



## NATIONAL GRID CORPORATION OF THE PHILIPPINES

**News Release**  
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### **NGCP lays out transmission line and substation projects for procurement**

The National Grid Corporation of the Philippines (NGCP) is calling on manufacturers, contractors and suppliers to apply for accreditation for various projects planned for procurement for the 4<sup>th</sup> quarter of 2010 and the 1<sup>st</sup> semester of 2011.

The list, as follows, includes eleven (11) transmission line and substation projects and supply of related equipment, the majority of which is in Luzon.

The projects are categorized as either (a) associated with the entry of a power plant; (b) network expansion needed to meet load growth; (c) in compliance with reliability and N-1 requirements of the Philippine Grid Code.

#### **GENERATION ASSOCIATED PROJECTS**

These transmission projects are intended to take in the generation capacity addition in the grid and directly resolve the transmission constraints associated with new generation connections.

- 1. Mariveles Coal-Transmission Reinforcement Project (Reconductoring of Limay-Hermosa Transmission Line)**
- 2. Mariveles Coal-Transmission Reinforcement Project (Substation Portion)**
- 3. Mariveles Coal-Transmission Reinforcement Project (Transmission Line Connection Asset – Mariveles-Limay B)**

The project and its three (3) components indicated above involve the associated grid reinforcements that will allow the full dispatch of both the proposed Mariveles 600 MW Coal-Fired Power Plant (CFPP) and Limay Combined-Cycle Power Plant (CCPP).

- 4. Kalayaan-Makban 230-kV Transmission Line Project**

The project aims to upgrade the Kalayaan-Makban corridor that will allow all possible generation dispatch scenarios. The reinforcement is needed to support the entry of new power plants and the expansion of existing plants in South Luzon.

- 5. Tayabas Substation Expansion 1**

The project involves the installation of additional 600 MVA transformer to allow all possible generation dispatch scenarios for Quezon Power and Pagbilao coal plants in Quezon and the power plants in the Bicol region.

#### **LOAD GROWTH-DRIVEN PROJECTS**

These projects pertain to expansion of transmission facilities to meet load growth. In the case of transformers, the proposed capacity is based on the projected demand for the next ten years.

- 6. Visayas Substation Expansion Project 1**

The project involves the acquisition of two (2) units of 50 MVA transformers to be installed in Talavera Substation (Cebu) and Kabankalan Substation (Negros) and one (1) unit of 100 MVA transformer in Ormoc Substation (Leyte). The additional substation capacities are expected to accommodate the projected load growth in the Visayas.



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### **7. Dasmariñas Extra High Voltage Substation Expansion**

The project involves the installation of additional capacity both in the 500 kV and 230 kV substations in Dasmariñas. The capacity expansion at the EHV substation is required to maintain the provision for N-1 contingency during maximum dispatch of Ilijan, Quezon Power Philippines Ltd. and Pagbilao plants (including their generation capacity expansions). The third 230/115 kV transformer in Dasmariñas is required to maintain the N-1 provision as the loads being served by the substation continue to grow. This project also involves the replacement of the 230 kV circuit breakers.

### **RELIABILITY AND POWER QUALITY PROJECTS**

These projects involve the installation of necessary equipment to improve the power quality at the delivery points and also provide for N-1 contingency. These include, among others, capacitor/reactor installation for reactive support and voltage improvement, provision of new switching station and additional lines and transformers.

"N-1" refers to the capability of the power grid to withstand the loss of a major line without a customer experiencing a power interruption.

### **8. Binga-San Manuel 230-kV Transmission Project (Stage 1-Binga Substation Upgrade)**

The project aims to provide N-1 contingency during the maximum dispatch of the generating plants, particularly hydro-electric power plants, in North Luzon.

### **9. Northeastern Transmission Development Project (Magapit Capacitor)**

The proposed three shunt capacitor banks are necessary to improve the voltage profile in Magapit Substation in Cagayan. These equipment will ensure that NGCP will be able to comply with the voltage regulation criterion.

### **10. New Antipolo 230-kV Substation**

The project aims to provide a new substation that will serve as a new 230-kV delivery point in Metro Manila. It is expected to help address the load increases in Metro Manila, particularly in the Araneta and Dolores substations that serve Meralco's Sector 2. To draw supply from Antipolo, Meralco will have to put up line connections from its existing 115 kV substations near the area such as Masinag, Parang and Marikina.

### **11. Luzon Substation Reliability Project 1**

The project involves the installation of additional transformers for N-1 in Tayabas, Botolan, Gumaca, Labo, San Esteban, and Currimao which currently have only one transformer unit each. Most of these transformers will be hauled and transferred from other substations as part of the transformer deployment program.

Interested manufacturers, contractors and suppliers may download the Application for Accreditation and forms at <http://www.ngcp.ph>. Filled up forms and all required documents should be submitted to Dir. Anthony L. Almeda, Chief Administration Officer.

