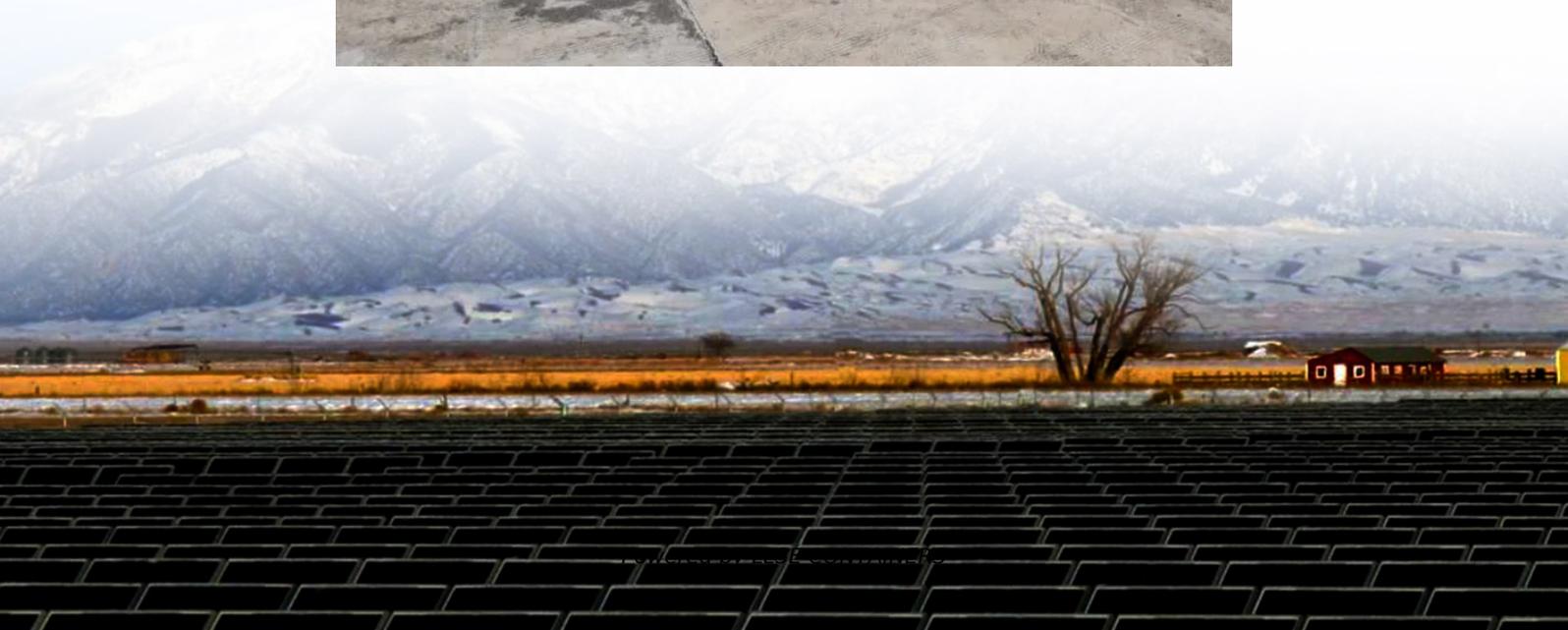


# Stockholm off-grid solar power generation system





## Overview

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Where are solar panels installed in Sweden?

Each system is modelled at two different locations in Sweden: Visby and Östersund. Two locations were chosen to show the impact of solar and temperature conditions on the off-grid and prosumer houses. Regarding the house, each system is assumed to be installed in a modern Swedish family house which will be the same for all systems.

Does Sweden have an off-grid market?

Before that, only a few grid-connected systems were installed annually, and the Swedish PV market primarily consisted of a small but stable off-grid sector, catering mainly to holiday cottages, marine applications, and caravans. This domestic off-grid market has remained relatively stable over the years.

How reliable is the Swedish power grid?

Currently, the Swedish power grid is highly reliable, very few outages last for more than a day across the nation. In fact, the Swedish electrical system is one of the most reliable and sustainable systems in the world (World Energy Council, 2015).

Is solar PV part of the off-grid system?

Despite this, Solar PV is part of the off-grid system and respondents state that Solar PV is continuously being more and more implemented in the Swedish electricity system and thus, an important synergistic relationship with other developments in technology and markets exist.



## Stockholm off-grid solar power generation system

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Citation: IRENA (2020), Innovative solutions for 100% renewable power in Sweden, International Renewable Energy Agency, Abu Dhabi.



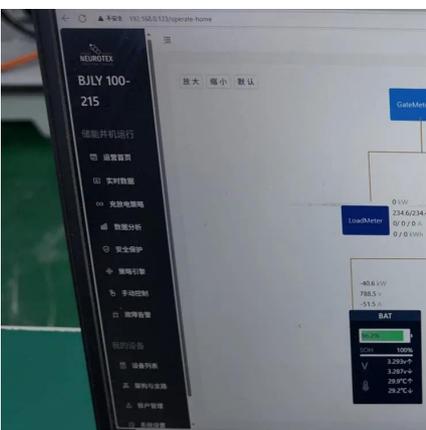
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