



India
SMART GRID
Week 2015

02 - 06 March, 2015
Bangaluru International Exhibition Centre
Bangaluru, India

www.isgw.in



International Conference and Exhibition on Smart Grids and Smart Cities

Japanese Perspectives

Collaboration, Joint Research, Development, and
Deployment Projects to Bring Down Costs

March 4, 2015 | Session 4

Dr. Hiroshi Kuniyoshi

Executive Director

New Energy and Industrial Technology Development Organization

About NEDO

NEDO is Japan's largest public organization promoting R&D as well as the dissemination of energy, environmental, and industrial technologies.



Established: October 1, 1980

Chairman: Mr. Kazuo Furukawa

Employees: 800

Budget: About 1 billion EUR

Demonstration Projects



Global Forums

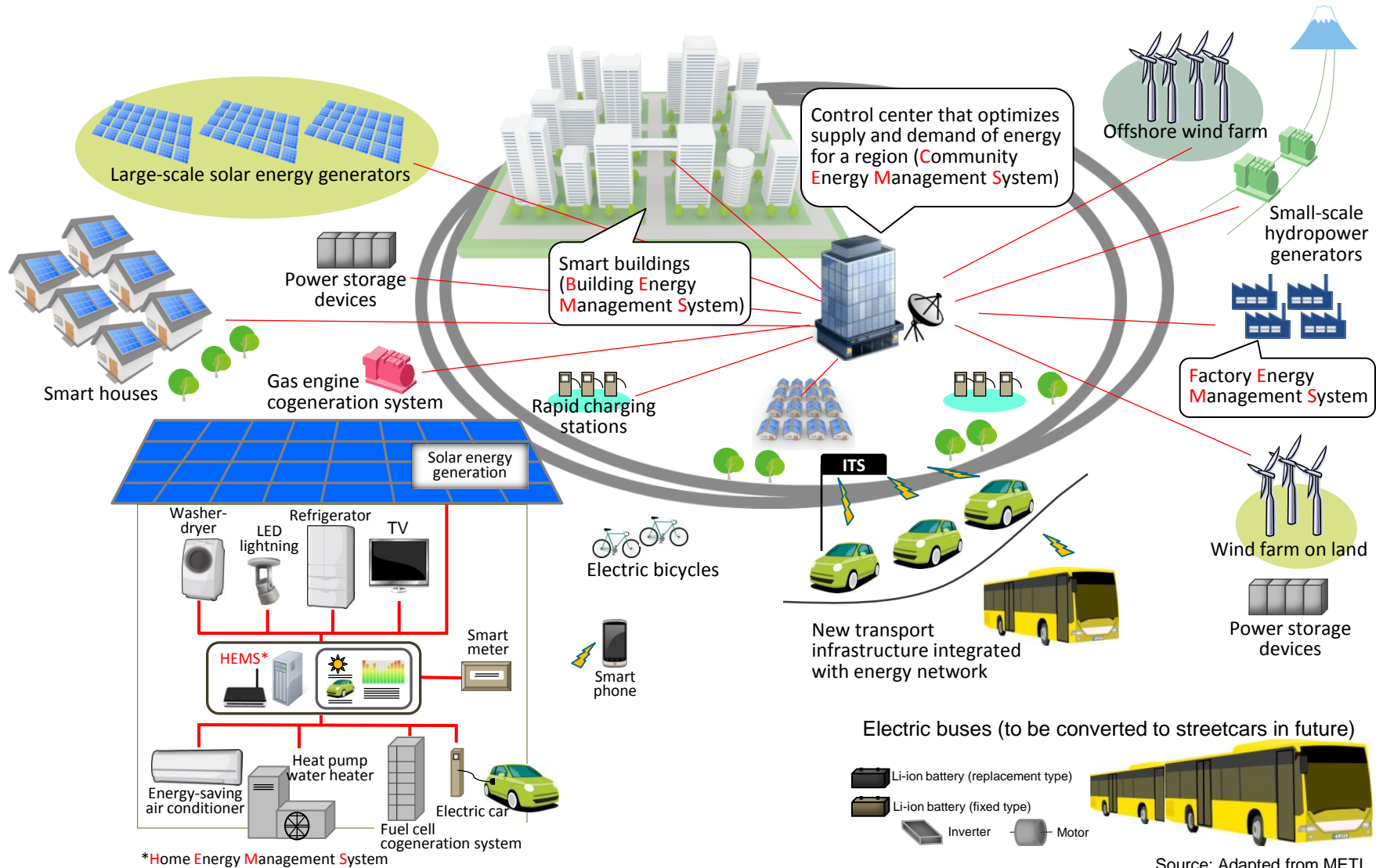


International Demonstration Projects

NEDO International Projects

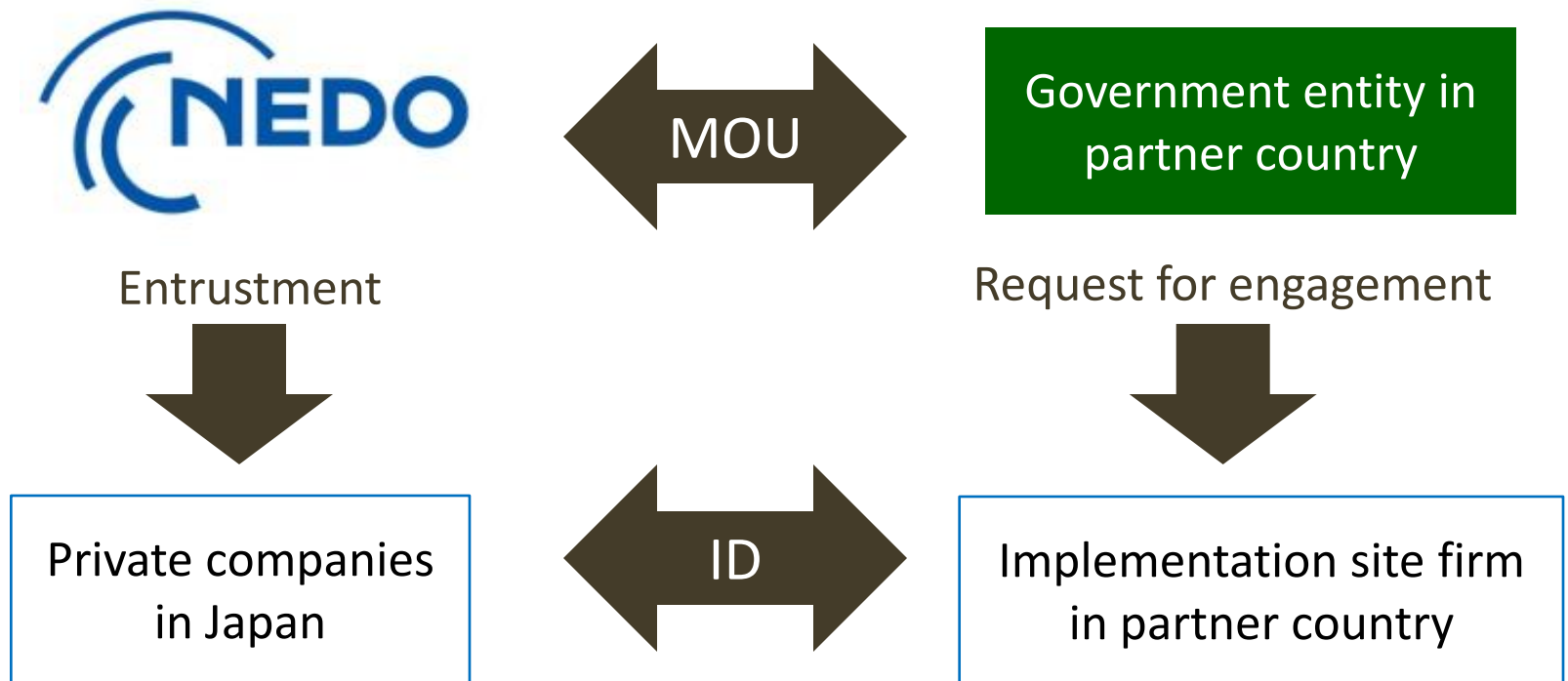


The Smart Community Concept



Source: Adapted from METI

Project Scheme



Expected Project Benefits

1. Cooperation on common technical challenges
2. Deployment through the collective power of individual technologies
3. Expanding solution know-how as individual solutions to local problems are utilized in other local solutions

Key Factors in Deployment

✓ **Long-term support**

- Personnel training for operation, equipment control, maintenance, etc.

✓ **Competitiveness**

- Initial cost, quality, etc.

✓ **Partners**

- Founding of joint ventures, sharing of roles with partners such as construction and maintenance companies, etc.

✓ **Feasible schemes**

- Government incentives such as regulations, mandatory introduction, subsidies, government commitments, etc.

✓ **Business priority within firms**

- Deployment should be a high business priority within a firm or organization's department

Global Forums

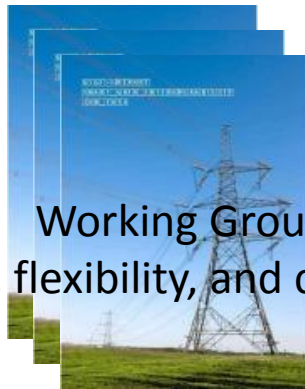
Global Forums



Board meeting in 2014



Public-private initiatives in 18 countries and regions



Working Groups:
Storage, flexibility, and cybersecurity



ISGAN Award of Excellence in
Smart Grids for Renewable
Energy Integration



Global Forums



IRED2014

The 6th International Conference on Integration of Renewable
and Distributed Energy Resources

日本語

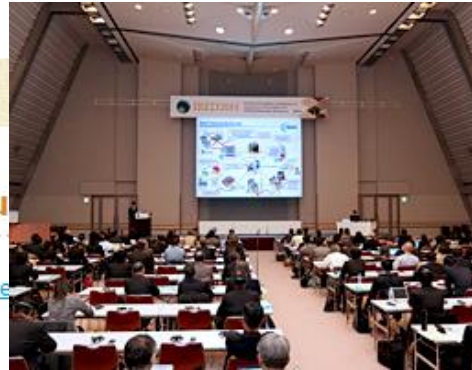
- Home
- Greetings
- Conference Outline
- Program
- Call for Posters
- Registration
- Accommodation
- Organizers
- Chair & Scientific Committee
- Access

Access

Access to the venue

<http://www.icckyo.or.jp/en/access>

Kyoto Information



IRED 2016
in Niagara Falls, Canada

Global Forums



Smart Community Summit 2015
June 17 (Wed) – 18 (Thu)



Global Forums



Smart community session

1st ICEF annual meeting
October 8, 2014

Customer Needs and Solutions

– ISO/TC 268/SC 1 Smart community infrastructures

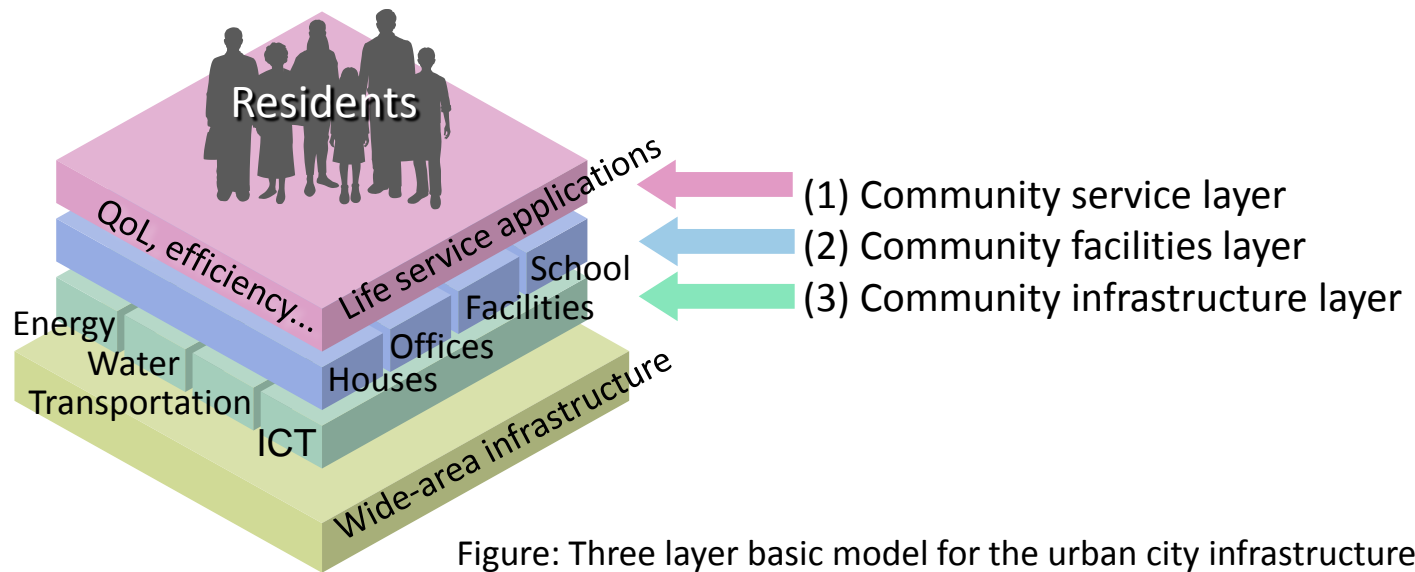


Figure: Three layer basic model for the urban city infrastructure

Smartness should be discussed taking into account the balance between multiple viewpoints of residents, community managers and environmental sustainability.

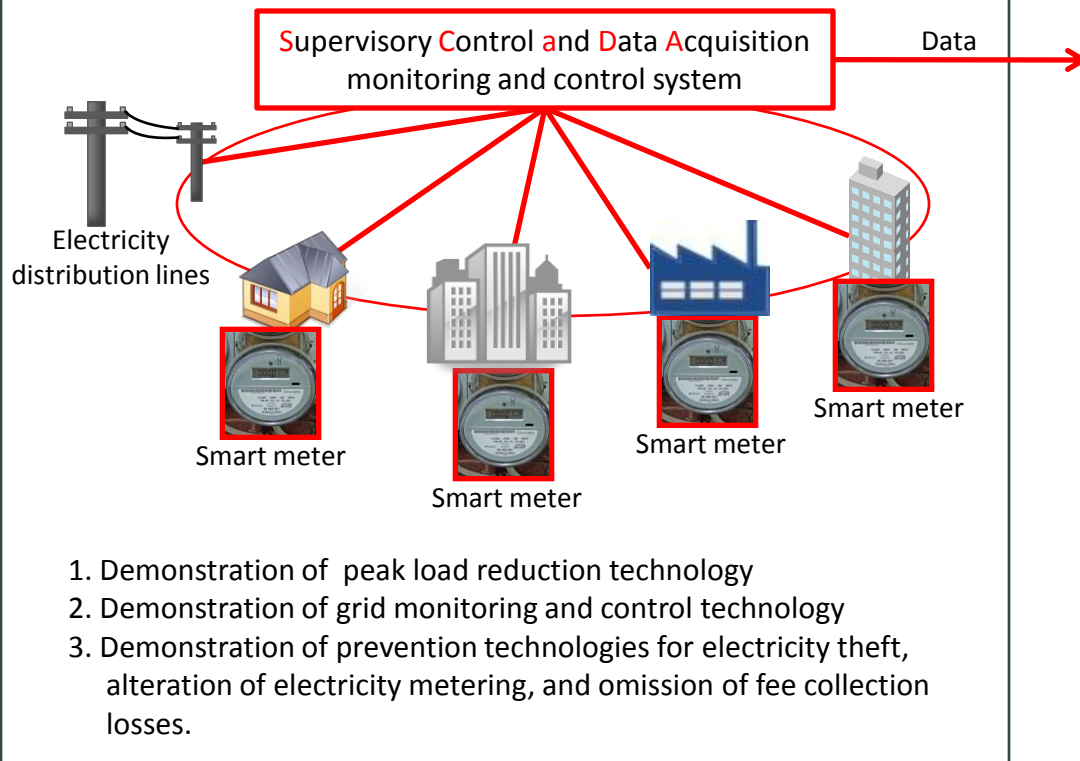
Source: IS-INOTEK

Collaboration with India

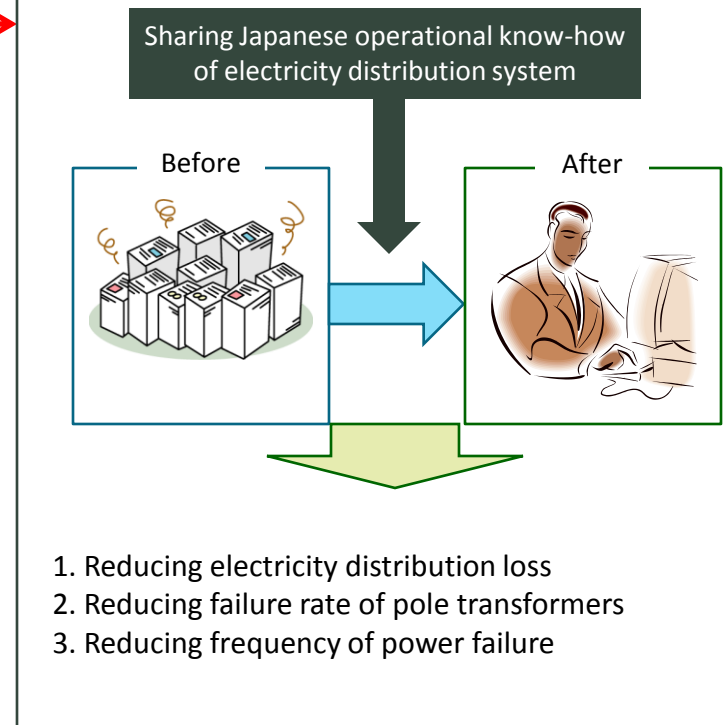
Ongoing Smart Community Project in India

Feasibility Study in Haryana

Smart community demonstrations



Capacity building



Indian company: Uttar Haryana Bijli Vitran Nigam Limited (UHBVNL)

Japanese companies: FUJI ELECTRIC CO., LTD., Sumitomo Electric Industries, Ltd., and THE Power Grid Solution Ltd.

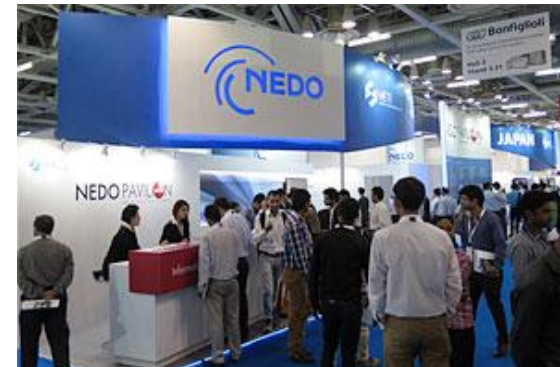
Ongoing Collaboration in India



Collaboration with Andhra Pradesh since 2014



Collaboration with Confederation of Indian Industry since 2013



India-Japan Energy Forum since 2006

Collaborative Projects in India



Energy management systems in Telecom Towers (62 sites, ongoing)



Solar power microgrid system (ongoing)

Electronic equipment recycling system (ongoing)



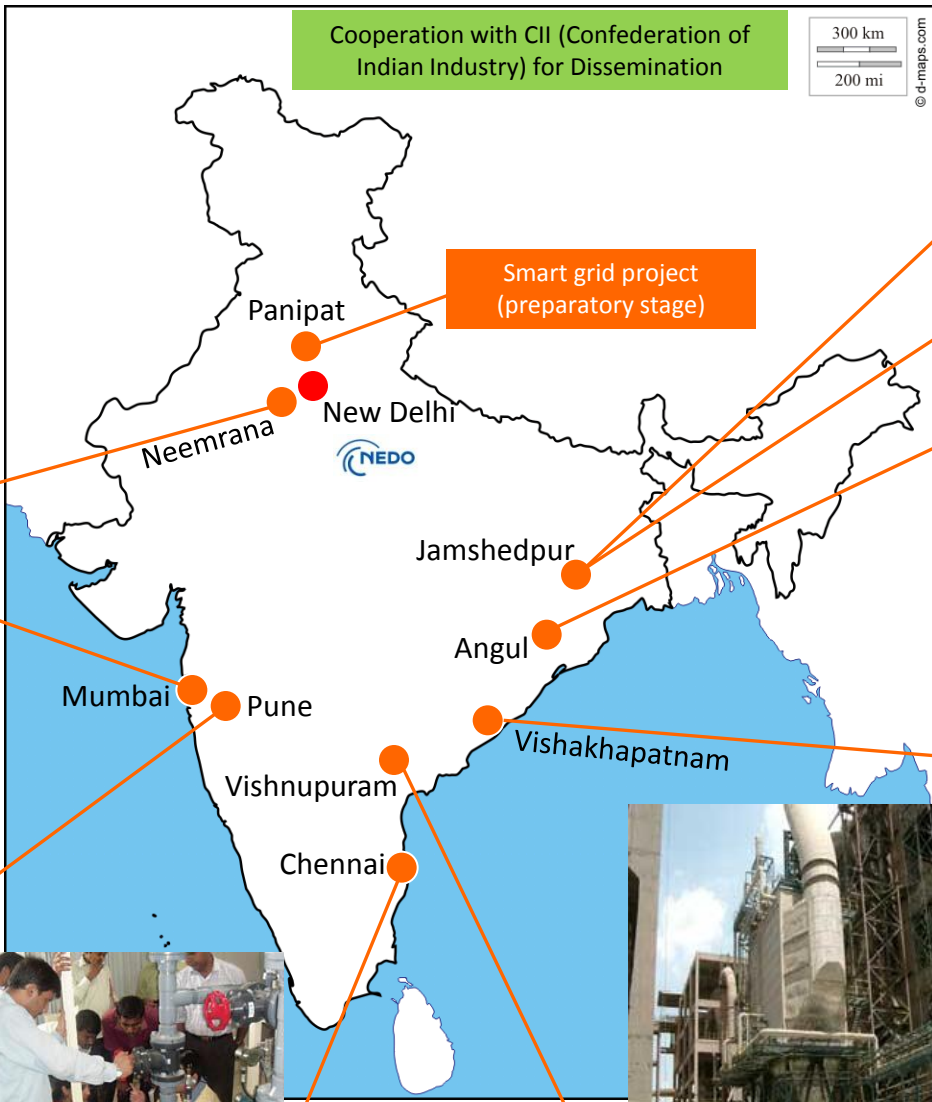
Dual-fuel generation system (2008-2011)



High-performance industrial furnace (preparatory stage)



Capacity building project (2009-2011)



Coke dry quenching system (2006-2011)

Waste heat recovery system for a Steel Plant (2008-2014)

Highly efficient coal preparation system (2008-2014)



Sinter cooler waste heat recovery system (2009-2014)



Energy center for a steel plant (preparatory stage)



Waste heat recovery system for a cement plant (2001-2004)

Thank you. Let's talk!

Dr. Hiroshi Kuniyoshi
Executive Director
NEDO