Solar irrigation system in Finland

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In this quest for sustainability, the emergence of solar irrigation (SI) is proving to be a game changer. The EU-funded SolAqua project, which concluded in September 2023, has made huge advances in overcoming barriers to the market uptake of SI in Europe and beyond.

A decentralized solution for water-scarce areas without water infrastructure. Ideal for: communities, disaster response, hospitality, irrigation, and residential use. Company. Established in 2015, Solar Water Solutions designs and manufactures highly efficient, small- and mid-sized RO water purification systems. References

In Finland, a number of hybrid projects are in the pipeline, combining wind, solar and also energy storage. These solutions will balance our energy system. On a global scale, solar power is one of the fastest growing forms of energy generation - its size and importance in the world"s energy mix is huge, larger than wind power.

workshop to better understand the potential of solar-powered irrigation systems (SPIS) for developing countries. During the workshop, representatives from nineteen countries shared

The Toolbox consists of 10 modules and 16 tools which support users in budgeting, sizing and designing a solar-powered irrigation system. With the Toolbox, the end users save water and achieve higher productivity per unit of water consumed while providing water for the environment.

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The share of solar power in Finnish electricity production is approaching one percent and won"t stop there: plans are in place to build several solar farms in Finland, each with hundreds of megawatts of production capacity.

A solar generator provides electricity for an electric motor pump, which delivers water either directly into an irrigation system or to an elevated reservoir. Fundamental design criteria for SPIS include minimum maintenance, maximum reliability as well as resource efficiency.

"An operating model optimised for Finnish conditions, in which solar power is generated in parallel with

agriculture, would contribute to the implementation of Finland"s sustainability and climate protection goals," explains Antti Lajunen, the project manager at the University of Helsinki, who works as an assistant professor at the Faculty of ...

equipped with a solar tracking system to maximize the solar energy yield, a pump controller, a surface or submersible water pump (usually integrated in one unit with an electric motor), and a distribution system and/or storage tank for irrigation water. In addition, semi-automated scheduling

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.

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