



Next Energy & Resources Co., Ltd.

— Support for all phases of your project —

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Service



Planning Phase

Master planning
Feasibility Studies(F/S)

EPCC Phase

Engineering/Procurement/
Construction/Commissioning
FEED (Front End Engineering Design)

Operation Phase

Remote Monitoring
Inspections
Asset Management

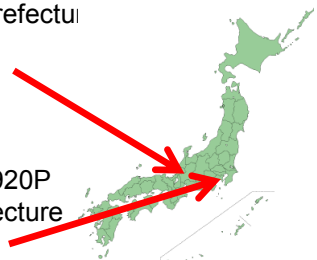
Roof top type



180kW
240W × 754P
Nagano Prefecture



499kW
260W × 1920P
Chiba Prefecture



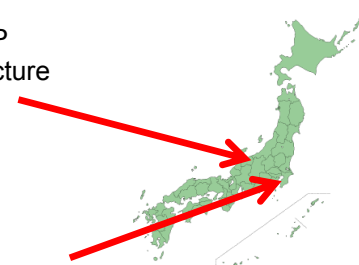
Mega PV plant



1.05MW
260W × 4,048P
Nagano Prefecture



40MW
245W × 164,736P
Chiba Prefecture



Team E-Kansai

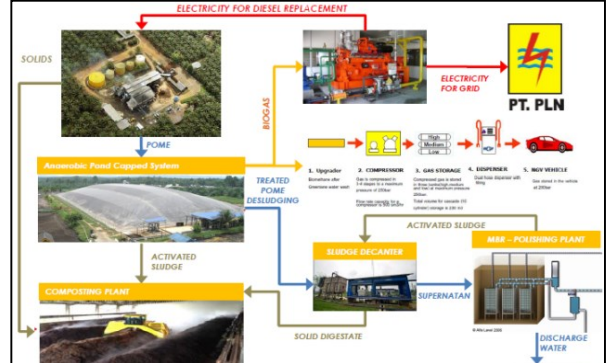


Hybrid Biogas and PV Solar Power Renewable Power Generation Project

Next Energy & Resources Co., Ltd.

Outline of GHG Mitigation Activity

- To capture lagoon-produced biogas made from POME(Palm Oil Mill Effluent).
- The produced biogas will be collected and distributed using blowers to biogas treatment system to remove the H₂S and water content.
- The treated biogas will be utilized for a gainful use to generate electricity (2MW) with biogas engine.
- By installing 100kW Solar PV System for self consumption, maximizing the power supply to the grid.
- The project aims to contribute to the reduction of GHG emission by reducing methane gas emission from POME and CO₂ emissions from fossil fuel based grid connected power plants.



Expected GHG Emission Reductions

61,197 tCO₂/year

- Reference CO₂ emissions: 66,226 tCO₂/year
 Emissions from methane gas emitted from POME : 56,562tCO₂/year
 Emissions from grid electricity displaced by biogas power generation : 9,664tCO₂/year
- Project CO₂ emissions: 5,029tCO₂/year
 Methane emissions from effluent treatment system without biogas plant, affected by the project activity:

Site of JCM Study

