

August 14, 2008

## **Large-scale Photovoltaic (PV) demonstration project in Brunei Darussalam**

A Memorandum of Understanding has been signed between the Energy Division, Prime Minister's Office (EDPMO) and Mitsubishi Corporation (MC) to jointly carry out a large-scale PV demonstration project in Brunei Darussalam.

In this demonstration project, a PV system with nominal capacity of 1.2 MW, currently the largest in South-East Asia, will be installed at Seria Power Station in Belait District. With the utilization of this PV system, EDPMO, the Department of Electrical Services and MC will jointly carry out verification tests and evaluations over a period of three (3) years after commissioning. This will be the first installment of a large-scale PV system in Brunei Darussalam.

Brunei Darussalam is aiming to diversify energy supply sources by introducing renewable energy, of which PV is regarded as one of the most promising sources.

This demonstration project is one of MC's CSR activities in Brunei Darussalam and the company will provide capital, knowledge, and support for human resources development in the field of PV for the implementation of the project, with a view to helping the facilitation of PV in Brunei Darussalam. Data and know-how gained through the project will contribute to the future diffusion and practical use of PV in Brunei Darussalam.

<Overview of the demonstration project>

Name of the project: Tenaga Suria Brunei (Brunei Solar Power in English)

PV system specifications:

- a) Nominal output capacity: 1.2MW
- b) Types of solar modules: several different types of PV modules to be installed, such as crystalline silicon and thin-films
- c) Location: Seria Power Station in Seria, Brunei Darussalam
- d) Associated facilities: PR & education facilities regarding PV

Scope of the demonstration project:

- a) Design and installment of a large-scale PV system with nominal output capacity of 1.2 MW
- b) Verification tests and evaluations with the utilization of the PV system
  - ✓ To evaluate characteristics of several types of PV modules under the meteorological conditions in Brunei Darussalam
  - ✓ To demonstrate the grid-connection of a large-scale PV system
- c) Technical assistance in the operation and maintenance of the PV system
- d) Human resources development in the field of PV
- e) Seminar on PV and other renewable energy

Anticipated timeline:

August 2008	Commencement of detailed design
From 2010	Operation, verification tests and evaluations of the PV system (for a period of three years)

Location of Seria in Belait District

