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Inici > BOREAS: Blending knowledge from climate predictions and projections to make the Spanish energy sector more resilient to climate variability and Climate Change

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Description

The aim of the BOREAS project is to blend knowledge from climate predictions and projections to make the Spanish energy sector more resilient to climate variability and climate change, hence contributing to the better management of the current climate and energy crises.

Spain has the objective to reach climate neutrality by 2050, which is part of the larger European plan for a green transition set out in the European Green Deal. To achieve this, the transition framework is centered on the massive development of renewable energy which implies new challenges. The current Spanish energy system is backed up by conventional power plants using fossil fuels that can be dispatched in a flexible way. However, the future energy system is envisaged to rely primarily on renewable energy which is highly dependent on atmospheric weather conditions, weather extremes, and climate change trends. By improving our knowledge of the expected renewable power output and electricity demand in the forthcoming weeks, months, years, and decades, BOREAS will support agrowing integration of renewables into electricity networks, and the development of climate adaptation measures by anticipating extremeevents.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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