

## European Solar Energy Storage

# Faroe Islands solar power backup generator



## Overview

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Are there renewables in the Faroe Islands?

“In the Faroe Islands, we are blessed with renewables: we have wind, hydro and some sun in the summer; we also have tidal and wave power where we can see great potential,” says Nielsen. Since announcing its green vision in 2014, SEV has already done a lot to increase the share of renewables in its energy mix.

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.

Is the Sund power plant a reliable backup?

“The role of the Sund power plant has now shifted from baseload into being a smart reliable backup, always available, no matter how` s the weather” says Petri Vehkakoski, Sales Manager for the Faroe Islands at MAN Energy Solutions. “Our engines rapidly step in to supply power when needed and are throttled back when wind or solar conditions improve.

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.

What is the main industry in the Faroe Islands?

Fishing is, and has been for many decades, the main industry in the Faroe Islands with its products, including farmed salmon, representing more than 95% of total exports, and around 20% of Faroese GDP. “Producing fish meal

and oil requires quite a lot of energy.

Is the Faroes going green?

Nielsen is Head of R&D at Eifelagið SEV, the publicly-owned, primary power-producer on the islands, and he has a clear vision: “Our future energy supply in the Faroes is green. We have set a goal of becoming 100% green by 2030 in terms of on-shore electricity.”

## Faroe Islands solar power backup generator

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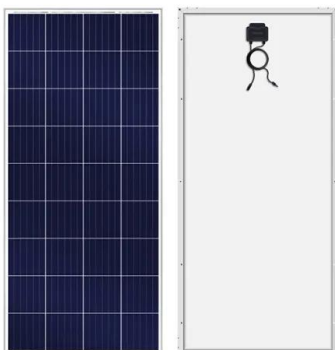


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## The underwater 'kites' generating electricity as they move

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**48V or 51.2V**



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## Retrofitting Grid-tied Solar Systems for Backup Power

"Morningstar's DC Coupled backup solution for grid-tied solar systems is a game changer. Now people can use the PV array that they already

paid for to create backup power when the grid goes down. This simple, clean, scalable approach has many advantages over generator and AC coupled solutions." - Sequoya Cross, CEO, Backwoods Solar



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## Shining a light on a smart island

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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## When grid power fails, can green energy keep data centres running?

Sustainable solutions for backup power generation. Today's data centres are looking increasingly into sustainable backup energy supply. The NorthC project, featuring the world's first 100% hydrogen backup power supply, is a pioneering example. NorthC, a data centre company based in the Netherlands, was founded in 2019.

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### INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,  
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## ITEHIL 500W Portable Solar Generator with LiFePO4 Faroe Islands

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