

Sustainability Performance Information

2.7 Product Stewardship

Electricity Generation Mix

Electricity generation based on non-renewable energy sources

Generation Source	Gross generation 2025 own assets (GWh)	Share generation 2025 own assets (%)
Thermal -Lignite	16,318.006365	29.066725
Thermal -Gas/Oil	128.613119	0.229094
Combined Cycle	39,692.890527	70.703633
Diesel	0.307450	0.000548
Total non-renewable generation	56,139.817461	100.00

Electricity generation based on renewable energy sources

Generation Source	Gross generation 2025 own assets (GWh)	Share generation 2025 own assets (%)
Wind	72.415257	0.924526
Hydro	7,618.973955	97.271505
Solar	139.918185	1.786337
Biomass	0.000000	0.000000
Geothermal	1.381100	0.017633
Landfill gas	0.000000	0.000000
Wave and tidal energy	0.000000	0.000000
Total renewable generation	7,832.688498	100.000000

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Electricity Capacity Mix

Contracted capacities based on non-renewable energy generation sources

Generation Source	Capacity 2025 (MW)	Share of capacity 2025 (%)	Target capacity 2030 (MW)	Share of target capacity 2030 (%)
Coal	2,220	13.67	1,220	6.23
Nuclear	0.00	0.00	0.00	0.00
Natural gas	9,552	58.84	12,600	65.43
Oil	319.4	1.97	345.4	1.79
Other non-renewable energy sources	0.00	0.00	0.00	0.00
Total renewable contracted capacity	12,091.4	74.48	14,145.4	73.45

Contracted capacities based on renewable energy generation sources

Generation Source	Capacity 2025 (MW)	Share of capacity 2025 (%)	Target capacity 2030 (MW)	Share of target capacity 2030 (%)
Wind	26.69	0.16	26.69	0.14
Hydro	3,038.13	18.71	3,081.88	16.00

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Solar	78.50	0.48	1,003.8	5.21
Biomass	0.00	0.00	0.00	0.00
Geothermal	0.30	0.00	0.30	0.00
Landfill gas	0.00	0.00	0.00	0.00
Wave and tidal energy	0.00	0.00	0.00	0.00
Pumped-storage hydropower	1,000	6.16	1,000	5.19
Total RE Contracted capacity	4,143.62	25.52	5,112.68	26.55

Sustainable Product Programs

EGAT has invested in multiple R&D initiatives to expand its sustainable products and services portfolio:

- Flue Gas Desulfurization (FGD) plaster development project (THB 10.979 million):**
 This project utilizes synthetic FGD gypsum, a by-product from Mae Moh Power Plant (Lampang Province), to develop FGD plaster for gypsum board production. The resulting gypsum boards are tested in accordance with the Thai Industrial Standard (TIS 219-2552) to ensure quality and compliance. The initiative promotes circular economy practices by converting industrial by-products into value-added construction materials.
- Dry microbial inoculum and organic waste digester development project (THB 8 million, ongoing):**

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This project aims to enhance the decomposition of household organic waste by developing high-efficiency dry microbial inoculum alongside a prototype organic waste digestion machine. The process enables the conversion of organic waste into bio-organic fertilizer, contributing to reductions in greenhouse gas emissions from landfills and waste incineration. It also supports community-level waste utilization in agriculture, reduces reliance on synthetic chemicals, and promotes sustainable farming systems.

These projects demonstrate EGAT's commitment to R&D investment in sustainable solutions, resource efficiency, and community and environmental sustainability.

EGAT has generated the sustainable revenue through renewable energy including run-of-river hydropower, wind energy, solar energy, and geothermal power generation, as well as the revenue from EV charging services under EleX by EGAT.

	FY 2022	FY 2023	FY 2024	FY 2025
Sustainable revenues	2,072,125,172.73	1,916,820,492.49	1,788,174,509.96	1,998,293,706.38
Total revenues	811,539,801,024.79	739,626,409,663.10	694,447,814,258.48	623,585,814,705.05
Percentage of sustainable revenues	0.255 %	0.259 %	0.257 %	0.320 %