



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

Government's Actions to Support Energy Efficiency: Regulation Framework

20th November, 2020



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Definition of Energy Conservation

Definition of Energy Conservation (Law No.30 of 2007 on Energy)



Energy Conservation is a systematic, planned effort and integrated to:

1. Conserve domestic energy resources;
2. Improve the efficiency of energy resource utilization.



Energy conservation is carried out at all stages of energy management:

1. Energy Supply
2. Energy Business
3. Energy Utilization
4. Conservation of Energy Resources



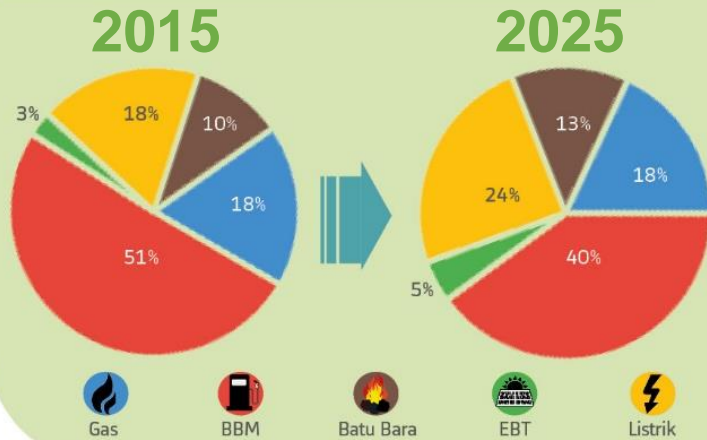
Development of advanced energy technology to address the global challenges of clean energy, climate change and sustainable development.

(IEA's Energy Technology Perspectives 2010)

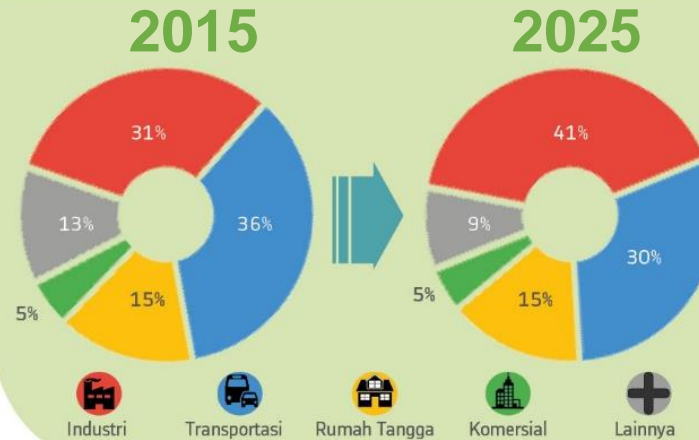


Energy Conservation Targets and Strategies

Final Energy Consumption Mix per Energy Type



Final Energy Consumption Mix per Sector



Target of 2025

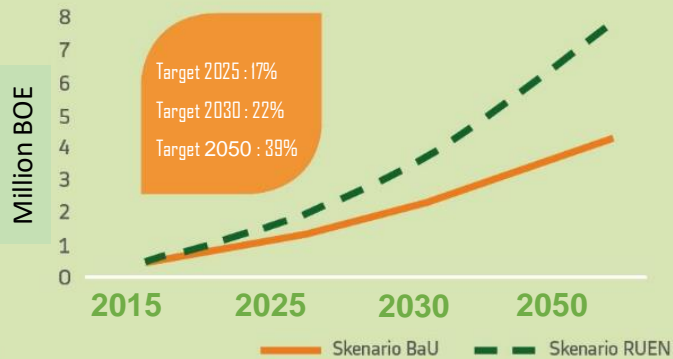


Reducing energy intensity by 1% per year until 2025

Energy elasticity less than 1 in 2025

Reducing Energy Consumption by 17% from BAU

Final Energy 2015 - 2050



Keterangan : - Excluding Biomass
- Others consist of the agriculture, construction and mining sectors

Sumber: Handbook of Energy & Economic Statistics of Indonesia 2017 Final Edition, KESDM

Main Program of Energy Conservation

1. Energy Management Implementation;
2. Implementation of Energy Efficiency Standards;
3. Implementation of Energy Saving Technology and Energy Conservation;
4. Energy Efficiency Investment;
5. Energy Efficiency Awareness and Awards;
6. Updating Data

Energy Conservation Policy

- 1982** • Presidential Instruction No. 9/1982 concerning Energy Conservation.
- 2007** • Law no. 30/2007 on Energy.
- 2009** • Government Regulation No.70 / 2009 concerning Energy Conservation.
- 2011** • Presidential Decree No. 61/2011 concerning the National Action Plan Reduction of Greenhouse Gas Emissions.
- 2012** • MEMR Regulation No. 14/2012 on Energy Management.

• MEMR Regulation No. 15/2012 concerning Saving Groundwater Use.

• Governor of DKI Jakarta Regulation No. 38 of 2012 concerning Green Buildings.
- 2013** • MEMR Regulation No. 01/2013 concerning Controlling the Use of Fuel Oil.
- 2014** • MEMR Regulation No. 18/2014 concerning Affixing Energy Saving Sign Labels for Self-Ballast Lights.

• Gov't Regulation No. 79/2014 concerning National Energy Policy.

- 2015** • Presidential Decree No. 38/2015 concerning Government Cooperation with Business Entities in Infrastructure Provision.






• PUPR Regulation No. 02 / PRT / M / 2015 concerning Green Building.

• MEMR Regulation No. 41/2015 concerning the Enforcement of Indonesian National Work Competency Standards for Professional, Scientific and Technical Service Categories of Professional, Scientific and Technical Services for Other Work Positions of Energy Managers in Industry and Buildings.
- 2017** • Presidential Decree No. 22/2017 concerning the General Plan for National Energy.

• MEMR Regulation No. 57/2017 concerning Application of SKEM and Inclusion of Energy Saving Labels for Air Conditioning Appliances.



Energy Saving Potential by Sector

	Efisiensi Energi Pengguna Energi (Demand Side)				Efisiensi Energi Penyedia Energi (Supply Side)
	 Sektor Industri	 Sektor Komersial	 Sektor Rumah Tangga	 Sektor Transportasi	 Sektor Pembangkit
Energy Consumption 2015 811 MBOE	310 Million BOE	42 Million BOE	149 Million BOE	309 Million BOE	327 Million BOE
Energy Consumption 2018 920 MBOE	334 Million BOE	43 Million BOE	151 Million BOE	391 Million BOE	432 Million BOE
Potential Energy Savings	5 - 26% *	12.5 – 16.5 %*	0.3 – 26.3%**	3.2 – 18.9% ***	0.5-2% ****
Projection Consumption Energy 2025	441.8 Million BOE	81.43 Million BOE	201.42 Million BOE	492.74 Million BOE	105 GW ##
Energy Saving Targets Year 2025 227 MBOE #)	83.1 Million BOE	13.8 Million BOE	53.1 Million BOE	76.9 ***** Million BOE	14.7 Million BOE

Note :

Includes biomass (source: Handbook of Energy and Economic Statistics of Indonesia 2018, KESDM)

*) Energy Audit Data 2011-2018 consists of 422 industries and 225 buildings

***) Study of Support to Monitoring and Estimation of Energy Conservation Policies Impact, Danida 2017

****) BPPT Outlook 2018, processed

*****) Energy management reporting data for 2017-2018 on 35 power plants, KESDM.

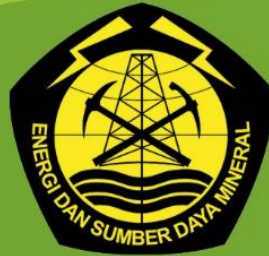
*****) Data on potential energy savings in Jabodetabek land transportation, BPPT Outlook 2018 is processed.

#) The 2025 savings target is in accordance with the projected Roadmap of the Directorate of Energy Conservation outside

the power generation sub-sector.

##) The existing capacity in 2018 is 56 GW plus the plan to add power plants for 2019-2025

48.6 GW (source: RUPTL 2019-2028).



Directorate of Energy Conservation

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