Japan-Arab Economic Forum



Solar Energy Projects in Japan

December 11, 2010

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New Energy and Industrial Technology Development Organization (NEDO) Japan

NEDO's Role in R&D





NEDO's Global Development Activities and Networks

China

National Development and

Reform Commission

combustion control system (Nov. 2009 Chinese Academy of Sciences

Cooperative relationship to addre



France

ADEME A joint demonstrative project

Grand Lyon Community agreement on smart community at Lyon confluence (Oct. 2010)

CDTI

A joint technology development agreement (Dec. 2008)

Collaborative research and demonstration agreement on smart grid-related technology (Sep. 2010)

Tunisia

A joint project LOI on Concentrated Solar Power (Jul. 2010)

Morocco Future collaboration for solar power utilization



NOW nformation exchange agreement

on fuel cell and hydrogen technology R&D (May 2010)

BMBF A cooperative relationship for the R&D of power storage technology (Sep. 2010)

(Oct. 2009)

A joint demonstration project for waste heat recovery system

DMICDC smart communities in DMIC roject (Feb. 2010)

A joint project for water saving Asia ESCO Conference 20

Emirate of Ras Al Khaimah, UAE **Project on Water Saving Recycling Systems**

UAE

Masdar

various energy technologies (Jar

and environmentally-friendly

vater recycling (Dec. 2009)

Cooperative relationship for

Mar. 2010) Ras Al Khaimah

Establish a business model in which industrial water is reclaimed from sewage to be utilized for industry by means of collecting water treatment fees in an industrial area where the water supply and sewage infrastructure is not yet fully functioning



State of New Mexico, United States Japan-U.S. Smart Grid Collaborative Demonstrative Project

Demonstrate the effectiveness of integrated technologies for dispersed-type power sources, batteries, smart meters and communication technologies targeting establishment of international standards.

IREMA

Affirming possible future collaboration for dissemination of renewable energy utilization (Feb. 2010)

United States

A cooperative project for smart grid technology development in New Mexico together with LANL SNL,state and local government (Mar. 2010)

World Bank

Collaboration agreement or activities in the energy and environment field, including the establishment of a smart ommunity (Oct. 2010)

Singapore NRF

ooperation agreement in R&D of energy environmental and industrial technologie (Nov. 2010) EDB. BCA Cooperation agreement in joint activities of urban solutions and smart community (Nov. 2010) PUB Joint project agreement for the development of industrial wastewate treatment technology(Nov. 2010



Bangkok, Thailand

Disseminating Japan's advanced energy conservation technology Introduce a downsized energy conservation air-conditioning system which utilizes a night time power to the Electricity General Authority of Thailand (EGAT) targeting overseas practical application of the system.

Australia

NEDO

Australian government A joint project for waterrecycling systems with Queensland state government Aug.2009)





Japan's PV R&D Roadmap (PV2030+)



Source: NEDO PV R&D Roadmap (PV2030+), 2009

IEDO



Overview of NEDO's PV R&D Programs in



NEDO's PV Demonstration Project in Japan



Number of installed PV systems: 553 Total PV capacity: 2,129 kW Average PV capacity: 3.85 kW



5 MW(Most PV cells are the crystal type)



2 MW (26 types of PV cells)

NEDO's CSP Project in Japan (FY1974 - FY1984)





Parabolic trough plant: 1000 kW,

Solar tower plant:1000 kW

Joint CSP Project with Tunisia



- Japan's first national project for overseas concentrating solar power generation
- It is positioned as part of the Tunisia Solar Plan promoted by the Tunisian government



Smart Grid Technologies





Japan-U.S. joint researches on Smart Grid (





For further information, please visit NEDO's website.

http://www.nedo.go.jp/english

Thank you very much for your kind attention.