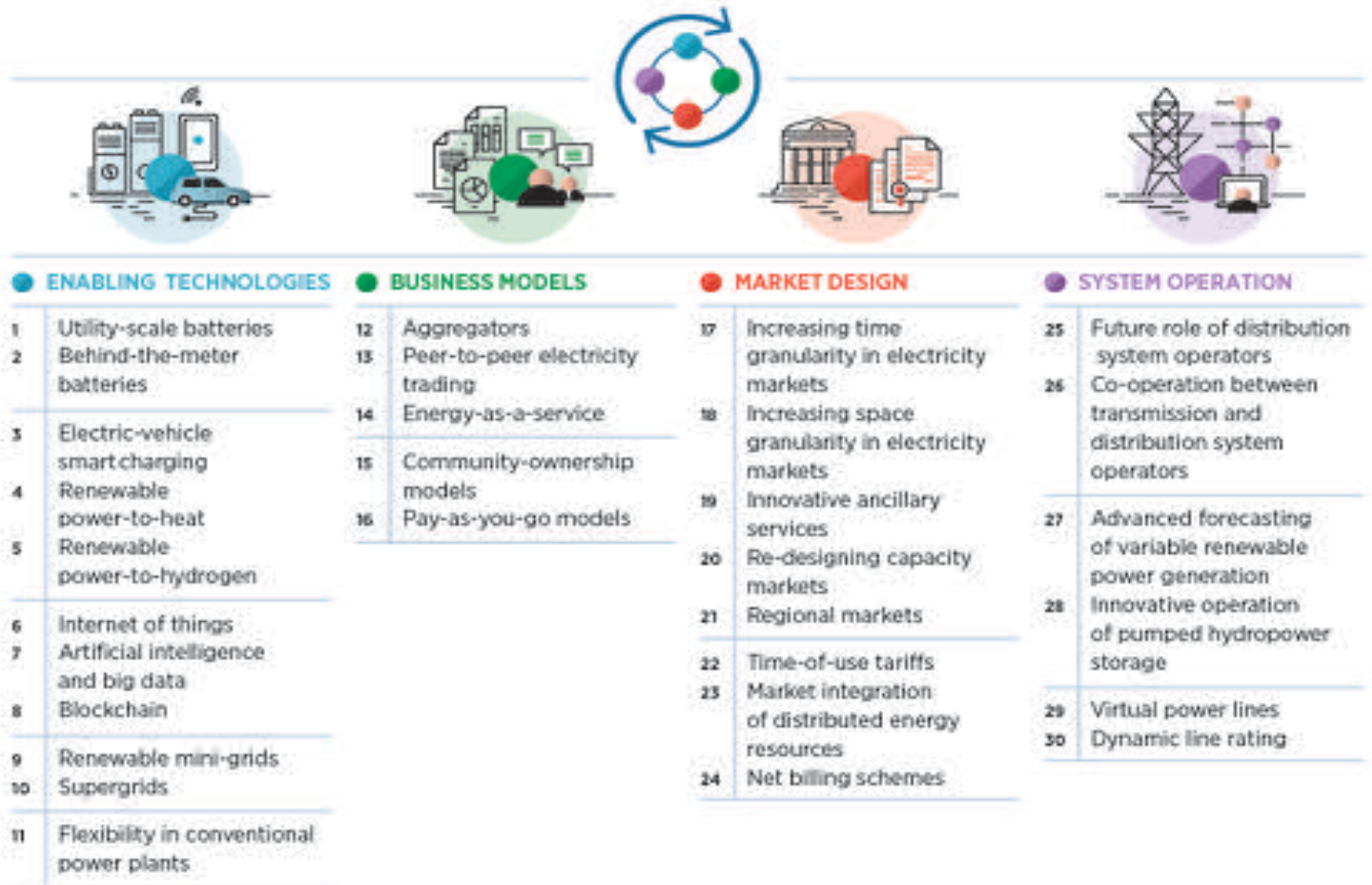


Flexibility sources: Flexible generation; Regional interconnections and markets; Demand response; Storage; Power to X

Systemic innovation for RE integration

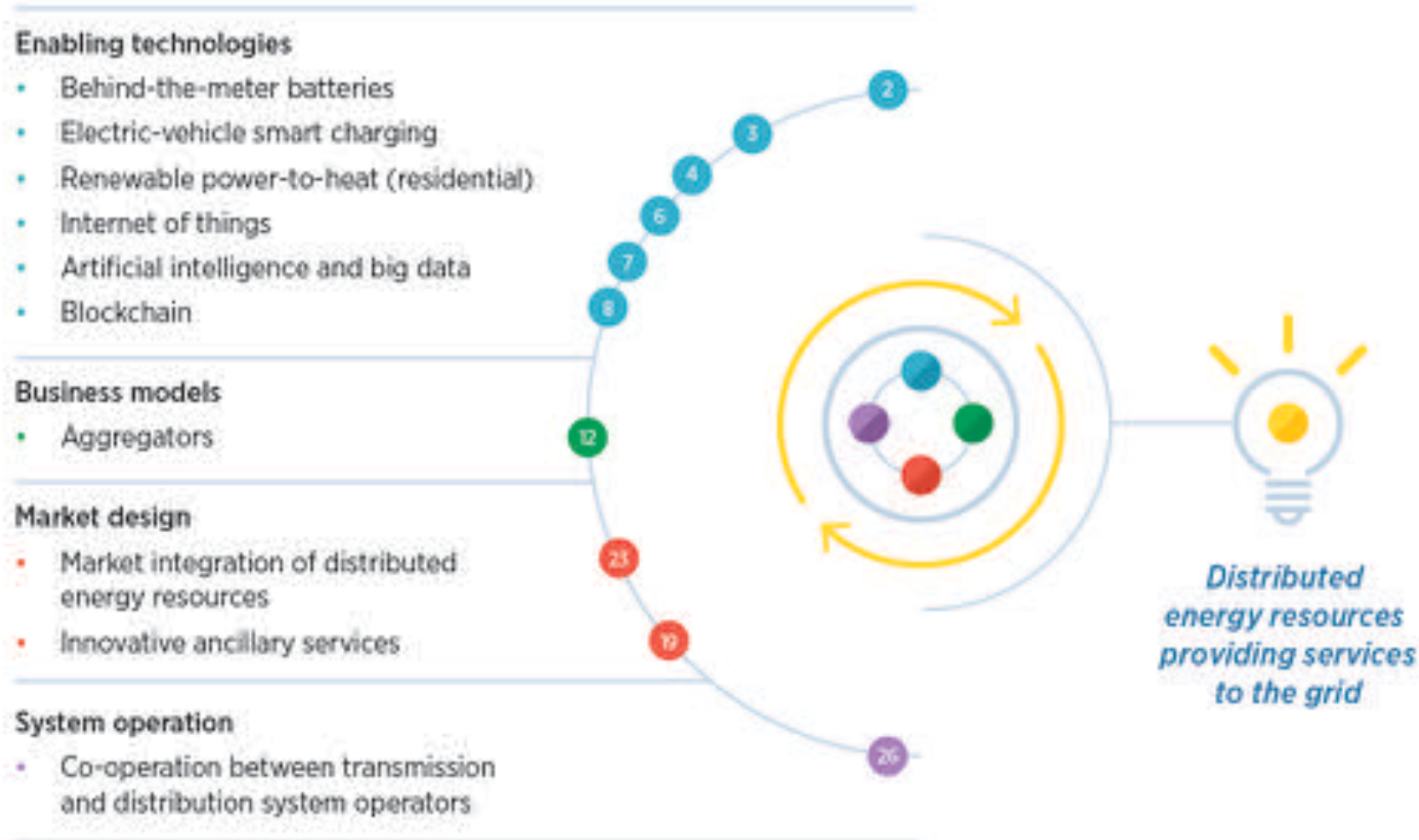


Innovation Landscape Report



Systemic innovation for RE integration

Example of solution: Distributed energy resources (DERs) providing services to the grid



11 solutions explored in depth in the report, including advice on their suitability and impact.