

## **RDG-06-16: Feasibility Study and Development of Smart Energy Solution Using Various Renewable Energies**

### ***Project***

Japan – The feasibility study on the development of independent electricity supply system for the distributed region (Small scale).

Korea – The engineering study on the development of energy supply system including the electricity and the heat considering connection with utility grid.

The development of Smart Energy Solution (SES) management system will be sought as well.

### ***Participation***

#### ***Management***

New Energy Foundation, Japan

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#### ***Participation***

Agency of Natural Resources and Energy, Japan

China or India

Renewable energy related agencies of the five other Partner countries

### ***Objectives***

Feasibility study of the best combination of various renewable energies (Japan).

The draft manual that makes it possible quantitatively to assess the potential of various renewable energies (Japan).

The draft manual for Smart energy solution system considering demand side requirements including heat and electricity (Korea).

The general-purpose smart energy solution management system that makes various distributed generators operated and managed (Korea).

### ***Milestones***

Year 1            Smart Energy Solution Project commencement

Year 2            Detailed system design for the electric system only and the CHP system  
Development of a Smart Energy Solution Management system  
Reporting draft manual for feasibility study

Year 3            Reporting draft manual for total smart energy solution system  
                     Demonstration of SES management system.

***Location***

Korea, Japan and other participants' places

***Resources***

Total 0.66M USD (Korea: 0.44M USD, Japan: 0.22M USD)

Total Cash: 0.48M USD, Total in-kind: 0.18M USD

\* Budget is to be allocated among participants and may vary according to the participants' consultation.