

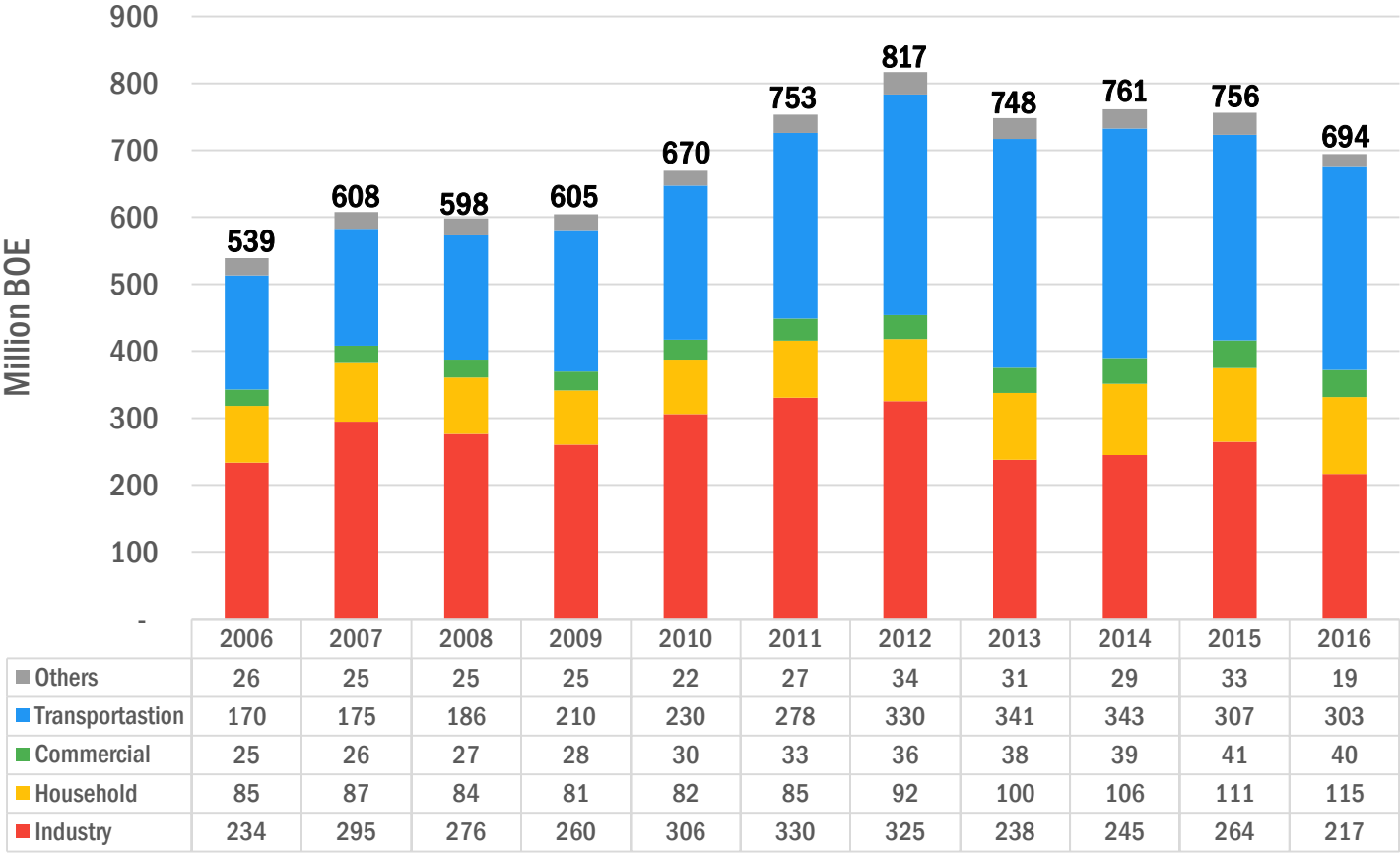


DIRECTORATE GENERAL OF NEW RENEWABLE ENERGY & ENERGY CONSERVATION  
MINISTRY OF ENERGY AND MINERAL RESOURCES

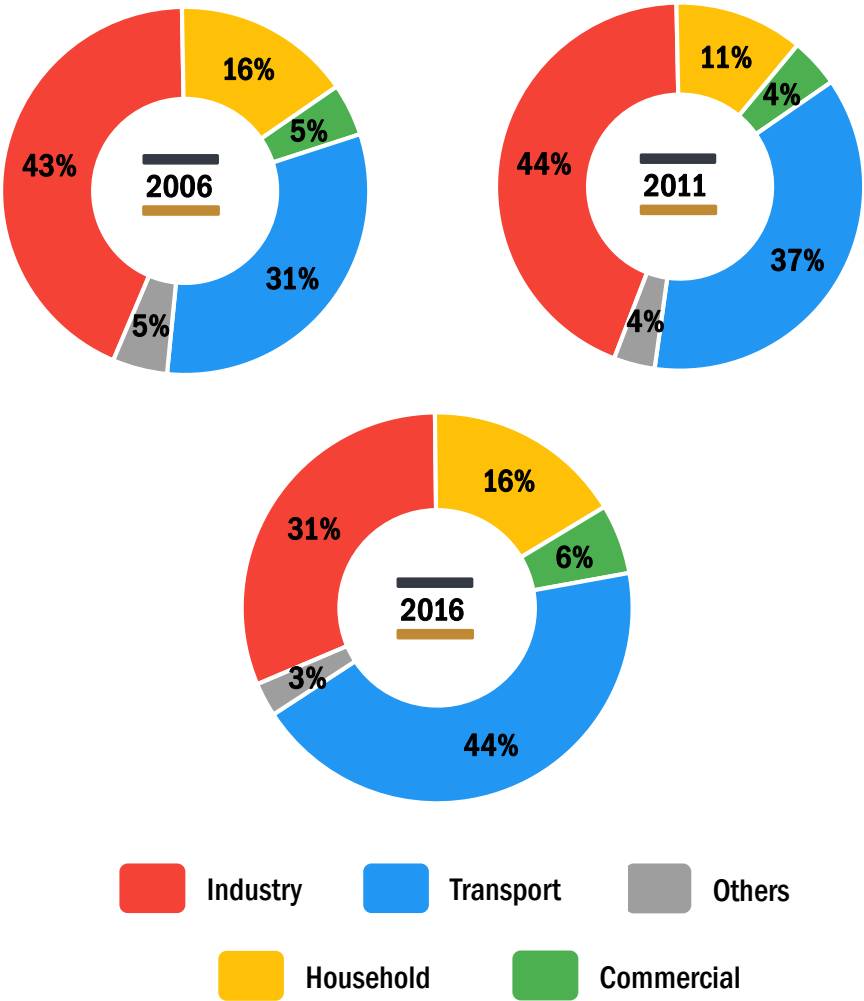


# INDUSTRIAL ENERGY EFFICIENCY POLICY IN INDONESIA

# Final Energy Consumption



Final Energy Mix by Sector



# Energy Saving Potential



## INDUSTRY

Consumption 2016: **217** MBOE

Energy saving potential

**10-30** %



### Programs:

- Energy Audit/ IGA/ ESCO
- Energy Management/ ISO 50001
- Online reporting system
- Energy manager&auditor certification
- Increase public awareness
- Pilot Project

## COMMERCIAL

Consumption 2016: **40** MBOE

Energy saving Potential

**10-30** %



### Programs:

- Energy Audit / IGA/ ESCO
- Pilot Project
- Energy Efficiency Standard
- Online Reporting System for Government Building

## TRANSPORT

Consumption 2016: **303** MBOE

Energy saving Potential

**15-35** %



### Programs:

- Mass transport (BRT/ MRT/ LRT)
- Fuel Switching (Fuel oil to Natural Gas & Biodiesel)
- Transport Management System

## HOUSEHOLD

Consumption 2016: **115** MBOE

Energy saving Potential

**15-30** %



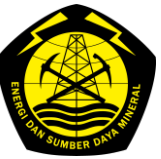
### Programs :

- EE Standard (Label/ MEPS)
- Public awareness

The background features a white field with several diagonal stripes. These stripes contain different images: a blue sky with white clouds, a green grassy field with a large tree, and a blue sky with white clouds. The stripes are in shades of blue, white, and brown.

# **ENERGY CONSERVATION IN INDUSTRIAL SECTOR**

# Classification of Industrial Sectors



The division of industries by subsector refers to the Indonesian Standard Classification of Business Fields (KBLI) 2009

No	Subsektor Industri	Keterangan
1	Food Industry	Primary Industry
2	Pharmaceutical Industry, Cosmetics, and Medical Devices	
3	Textile, Leather, Footwear, and Multifarious Industries	
4	Transportation Equipment Industry	
5	Electronics and Telematics / ICT Industry	
6	Power Plant Industry	
7	Capital Goods, Components, Auxiliary and Services Industry	Supporting Industry
8	Upstream Agro Industry	Upstream Industry
9	Basic Metal and Non Metallic Quarrying Industry	
10	Basic Chemical Industry Based on Oil, Gas and Coal	

# Energy Conservation on the Utilization Side

## (Government Regulation No 70 Year 2009 Article 12)



Mandatory for energy users that consume more than 6,000 TOE \* per year to apply energy management

1. Appoint an energy manager;
2. Preparing energy conservation programs;
3. Conducting periodic energy audits;
4. Implementing the recommendations of the energy audit results;
5. Report on the implementation of energy conservation to the Government

- \*)
- The number of energy users is not too much, but the total energy consumption reaches about 60% of energy use in the industrial sector.
  - 6000 TOE equivalent to 251,400 giga joules (GJ) or 69,780 mega watt hour (MWh).

# MEMR Regulation Number 14 Year 2014



## ENERGY MANAGEMENT

### Appoints Energy Manager

- Must establish an energy management team
- The energy management team is headed by energy managers
- The Energy Manager must have a competency certificate

### Conducting an Energy Audit

- Performed periodically at least 1 (one) time in 3 (three) years.
- Conducted by an internal energy auditor and / or an accredited institution.
- The auditor must have a competency certificate

### Conducting Energy Audit Results

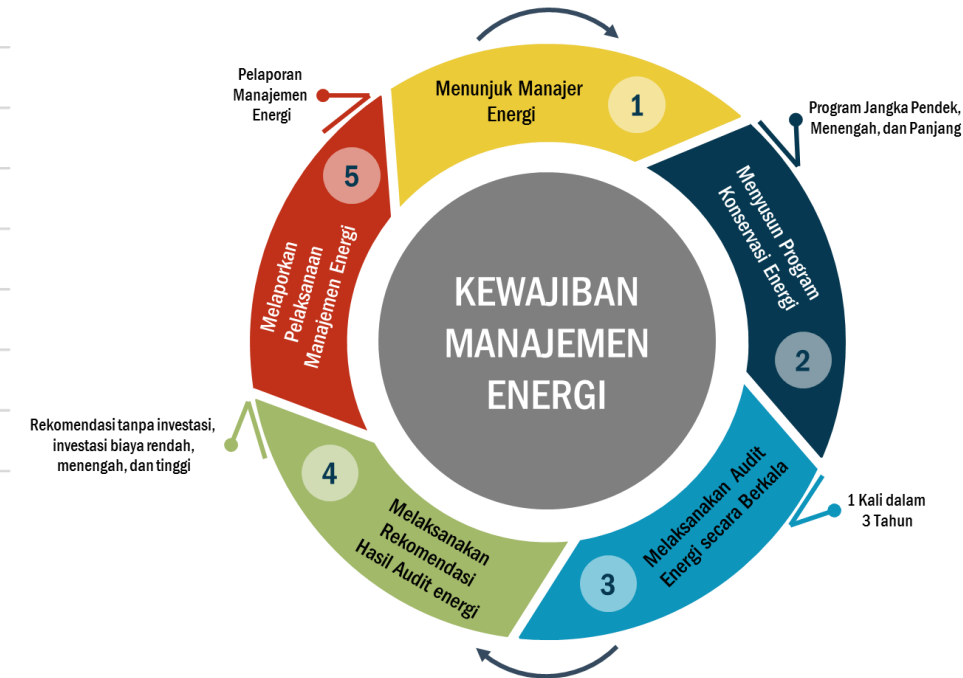
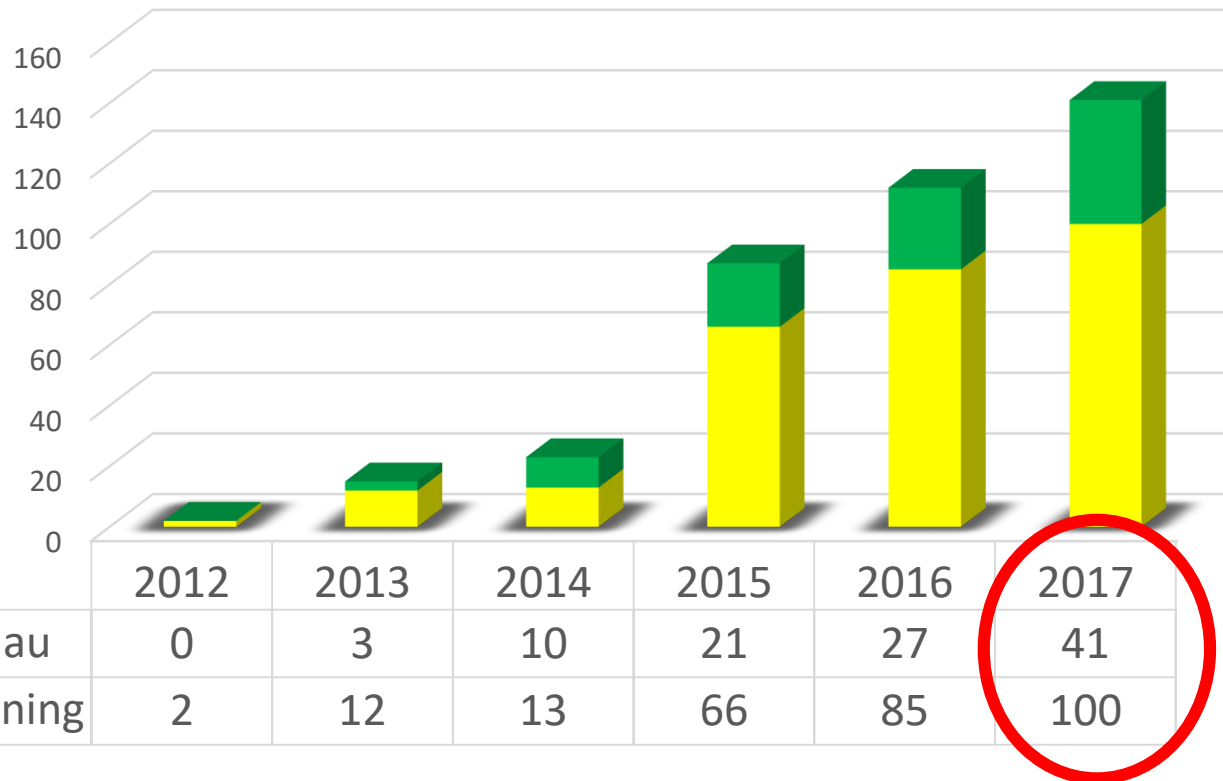
- Recommended Without Cost applied in less than 1 year
- Low Investment Recommendations applied in less than 2 years
- Medium Investment Recommendations and High Investment Recommendations applied in less than 5 years

### Reporting on the Implementation of Energy Management

- Annual report submitted to MEMR c.q. Director General of NREEC, governor, and regent / mayor in accordance with their authority
- Report submitted in January s.d. March 31 of the following year
- Reporting for the first time delivered in January 2013



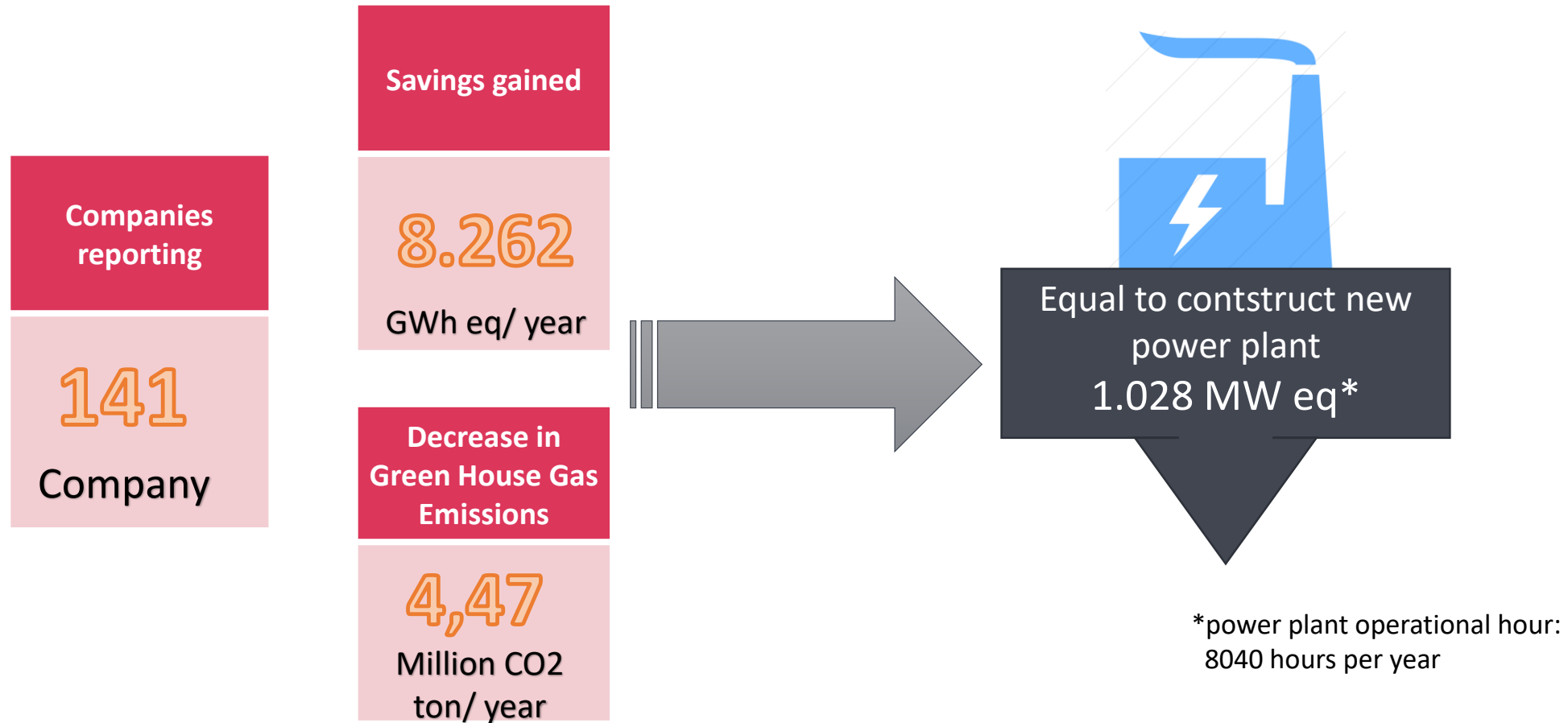
# Trend of Energy Management Reporting



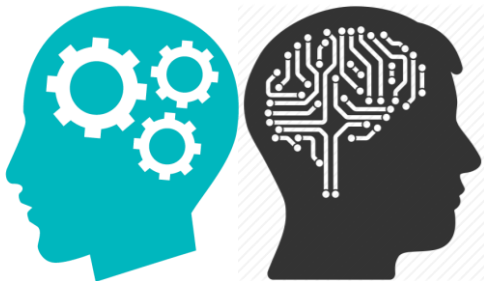
- i. Green category: The Company has exercised all points contained in Article 12 Government Regulation 70/2009
- ii. The yellow category: The Company has exercised some of the points contained in Article 12 Government Regulation 70/2009



# Implementation of Energy Management Year 2017 (POME)

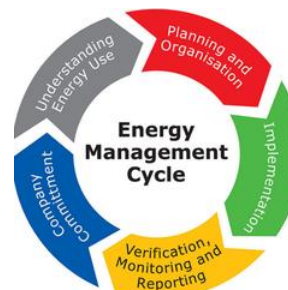


# Role of Industry Supports the Energy Conservation Program



## Inovation:

- Increasing the capacity of human resources in the face of rapid dynamics
- Adoption of clean energy technology
- Optimization of industrial systems
- Process efficiency in industry



## Applying Energy Management :

- High level Management Commitment for energy efficient
- Establish a reliable energy management system
- Continuous improvement through a good management cycle(Plan – DO – Check – Act)



## Disemination dan Colaboration:

- Online energy management reporting to the Government to build industrial benchmarking system
- Share success stories to inspire others
- Seeing is believing, mutual comparative study
- Collaboration builds mutual competence



## Being The Best

Participated in:

- Competition in Company / Association Group environment
- National Energy Efficiency Award / Subroto Award (National level)
- Asean Energy Award (among ASEAN countries)
- The Energy Management Leadership Awards (among members of Clean Energy Ministerial / CEM)



DIREKTORAT KONSERVASI ENERGI  
KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL



**T**HANK  
**Y**OU

“  
ENERGY  
CONSERVATION  
IS  
THE FOUNDATION  
OF  
ENERGY  
INDEPENDENCE  
”