# Overview of EE&C Activities in Myanmar

Presented by
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## **Outline of Presentation**

Part One : Background

Part Two : Activities

Part Three : Future Plan &

**Programs** 

# Part One: Background

## **Contents**

- Energy Policy
- Energy Sector Profile
- Regulations
- Present Institutional Arrangements

# Part One(1): Background

## **Energy Policy of Myanmar**

- To Maintain the Status of Energy Independence
- To Promote Wider Use of New and Renewable Sources of Energy
- To Promote Energy Efficiency and Conservation; and
- To Promote Use of Alternative Fuels in Household

# Part One(2): Background

## **Energy Sector of Myanmar**

- Oil and Gas Sub-sector
- **Electric Power Sector**
- Biomass (Fuel wood) Sector Ministry of Forestry
- Coal Sub-sector
- Renewable Energy

- Ministry of Energy
- Ministry of Electric **Power** 

  - Ministry of Mines
  - Ministry of Science & Technology

# Part One(3): Background

# Regulations

- Myanmar Electricity Law (1984)
- Electricity Act 1948 (As amended in 1967)
- Electricity Rules (1985)
- The Petroleum Act (1934) and
- Petroleum Rules of 1937 (As amended in1946)

# Part One(4): Background

# **Present Institutional Arrangements**

- National Coordinating Committee-(Ministry of Energy)
- Representation from the Sub-sector Ministries

# **Part Two: Activities**

## **Contents**

- Past Activities
- Impacts
- Barriers & Constraints

# Part Two(1): Activities

#### **Past EE&C Activities**

#### **UNDP / ADB Assisted**

Institutional Strengthening within the Ministry of Energy Project( ISME)-1991

## **Key Elements**

- (a) Energy Analysis
- (b) Energy Economics
- (c) Energy Conservation
- (d) Fuel Safety
- (e) Management Information System

# Part Two(2): Activities

### **Past EE&C Activities**

## **UNESCAP** Assisted

- Seminar on Energy Efficiency / Energy Conservation in the Industrial Sector, 23-24 October 1996,
- Seminar on Practical Training Course on Efficient Energy Management in Industries (Phase I), 19-21 August 1998 and (Phase II), 4-5 November 1998, Myanmar

# Part Two(3): Activities

# Past Activities ASEAN EE&C - SSN

- Promotion of Energy Efficiency and Conservation ( PROMEEC)
  - Mann Petroleum Refinery Site visit & Energy Audit,
     17-22 December 2001, Myanmar
- Promotion of Energy Efficiency and Conservation (PROMEEC)
  - Building Energy Audit Training , 13-17 January 2003 , Yangon,
     Myanmar
- Workshop of the Working Group for Benchmarking and Energy Audit Guideline Development Project (PROMEEC), 28 February 2003 to 1 March 2003, Yangon Myanmar
- On the Job Training on energy audit on energy efficiency and conservation for Industry conducted on 20-24 November 2006 in Myanmar by the ASEAN Centre for Energy and Energy Conservation Centre, Japan under the Promotion of Energy Efficiency and Conservation (PROMEEC) Project of the ASEAN Senior Officials Meeting on Energy Ministry of Energy, Trade and Industry (SOME- METI) Work Program 2006-2007.

# Part Two(4): Activities

## **Impact from Past Activities**

Very Little Impact due to poor follow up activities

# Part Two(5): Activities

## **Barriers & Constraints**

- Supply Constraints
- Lack of proper understanding of EE&C
- Low tariffs
- Financial constraints
- Institutional constraints

# **Part Three: Future Plan & Programs**

### **Contents**

- UNESCAP Program
- ASEAN Program

## Part Three(1): Future Plan & Programs

# Planned Activities ASEAN Program

- Preparation for Myanmar Nationals to receive accreditation under the AEMAS
  - (1) ADB Fundung
  - (2) Others
    - Competing in ASEAN Energy Awards EE&C Best Practices in Buildings
    - Participation in ASEAN EE&C SSN and PROMEEC Activities
- Collaboration with ESCAP
  - (1) Advisory Services to Facilitate the development of a framework on energy management system in Myanmar

## Part Three(2): Future Plan & Programs

**ASEAN Program - Key Components** 

## **AEMAS Program**

- Training of Energy Managers according to AEMAS
   Curriculum
- ASEAN Awards
- PROMEEC

# Part Three(3): Future Plan & Programs

## **UNESCAP Program**

- Framework on Energy Management System
- Key Elements

**Objective** 

Methodology

**Priority Actions** 

# **Objective**

 To promote every management best practice in industrial and commercial facilities

# **Methodology**

# How to improve energy efficiency?

- House keeping measure
- Implement sustainable energy management system
- Adopt energy efficient technologies

# **Needs for Implementation**

# Human resources development, training and access to information

Leadership at government and ministerial level

# **Proposed Institutional Setup**

- Central Government
- Energy Efficiency Committee
- Secretariat
- Technical Advisory National Focal Point

# Part Three (4): Future Plans & Programs

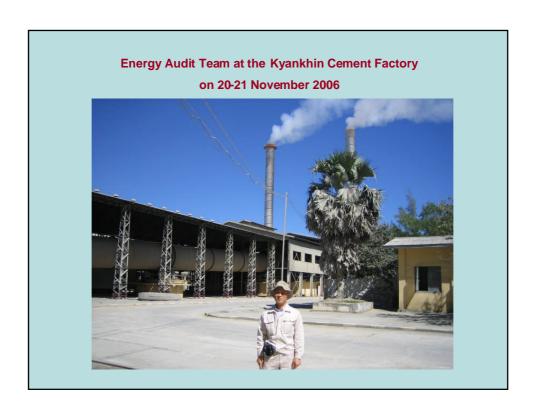
## **Basic Technical Skills to be Developed**

- Heat Management
- Power Utilities Management
- Steam Utilities Management
- Theory and Practice in Energy Efficiency & Energy Conservation
- Theory and Practice in Energy Auditing

# Part Three (5): Future Plans & Programs

## **UNESCAP Program Planned Activities**

- Identification of industries according to energy use for implementing the energy management system
- Preparation of TOR for the person in change for energy
- Development of a data collection and compilation system
- Develop a system for reporting
- Impart basic technical skills













Energy Audit Team at the Thanlyin Refinery on 23<sup>rd</sup> November 2006









Overview of

**EE&C Activities in** 

Myanmar

# Thank You for Your Attention

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