



# Finland off-grid solar

## Finland off-grid solar

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. <sup>3</sup>

**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%. <sup>4</sup>

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]. <sup>5</sup>

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

Solar Photovoltaic (PV):

Hydropower: Cost: \$30 – \$60 per MWh

Nuclear: Cost: \$90 – \$140 per MWh

Biomass: Cost: \$60 – \$120 per MWh

Contact us for free full report

Web: <https://kary.com.pl/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

