Finland off-grid solar

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Gain comprehensive insights into the statistics and metrics surrounding the solar production industry in Finland

Southern Finland: Regions like Helsinki and Turku tend to have higher yields, closer to the upper end of the range (around 900 kWh/kWh) due to better solar insolation.

Northern Finland: Regions like Lapland have lower yields, closer to the lower end of the range (around 800 kWh/kWh) due to reduced sunlight during winter months.

Residential Consumers: The average cost for residential consumers is typically around $0.16 to $0.22 per kWh. This includes taxes and other fees. 3

Commercial and Industrial Consumers: The average cost for commercial and industrial consumers is generally lower due to higher consumption volumes and can range from $0.12 to $0.17 per kWh.

Statistics from Fin-grid, the company responsible for the national high-voltage grid, show impressive figures. In 2023, the transmission reliability rate reached a record-breaking 99.99995%. 4

Finland’s total solar panel production capacity (installed) reached approximately 1,000 megawatts (MW) at the end of 2023, according to the Finnish Energy Authority [Energiavirasto]. 5

Projected increase by 2030: Estimates suggest a significant rise, potentially reaching 7 gigawatts (GW) [DNV]. 6

Solar Photovoltaic (PV):

Hydropower: Cost: $30 – $60 per MWh

Nuclear: Cost: $90 – $140 per MWh

Biomass: Cost: $60 – $120 per MWh

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