

# 2<sup>ND</sup> CDM CAPACITY BUILDING WORKSHOP

Holiday Inn, Suva, Fiji

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## High Potential Sectors for Clean Development Mechanism in Papua New Guinea

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# Outline

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1. Basis of Identification
2. Potential Sectors for CDM
3. High Potential Sectors for CDM
4. PNG Power Ltd's Potential Projects

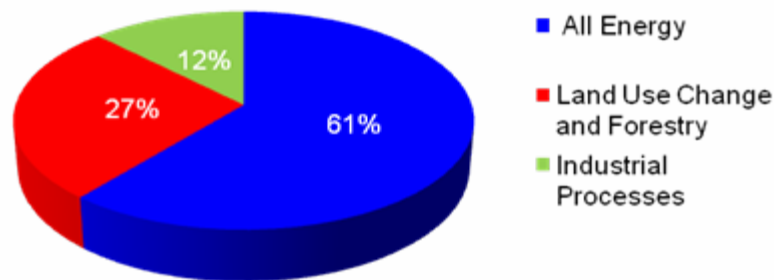
# 1. Basis of Identification

- High Potential Sectors for CDM are identified through the GHG Inventory for the National Communications to the UNFCCC.
- Other relevant documents include the following:
  - Climate Compatible Development Plan
  - PNG 2050 Vision
  - PNG Development Strategic Plans 2010 – 2030
  - PNG Medium Term Development Plans 2010 – 2015

## 2. Potential Sectors for CDM

- Sector emissions as part of Initial National Communication to UNFCCC in 2002 included the following Sectors.

**Sectorial Emissions**



- The reported sector emissions were taken as “work in progress” since only three categories were reported.
- The 2<sup>nd</sup> GHG Inventory as part of the 2<sup>nd</sup> National Communication is at its draft stage and encompasses energy, industrial processes, agriculture, land use change and forestry, and waste sectors.

# 3. High Potential Sectors for CDM

- Opportunities for CDM projects in PNG are abundant, which include the following sectors:
  - Renewable energy
  - Energy efficiency
  - Non-renewable energy
  - Waste Management
  - Transport Management
  - Afforestation and Reforestation
- Currently the leading sectors include:
  - Renewable Energy
  - Waste Management

## 4. Proposed CDM projects in PNG (Beside PNG Power proposed projects)

- Methane capture from POME and electricity generation projects (New Britain Palm Oil Ltd)
- East-West Sepik hydropower projects (OCCD)
- Sohun Hydropower project (OCCD)
- Tapioka Ethanol Biofuel Production (Changae Tapioka PNG Ltd)
- Jatropha Curcas Biofuel (PNG Correctional Services)
- Biodiesel from Waste Cooking Oil Project (PNG Biofuel Ltd)
- Tabare Afforestation Project

# 5. PNG Power Potential CDM Projects

- Renewable Energy Sector:
  - Town Electrification Investment Programme, Tranche 2 small hydropower projects; captured under the CDM Programme of Activities for small scale renewable energy projects.
  - Rural solar PV/ solar-wind hybrid projects incorporating Electric Double Layer Capacitors as power storage in parallel with conventional lead batteries.
  - 80 MW Naoro Brown hydropower project
  - 90 MW Mongi/Bulum hydropower project
  - 80 MW Luluai hydropower project
  - Capacity upgrade projects for existing hydropower stations
- Energy Efficiency
  - Supply-Side Management
- Fuel Switching
  - Diesel to LNG
- Waste Heat Recovery Generation from thermal power plants

# 5. Current PNG Power CDM Projects

- Renewable Energy Sector:

- Town Electrification Investment Programme, Tranche 1 small hydropower projects; captured under the CDM Programme of Activities for small scale renewable energy projects – in preparation for validation.

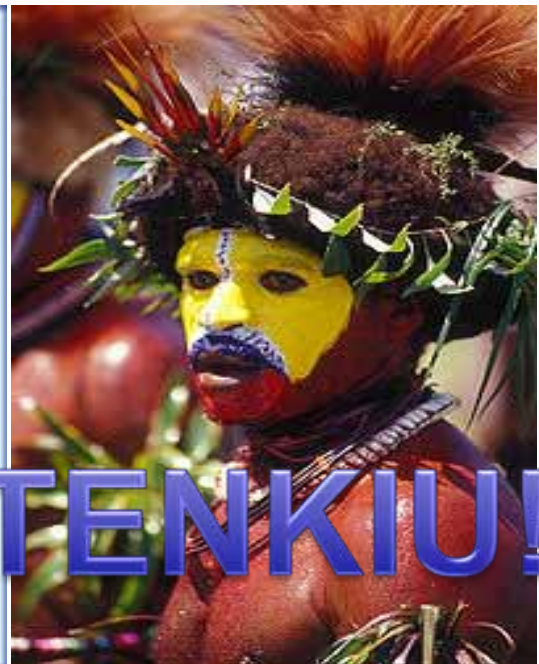
i.	Project	:	Divune hydropower project
	Capacity	:	3 MW
	CERs	:	20, 800 per annum
	Construction Commencement	:	January 2012
	Commissioning	:	December 2013

ii.	Project	:	Ramazon hydropower project
	Capacity	:	2.8 MW
	CERs	:	18, 200 per annum
	Construction Commencement	:	January 2012
	Commissioning	:	December 2013

- Naoro Brown hydropower project – undergoing phase 2 – detail feasibility study.

Capacity	:	80 MW
CERs	:	160, 000 – 180, 000 per annum





**THANK YOU/TENKIU!**

