DIRECTORATE OF ENERGY CONSERVATION

INDONESIA POLICIES IN ENERGI EFFICIENCY

DIRECTORATE GENERAL OF NEW ENERGY, RENEWABLE ENERGY, AND ENERGY CONSERVATION

Jakarta, 2015
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• BACKGROUND
**ECONOMIC GROWTH**

- GDP (Trillion IDR)
  - 2009: 2,177
  - 2011: 2,177 * 6.1%
  - 2013: 2,177 * 6.1%
  - 2015: 2,177 * 6.1%
  - 2017: 2,177 * 6.1%
  - 2019: 2,177 * 6.1%

**ENERGY CONSUMPTION GROWTH**

- Energy (Million SBM)
  - 2009: 712
  - 2011: 712 * 7.1%
  - 2013: 712 * 7.1%
  - 2015: 712 * 7.1%
  - 2017: 712 * 7.1%
  - 2019: 712 * 7.1%

**POPULATION GROWTH**

- Population (Million)
  - 2009: 231
  - 2011: 231 * 1.1%
  - 2013: 231 * 1.1%
  - 2015: 231 * 1.1%
  - 2017: 231 * 1.1%
  - 2019: 231 * 1.1%

**Notes:**
- Data taken from *Handbook of Energy & Economic Statistics of Indonesia 2014*
- Biomass is not included

- Decrease in energy intensity of 1% per year
- Energy elasticity less than 1 in 2025
- Optimizing Resources New Energy and Renewable Energy

**CONDITION AND TARGET**

**CONDITION IN 2013**
- Crued Oil (40%)
- Coal (25%)
- Natural Gas (22%)
- GasAlam (13%)
- Renewable Energy (10%) [PERCENTAGE]

**TARGET IN 2025**
- Batubara (30%)
- Minyak Bumi (25%)
- EBT (23%)
- GasAlam (22%)
- New ENergy (Nuclear, CBM, etc) (10%) [PERCENTAGE]

**NATIONAL ENERGY POLICIES** (PP No. 79, 2014 About National Energy Policies)

- Biofuel (5%)
- Biomass (5%)
- Geothermal (7%)
- Water Energy (3%)
- New ENergy (Nuclear, CBM, etc) (3%)
Climate Change Issues has become a global, regional and national issues. Climate change occurs as a result of accumulated emissions of greenhouse gases (GHG). Energy sector is one of the emitters sector of Greenhouse gases. Indonesia committed to reduce greenhouse gas emissions.

### Government's commitment to reduce greenhouse gas emissions by 2020

- **26%** (767 million Ton) own efforts
- **41%** Own efforts and international support

**Forestry, Peat, Agriculture**
- 680 million Ton

**Energy Sector and Transport**
- 38 million Ton

**Waste**
- 48 million Ton

**Industry**
- 1 million Ton

Through the development of renewable energy and implementation of energy conservation across all sectors.
Responsibilities of Central Government / Local, Entrepreneur and Community

Implementation of Energy Conservation

Standards and labels

Ease, Incentives and Disincentives

Development and Supervision

"Users ≥ 6,000 TOE of energy, shall conduct ENERGY MANAGEMENT, namely:
- Appoint energy managers;
- ENERGY AUDIT carry out regular basis;
- implement the recommendations the results of energy audits; and
- The reported execution energy conservation every year"

"The level of energy efficiency labels containing information about the level of energy use an energy utilizing equipment"
• NATIONAL ENERGY POLICIES
MILESTONE OF ENERGY CONSERVATION REGULATION

1982
- Presidential Instruction No. 9/1982 concerning on Energy Conservation

1995
- Master Plan National Energy Conservation

2002
- Law No. 28 / 2002 concerning on Building

2006
- Presidential Decree No. 5/2006 concerning on National Energy Policies

2007
- Law No. 30/2007 on Energy

2008
- Presidential Instruction No. 2/2008 concerning on Energy and Water Saving

2009
- Government Regulation No.70/2009 concerning on Energy Conservation
  - Presidential Instruction No. 13/2011 on Energy and Water Saving

2011
- Ministerial of EMR Regulation on Energy and Water Saving
  - Ministerial of EMR Regulation No. 13/2012 concerning on Electrical Energy Saving
  - Ministerial of EMR Regulation No. 14/2012 concerning on Energy Management
  - Ministerial of EMR Regulation No. 15/2012 concerning on Water Saving
  - Ministerial of EMR Regulation No. 01/2013 concerning on Control of Fuel Oil Using
  - Ministerial of EMR Regulation No. 4051K/07/MEM/2013 concerning on Catur Dharma Energi

2012 & 2013
- Ministerial of EMR Regulation on Energy and Water Saving
  - Ministerial of EMR Regulation No. 18/2014 concerning on Affixing Label for Ballasted Lamp
  - Ministerial of EMR Regulation No. 19/2014 concerning on Electricity Tariff
  - Government Regulation No. 79/2014 concerning on National Energy Policies

2014
  - Ministerial (MOL) Decree No. 80/2015 on Implementation of National Competency Standard for Energy Manager in Industry and Building
MAIN PROGRAMS ENERGY EFFICIENCY

REGULATION
- Develop/improve regulation

PUBLIC AWARENESS RAISING
- Seminar/workshop
- Socialization through electronic, social media, etc
- Home and School Energy Champion

MONITORING RAN-GRK
- RAN GRK target up to 2020: 30 Million Ton CO₂

STANDAR DAN LABEL

PARTNERSHIP PROGRAM / IGA
- Implementation of Energy Audit;
- Monitoring of energy audit achievement
- Implementation of investment Grade Audit (IGA)

PENERAPAN SNI:ISO 50001
- Penerapan ISO 50001: Sistem Manajemen Energi di Industri dengan pendampingan tenaga ahli nasional;
- Penerapan kewajiban pelaksanaan manajemen energi bagi perusahaan lebih besar sama dengan 6.000 TOE/tahun (sebanyak 150 obyek).

EFFICIENT STREET LIGHTING
- Develop smart street lighting concept in 22 cities
- Develop national efficient street lighting forum
- Cooperation with USAID, ADB to develop pilot project

ENERGY MANAJER DAN AUDITOR
- Development of national competency standard.
- Certification (total 60 personels).

TARGET
1. Energy Intensity
2. Energy Elasticity
3. Emission Reduction

PROGRAM KONSV. ENERGI
Thank You...