

# STATUS of WIND DEVELOPMENT



# HISTORY

<b>YEAR</b>	<b>PROJECT/PROGRAM</b>	<b>PROPONENT</b>
1981	Wind Power for PAGASA Radar Station at Basco, BAtanes	PAGASA & MOE-BED
1983	Study of the country's wind potential and installation of a pilot wind turbine generator	PAGASA, PNOC ERDC & Haskoning (Dutch)
1984	Demonstration and piloting purposes of two-60 kW WTGs in Alfonso, Cavite (1975) and Burgos, Ilocos Norte (1986)	DOE & USAID
1986	"Solar Irradiation and wind Mapping of the Philippines"	PAGASA

# HISTORY

<b>YEAR</b>	<b>PROJECT/PROGRAM</b>	<b>PROPONENT</b>
1990	Rehabilitation of WTG in Tagaytay and Alfonso, Cavite as demonstration unit for commercial purposes	NPC
1994	“Assessment of Technical, Financial and Economic Implications for Wind Power Generations	DOE & UNIDO
1995	10 kW Pilot Wind Turbine Generator – Ayoyo, Pagudpud, Ilocos Norte	DOE-NPC

# HISTORY

YEAR	PROJECT/PROGRAM	PROPONENT
1997	OSW Program: Passage of E.O. 462: (enabling private sector participation)	DOE
1998-2002	Evaluation of different wind energy proposals under E.O. 462/E.O. 232	DOE
1999	Wind Energy Resource Atlas of the Philippines: 70,000 MW potential	DOE/NPC/DOST/NREL
2003	Launching of REPF: DOE will push for the installation of 417 MW wind-based power projects.	DOE

# HISTORY


<b>YEAR</b>	<b>PROJECT/PROGRAM</b>	<b>PROPONENT</b>
2003	Update of NREL study	WWF
2003	Trade Mission to Europe (UK, Germany and Spain)	DOE
2004	Launching of Wind Power Investment Kit (June, 2004)	DOE
2004	Wind Power Summit (Dec.,2004)	DOE
2005	Wind Contracting Round (March, 2005)	DOE

# MILESTONE

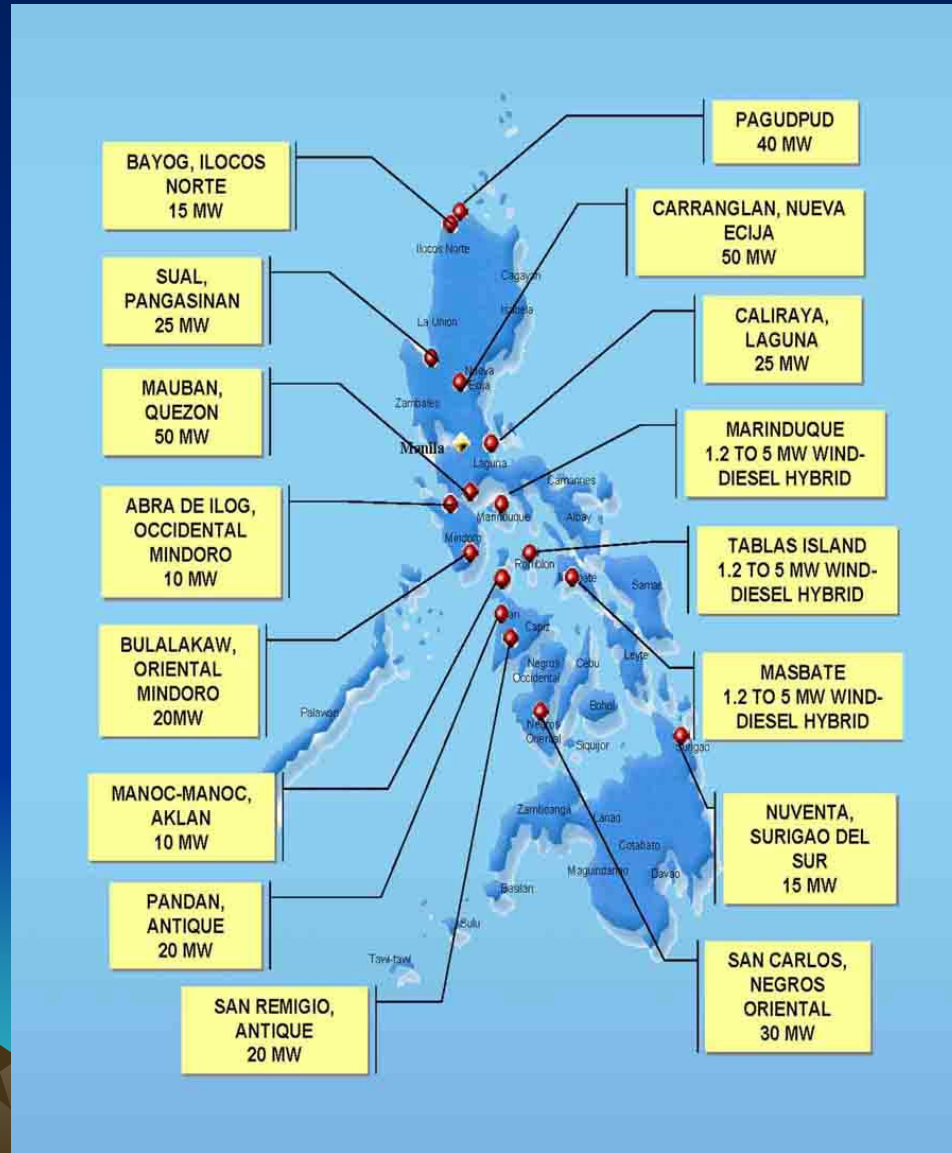
- 16 potential wind sites were offered with a total capacity of 345 MW during the launching of Wind Power Investment Kit.
- 5 Wind Power Contracts were awarded to the following proponents:
  1. Philippine Hybrid Energy Systems, Inc (PHESI)
  2. Trans-Asia Renewable Energy Corporation
  3. SmithBell RESCO



# MILESTONE

- Commissioning of the 180 kW Wind Power Project in Batanes in August 2004 through the cooperation of the DOE, Provincial Government fo Batanes, NPC-SPUG, FPEC & DBP
  - Installation/erection of the 1<sup>st</sup> Wind Turbine of the 25 MW NorthWind Project last 12 March 2005. EPC contractor is VESTAS. Expected date of commissioning is April 2005.
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# Original 16 Wind Potential Sites






# 10 Sites for Contracting Round



# Guidelines for Wind Power Contracting Round Application

1. Foreign-owned company applying for a WPP contract over an open area must form a joint venture with a Filipino-owned company or consortium with Filipino-owned companies such that the foreign-owned company will have a maximum 40% participating interest in the consortium. Whether in joint-venture or consortium, the operator designated shall be a Filipino owned or controlled company.
2. The applicant must meet all the technical, legal and financial requirements. For a consortium, each member company must be technically, legally and financially qualified.

3. In cases where the applicant is a consortium, each member must have at least a 10% participating interest.
  4. The Applicant must pay an application fee amounting to P5,000.00. The Wind Power Investment Kit and brochures of the potential wind power project sites are provided upon payment of the said amount;
  5. Applications must be in both paper and digital copies (CD-ROM in Microsoft Word, pdf, or a web legible format). Book Antiqua 12 font and single line spacing are recommended. Figures must be submitted in appropriate format, no larger than A3 size. If necessary for legibility, figures and maps may be submitted at a larger scale as appendices.
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6. Both the original paper copy and digital copy of the application must be sent by courier, registered mail or hand delivered to:

Peter Anthony A. Abaya  
Undersecretary  
Department of Energy  
Energy Center, Merritt Road  
Fort Bonifacio, Taguig, Metro Manila 1201  
Philippines  
Tel. (+632) 840 2236  
Fax (+632) 840 2138

All applications must be received by the Department of Energy by 1700 hrs. Philippines time, October 31, 2005.

The DOE RE Contract Negotiating Panel shall open the submitted documents on November 3, 2005 at 0900 hours Philippine time.

7. The following documents should be included in the application:
  - a. Letter of Intent/Application
  - b. Duly accomplished Wind Power Project (WPP) Form 1
  - c. Project proposal for the conduct of a detailed technical and financial viability study regarding the proposed wind power project site/s.

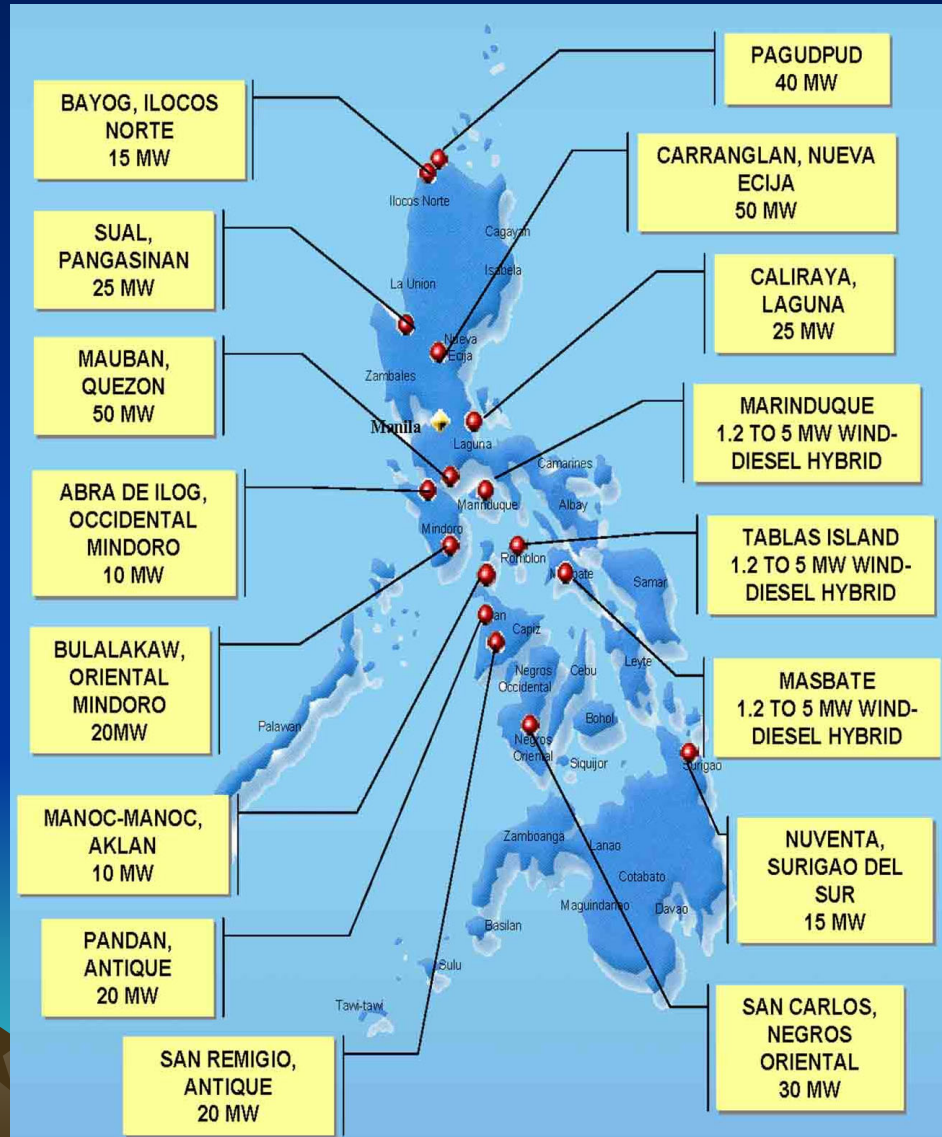
## Proposed outline of the proposal.

- Title of the project
- Information on company/consortium
- Total cost of the project
- Breakdown of cost of the project
- Implementer/s
- Objectives of the study
- Work Program - Detailed discussions of proposed activities and corresponding methodologies to accomplish the same, Financial, Information and Social Preparation Plan
- Gantt Chart of activities
- Logframe matrix of the project

8. The Applicant must have a minimum working capital equivalent to one hundred percent (100%) of the cost of the firm's work program for the first Contract Year in the area being applied for. Working capital refers to the company's net liquid assets (liquid assets less current liabilities).



# Original 16 Wind Potential Sites





# 10 SITES FOR CONTRACTING ROUND



# KFW WIND SITES

- Manoc-manoc, Aklan
- Bayog, Burgos, Ilocos Norte
- Nuventa, Surigao del Sur

source – PEP 2005 Update



# SPANISH PROTOCOL WIND SITES

- Implementation of wind projects in:
  - Camiguin
  - Siargao
  - Dinagat Island
- Feasibility studies for wind-diesel hybrid in:
  - Catanduanes
  - Marinduque
  - Masbate
  - Romblon
  - Mindoro

source – PEP 2005 Update



**End of Presentation**

