



Overview of Energy Efficiency and Conservation in the Lao PDR

Bouathep MALAYKHAM

Deputy Director General

EE-C SSN Focal Point

Department of Energy Management

Ministry of Energy and Mines, Lao PDR



Contents of Presentation

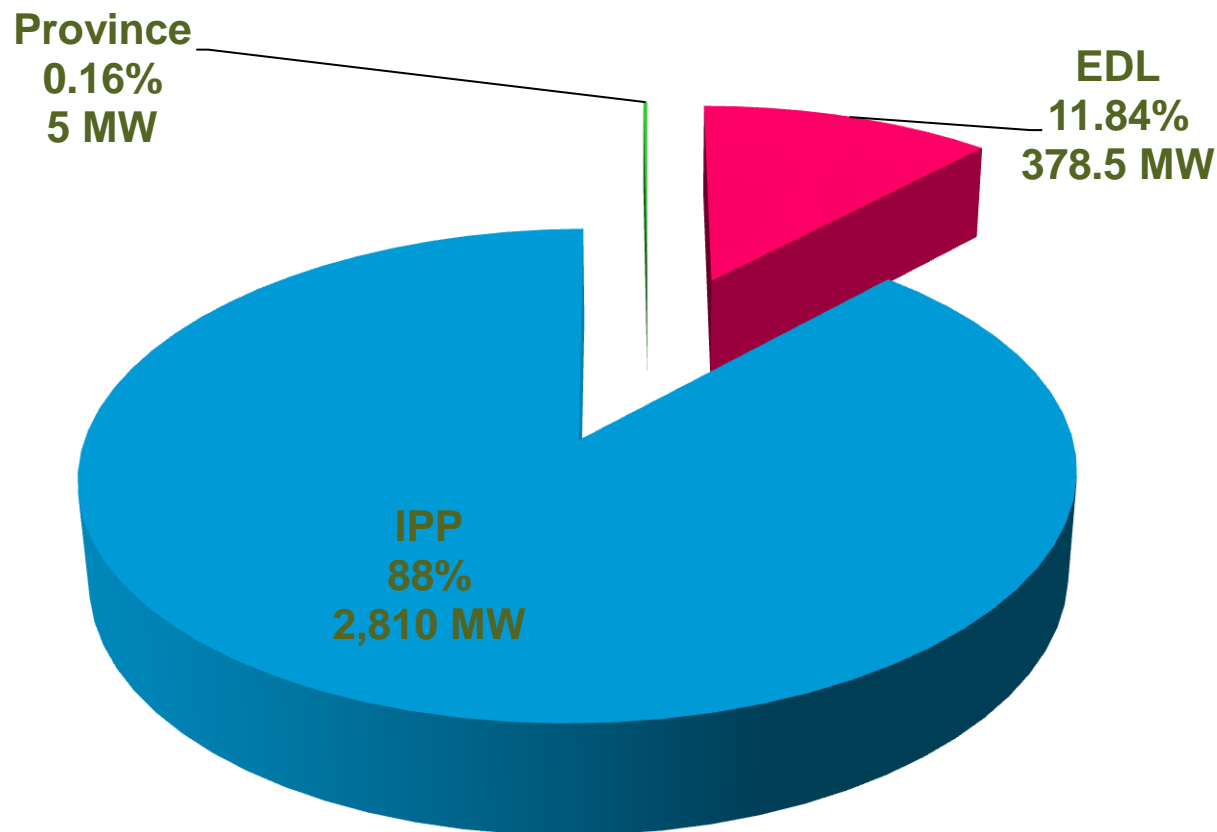
- Overview of energy consumption in Laos
- The current status of energy efficiency and conservation in Laos
- The activities and future program for EE-C
- Conclusion

Background



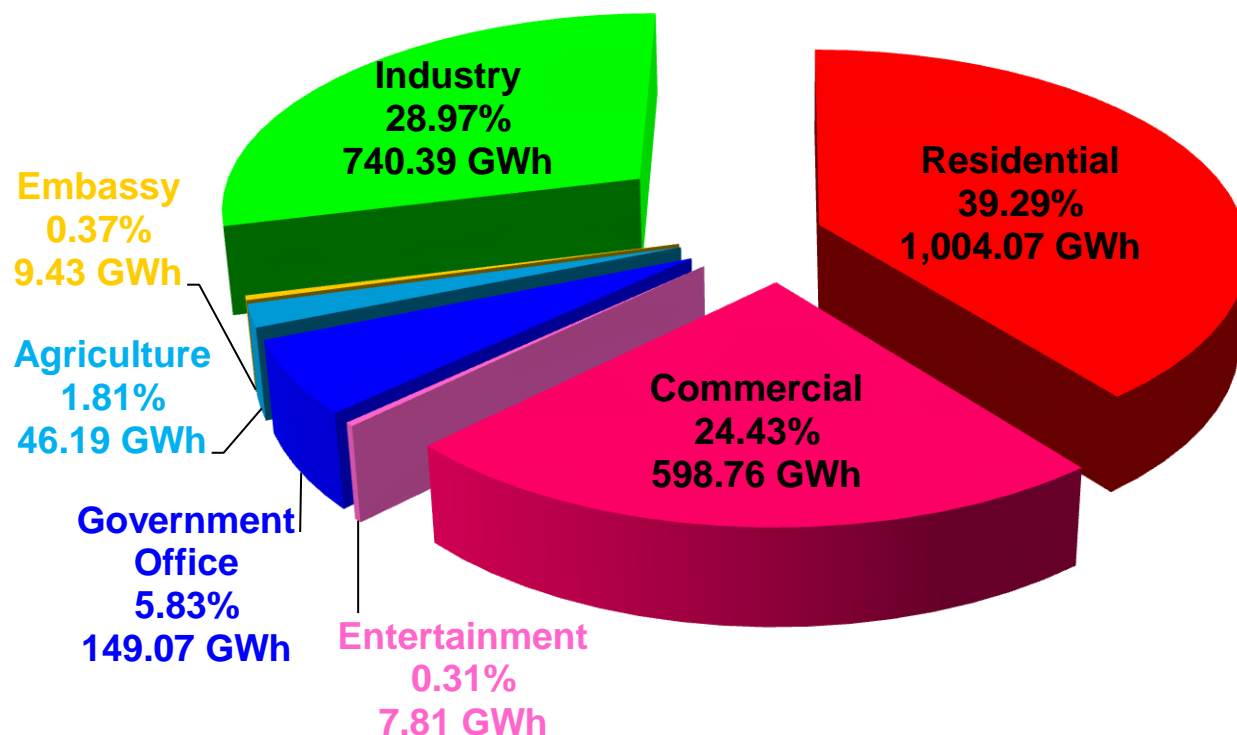
- Laos is a **landlocked country**
- **Vientiane** is the capital city
- Official language: **Lao language**
- The area of **236,800 km²**
- The population about **6.5 million** (in 2012 estimate)
- GDP real growth rate **8%** or about **9.5 billion** U.S. dollars
- The average population density is **23 per km²**
- Natural Resources: **Hydro power**

Background: Power Generation 2012



Total install capacity : 3,202.5 MW

Background: Electricity Consumption 2011



Total Electricity Consumption: 2,555.73 GWh

Background: Other Energy Consumption 2012

- Import of **petroleum** product: 933,445 KL

- Gasoline 213, 574 KL
- Diesel Fuel 685,766 KL
- Kerozene 7,644 KL
- Jet Fuel 19,000 KL
- Lubricants 7,462 KL

- Import of **LPG** : 821 tons

Background: Existing Law And Regulations

- The Law of Electricity (promulgated in April 1997) and revised twice:
 - December 2008
 - December 2011
- Lao Electric Power Technical Standards, 2004
- Guideline on Operation and Managing Lao Electric Power Technical Standards, 2007
- Safety Rules for Operation and Maintenance of Electrical facilities, 2007

It seems that present energy policy mainly focuses on electricity

Background: Other Regulation Related

- Environment Management Standard Documents ,2001
- Regulation on Implementation the Environmental Assessment for Electricity Projects in Lao PDR, 2001
- Environmental Management Standard for Electricity Project, 2003
- National Policy on Sustainability Hydropower Development in Lao PDR, 2006 (Present under revised by WB)
- Renewable Energy Development Strategy (here in after, REDS). June 2010
- In 2001 ,the government has issue the Decree on Public saving

The Current Status of Energy Efficiency and Conservation

1. National Energy Saving (EE&C) Target/Intensity Target (towards 2025)
The national energy saving plan from now to the year 2030 is estimated about 10%
2. The Strategy and Policy towards 2025 for the National Renewable Energy is under development, the main objective of this Strategy and Policy for Renewable Energy is promotion of the using Renewable Energy about 30% of the total energy consumption and in this 30% should be from the Biofuel 10%
3. ADB support one project for Laos to develop the Strategy and Policy for the Energy Efficiency and Conservation (now under development)

The Current Status of Energy Efficiency and Conservation cont...

4. WB supporting the EE-C Project by:
 - Change 400.000 bulb lamps to CFL
 - Change FL T8 to T5 in 50 building
 - Change 100 units of Window Air- cons to Ceiling Air- cons
 - Propagation of Energy Saving in the mass media
5. MEM continue to work with the ASEAN program as:
 - PROMEEC, AEMAS, Standard and Labeling
6. Government announced to stop the import second hand cars since February 2012.
7. Government of Japan give 40 new public bus to Government of Laos in June 2012

The activities and future program for EE-C

Year 2012-2014

1. Develop the Strategy and Policy for the Promotion of EE-C (Funded by ADB):
 - Organize training, seminar, workshop for promotion of EE-C
 - Implement some demonstration Project
2. WB continue to support EDL to implement the EE-C activities
3. Continue to Joint the ASEAN Program on EE-C:
 - PROMEEC
 - AEMAS
 - Standard and Labeling
 - AJEEP
 - Energy Saving Competition

The activities and future program for EE-C

Year 2014-2015

1. Light Monitoring System Program (**hopefully**)

Year 2015-2016

1. Develop the Guideline and Regulation for the Energy Efficiency and Conservation in the Residential , Building , Industries Sector
2. Promotion the EE-C in the Education Sector

The activities and future program for EE-C

Year 2016-2017

1. Develop the Master Plan for EE-C
2. Promotion on the Business for EE-C

Year : 2017-2018

1. Develop the Degree for the EE-C

Conclusion

Need the Assistance:

- Consultants, Experts and Finance

Deputy Director General
EE-C SSN Focal Point
Department of Energy Management
Ministry of Energy and Mines, Lao PDF
Tel /Fax : +856-21-450966
Mobile Phone: +856-20-22217917
E-mail : thepmalaykham@yahoo.com



Thank you
Any question?