

SolarTech Power Solutions

Is there wind power for communication base stations in Iceland



Overview

Landsnet has reached an agreement with Landsvirkjun to transport electricity generated from the wind farm at Búrfellslundur, marking the first time wind energy will be integrated into Iceland's transmission network. Is wind energy production viable in Iceland?

To be able to determine to what extent wind energy production in Iceland is viable, the annual averages of wind power density and available power need to be compared with the wind resources of other countries, as well as with the capacity of domestic hydro and geothermal power plants.

How does electricity work in Iceland?

Much of electricity in Iceland is generated by hydroelectric power stations. Írafosstöð was built in 1953 and is one of Iceland's oldest hydroelectric plants still operating, located just south of Þingvallavatn. The electricity sector in Iceland is 99.98% reliant on renewable energy: hydro power, geothermal energy and wind energy.

What type of energy does Iceland use?

The electricity sector in Iceland is 99.98% reliant on renewable energy: hydro power, geothermal energy and wind energy. Iceland's consumption of electricity per capita was seven times higher than EU 15 average in 2008. The majority of the electricity is sold to industrial users, mainly aluminium smelters and producers of ferroalloy.

Can wind power be used in Iceland?

The use of wind power for electricity generation in Iceland has hitherto been limited to small wind turbines for off-grid use, and until recently there were no large wind turbines in operation in Iceland. Despite Iceland having a favourable climate for wind power, detailed research into the wind power potential in Iceland is quite recent.

How many power stations are there in Iceland?

We operate fourteen hydropower stations, three geothermal power stations and two wind turbines for research purposes in five operating areas in Iceland. In operating power stations, emphasis is placed on a holistic vision, where prudence, reliability and harmony of the operations with environment and society are the guiding principles.

Can hydropower be used in Iceland?

One aspect of hydropower in Iceland is that the streamflow in rivers tends to exhibit a large annual variation, with larger flow during summer than in winter. Since the annual cycle of wind in Iceland has the opposite phase, with stronger winds in winter than in summer, wind power can potentially be used effectively in combination with hydropower.

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