

Containerized pv system off-grid project cost in Finland





Overview

Off-grid installations equipped with batteries cost between 3,500 euros and 5,000 euros per kilowatt. In Finland, self-consumption of solar energy is exempt from grid charges and electricity taxes (up to a maximum of 800 megawatt hours per year). Does Finland have an off-grid PV system?

For a long time, the PV market in Finland has been concentrated on small off-grid systems. There are more than half a million summer cottages in Finland, and more than 50 000 of them are electrified with an off-grid PV system capable of providing energy for lighting, refrigerators and consumer electronics.

How do PV support measures work in Finland?

Financially, the main cost elements of PV support measures are investment subsidies granted by the Business Finland and the Finnish Food Authority, and tax breaks granted to individual persons for the PV system installation work. All the incentives are paid from state taxes.

What is the largest solar PV plant in Finland?

The largest individual solar PV plant in Finland is a 6 MW ground-mounted system, which is constructed on an industrial site in Nurmo. The majority of systems are built for self-consumption of PV electricity, since there is no economic potential for utility-scale PV systems for grid electricity generation yet.

How many PV power plants are there in Finland?

The total number of PV power plants in Finland is estimated to be around 20 000 – 25 000. *There is no data collected about the sales of off-grid systems. However, based on discussions with PV system provider the market in Finland is estimated to be around 300 kW on yearly basis.

How to invest in a PV plant in Finland?



In Finland, there are several funding options for investments in PV plants or PV electricity (Table 14). Several companies offer the third-party ownership. The contract may include the selling of electricity from a rooftop PV plant to local consumption with a fixed price and fixed time (PPA).

How much VAT does a PV plant cost in Finland?

The VAT in Finland is 24 %. So far, there are no utility-scale installations ($P > 10$ MW) in Finland. Thus, the cost breakdown is not given for a utility-scale PV plant. (Rutovitz, 2012) Jay Rutovitz, Steve Harris, Calculating Global Energy Sector Jobs: 2012 Methodology, University of Technology Sydney, Australia, 2012.



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