



MODERNIZATION SOLAR

Solar rooftop power generation system in Gothenburg Sweden





Overview

Solar power generation in Sweden is far from required capacity to help with transition towards 100% renewables in the power sector by 2040. Decentralized PV system attracts attentions given the conflicts.

Is distributed rooftop PV feasible in Sweden?

Distributed rooftop PV has big power potential but is limited by infrastructure. The system is economically feasible in Sweden but sensitive to market and policies. It provides a reference on urban PV integration for other high latitude areas. Solar power generation PV systems Ellevio charge fees for electricity consumption [öre/kWh].

How much solar power does Gothenburg have?

Seasonal solar PV output for Latitude: 57.7065, Longitude: 11.967 (Gothenburg, Sweden), based on our analysis of 8760 hourly intervals of solar and meteorological data (one whole year) retrieved for that set of coordinates/location from NASA POWER (The Prediction of Worldwide Energy Resources) API: Average 6.05kWh/day in Summer.

Do rooftop PV systems have power potential in Sweden?

According to the results, the rooftop PV systems do have considerable power potential in Sweden: annually more than 10 000 MW h with maximum PV installation and more than 9000 MW h with infrastructure limitations. The system contributes to renewable transition by reducing dependence on external grid that may come from fossil fuels.

Is rooftop solar power feasible in Sweden?

Yang et al. [14] evaluated rooftop solar potential at municipal and national level in a Swedish context and illustrated significant potential of solar power in Sweden. Similarly, the paper provided detailed research in generation and capacity while does not mention feasibility.



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Solar PV Analysis of Gothenburg, Sweden

Maximise annual solar PV output in Gothenburg, Sweden, by tilting solar panels 48degrees South. In Gothenburg, Sweden (latitude 57.7065 and longitude 11.967), solar power ...



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