

PORTUGAL RENEWABLE ENERGY SUMMIT 2025

2-3 OUTCULTURGEST LISBOA







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Repowering or retiring: the wind fleet at a crossroads

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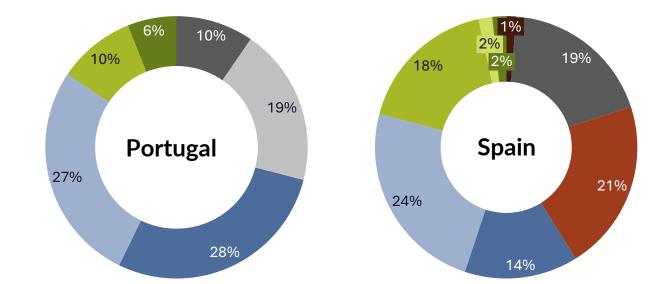
The Portuguese mix relies on wind production

Onshore wind was the second largest power source in Portugal over 2024.

Together with hydro and imports from Spain, they added up to almost 75% of the generation mix in 2024.

Electricity generation mix in 2024

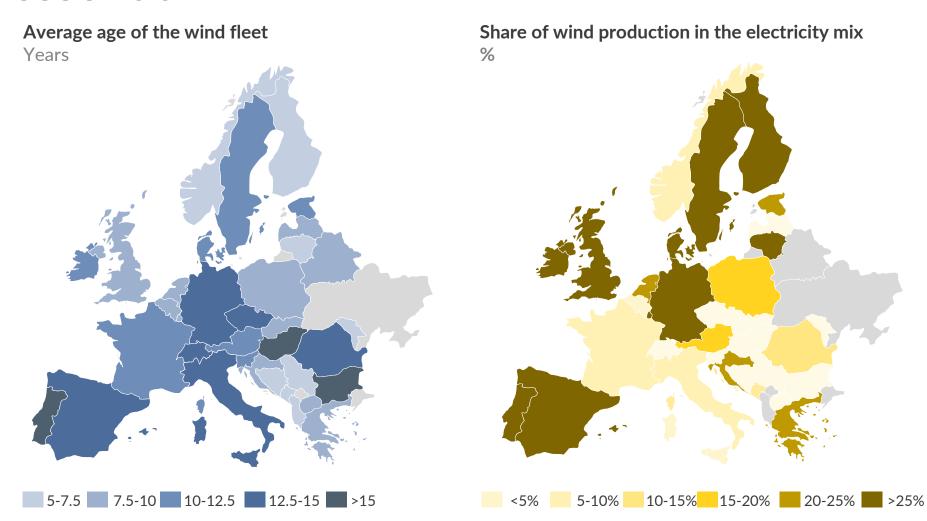
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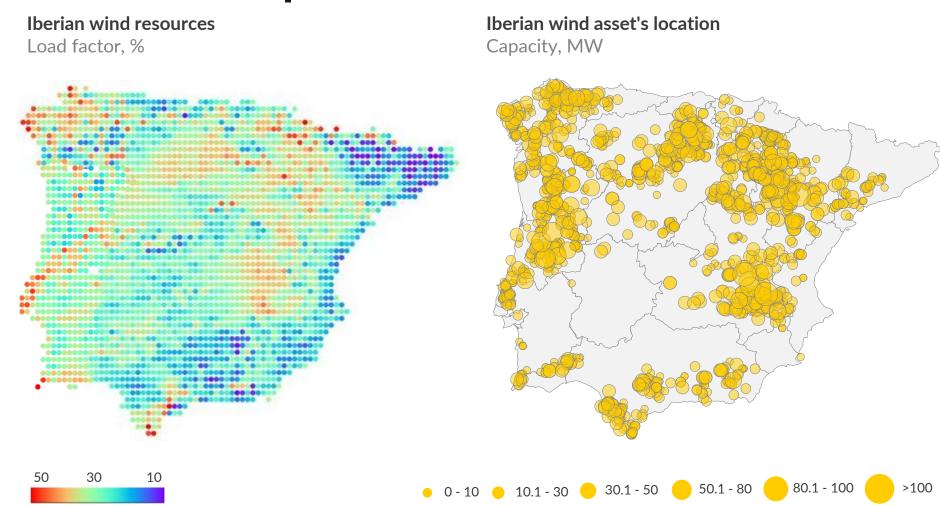


The Iberian wind fleet is one of Europe's oldest and largest, making its renewal essential



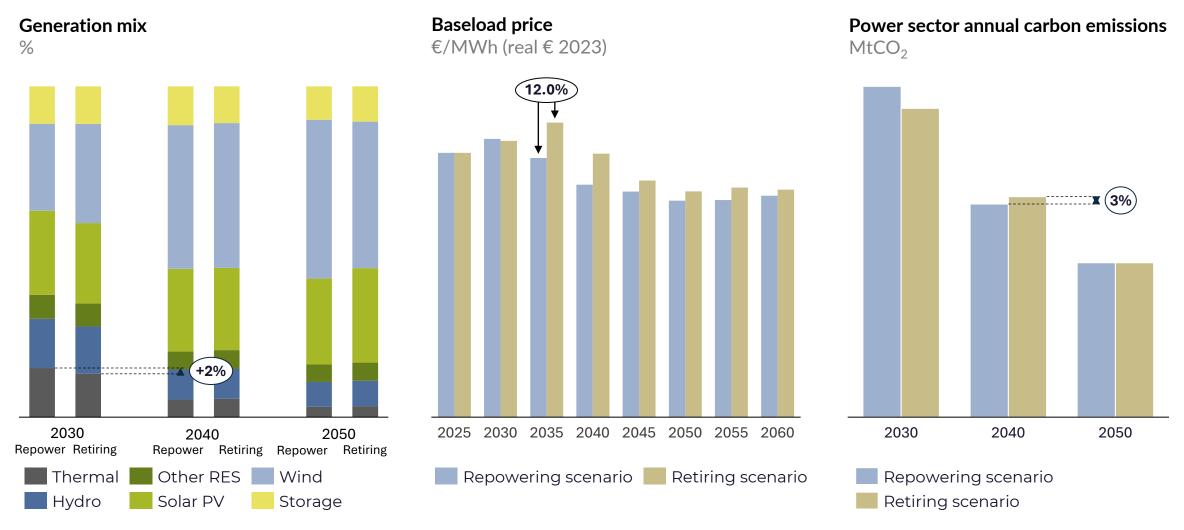


The potential for greenfield development is limited as few high wind resource sites remain unexploited in Iberia





In a retirement scenario, there is an increase in power prices and emissions as existing plants retire





Wind repowering is key for the energy transition

- 1. The **Iberian wind fleet is the main contributor to the power mix in 2024**, underscoring the importance of repowering.
- 2. The fleet is among the oldest in Europe and faces challenges to be repowered, including site scarcity.
- 3. If the wind fleet isn't repowered, the system would face a deficit of wind capacity, causing an increase in prices and higher emissions.















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