

# **The CDM-DNA in the Philippines**

Japan Carbon Investors Forum  
24 March 2005, Tokyo, Japan

# Significant Milestones in the Philippines' Response to Address Climate Change

- Created the Inter-Agency on Climate Change in May 1991
- Signed the UNFCCC in June 1992 during the Earth Summit in Rio de Janeiro
- **Ratified the Kyoto Protocol on November 20, 2003**
- **Designated the DENR as the National Authority for CDM on June 25, 2004**

June 25, 2004

Executive Order 320 Designating the **Department of Environment and Natural Resources (DENR)** as the CDM National Authority in the Philippines signed by President Gloria Macapagal Arroyo

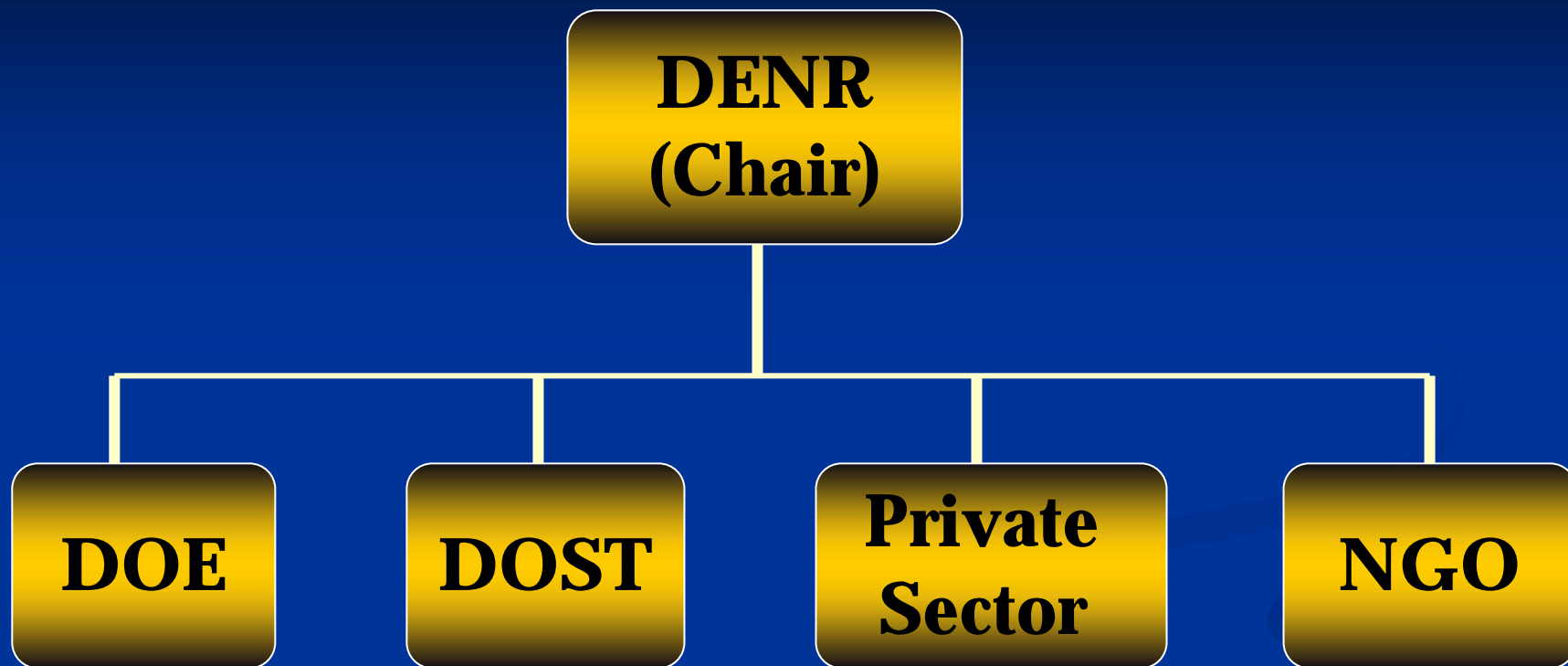
### Powers and Functions of the NA:

1. Formulate and develop a national CDM policy;
2. Develop the criteria, indicators, standards and procedures, and evaluation tools for the review of CDM projects;
3. Undertake the assessment and approval of CDM projects that will be submitted to the UNFCCC;
4. Monitor the implementation of CDM projects;
5. Perform other functions related to and in pursuance of the development of CDM.

# **Proposed Institutional Structure**



# Proposed CDM Steering Committee



**DENR** Department of Environment and Natural Resources

**DOE** Department of Energy

**DOST** Department of Science and Technology

# Proposed Support Institutions

## ■ CDM Secretariat

- Environmental Management Bureau (EMB) Central Office

## ■ Technical Evaluation Committee (TEC)

### ■ For Energy Projects

- Lead Agency: Department of Energy

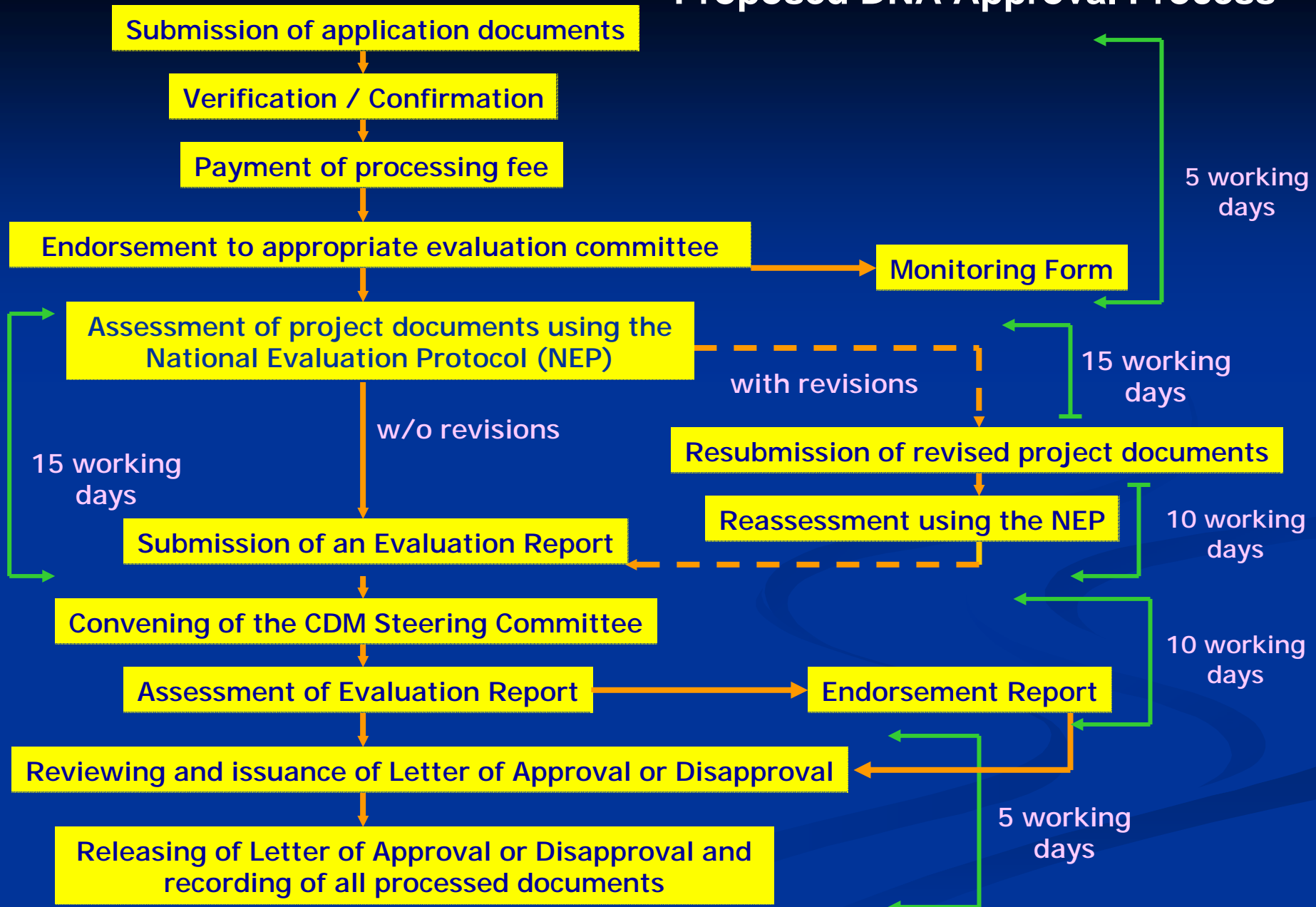
### ■ For Waste Management Projects

- Lead Agency: National Solid Waste Management Commission (NSWMC)

### ■ For Forestry Projects

- Lead Agency: Forest Management Bureau (FMB)

# Proposed DNA Approval Process



# **Proposed National Approval Criteria**

# Proposed Approval Criteria

- A Proposed Project shall be given national approval if it assists the Philippines in achieving **sustainable development**.
- A Proposed Project shall be assessed using **sustainable development** criteria which are meaningful from a **project level perspective** and are in line with the **Philippine Agenda 21**.
- A Proposed Project shall be evaluated using criteria for the three dimensions encompassing **sustainable development** : **economic, environmental** and **social**.

# Proposed Approval Criteria

- Project level indicators, quantitative and/or qualitative, shall be used to identify the **sustainable development** impacts of a Proposed Project.
- Measures to **mitigate** significant **negative** impacts of a Proposed Project must be identified.
- Methods to **monitor** the major **sustainable development** impacts of a Proposed Project must be identified.
- The **overall sustainable development** impact of a Proposed Project must be **positive**.

# **Proposed Sustainable Development Criteria**

# Sustainable Development Criteria

## Economic Dimension

- ✓ Generates sustainable employment of local community
- ✓ Provides livelihood and other economic opportunities in the community
- ✓ Provides proper safety nets and compensatory measures for the affected minority
- ✓ Uses cleaner, more efficient and environment-friendly technology

# Sustainable Development Criteria

## Environmental Dimension

- ✓ Complies with environmental policies and standards
- ✓ Provides local environmental benefits
- ✓ Promotes sustainable use of natural resources
- ✓ Protects and conserves local biodiversity

# Sustainable Development Criteria

## Social Dimension

- ✓ Provides measures to alleviate poverty
- ✓ Provides education and training which build the capacities of local stakeholders
- ✓ Provides vulnerable groups access to local services
- ✓ Promotes local participation in the project

# SD Criteria proposed by the Technical Evaluation Committee - Energy

- Increase in self-sufficiency through the
  - Development and utilization of indigenous energy resources and
  - Accelerated development and use of renewable energy and alternative fuels
- Wider access to reliable supply of electricity through the use of renewable energy
- GHG emission reduction through
  - Cleaner fuels
  - Clean energy technologies
- Generate energy savings from energy efficiency programs or adoption of new or improved process/technology

# SD Criteria proposed by the **Technical Evaluation Committee - Waste**

- ◆ Accelerates waste segregation and reduction
- ◆ Adopt cleaner production
- ◆ Reduce GHG emissions through the use of environment-friendly appropriate technology and best available practices (e.g. gas control and recovery systems)
- ◆ Ensure compliance with effluent standards and other existing regulations such as through the installation of wastewater/leachate/treatment systems
- ◆ Establish technically acceptable disposal processes, methods and facilities

# Additional SD Criteria proposed by the Philippine Network on Climate Change

- Promotes local institution (community-based organizations) building
- Promotes equitable sharing of benefits
- Promotes gender equality

# POTENTIAL CDM PROJECTS IN THE PHILIPPINES

|    | <b>CATEGORY</b>  | <b>PROJECT TITLE</b>  | <b>ANNUAL ESTIMATED GHG EMISSIONS REDUCTION (in t CO<sub>2</sub> equivalent)</b> |
|----|------------------|---|--|
| 1. | Waste Management | Rocky Farms Piggery Waste Biogas Digesters Project, Municipality of Pililia, Rizal Province         | 3,364 MT   |
| 2. | Waste Management | Container Corporation of the Philippines (CCP) Wastewater Gas to Energy Project, Quezon City        | (no estimates provided)  |
| 3. | Waste Management | Tanay Municipal Landfill Gas to Energy Project, Tanay, Rizal Province                               | 385,600 MT (Total Project Emission Reduction Potential)                          |
| 4. | Waste Management | PNOC Exploration Corporation (PNOC EC) Payatas Landfill Gas to Energy Project, Payatas, Quezon City | 35,843   |
| 5. | Waste Management | CAT Waste-to-Energy Biogas Project, San Miguel, Tarlac City, Tarlac Province                        | 54,000   |
| 6. | Waste Management | Boracay ReSTORE Waste-to-Energy Project, Boracay Island, Municipality of Malay, Aklan Province      | 4,617 (aggregate of wind and biogas components)                                  |

# POTENTIAL CDM PROJECTS IN THE PHILIPPINES

|     |                  |   |   |
|-----|------------------|---|---|
| 7.  | Waste Management | Waste to Energy: Integrated Solid Waste Disposal Projects in the Philippines covering 3 sites: Malilipot, Albay Province; City of Manila and Candon City, Ilocos Sur Province | Malilipot: 7,123<br>Manila: 11,397<br>Candon: 6,105 |
| 8.  | Waste Management | 50 MW Victorias Bagasse Cogeneration Plant Project, Victorias City, Negros Occidental Province  | 71,290 to 182,896                                   |
| 9.  | Waste Management | 30 MW First Farmers Cogeneration Project, Barrio Dos Hermanas, Talisay City, Negros Occidental Province   | 54,457 to 133,466                                   |
| 10. | Waste Management | La Suerte Rice Mill Cogeneration Plant Project, San Manuel, Isabela Province  | 6,798   |
| 11. | Waste Management | InterCo Rice Husk Power Plant Project, Balagtas, Bulacan Province   | 32,925  |
| 12. | Renewable Energy | 42 MW North Luzon Wind Power Project (Phase 1), Burgos, Ilocos Norte Province   | 78,319  |

# POTENTIAL CDM PROJECTS IN THE PHILIPPINES

|     |                                 |  |                               |
|-----|---------------------------------|--|-------------------------------|
| 13. | Renewable Energy                | 25 MW North Wind Bangui Bay Project (Phase 1), Bangui Bay, Ilocos Norte Province                             | 76,218.5                      |
| 14. | Renewable Energy                | 21 MW Solar Electric Company, Inc. Wind Farm Project, San Carlos City, Negros Occidental Province            | 13,524                        |
| 15. | Renewable Energy                | 10.8 Talubin River Basin Hydropower Project, Bontoc, Mountain Province                                       | 32,395                        |
| 16. | Afforestation and Reforestation | Streambank Rehabilitation and Ecological Enhancement in Tanay Micro-watershed Project, Tanay, Rizal Province | By 2011: 5,230 (low scenario) |
| 17. | Geothermal Energy               | 20 MW Palinpinon 2 Optimization Project, Palinpinon, Southern Negros   | 106,946                       |

# POTENTIAL CDM PROJECTS IN THE PHILIPPINES

|    |                  |  |                       |
|----|------------------|--|-----------------------|
| 18 | Waste Management | Waste to Energy Program for Philippine Pig Farms, nationwide   | 35,000 MT (aggregate) |
| 19 | Waste Management | General Santos Biogas Recovery and Utilization Project (from Municipal Food Waste In General Santos City)          | 23,600 t              |
| 20 | Waste Management | Isabela Rice Hull Power Generation/Cogeneration Program, Isabela Province  | 30,000 MT (aggregate) |
| 21 | Renewable Energy | Boracay ReSTORE WIND-BIOGAS Hybrid Project (WIND component), Boracay Is;and, Municipality of Malay, Aklan Province | 78,319 t              |
| 22 | Renewable Energy | Mindoro 12.5 MW Mini-Hydro Power Plant Project, Oriental Mindoro Province  | 42,500 t              |

# Thank you!

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