

News release on wind power grid-connected power generation

Can Europe release grid capacity for new wind farms?

In a new report WindEurope analyses the grid access challenges in Europe and proposes practical, immediate actions to release grid capacity for new and repowered wind farms. The EU wants to increase its wind energy capacity from 220 GW today to 425 GW by 2030 and 1,300 GW by 2050.

Why are so many wind energy projects waiting for a grid connection permit?

Across Europe hundreds of gigawatts of wind energy projects have applied for a grid connection permit and are waiting for an answer. The resulting grid connection queues have led to administrative overload and serious delays in the much-needed expansion of wind energy.

How many energy projects are waiting to connect to the grid?

More than 8,100 energy projects -- the vast majority of them wind, solar and batteries -- were waiting for permission to connect to electric grids at the end of 2021, up from 5,600 the year before, jamming the system known as interconnection.

How does a wind turbine project work?

Power from the project interconnects to the New England grid in Barnstable, transmitted by underground cables that connect to a substation further inland on Cape Cod. Once completed, the project will consist of 62 wind turbines generating 806 Megawatts, enough to power more than 400,000 homes and businesses in Massachusetts.

Are grid integration barriers limiting wind power deployment in northern regions?

Under current power system conditions, grid integration barriers heavily restrict the deployment of onshore wind power in wind rich northern regions, although they are more economical than offshore counterparts.

Will new federal transmission projects unlock new wind and solar projects?

New federal transmission investments will unlock wind and solar projects in Central U.S. and other zones but funding must be spread far wider to meet U.S. climate targets. Four U.S. power transmission projects awarded federal funds in October will address the lack of grid capacity that's hampering new wind and solar power development.

22 · Owned and operated by Apex Clean Energy, the projects will add new renewable electricity to the grid equivalent to powering 130,000 households annually, displacing over 950,000 metric tons of greenhouse gas emissions ...

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