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SPAIN

Iberdrola develops supercomputer wind farm forecaster

29 July 2013 by Graham Clews, *Be the first to comment*

SPAIN: Iberdrola has used a leading supercomputer to develop a create speedier and more accurate predictions of proposed wind farms' capacities.



The MareNostrum supercomputer

Working with the Barcelona Supercomputing Centre (BCS), using software run by MareNostrum, one of the world's most sophisticated supercomputers, Iberdrola said it will be able to produce improved estimates of electrical energy production in wind farms before their construction.

Iberdrola said the Sedar Project (High Resolution Wind Simulation) will cut the risk of investment in windfarms by finding the most suitable locations for the installation of wind turbines, both on and offshore. The system is currently in testing.

The project will be able to forecast the output of windfarms throughout their operational lives.

Current modeling systems have been hampered by slow computing times, but Iberdrola claims the BCS infrastructure will eliminate this problem.

Iberdrola has previously developed the Meteoflow project, which used computer modelling to forecast daily electricity production.

The company confirmed earlier this year that it was aiming to bring more than 1.4GW of offshore and onshore wind power online by 2014 as part of a EUR 8.82 billion investment, split between transmission and wind.

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