

Renewable Energy in Lao PDR

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Map of Laos



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I. What is Renewable Energy

1. **Hydropower plant (small , mini , micro , PICO)**
2. **PV Solar**
3. **Biogas**
4. **Biomass**
5. **Biofuel**
6. **Geothermal**
7. **Wind and ...**

II. Current Status of Renewable Energy in Laos

1. Mini / Micro Hydropower plants
 - There are 26 projects (2005)
 - Total Capacity 5259 KW



The Nam Mong MicroHydropower Demonstration Project in Luangphabang province

2. Hybrid Power System Project in Oudomxay Province

-Microhydropower Plant 80 KW

-PV Solar Station : 100 KW

-Water Pump : 60 KW



3. PV Solar Project

3.1 Solar Battery Station (BCS)

JICA , Fondem , Sunlabob C



3.2 Solar Home System (SHS)

JICA , WB ,Sunlabob co. ...

3.2 PV Solar for water pumps
telecommunication ,
refrigerators ...



4. Biogas

- Demonstration of Biogas Project in Nongphouvieng Village Pakngum District Vientiane Municipality , About 30 households

Biogas – for Electricity and Cooking



- Now SNV is supporting the Biogas in Laos

5. Biomass Project



**First Demonstration
Biomass
by ricehusk**

Supported by NEDO

Capacity : 200 KW

Implemented by TRI

**(Technology
Research Institute)**

To conduct the ricehusk to be electricity

6. Other technology

- Biomass : Under promotion
- Biofuel : Biodiesel and BioEthanol -Under promotion
- Wind , Geothermal : Under Promotion

Current Electrification Ratio and Target

- **47 %** of households are electrified in **2004**
- **Next target in 2010 is 70%**
- **and in 2020 is 90%**

III. The promotion of Renewable Energy in the rural areas by the government

- **Electricity Law** : No.02-97/NA , 12/4/ 1997
 - Article38** : ...the Government encourage the development of electricity in the rural areas
 - Article 40** :Private entrepreneur or partnership does the construction and installation and later transfers the control of such facilities to the province, Prefecture, a special-zone, or a district;
 - **Article 41** : The government facilitates funds and loans to support tile construction, installation, and electricity development in the local and rural areas....

In addition, the government may allow exemption or reduction of taxes and may provide benefits of mobilization of equipment and materials essential for construction and operation of electricity in the local and rural areas.
- **Established** : Rural Electrification Fund (8/2005)

POWER SECTOR POLICY

- 1. Maintain and expand an affordable, reliable and sustainable electricity supply in Lao PDR to promote economic and social development;**
- 2. Promote power generation for export to provide revenues to meet GOL development objectives;**
- 3. Develop and enhance legal and regulatory framework to effectively direct and facilitate power development; and**
- 4. Strengthen institutions and institutional structures to clarify responsibilities, strengthen commercial functions and streamline administration**

IV . Drafting Policy for Renewable Energy in Laos

1. Coordinating with concerned ministries , institutional , NGO and Private company
2. Share the experience from other countries especially from the ASEAN
3. The policy may content about :
 - Promotion of investment
 - The incentive for investors
 - Tax exemption /reduction for the equipment
 - Long term tax holiday
 - The incentive tariff
 - Promotion of assembly and manufactory the equipment for renewable energy
 - Promotion of establish many electric service companies (ESCO)

- The investment and subsidy from the government
- The establishment of Renewable Energy Fund / or improve the existing fund
- PPA Standard for promotion of Renewable Energy
- Establishment of Renewable Energy Information Center
- Establish the incentive regulation , management and administrative of Renewable Energy
- Promotion of Renewable Energy Technology
- Promotion of research and Development
- Promotion of capacity building for Renewable Energy Technology
- Promotion of community ownership in the local areas for Renewable Energy
- Promotion private companies , NGO , International organization to support / implement Renewable Energy
- Promotion of natural resources protection for renewable Energy and

Thank you very much