

Department of Alternative Energy Development and Efficiency MINISTRY OF ENERGY

New and Renewable Energy Development in Thailand

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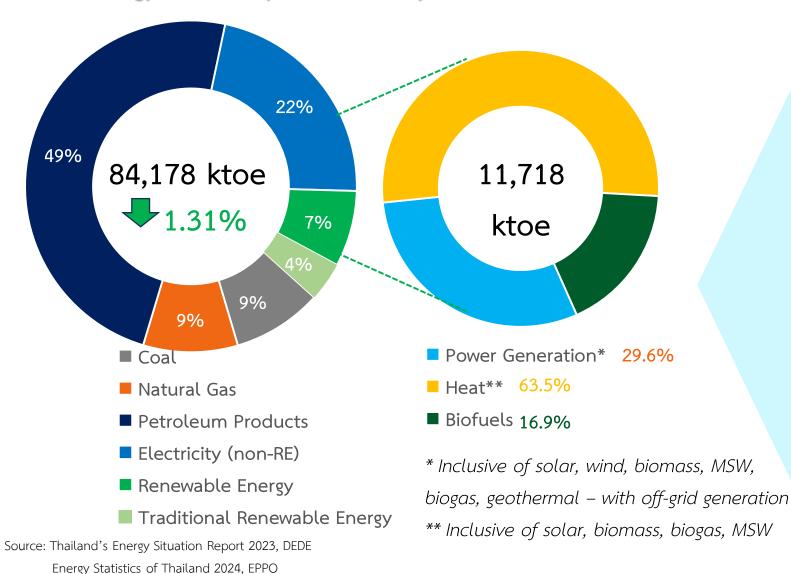
The 61st Meeting of the APEC Expert Group on New and Renewable Energy Technologies (EGNRET 61) 16 – 17 January 2025

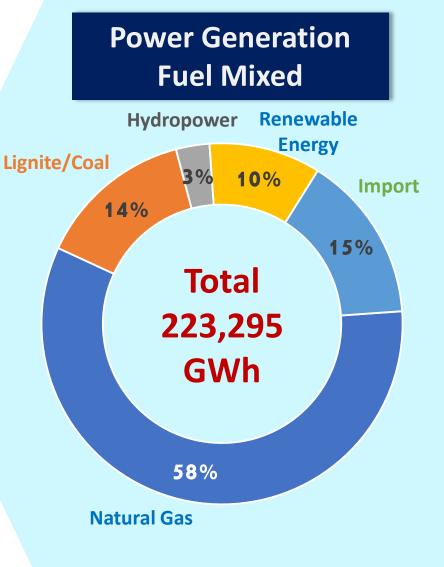




Thailand's Energy Situation 2023

Final Energy Consumption 2023 by Fuel

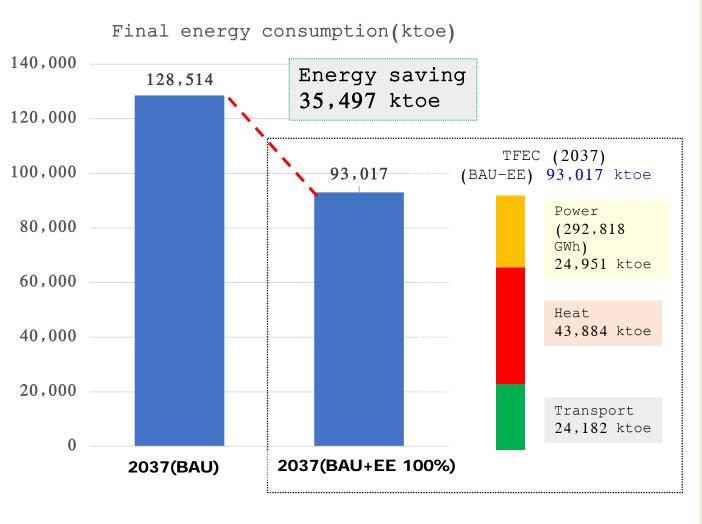


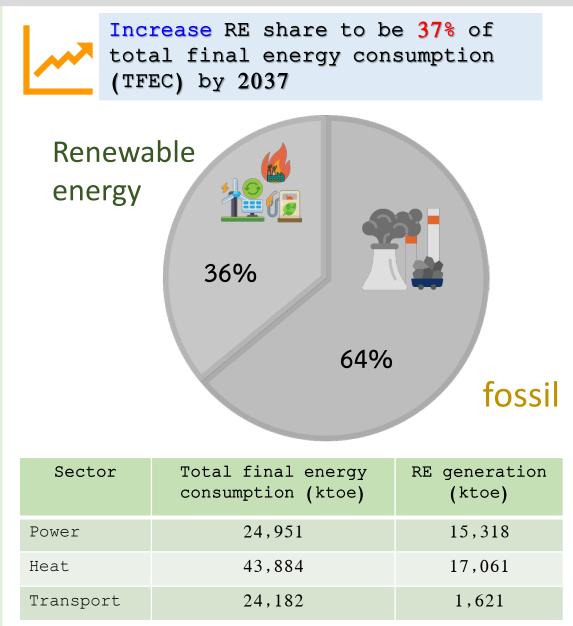




(Draft) Alternative Energy Development Plan 2024 – 2037 (AEDP 2024)

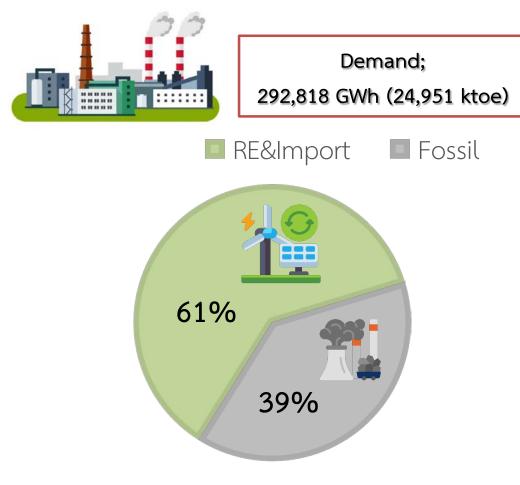
Reduce 36% of energy intensity (EI) by 2037 (compares with Y 2010)







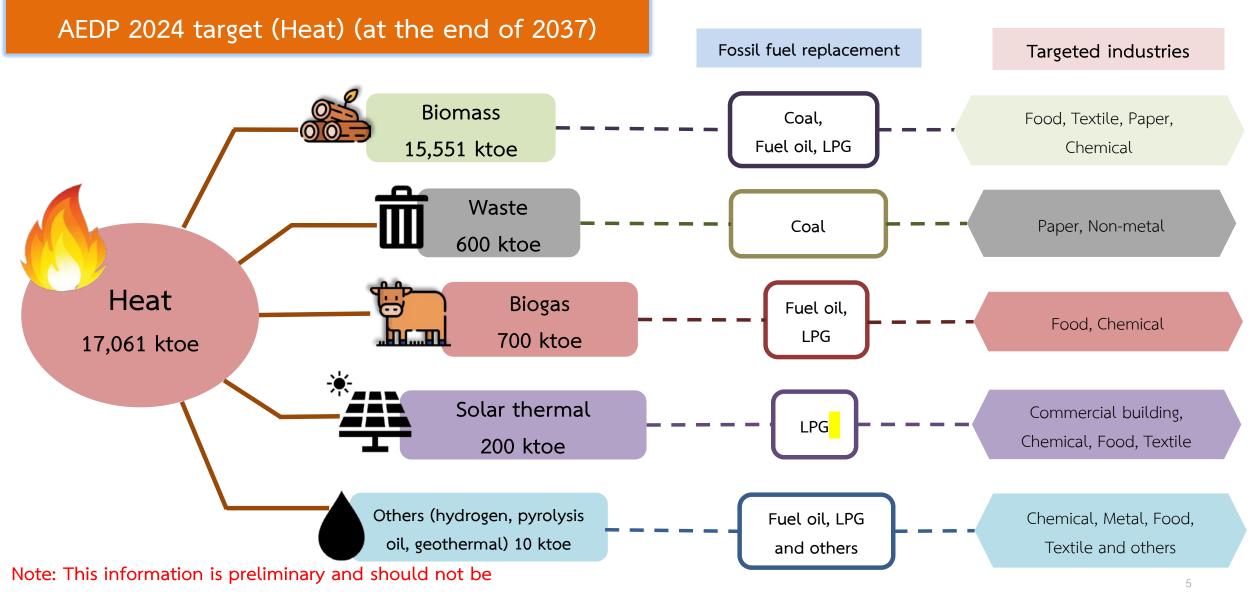
(Draft) Alternative Energy Development Plan 2024 – 2037 (AEDP 2024)



Note: This information is preliminary and should not be used for definitive reference.

AEDP 2024 target (electricity)					
Type of energy	Target at 2037				
	MW	GWh	ktoe		
1. Solar	38,974	60,365	5,144		
2. Solar floating	2,788	4,415	376		
3. Wind	9,379	19,522	1,664		
4. Biomass	5,490	26,424	2,252		
5. Biogas (waste water/sewage)	925	3,572	304		
6. Biogas (energy crop)	756	4,614	393		
7. Municipal waste	1,142	4,834	412		
8. Industrial waste	249	1,530	130		
9. Small hydropower	347	912	78		
10. Large hydropower	2,918	5,919	504		
11. Geothermal	21	73	6		
12. Hydrogen		2,503	213		
13. Imported hydropower	10,295	45,249	3,856		
Total (A)	73,286	179,777	15,318		
Electricity demand (B)		292,818	24,951		
RE power/Total electricity demand (%) (A/B) 61.00					
RE power/TFEC(%) 16.00					





used for definitive reference.



AEDP 2024 target (Biofuel) (at the end of 2037)

- Consolidate oil types within road transport categories.
 - Advocate B10* as the primary fuel for diesel sector
 - Advocate E10* as the primary fuel for gasoline sector



Biodiesel	(IVIL/ Gay)	2.40			
consumption	(ktoe)	775			
Bioethanol target (Y 2037)					
Bioethanol	(ML/day)	1.55			
consumption	(ktoe)	289			

Biodiesel target (Y 2037)

(MI (day)

216

SAF target (Y 2037)				
SAF	(ML/day)	1.85		
consumption	(ktoe)	553		

□ Promote other alternative biofuel for transport (e.g. hydrogen)

□ Promote the use of sustainable aviation fuel (SAF)



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Hydrogen in transport target (Y 2037)				
l ₂ consumption	(ton)	1,395		
	(ktoe)	4		

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Thank you ior attention

