

PV -systems on dairy farms



Wennström's Farm

Wennström's farm is a large dairy farm situated in Sykärräinen Finland. The owners Ilpo and Tiina Wennström have always been interested in sustainability and renewable technologies, and recently a biogas plant was commissioned on the farm.

During the LECo -project a comprehensive feasibility study was carried out regarding the utilization of PV -systems in energy production on large dairy farms in Finland. As result, local farmers have a broader view regarding the utilization of

solar energy and the economic perspective of PV -systems.

Goals

- Increase the share of renewable energy utilization in dairy production
- Reduce CO₂ emissions from the agricultural sector

Case study findings

- Annual electrical energy consumption of 300 MWh
- Optimal PV -system for consumption profile: 60 kWp
- Renewable production share up to 15 %

- Solar Energy
- Renewable energy
- Photovoltaic
- Low-carbon agriculture



Community Based Energy Solutions for Remote Areas

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