

What is DONG Energy doing in the Faroe Islands?

Dong Energy and its Faroese partner SEV launched a smart grid system at Toftøshavn in the Faroe Islands. The Faroe Islands project uses a virtual power plant to recreate balance in an island power system by decoupling large industrial units automatically, in less than a second from the main power system and thereby avoid systemic blackouts.

How does the Faroe Islands project work?

The Faroe Islands project uses a virtual power plant to recreate balance in an island power system by decoupling large industrial units automatically, in less than a second from the main power system and thereby avoid systemic blackouts. In more technical terms the virtual power plant delivers so-called fast frequency demand response.

How will the Faroe Islands' virtual power plant system work?

Designed to protect against sudden power failures, or decreases in the power production, the virtual power plant system, Power Hub, developed by Dong Energy, will provide the Faroe Islands with a more secure energy supply, allowing them to integrate the five-fold increase in wind generation planned over the next two years.

Can the Faroe Islands be a smart microgrid?

"The energy system in the Faroe Islands is an impressive example of how all available energy resources can be integrated into a smart and innovative microgrid," says Vehkakoski.

Will the Faroe Islands use more green energy in 2025?

Even more conservative scenarios predict that the Faroe Islands' current electricity consumption of approximately 350,000 MWh per year will increase to approximately 450,000 MWh in 2025. "The current discussion recommends using more green energy and especially the potential for wind energy is quite high," says one of the islanders.

How will synchronous condenser technology help the Faroe Islands?

ABB is working with SEV, the main electrical power producer and distributor for the Faroe Islands, to deliver innovative synchronous condenser (SC) technology that will stabilize its power grid as renewable generation replaces fossil-fueled plant. The first SC unit is currently being commissioned on the island of Suðuroy.

SEV has an ambitious goal for the isolated Faroe Islands in the North Atlantic to become the world's greenest group of islands. By 2030, it will be generating 100 percent green electricity from hydropower, solar and wind and ...

Groundbreaking smart grid innovation. The Faroe Islands is the first place in the world where a virtual power

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Dong Energy and its Faroese partner SEV have launched what they believe is a unique smart grid system at Tórshavn in the Faroe Islands. The Faroe Islands is the first place in the world where a virtual power plant is used to deliver fast frequency demand response, which can restore balance in an island power system by decoupling large ...

No doubt the world will continue to take note of SEV and the Faroe Islands as they achieve energy autonomy through global collaboration and lead the world in adopting fully sustainable energy. Hitachi Energy is proud to work with customers like SEV in driving the evolution of the grid itself.

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The Faroe Islands archipelago (group of islands), which are 540 square miles (1,400 square miles) in area, are demonstrating the "world's first" smart grid, and large-scale utilization of ...

The Faroe Islands are aiming for complete sustainable energy supply by creating a smart and innovative micro-grid. Far from continental Europe and surrounded by a vast sea, the Faroe Islands lie in the middle of the North Atlantic between Iceland and Norway.

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