



# **NEDO Continues joint efforts for Smart Grid with India**

**Akihiko Miyamoto  
President**

**New Energy and Industrial Technology Development Organization (NEDO)  
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# NEDO's projects in India



## Ongoing Projects

- ① Solar Power and Micro-Grid System (2014 - 2019)
- ② Management System in Telecom Towers (2012 - 2016)
- ③ Smart Grid Project (2014 - 2018)
- ④ High-Performance Industrial Furnace (2014 - 2018)
- ⑤ Energy Center for Steel Plant (2014 - 2019)
- ⑥ ICT Based Green Hospital (2014 - 2019)

## Completed Projects

- ⑦ Micro Hydropower Turbine (FS 2015)
- ⑧ Feasibility Study for USC Coal-Fired Power Plant (FS 2015 - 2016)
- ⑨ Feasibility Study for High-efficiency Coal Utilization Systems (FS 2015 - 2016)
- ⑩ Sinter Cooler Waste Heat Recovery System (2009 - 2014)
- ⑪ Highly Efficient Coal Preparation System (2008 - 2014)
- ⑫ Coke Dry Quenching System (2006 - 2011)
- ⑬ Waste Heat Recovery System of Steel Plant (2001 - 2004)
- ⑭ Waste Heat Recovery System of Cement Plant (2001 - 2004)
- ⑮ Dual-Fuel Generation System (2008 - 2011)
- ⑯ Capacity Building Project (2009 - 2011)

## Smart Grid challenges in India:

- [Supply] Rapid increase in Demand / Grid stabilization / AT&C loss / GHG emission
- [Demand] Energy conservation / Energy access

## Solutions

## NEDO Projects

Supply

Smart Grid  
(Smart Meter, EMS)

- Solar Power and Micro-Grid System PJ
- Smart Grid PJ

Supply  
/Demand

Battery  
(Grid stabilization )

PJ Under discussion  
with MNRE

Supply  
/Demand

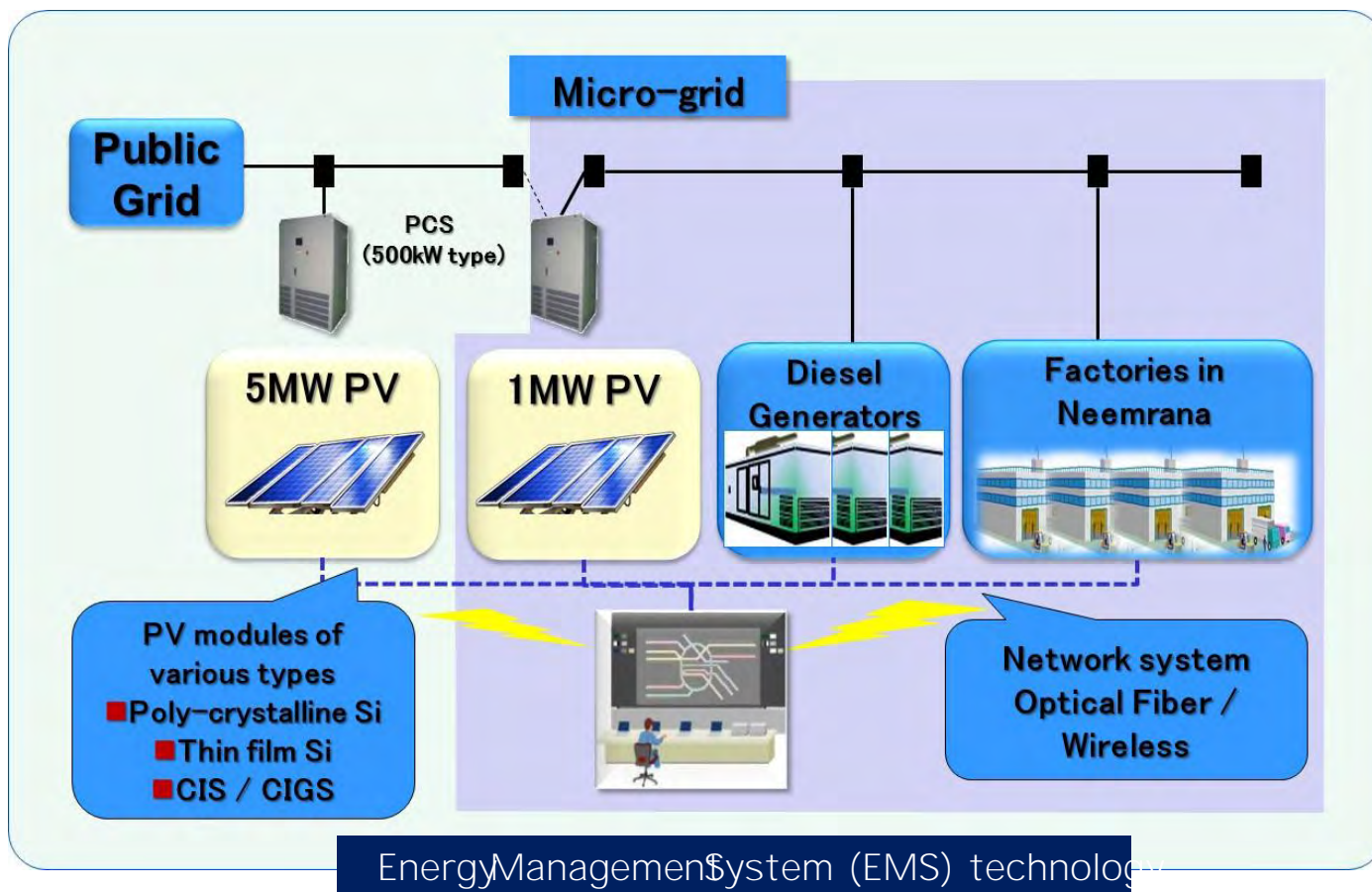
EMS  
(Optimization of  
Supply & Demand)

- ICT Based Green Hospital PJ
- Energy Center for Steel Plant PJ

# Solar Power and Micro-Grid System

NEDO Project in Neemrana Industrial Zone consists of two components

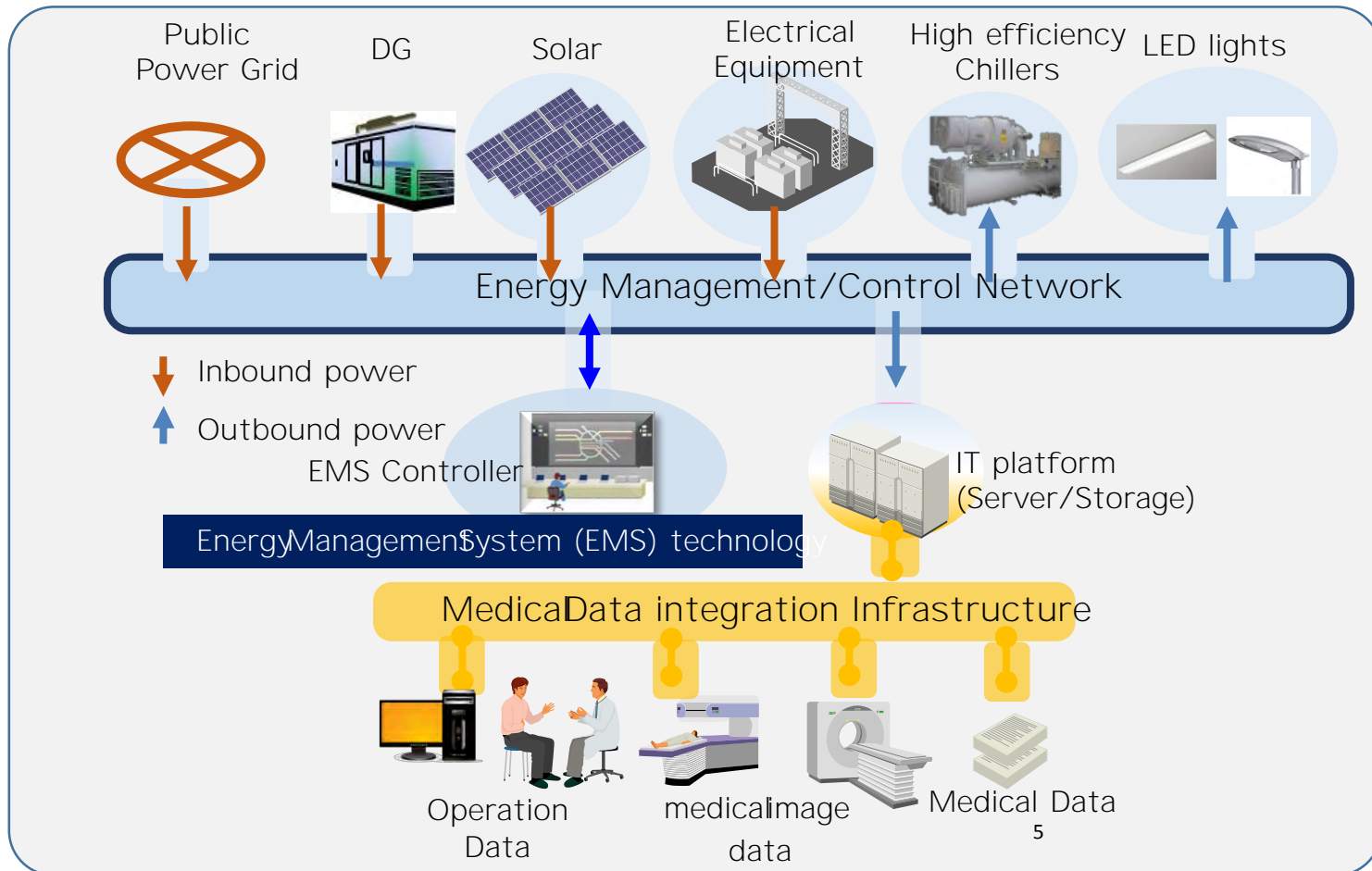
- 5MW PV power generation system project
- Micro grid consisting of 1MW PV power generation system integration with industrial DG sets.



# ICT Based Green Hospital

The objectives of this demonstration project is to

- Enable the tracking and visualization of a hospital's overall energy use by putting an IT system environment in place and upgrading to highly efficient systems and equipment such as PV and LED.



# Continue joint efforts for Smart Grid with India



## NEDO continues "Working Grid" with India based Smart Community Concept

- ✓ Stabilization of electricity supply with demand side management
- ✓ Promotion of energy saving
- ✓ Creation of disaster resistant communities

### Smart grid and Battery technologies for Grid stabilization

Smart Meter

SCADA

Lithium ion battery

PV

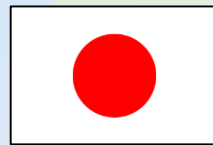
NAS battery

Redox Flow

EMS

Multidivided multiconnected network

### National Smart Grid Mission, MOP



### Collaboration with India and Japan



[www.nedo.go.jp/english/](http://www.nedo.go.jp/english/)

**Thank you!**