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Title: Lisbon wind solar and storage integration

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Can storage replace thermal generation in Portugal?

The pursuit of economic viability by storage facility owners will inherently lead to charging during low-cost hours and discharging during hours that are more economically attractive. Storage can replace thermal generation in constraint markets, easing the grid and supporting Portugal's 2040 phase-out target.

Why is storage important in Portugal?

Storage provides real-time flexibility, enabling participation in balancing markets and maintaining grid stability and inertia, especially in Portugal where these markets are growing. Despite the increase in interconnection capacity between Spain and Portugal, it could experience congestions during non-solar hours.

How has Lisbon's storage policy changed over the past 18 months?

Policy has moved just as fast. In the past 18 months Lisbon introduced a streamlined licensing code, approved EUR100 M in Plano de Recupera#231;&#227;o e Resili#234;ncia grants for 43 storage projects, and is drafting a 750 MVA capacity auction to go live before January 2026.

How much energy will Portugal produce in 2030?

According to the NECP (which also includes the mainland and islands), the power generation sector is expected to reduce emissions by 83 % in 2030 compared to 2005, so the value considered for 2030 should be 4.34 Mton. As this study considers only the values of mainland Portugal, the value to be achieved should be lower.

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