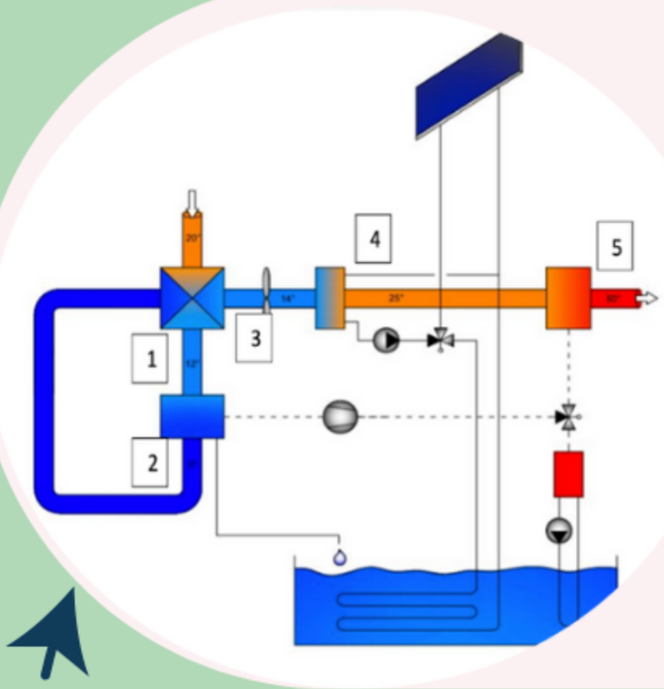
INNOVATIVE, COMMUNITY-INTEGRATED PV SYSTEMS

HORIZON-CL5-2024-D3-02-06



DEMO CASE - 1

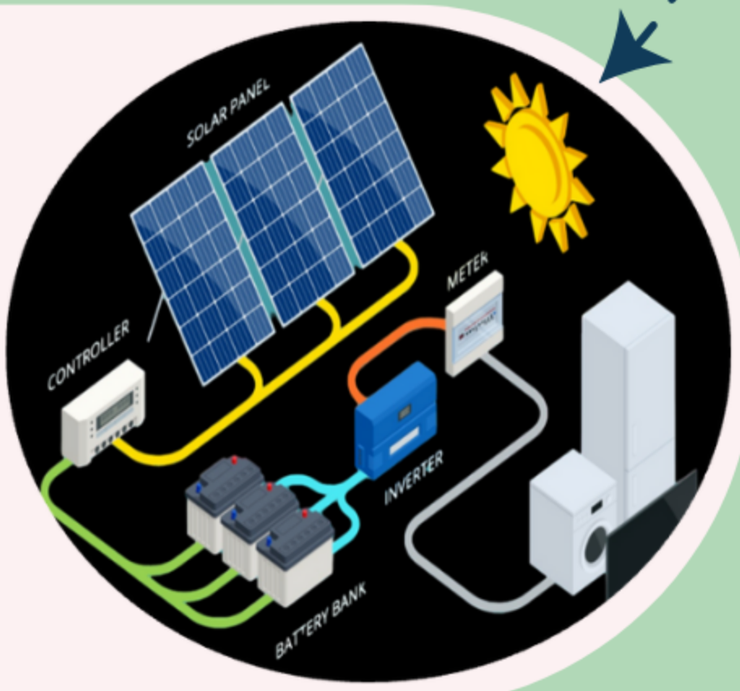
Energy-efficient process for heating and cooling in grain dryers

The solar driven heat pump dryer proposed by Samster is designed for power generation and drying processes (fruit, timber, beans, coffee etc). Thanks to hybrid panels the process can utilise the solar energy up to 100%. Electric energy generated by hybrid panels supports the electric drying process while ambient air and solar energy is used as an energy source for the heat pump cycle that produces hot dry air.

DEMO CASE - 2

Micro-grids

Solar Power Solutions for Agriculture: Combining PV Panels, Battery Storage, and Traditional Compressor Chillers



DEMO CASE - 3



PV INSTALLATIONS WITH EMS INTEGRATION

We showcase the installation of photovoltaic (PV) systems on the rooftops of various buildings (offices, hospital, school). These systems are integrated with the grid power supply and managed by an Energy Management System (EMS) to optimize energy usage and distribution.

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