

# Coastalpower Development Corporation



*"The power of the future is ready now..."*

## Company Profile



**Coastalpower Development  
Corporation**

L/G, Integrated Bar of the Phils Building  
#15 Julia Vargas Avenue, Ortigas Center  
Pasig City 1605 Philippines

Tel/Fax + 63 2 631 4473

[www.coastal-power.com](http://www.coastal-power.com)

## COMPANY PROFILE

---

**COASTALPOWER DEVELOPMENT CORPORATION** (**coastalpower**) was conceived to respond to the government invitation for the private sector to become partner in the development of renewable energy resources of the Philippines.

COASTALPOWER is presently involved in wind power development. Within the next decade COASTALPOWER envisions to become a leading wind power producer in the country. With the government vision of installing at least 417 MW of wind-based power projects, and with the country's wind potential of at least 7,400 MW, the company would like to become a leading government partner in developing the country's wind resources.

In the middle of 2005, COASTALPOWER recognized several areas of wind exploration including: Nueva Ecija, Camarines Norte, Sorsogon and the island provinces of Marinduque and Romblon. Thus, in December 2005, the Department of Energy (DOE) awarded to COASTALPOWER the Production Sharing Contract for OSW Energy Resource for Carranglan, Nueva Ecija, covering a total area of 2,025 hectares. Also, on the same month, DOE granted the blocking of potential wind sites for Marinduque, Tablas and Romblon in favor of COASTALPOWER Corporation.

COASTALPOWER is continuously exploring its research on wind data system impact and facility study in preparation with the preliminary energy production in the year 2009, as its initial stage of operation.

In the near future, the Company will be developing several wind potential areas within the Luzon Grid in time for the establishment of the Wholesale Electricity Spot Market (WESM). Under a deregulated environment, electricity will be traded electronically on an hourly basis, giving special attention and priorities for new and renewable energy with intermittent energy resource.

## COMPANY MISSION

---

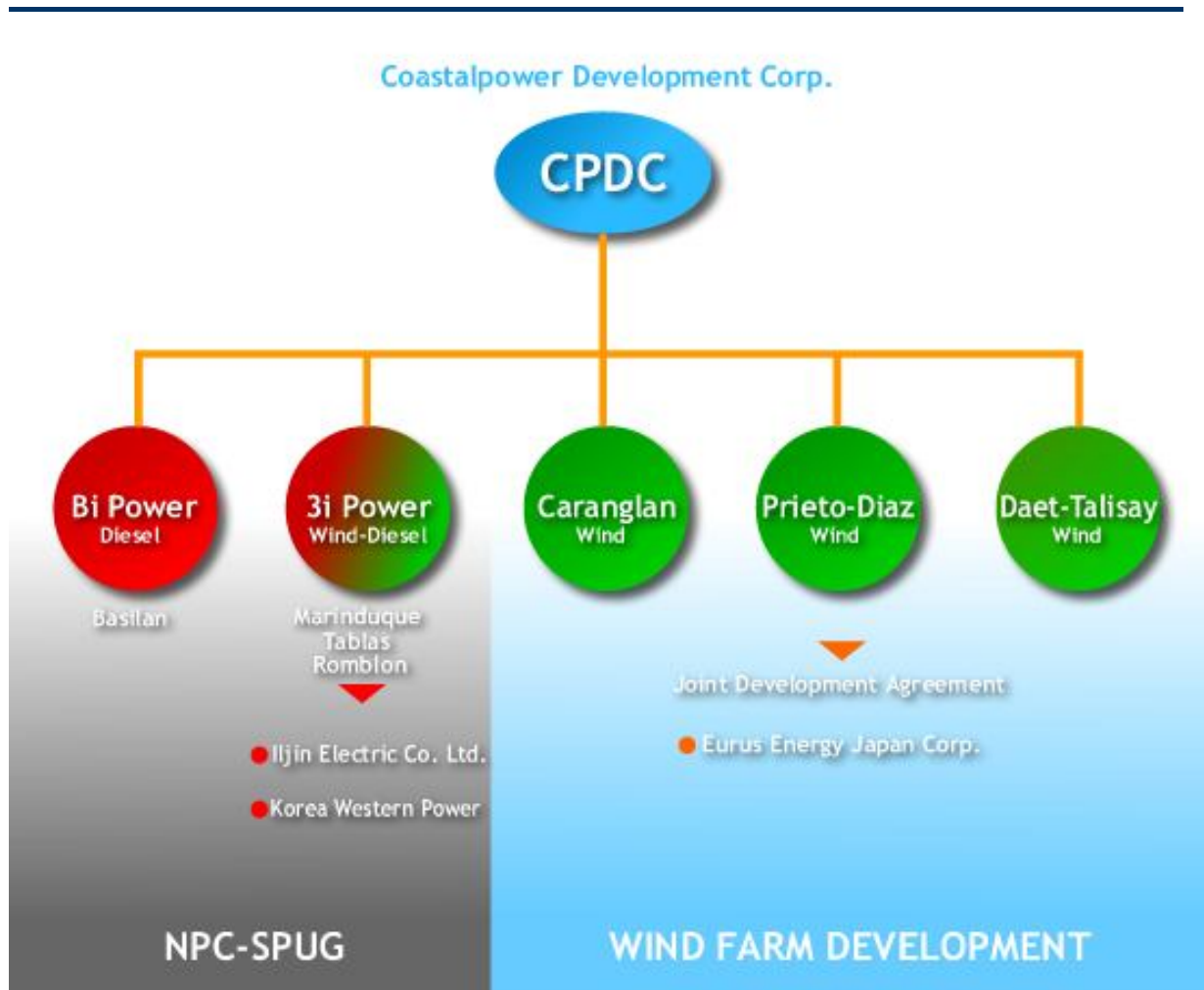
To lead the nation's effort to explore, develop, utilize, and put into commercial use the Renewable Energy resources of the Philippines.

## COMPANY VISION

---

A major energy industry player by 2010.

# PROJECT PROFILE



PROJECT	LOCATION	CAPACITY	STATUS
CARANGLAN WIND FARM	Caranglan, Nueva Ecija	50 MW	Wind Study
DAET-TALISAY WIND FARM	Daet-Talisay, Camarines Norte	90 MW	Wind Study
PRIETO-DIAZ WIND FARM	Prieto-Diaz, Sorsogon	460 MW	Wind Study
3I POWERGEN, INC.	Marinduque, Tablas, Romblon	22 MW	Under Construction
BASILAN ISLAND POWER, INC.	Basilan	14 MW	Under Construction
<b>Total</b>		<b>606 MW</b>	

## PROJECTS

---

### CARANGLAN WIND FARM

Caranglan is located only 10 km (6.2 mi) east of Puncan and Digdig in the province of Nueva Ecija. The area near Caranglan was evaluated because it offered a possible alternative to turbines placed on top of the mountains near the Puncan - Digdig area since access for wind turbines appeared considerably easier. Caranglan is located in the valley that is formed by the Cordillera Central Mountains. Due to time and security constraints, travel to areas further north of Caranglan where the NREL atlas had identified good wind resource areas was not possible.



Aside from a higher frequency of typhoons, the valley area did not receive many low scores. The Caranglan area would not be recommended for further investigation due to the lack of a wind resource.

LOCATION : Bgy. Digdig, Caranglan, Nueva Ecija

SITE COORDINATES :

Latitude: 15° 53.991'

Longitude: 120° 58.454'

ESTIMATED CAPACITY : 50 MW

ELECTRIC COOPERATIVE: Nueva Ecija Electric Cooperative

PROJECT UPDATE:

December 16, 2005 – The Pre-Commercial Contract between Department of Energy (DOE) and Coastalpower Development Corporation (Coastalpower) was signed.

## DAET – TALISAY WIND FARM

LOCATION : Daet & Talisay,  
Camarines Norte

SITE COORDINATES :

Latitude: 14° 9.1619'

Longitude: 122° 56.766'



ESTIMATED CAPACITY : 100 MW

ELECTRIC COOPERATIVE: Camarines Norte Electric Cooperative (CANORECO)

## PRIETO – DIAZ WIND FARM

LOCATION : Gubat – Prieto  
Diaz, Sorsogon

SITE COORDINATES:

Latitude: 12° 57.024'

Longitude: 124° 7.9559'



ESTIMATED CAPACITY : 420 MW

ELECTRIC COOPERATIVE: Sorsogon II Electric Cooperative (SORECO-II)

### **3i POWERGEN INC**

- 15.7-MW Hybrid Wind-Diesel Power Plant in Marinduque
- 10.6-MW Hybrid Wind-Diesel Power Plant in Tablas
- 4.2.-MW Hybrid Wind-Diesel Power Plant in Romblon

3i Powergen, Inc. is implementing the Hybrid Wind-Diesel Technology of power generation in these particular power plants.



### **Hybrid Main Principle**

The diesel engines supply power back-up for the wind turbines. In periods with sufficient wind power the diesel engine is automatically stopped in order to save fuel. In these periods the system operates with 100% wind penetration. The stopped diesel engine is preheated in order to facilitate a fast startup and when needed, the diesel engine is automatically restarted.

The system uses a standard diesel engine equipped with a Low Load Unit which reduces the fuel consumption under low load conditions and enables the engine to run at idle running for long periods with a minimum of soot formation. The specially developed cooling circuit absorbs the excess heat from the diesel engine and the surplus power from the wind turbines and makes it available for production purposes.

The complete wind/diesel power system achieves a high efficiency as a result of maximum wind exploitation combined with optimal utilization of waste energy.

The entire system remains extremely stable because the cooling system absorbs the large fluctuations caused by the extreme variations in the available wind power, the power consumption and the grid.

To further compensate for these constantly changing conditions the rotation of the engine is stabilized. This smoothes the operation of the control system and ensures that the engine can achieve a normal, long life.

## **Marinduque**

Marinduque is an island province in between the Bondoc Peninsula in southeastern Luzon and Mindoro Island, comprised of 17 outlying islets.

Its primary economic activity is agriculture, including rice and coconut as major crops. The area also has considerable aqua culture and fisheries resources, and significant deposits of copper, iron, manganese, limestone, gold and silver.



The majority of businesses in the province are growing with the majority being involved in the wholesale and retail of groceries, sari-sari and other items. Numerous manufacturing operations and hotels and restaurants are also registered as listed businesses.

The island of Marinduque is accessible via the Roll-On-Roll-Off (RORO) vessel or other similar commercial sea vessels from the port of Balanacan, Kawit and Sta Cruz port which facilities transportation going to and from Dalahican pier and Lucena City.

Mostly the Barangays have been electrified by its electricity distribution utility, the Marinduque, Electric Cooperative, Inc. (MARELCO)

## **PROJECT RATIONALE**

The 12.3-MW Power Plant in Marinduque is intended to replace the 13.7-MW power plant in Balanacan, Marinduque. Once the diesel and bunker-fired generator sets, which compose of 12.3-MW power plant, are completely installed, the NPC power general facility is expected to be decommissioned.

Upon the installation of the complete wind/diesel power system, called “Hybrid Technology”, which means the diesel engines supply power back up for the wind turbines, it is expected to achieve a high efficiency as a result of maximum wind exploitation combined with optimal utilization of waste energy.

## **PROJECT LOCATION**

Brgy. Balogo, Sta Cruz, Marinduque

## **Tablas Island**

Tablas is the largest Island in the province of Romblon. The island is situated in the center of the Philippines. A low mountain range runs down the centre of the island, flanked on the west by continuous rolling plains, and on the east by alluvial plains that reach the sea. Tablas is divided into nine municipalities.

Farming and fishing are the province's main source of livelihood, including rice, coconut and banana as major crops. Tablas is also rich in mineral resources including marble, granite, clay, gravel and sand. Cottage industries such as raffia production are also prominent in the island.



Opportunity exists for increased tourism in Tablas, particularly given the island's wealth of natural attractions. These include caves, lush forests, tropical beaches, hidden caves and deserted islets. Tablas Island is accessible by sea and by air, with an estimated travel time of 12 hours by boat or the Roll-On-Roll-Off (RORO) to the port of Manila.

The Island is served with electricity by the Tablas Island Electric Cooperative, Inc. (TIELCO).

## **PROJECT RATIONALE**

The 7.2-MW Power Plant in Tablas is intended to replace the 4%-MW power barge of NPC in Odiongan, Tablas. Once the diesel and bunker-fired generator sets, which compose the 7.2-MW power plant, are completely installed, the NPC power generation facility is expected to be decommissioned.

Upon the installation of the complete wind/diesel power system, called "Hybrid Technology", which means the diesel engines supply power back up for the wind turbines, it is expected to achieve a high efficiency as a result of maximum wind exploitation combined with optimal utilization of waste energy.

## **PROJECT LOCATION**

Brgy. Tubigon, Ferrol, Tablas, Romblon

## **Romblon**

Romblon, known as the “marble country” of the Philippines, is located in the center of the Philippines archipelago and is a cluster of 20 islands. It consists of three main islands and 17 smaller ones.

The chief sources of livelihood include farming, livestock raising, logging and fishing.

More promising is the prospect of increased income from tourism in the area. Romblon Province boasts several natural attractions, including beaches, caves and good mountaineering areas, which serve as draw-cards for tourists.



The Island of Romblon is accessible via the Roll-On-Roll-Off (RORO) vessel or other similar commercial sea vessels from the port of Batangas City. A provincial bus ride from Metro Manila will bring passengers to the Batangas port.

Romblon Island is served by the Romblon Electric Cooperative, Inc. (ROMELCO).

## **PROJECT RATIONALE**

The 2.5-MW Power Plant in Romblon is intended to replace the 2.56-MW power generation facility of NPC in Romblon. When the diesel and bunker-fired generator sets are completely installed, the NPC power generation facility is expected to be decommissioned.

Upon the installation of the complete wind/diesel power system, called “Hybrid Technology”, which means the diesel engines supply power back up for the wind turbines, it is expected to achieve a high efficiency as a result of maximum wind exploitation combined with optimal utilization of waste energy.

## **PROJECT LOCATION**

Brgy. Cajimos, Romblon, Romblon

## BASILAN ISLAND POWER, INC.

Basilan is one among a system of 7,107 islands that make up the Philippine archipelago. It is a small island in the south of Philippine islands. Basilan is located at the western tip of Mindanao Island.

Population	410,086
Capital	Isabela City
Land Area	2,092 sq. kms.
Major Products	Copra, Coconut, rubber sapping
Natural Resources	Rich in Gold, Manganese, iron, ore, copper and coal
Marine-Aquatic Resources	Varied and Abundant supply
Renewable Source of Energy	Biomass, Hydro, Wind, & Ocean Tidal Energy potential, listed among the 8 sites in the Philippines

### Map of Basilan



## **Power Supply Agreement**

The Agreement was signed between Coastalpower Development Corporation & Basilan Electric Cooperative (BASELCO) last August 21, 2008

**COASTALPOWER DEVELOPMENT CORPORATION** to specifically handle the power requirements of Basilan Island, created Special Purpose Corporation (SPC),

**Basilan Island Power, Inc.** was registered with the Securities and Exchange Commission (SEC) No. CS200834492 on December 23, 2008, fully endorsed by the Department of Energy (DOE) on November 28, 2008.



REPUBLIC OF THE PHILIPPINES  
**SECURITIES AND EXCHANGE COMMISSION**  
SEC Building, EDSA, Greenhills  
City of Mandaluyong, Metro Manila

COMPANY REG. NO. CS200500858

### CERTIFICATE OF INCORPORATION

KNOW ALL MEN BY THESE PRESENTS:

This is to certify that the Articles of Incorporation and By-Laws of

#### *COASTALPOWER DEVELOPMENT CORP.*

were duly approved by the Commission on this date upon the issuance of this Certificate of Incorporation in accordance with the Corporation Code of the Philippines (Batas Pambansa Blg. 68), and copies of said Articles and By-Laws are hereto attached.

This Certificate grants juridical personality to the corporation but does not authorize it to undertake business activities requiring a Secondary License from this Commission such as, but not limited to acting as: broker or dealer in securities, government securities eligible dealer (GSED), investment adviser of an investment company, close-end or open-end investment company, investment house, transfer agent, commodity/financial futures exchange/broker/merchant, financing company, pre-need plan issuer, general agent in pre-need plans and time shares/club shares/membership certificates issuers or selling agents thereof. Neither does this Certificate constitute as permit to undertake activities for which other government agencies require a license or permit.

As a registered corporation, it shall submit annually to this Commission the reports indicated at the back of this certificate.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of this Commission to be affixed at Mandaluyong City, Metro Manila, Philippines, this 21st day of January, Two Thousand Five.

  
BENITO A. CATARAN  
Director  
Company Registration and Monitoring Department



*For further details, contact or write us at:*



[www.coastal-power.com](http://www.coastal-power.com)

## **Coastalpower Development Corporation**

L/G IBP Bldg. (Integrated Bar of the Phils.)  
#15 Julia Vargas Ave., Ortigas Center, Pasig City  
Philippines, 1605

Email: [admin@coastal-power.com](mailto:admin@coastal-power.com)

Tel/Fax: 63 2 631 44 73