



KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL  
DIREKTORAT JENDERAL ENERGI BARU, TERBARUKAN, DAN KONSERVASI ENERGI

# SEMINAR IMPLEMENTASI *JOINT CREDITING MECHANISM (JCM)* di INDONESIA

Direktur Konservasi Energi  
Direktorat Jenderal Energi Baru, Terbarukan dan Konservasi Energi

Hotel Fairmont - Jakarta, 21 Oktober 2019



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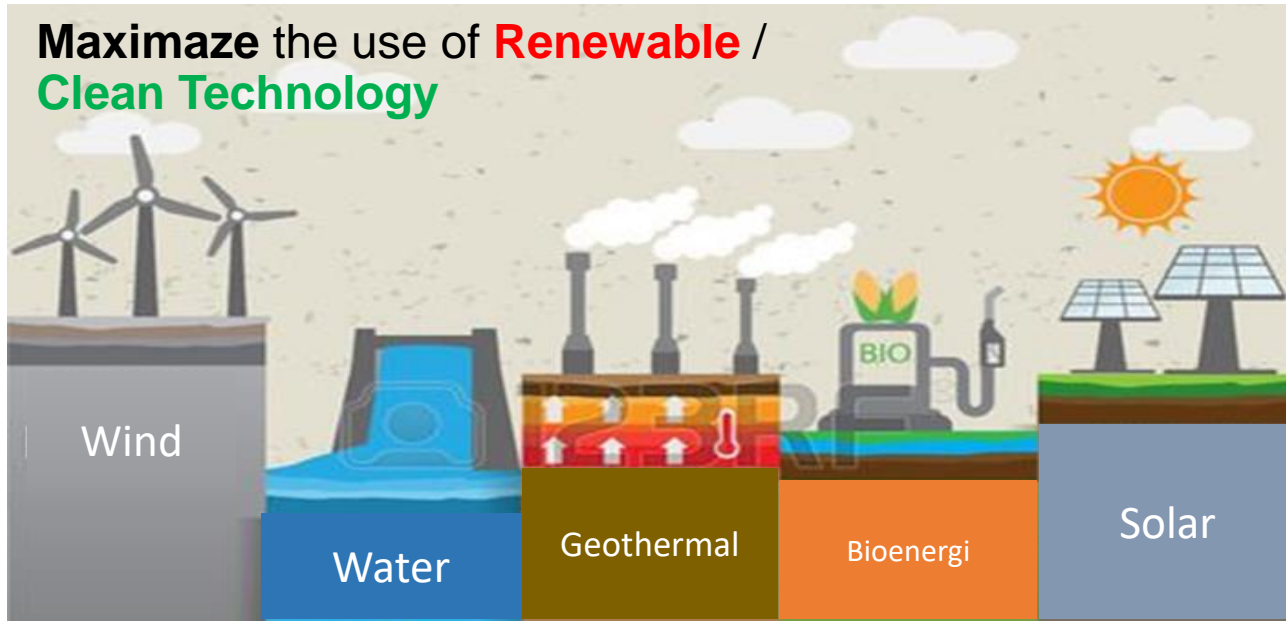
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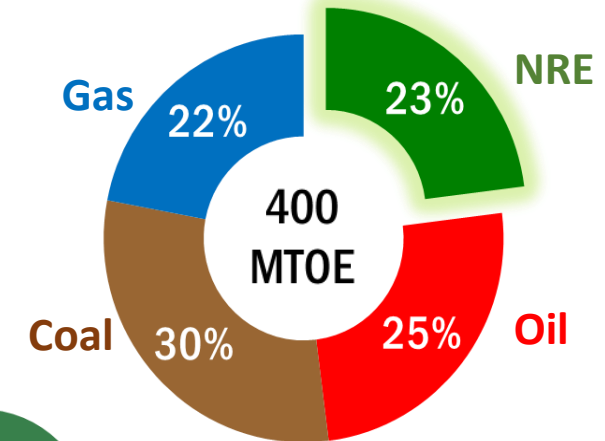
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# National Energy Policy (NRE Targets)

Maximize the use of **Renewable** / **Clean Technology**

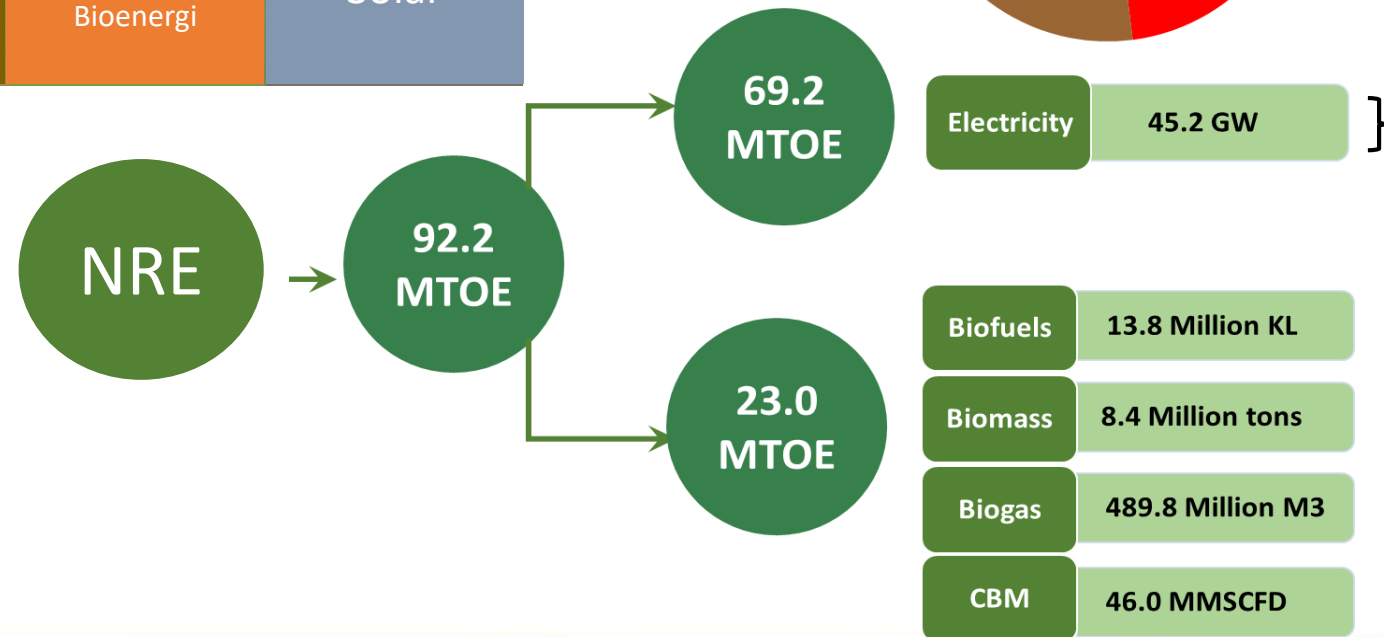


## Primary Energy Mix by 2025



**Source:**

- the Government Regulation No. 79/2014 concerning National Energy Policy
- the Presidential Regulation No. 22/2017 on RUEN (General Plan on National Energy)



1. PLTP, 7,2 GW
2. PLTA, 17,9 GW
3. PLTM/H, 3 GW
4. PLTBm/g, 5,5 GW
5. PLTS, 6,5 GW
6. PLTB, 1,8 GW
7. EBT lainnya, 3,1 GW



# CASCADING Energy Conservation Program

## OUTCOME

- Penghematan energi 17%
- Penurunan intensitas 1% per tahun
- Penurunan elastisitas < 1

## IMPACT



## OUTPUT

### Efisiensi Energi Penyedia Energi (Supply Side)

#### Sektor Pembangkit



Potensi Penghematan Energi  
1% (5,4 Juta SBM)

### Efisiensi Energi Pengguna Energi (Demand Side)

#### Sektor Industri



Potensi Penghematan Energi  
10% (23,2 Juta SBM)

#### Sektor Komersial



Potensi Penghematan Energi  
10% (4,2 Juta SBM)

#### Sektor Rumah Tangga



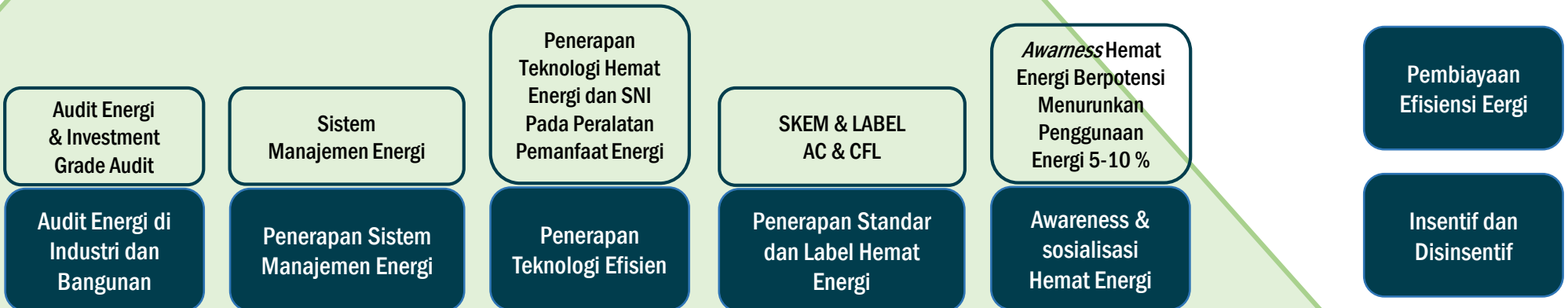
Potensi Penghematan Energi  
15% (18 Juta SBM)

#### Sektor Transportasi



Potensi Penghematan Energi  
15% (54,3 Juta SBM)

## PROGRAM



# Paris Agreement and Energy Sector Commitment on Climate Change



## National Commitment :

The mandate of Law No. 16 of 2016 on the Ratification of the Paris Agreement  
Reduce GHG emissions according to NDC by 2030:

• 29% from BaU (National Effort)

• 41% from BaU (International Support)



## Energy Sector Commitment:

Reduce GHG emissions by 314 - 398 Million Tonnes of CO2 by 2030

PP 79/ 2014 National Energy Policy & Perpres No 22 / 2017 National Energy General Plan :  
Target 23% of RE on Primary Energy Mix & 17% Final Energy Saving from BAU Schenario



COP21- CMP11  
**PARIS 2015**  
UN CLIMATE CHANGE CONFERENCE

No	Sektor	Emisi GRK 2010 (Juta Ton CO2e)	Emisi GRK pada 2030 (Juta Ton CO2e)			Penurunan (Juta Ton CO2e)	
			BaU	CM1	CM2	CM1	CM2
1	Energi*	453.2	1,669	1,335	1,271	314	398
2	Limbah	88	296	285	270	11	26
3	IPPU	36	69.6	66.85	66.35	2.75	3.25
4	Pertanian	110.5	119.66	110.39	115.86	9	4
5	Kehutanan**	647	714	217	64	497	650
TOTAL		1,334	2,869	2,034	1,787	834	1,081

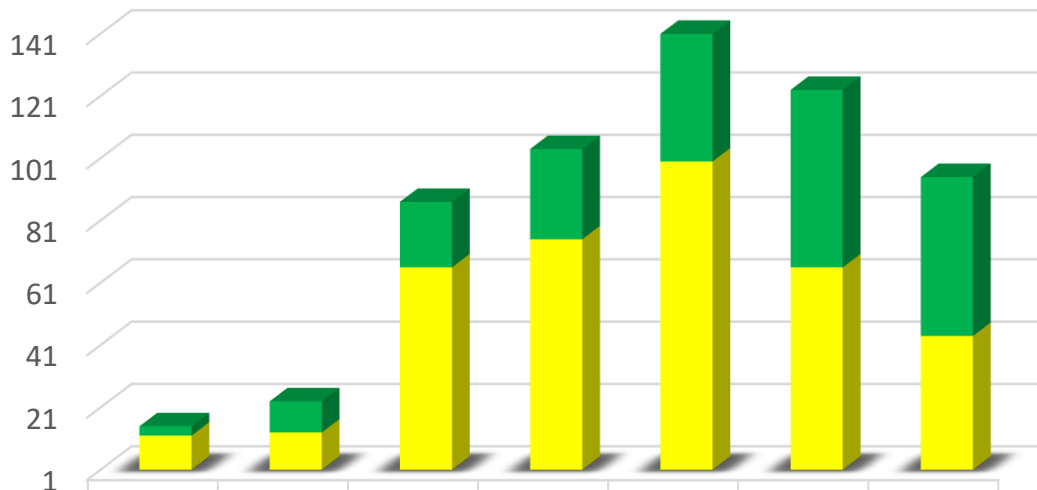
Target of *Paris Agreement*:

Keep global temperature rise not exceed 2°C, and strive to reach 1.5°C



# Energy Management Reporting Trends

- i. Kategori hijau : Perusahaan telah melaksanakan **seluruh poin** yang terdapat pada Pasal 12 PP 70/2009
- ii. Kategori kuning : Perusahaan telah melaksanakan **sebagian poin** yang terdapat pada Pasal 12 PP 70/2009



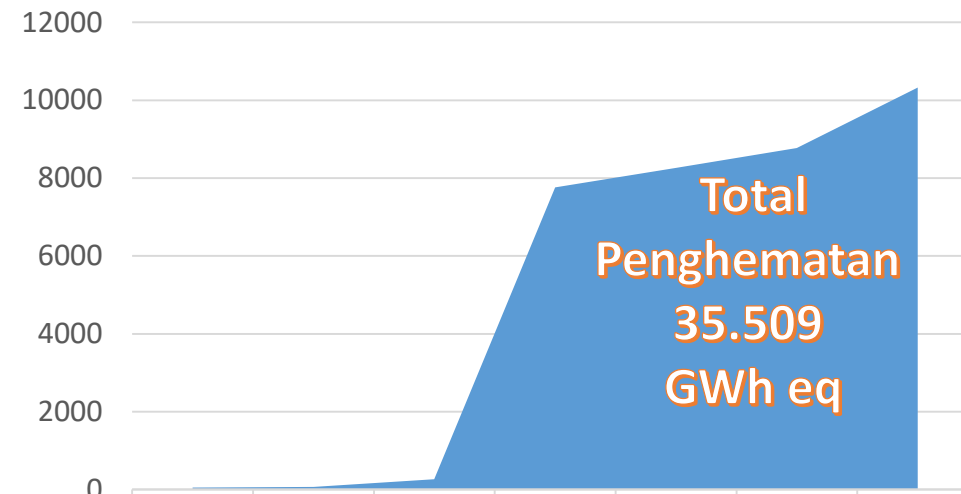
■ Green Category  
■ Yellow Category

	2013	2014	2015	2016	2017	2018	2019*
Green Category	3	10	21	29	41	57	51
Yellow Category	12	13	66	75	100	66	44

\* s.d Semester 1 Tahun 2019

**Penghematan Energi**  
10.321 GWh

**Penurunan Emisi**  
1.027.395,04  
Ton CO<sub>2</sub> eq



	2013	2014	2015	2016	2017	2018	2019*
Energy Saving	52	68	270	7765	8262	8771	10321

(GWh eq)

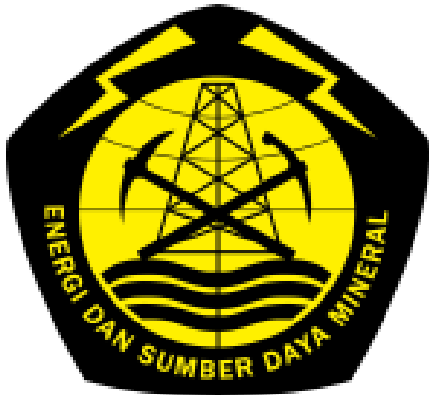


Setara dengan membangun Pembangkit  
**1.284 MW eq\*\***

\*\*jam operasional pembangkit :  
8040 jam per tahun



Biaya penghematan energi setara  
Rp **62** per kWh

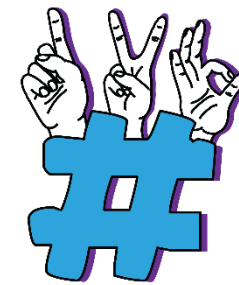


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