

What we learned from Iberian blackout

or how to manage the grid with 90 GW of intermittent generation

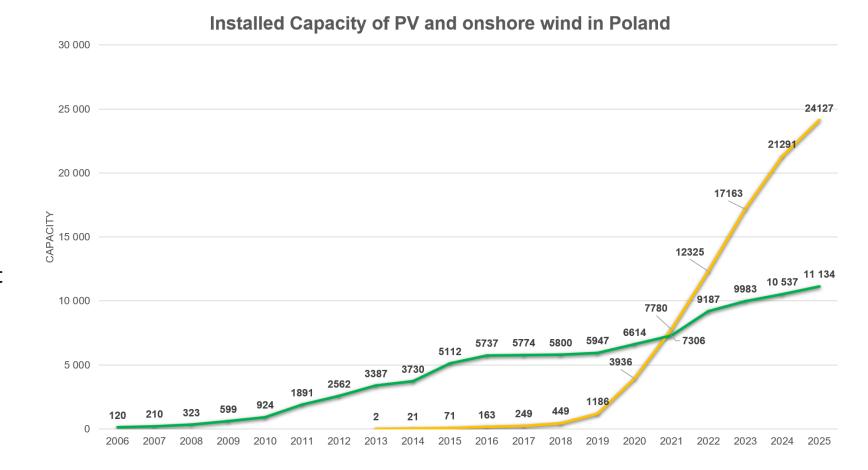
Grzegorz Onichimowski Energy Storage Summit

Warsaw, 23.09.2025 r.

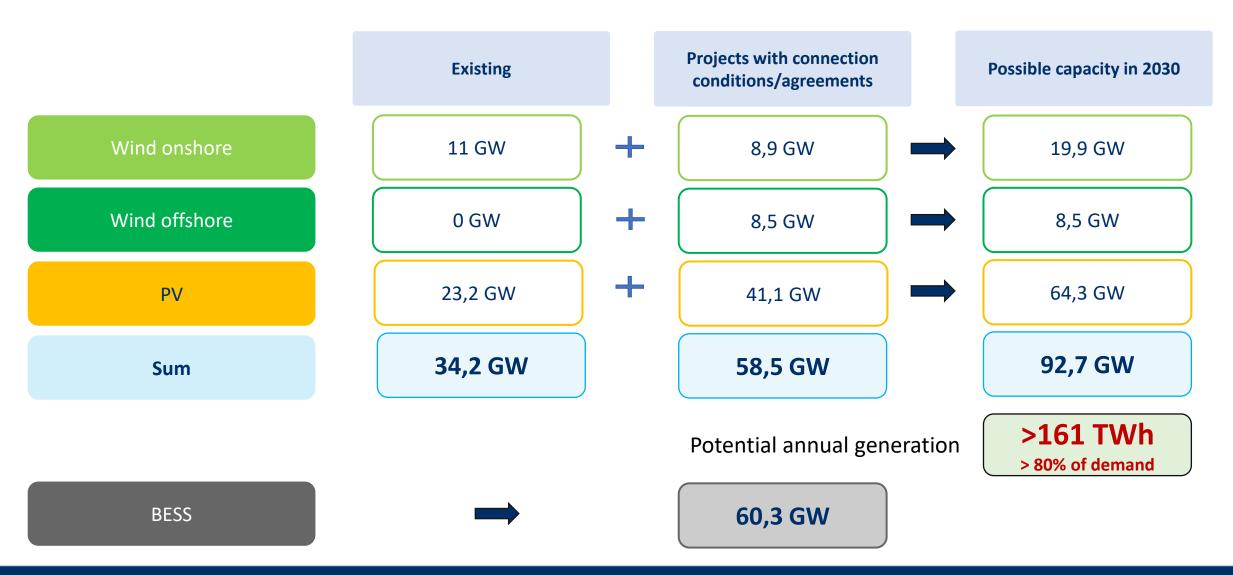


Capacity of renewable soures is rapidly growing

- More than 20 GW of PV in a couple of years.
- Growing number of hours with negative prices
- TSO has to intervene and curtail renewable genertion. At first it happend only on weekends, but now we have to reduce PV generation on weekdays.



Even more renewables are coming



We need flexibility to ensure security of the grid

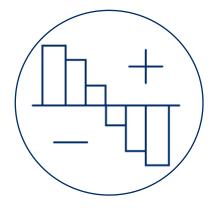
Iberian blackout showed what we need to keep the lights on. PSE and Ministry of Energy is introducing Anti-Blackout Package, which addresses most urgent matters:



More **flexibility** from different sources (generation, consumption, storage)



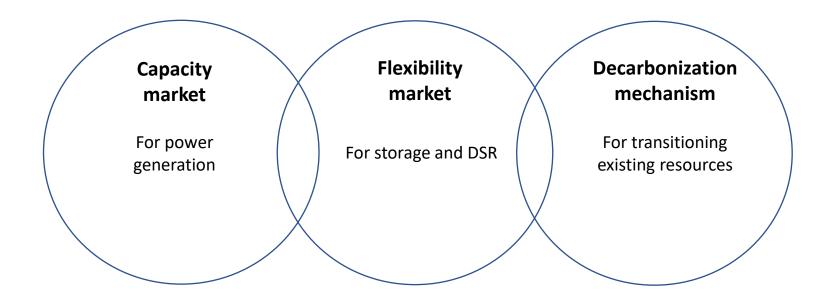
Better visibility and
operationability of the sources
in the grid and using grid
forming capabilities of new
resources



Market incetives as a basic tool for keeping the system balanced at minimal cost and without constant TSOs' intervention

Capacity and flexibility markets are a must haves!

Capacity market is coming to an end. We need new solution consiting of three complementary mechanisms:



Thank you for your attention

