



The Government of the  
Philippine Republic



Department of Energy



**THE INCEPTION WORKSHOP OF RETA 7485:  
EFFECTIVE DEPLOYMENT OF SMALL WIND SYSTEMS IN ASIAN RURAL AREAS  
AND  
THE 2ND MEETING OF THE ENERGY FOR ALL PARTNERSHIP WORKING  
GROUP ON WIND POWER**

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# Outline

- 1. Introduction**
- 2. Objectives**
- 3. Methodologies**
- 4. Schedule of Activities**
- 5. Financial Requirements**

- **Title of Proposal :**

Commercial Dissemination of Small-Scale Wind Power Generators in Off-grid Areas in the Philippines

- **Proponent :**

Philippine Department of Energy  
(PDOE)

## ■ **Cooperating Agencies :**

- National Power Corporation-Small Power Utility Group (NPC-SPUG)
- Rural Electric Cooperatives (RECS)
- Local Government Units (LGUs)

## ■ **Project Sites :**

- NPC-SPUG areas with wind resource potentials

## ■ **Project Duration :**

- Two & one-half (2 ½) years

# INTRODUCTION

## TOWARDS THE IDEAL ENERGY STATE IN 2030

*Strategic Directions 2009-2030*

GOP Directive

2008 Philippine  
Energy Summit

PEP Consultations

Sustainable  
Development  
Framework

International  
Frameworks on  
Energy Cooperation

***Ensuring the  
best energy  
choices for a  
better quality  
of life***

***Ensure energy security***

***Pursue effective  
implementation of energy  
sector reforms***

***Implement social  
mobilization and cross-  
sector monitoring  
mechanism***

# INTRODUCTION

## POLICY THRUSTS

### 1 Ensure energy security

- Accelerate the exploration and development of oil, gas and coal resources
- Intensify development and utilization of renewable and environment-friendly alternative energy resources/technologies
- Enhance energy efficiency and conservation
- Attain nationwide electrification
- Put in place long-term reliable power supply
- Improve transmission and distribution systems
- Secure vital energy infrastructure and facilities
- Maintain a competitive energy investment climate

# INTRODUCTION

## POLICY THRUSTS

### 2 Pursue effective implementation of energy sector reforms

- Monitor the implementation of, and if necessary, recommend amendments to existing energy laws
- Promote an efficient, competitive, transparent and reliable energy sector
- Advocate the passage of new and necessary laws

# INTRODUCTION

## POLICY THRUSTS

### 3 Implement social mobilization and cross-sector monitoring mechanism

- Expand reach through Information, Education and Communication
- Establish cross-sector monitoring mechanism in cooperation with other national government agencies, academe, LGUs, NGOs and other local and international organizations
- Promote good governance

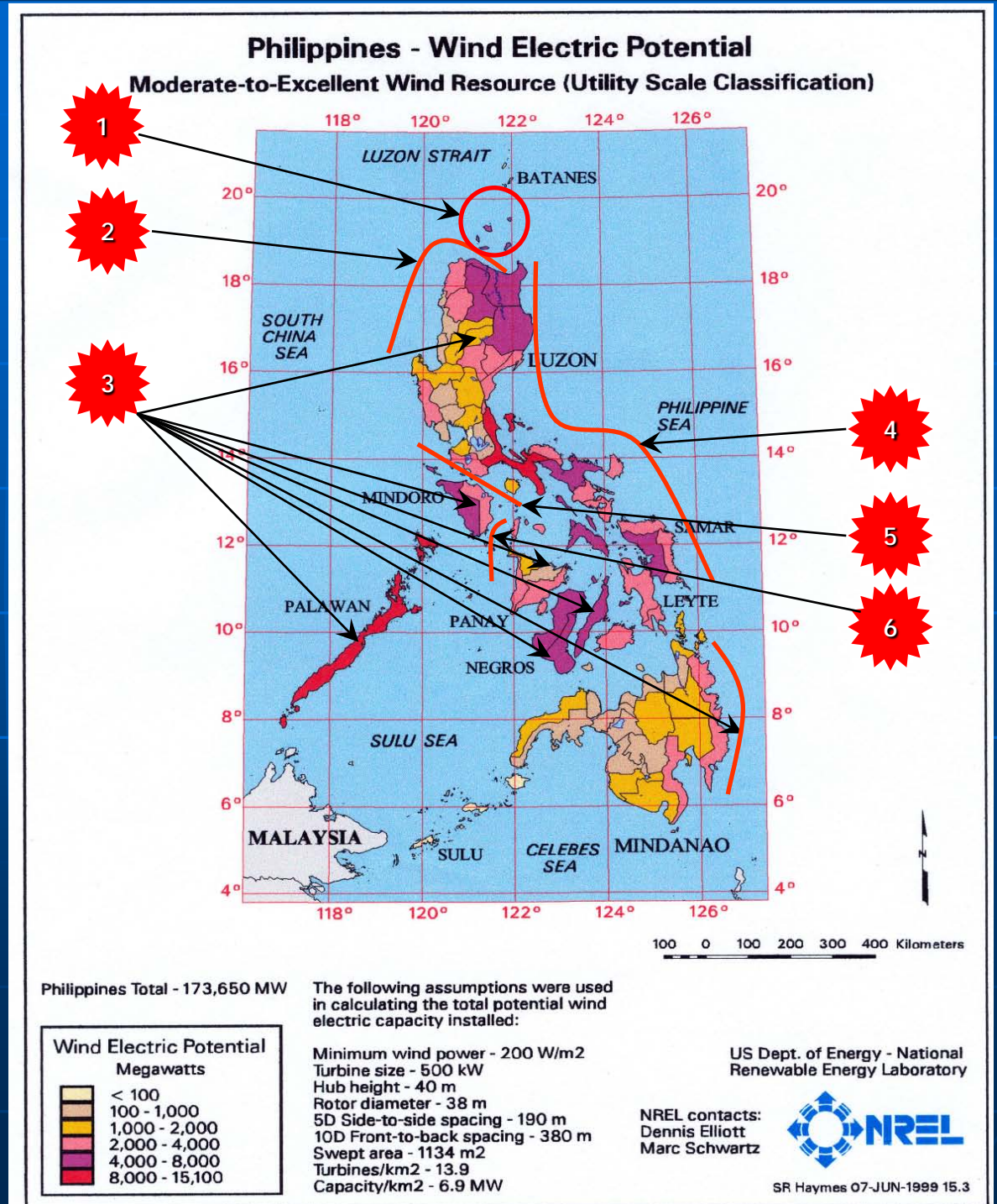
# INTRODUCTION

## WIND RESOURCE

Over **10,000 km<sup>2</sup>** with **76,600 MW** of potential capacity

### 6 Identified Regions

1. Batanes and Babuyan Island
2. Northwest tip of Luzon (Ilocos Norte)
3. Higher interior terrain of Luzon, Mindoro, Samar, Leyte, Panay, Negros, Cebu, Palawan, Eastern Mindanao and adjacent islands
4. Well-exposed east-facing coastal locations from Northern Luzon southward to Samar
5. The wind corridors between Luzon and Mindoro (including Lubang Island)
6. Between Mindoro and Panay (including the Semirara & Cuyo Island)



# INTRODUCTION

- **Legislative Framework**

Republic Act (R.A.) 9513 – The Renewable Energy Act of 2008

- Fiscal Incentives
- Non-Fiscal Incentives

# INTRODUCTION

- Expanded Rural Electrification Program

90% household electrification by 2017

- Grid Extension
- Off-grid electrification (upland & island villages)

# OBJECTIVES

## General :

To contribute to the improvement of the economic, environmental and health conditions of communities in off-grid windy areas of the country.

# OBJECTIVES

## Specific :

1. Conduct resource & market assessment for small wind power generators (SWPG);
2. Develop SWPG project implementation plan;
3. Implement SWPG demonstration projects; and
4. Implement commercial SWPG project.

# METHODOLOGY

- Resource & Market Assessment
  - Develop criteria for site selection;
  - Identify potential sites;
  - Develop socio-economic survey questionnaire;
  - Conduct socio-economic survey;
  - Procurement and installation of wind meteorological masts;
  - Analysis and interpretation of the results of the resource & market assessment; and
  - Develop resource and market database.

# METHODOLOGY

## ■ SWPG Implementation Plan

- Conduct of technical feasibility and financial viability studies;
- Identify and develop strategies to address the technical and non-technical challenges in the implementation of the project;
- Develop implementation manual; and
- Develop priority list of potential sites.

# METHODOLOGY

- SWPG demonstration projects
  - Procurement and installation of demonstration projects;
  - Project monitoring and evaluation; and
  - Fine-tuning of the SWPG project implementation plan.

# METHODOLOGY

- SWPG commercialization projects
  - Procurement and installation of commercial SWPG projects;
  - Project monitoring and evaluation; and
  - Develop best practices in the implementation of SWPG.

# SCHEDULE OF ACTIVITIES

# BUDGETARY REQUIREMENTS

	<u>COSTS (US\$)</u>
• Equipment (wind & solar measuring devices and related test devices)	50,000.00
• Wind demonstration project	45,000.00
• Surveys and study tours	25,000.00
• Contingencies	12,000.00
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<b>Total</b>	<b>132,000.00</b>

**Thank You !**