Pilot Project of Korea – Dongsan Village

ESS

Solar Panel with Village Common Facilities

Smart Farm System With Solor + ESS

Energy Self-Sufficient Smart Farm

EV charging system

Free Charging for E-mobility

Free Charging for EV

EMS(Energy Management System)

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Energy Self Sufficient **Village System**

We create technologies to add value to your life.

IOT PLUS
Add Value with IoT

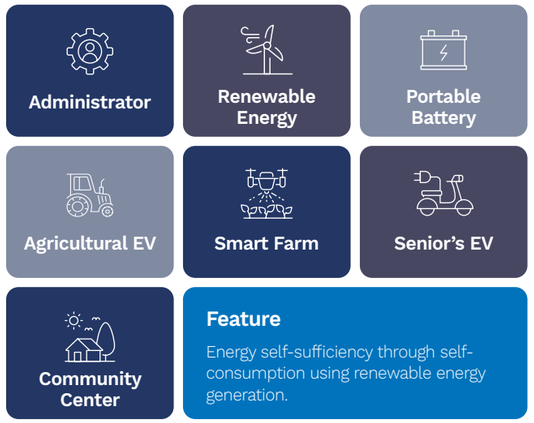
Energy self-sufficient Village System

An **Energy Self-Sufficient Village** is a community that **produces and consumes its own renewable energy,** reducing dependence on external sources.
It aims to achieve **local energy autonomy, carbon reduction, and sustainable community development** through technologies like solar, wind, and smart energy management.

Constructing Energy self-sufficient Village System

RE100 Village

■ Self-Consumption Model



Feature

Energy self-sufficiency through self-consumption using renewable energy generation.

Renewable Energy Generation Village

■ Energy prosumer Model

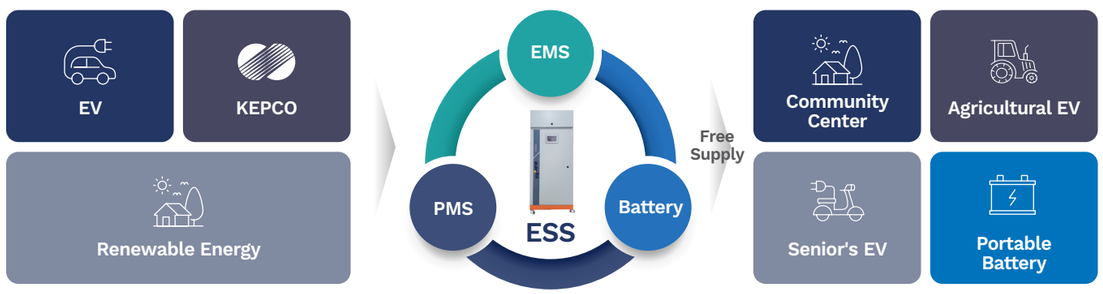
Feature

Renewable energy generarion utilizing shared spaces, Energy sales through village enterprises

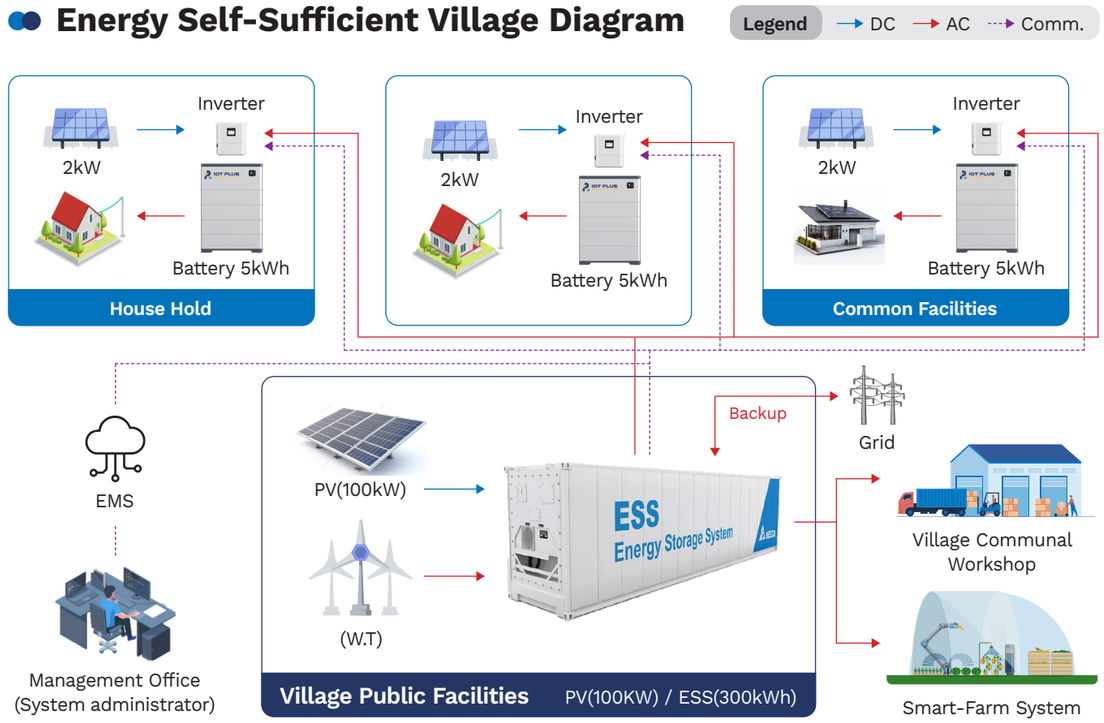
Energy Welfare System

The **Energy Welfare System** is a **social framework** that ensures everyone's **right to access and use essential energy services.**
It promotes **energy equity and sustainability** by supporting vulnerable groups, improving energy efficiency, and expanding renewable energy access.

System to realize energy welfare in rural areas using renewable energy and ESS



Energy Self-Sufficient Village Diagram



IoT_Energy Management System(EMS) v1.0

Functions

- Real-time monitoring and control of microgrid power
- Provides various statistical functions to support efficient energy policy decisions
- Controls battery charging and discharging by time zone
- Controls demand response (DR) remotely

Expected Benefits

- Supports efficient power usage through real-time data analysis
- Enables forecasting and optimization of energy demand and control
- Contributes to reducing electricity costs
- Helps achieve carbon neutrality and RE100 goals
- Contributes to carbon reduction through the use of renewable energy

EMS Screen

Microgrid Using a Hybrid Inverter (Hybrid Inverter + ESS + EMS)