

KYUDENKO EMS



SUMBA ISLAND, Indonesia

Corporate Profile

Company name	Kyudenko Corporation
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Established	December 1, 1944
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Capital	¥ 12,550 million
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Head office	Fukuoka city
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Number of employees	Consolidated: 9,843 persons (March 31, 2018)
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Integrated Utilities Engineering Service

**Electrical
Construction
Work**

**Heating,
Ventilation and
Air Conditioning
Mechanical
Installation Work**

**Power
Distribution Line
Work**

Major Projects

Nanatsu Island Mega SP Station



70MW

Ashikita Mega-Solar Project



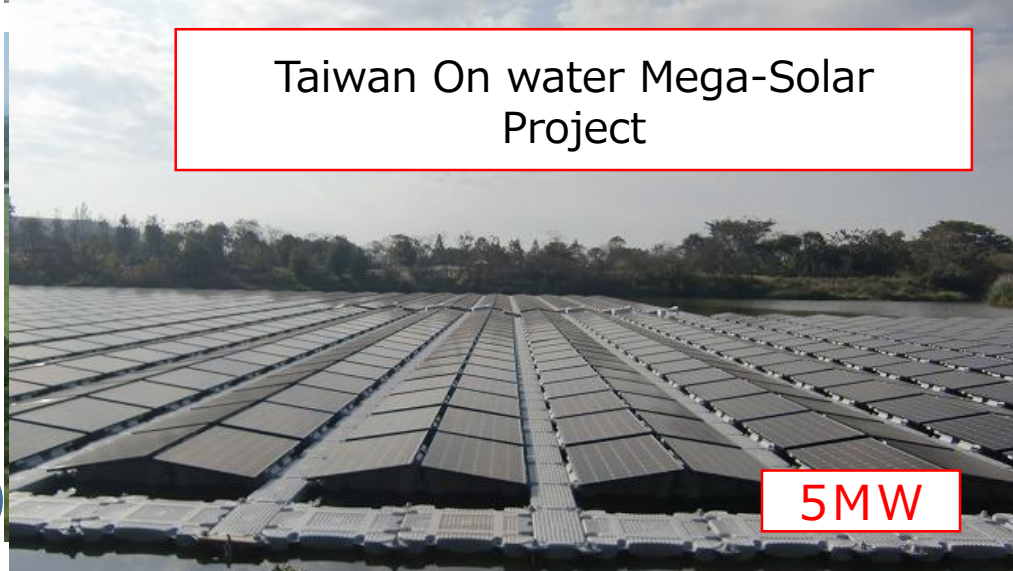
17MW

Saga OuchiCho Mega-Solar Project



17MW

Taiwan On water Mega-Solar Project



5MW

Features of KYUDENKO EMS

Renewable Energy

100%

Efficiency of Renewable Energy

Maximum

EMS

Energy Management System

Energy Resource

Multiple

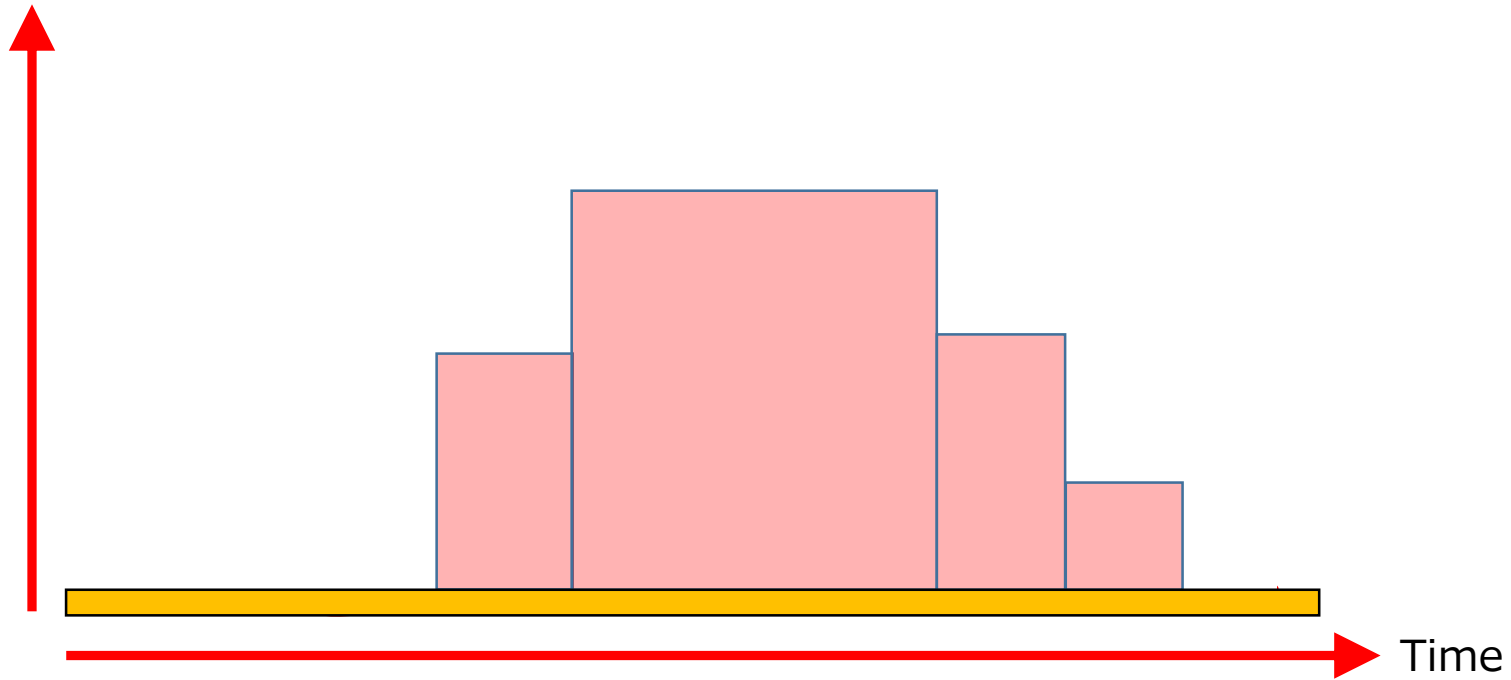
Stable Supply
of electricity

24h

ON-Grid&OFF-Grid

OK

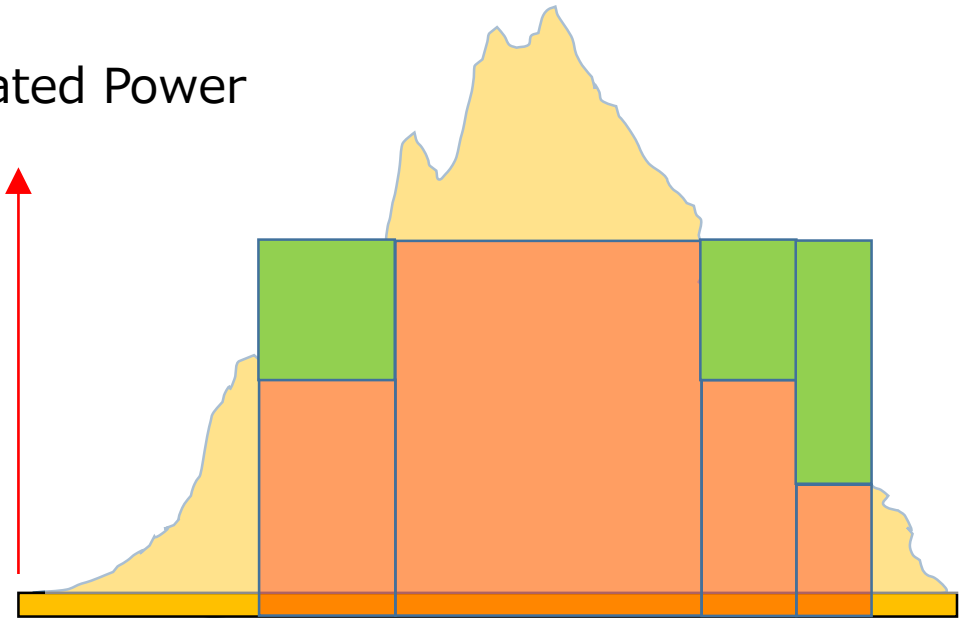
Generated Power



Ordinary power generation system from renewable energy

Solar Power amount

Generated Power



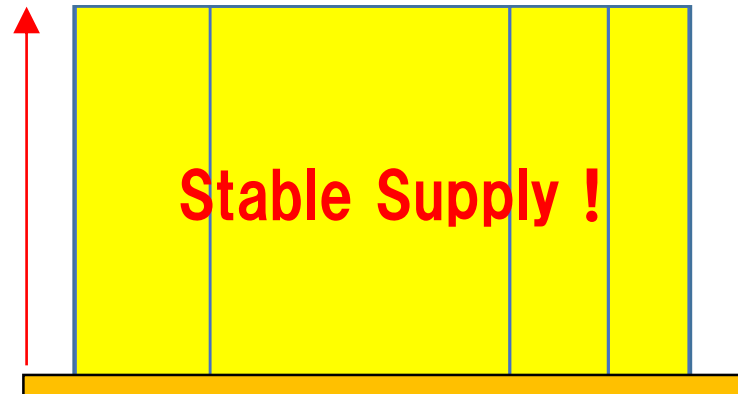
DC Fluctuating Voltage



DC 380V Conversion-BUS

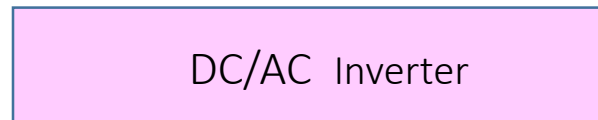
Supply electricity amount

Supplied Power

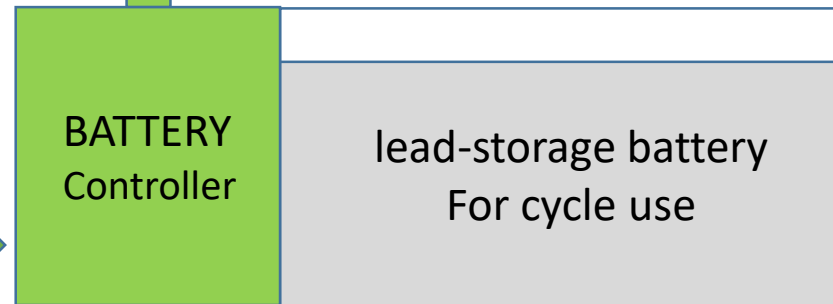


Stable Supply !

Time



DC/AC Inverter



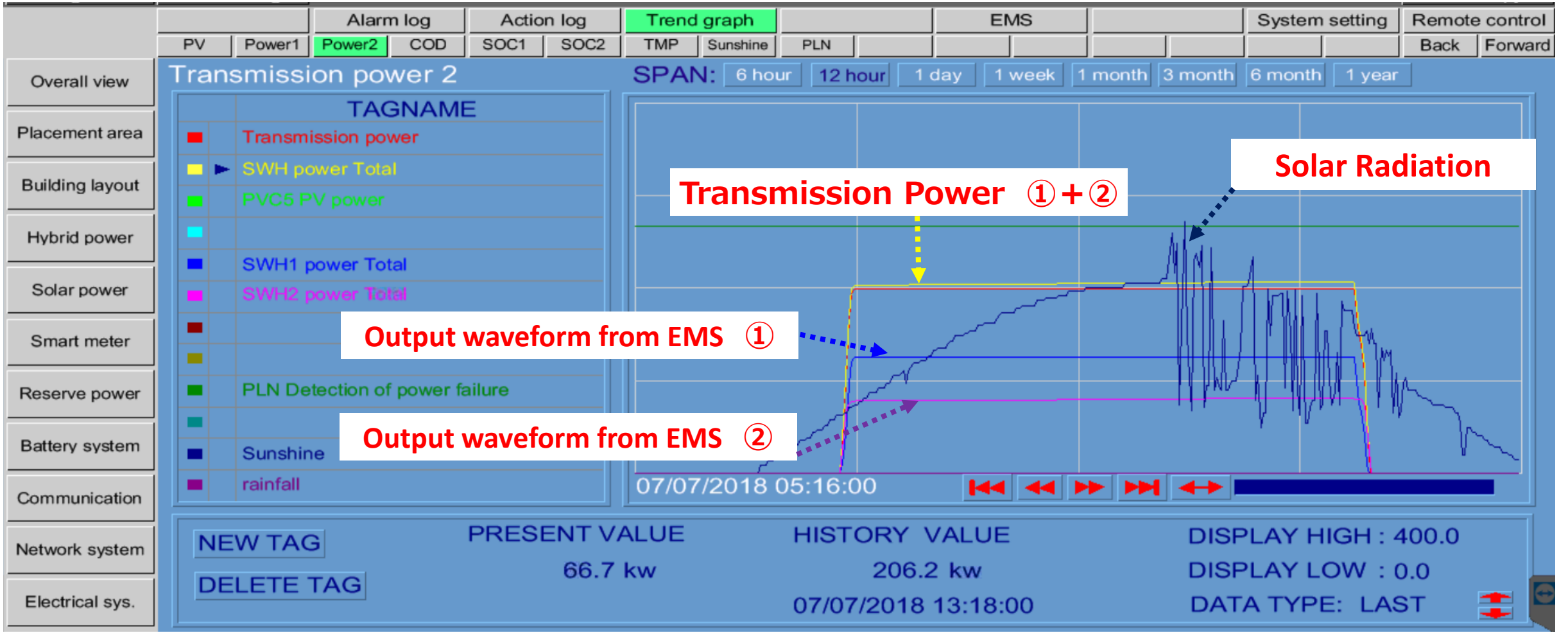
BATTERY Controller

lead-storage battery For cycle use

DC 380V

DC 380V

Transmit Electricity Trend Graph



Stable Supply !

OFF-Grid Model @Nagasaki JAPAN



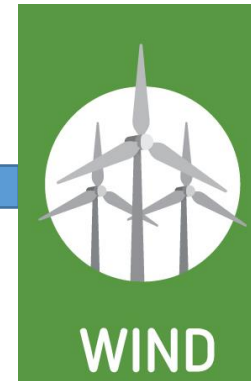
Sasebo-City, Nagasaki





SOLAR

30kW



WIND

5kW x 2set

EMS

Energy Management System



Administrative Building
(Lighting & Air Conditioner)



Lift Pump for Household Water



Sewage Pump



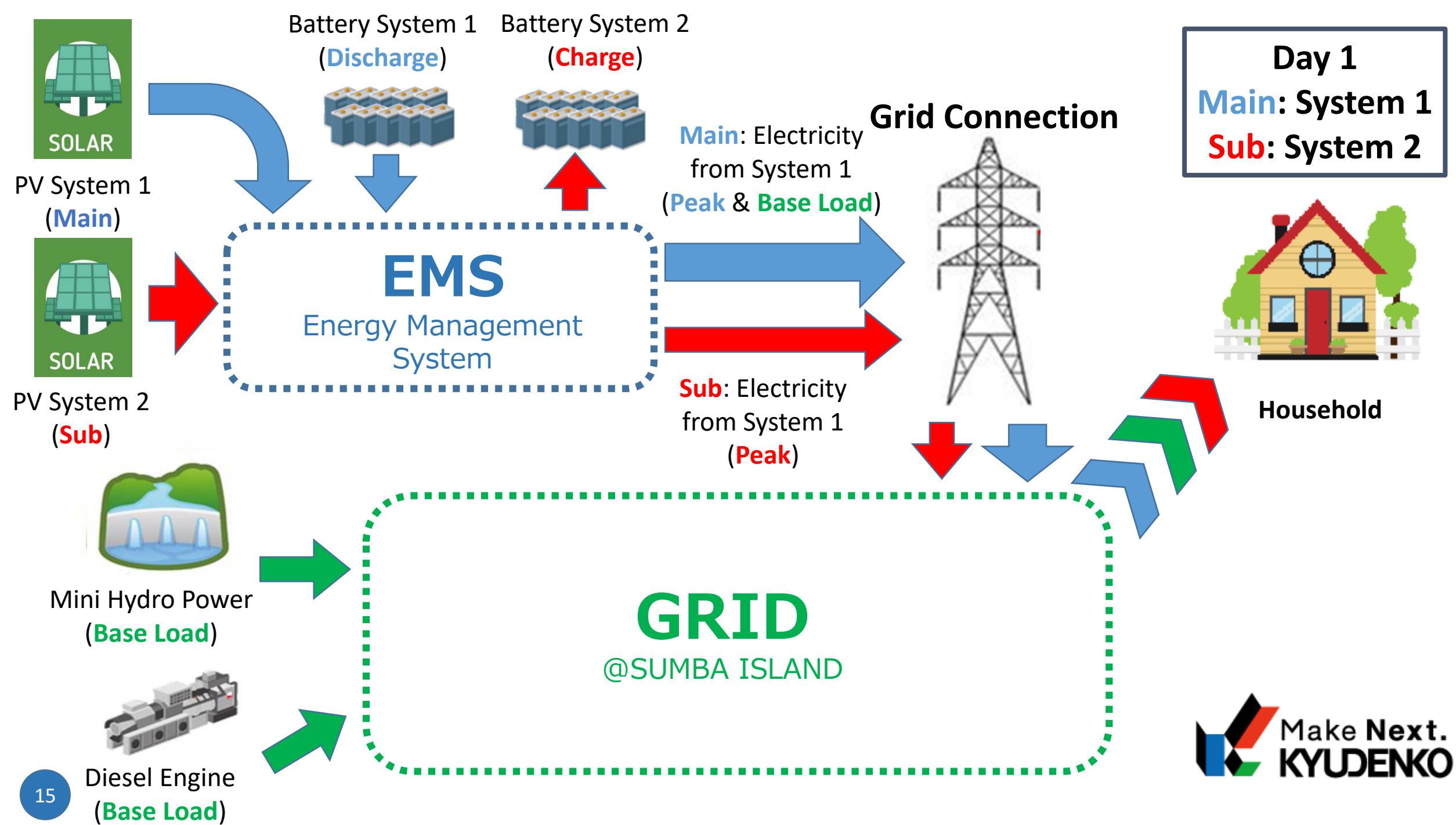
EV Charger

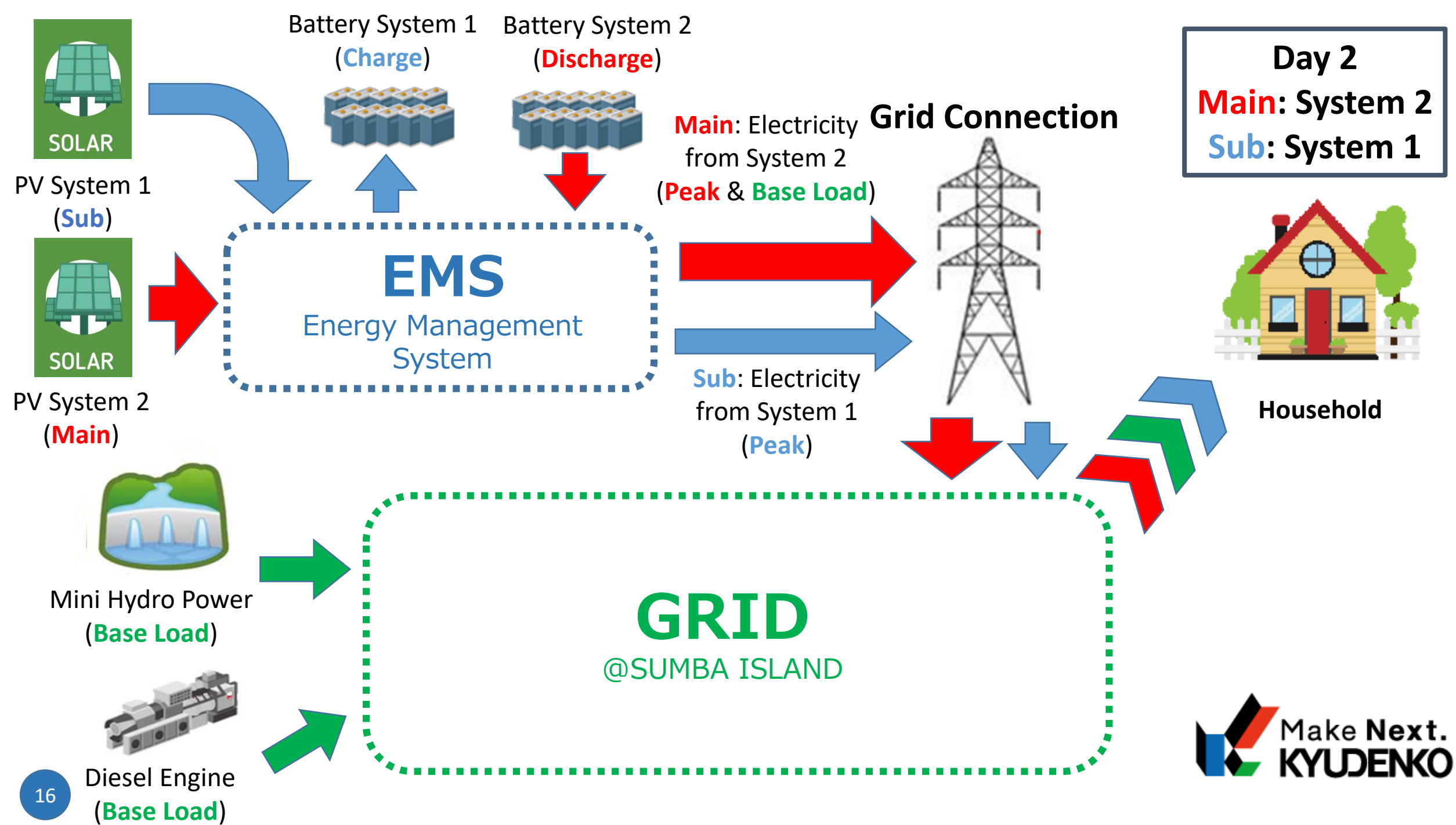
ON-Grid Model @Sumba Is. Indonesia

SUMBA ISLAND Bilacenge PLTS



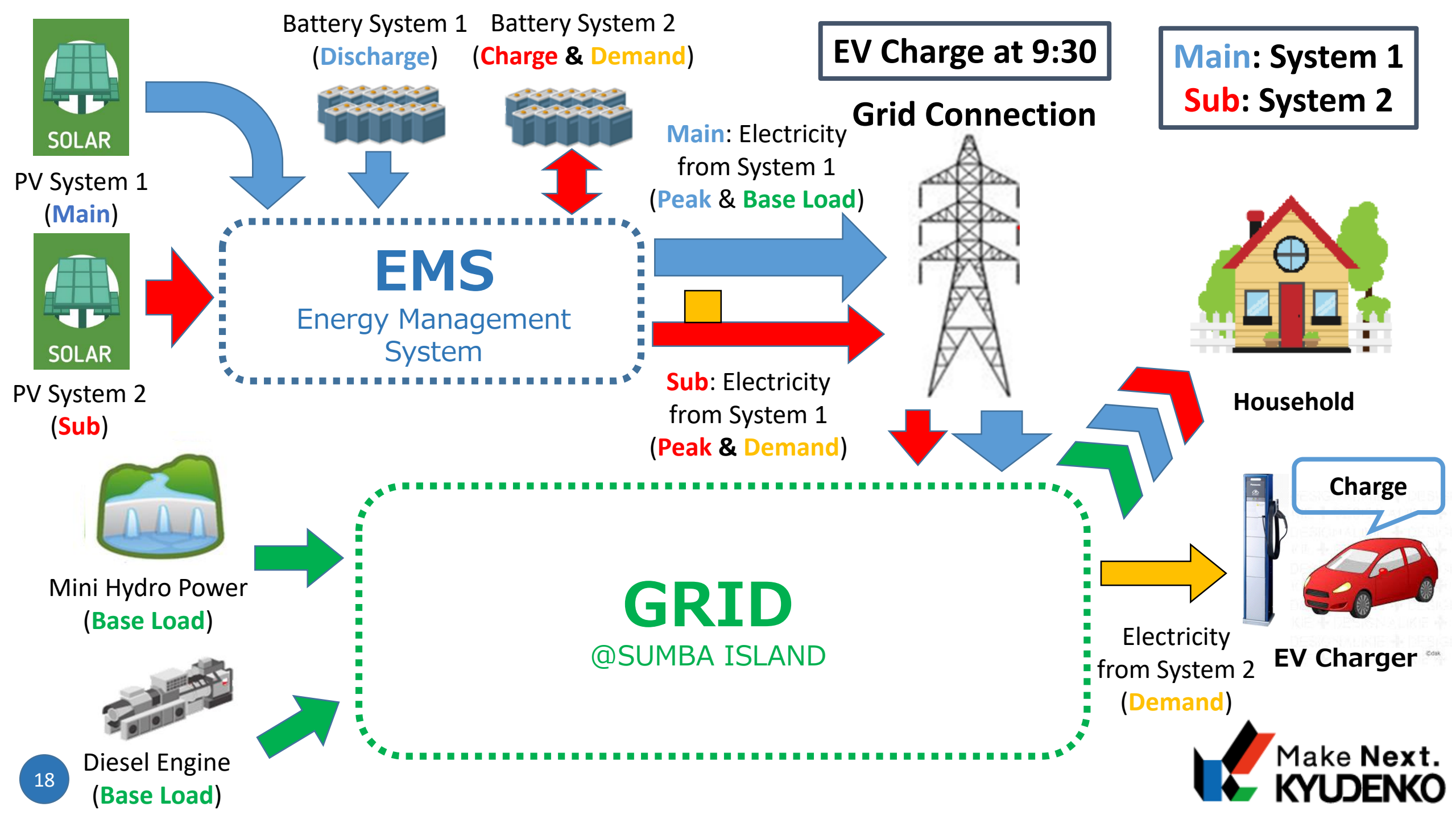
Work together with BPPT

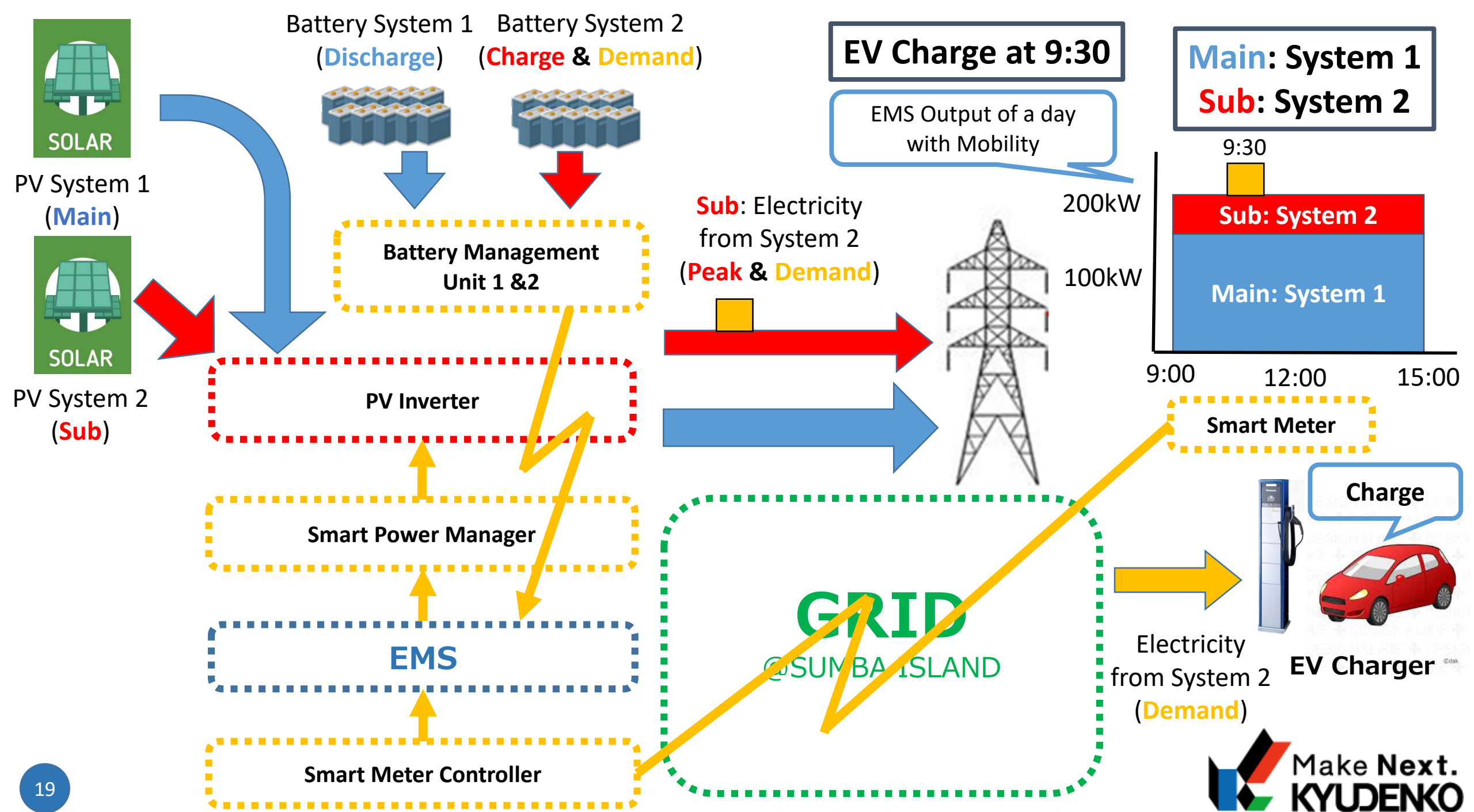




ON-Grid Model For EV

Work together with BPPT





Summary

- 1** Achieve 24-hour power supply by using low-cost lead storage battery system.
- 2** Efficiently manage multiple power sources such as solar, wind, and small water power generation.
- 3** Meet various customer needs from 100% eco power supply to a combination with diesel power generation giving importance to stable supply.
- 4** Contribute to CO² reduction as a complementary power source for diesel power generators.
- 5** Provide technical training for Operation & Maintenance.
- 6** Provide 100% eco power supply for Electric Mobility.

Thank you

KYUDENKO EMS

Energy management System

