

Sustainable Products and Programs

Contents



Introduction	3
GULF's Energy Business Portfolio	4
GULF's Renewable Portfolio	5
GULF1 – Solar Business under the GULF Group	6-10
Sustainable Activities & Products Assessment	11-15
Sustainable Revenues / Turnover	16
Investment for Sustainable Products and Services	17-18
Sustainable Transportation Through Electric Vehicles (EVs)	19
Community-based Energy Projects	20-21
Circular Economy Strategy Integration	22-23
2025 Waste Management Performance	24

Introduction



We recognize the evolving demands of a carbon-constrained world and respond by exploring sustainable and innovative business opportunities. **As Thailand's largest private power producer, we identify new approaches and develop business models aligned with a digital, net-zero future, the circular economy, and changing customer behavior, so that we remain relevant and preferred by consumers while sustaining the world and enhancing value.**

To ensure that we actively contribute to a more sustainable future while staying competitive in the business, **we invest in innovation and align our offerings with environmental and societal expectations.** This enables customers to generate their own energy **using smart and sustainable technologies, improve energy efficiency, and adopt low-consumption appliances.** We apply a **classification system that defines sustainable, or "green," products based on specific and quantified benefits, in accordance with the Thailand Taxonomy, the EU Taxonomy, and our own classification system.**

Beyond providing green electricity from renewable sources, **we empower communities by initiating projects and creating systems that allow them to produce, trade, or share energy efficiently in rural areas.** This forms part of our ambition to build a self-sufficient and sustainable economy for the people of Thailand.

GULF's Energy Business Portfolio

Core business with $\approx 60\%$ core profit contribution



Energy

Low carbon energy sources with integrated value chain



Gas-fired Power Generation

- Independent Power Producers (IPPs)
- Small Power Producers (SPPs)
- Captive Power Plant
- Merchant Market Power Plant

Gas-fired Power Generation

16.5 GW

Total gross installed capacity in 2026

14.3 GW

Total gas-fired installed capacity
(Target: 14.9 GW by 2033)



Renewable Energy

- Solar farms / Solar farms + BESS
- Solar Rooftop (through GULF1)
- Onshore / Offshore Wind
- Hydropower
- Waste-to-Energy
- Biomass

Solar farms / Solar farms + BESS

COD +695 MW in 2026

New solar farms (623 MW)

- 4 solar farms (321 MW installed)
- 2 solar farms with BESS (302 MW installed)

Waste to Energy

Chiang Mai Province (10 MW installed)

GULF1 solar rooftop

(additional 63 MW)



Resources Business

- LNG Terminal
- LNG Shipper Licenses
- LNG Trading
- Natural Gas Distribution
- Liquid Tank Facilities

LNG Business

54 cargoes

3.7 MTPA (7.8 MTPA quota)

2025 LNG import

~70 cargoes

4-5 MT

2026 import plan

LNG optimization to enhance efficiency, flexibility, and value creation

GULF's Renewable Portfolio



Almost 10 GW of committed renewable capacity across 5 countries with opportunities to develop more projects globally.

5-year investment plan (2026-30) is approximately THB 130 billion.

Total Gross Capacity 9,850 MW (5,733 MW equity)

2,244 MW in operation (1,750 MW equity)

23% of committed capacity already in operation

Total solar 1,449 MW in operation

 **Solar farms**



521 MW

 **Solar farms + BESS**



608 MW

 **Solar Rooftop**



201 MW

 **Vietnam Solar farms**



119 MW

Total wind 770 MW in operation

 **Gulf Gunkul Wind Farms**



178 MW

 **Vietnam Wind Farm**



128 MW

 **BKR2 Wind Farm**



465 MW

 **Biomass**



25 MW

7,606 MW under development (3,983 MW equity)

Total solar 2,124 MW under development

 **Solar farms**



885 MW

 **Solar farms + BESS**



1,177 MW

 **Solar Rooftop**



62 MW

 **Wind Farms**



712 MW

 **Outer Dowsing Wind**



1,500 MW

 **Hydropower**



3,142 MW

- Luang Prabang 1,460 MW
- Pak Lay 770 MW
- Pak Beng 912 MW

 **Waste**



128 MW

- Municipal WTE 10 MW
- Industrial WTE 118 MW

GULF1 – Solar Business under the GULF Group



To meet these evolving industrial energy needs, **we have introduced GULF1, a leader in providing full-scale solar energy solutions and offering high-efficiency clean energy solutions.** GULF1 operates solar rooftop projects in Thailand under long-term solar purchase agreements with free service throughout the contract term. **GULF1 provides customized solar solutions for commercial and residential customers, including “1RTID” residential solar solutions with one-stop services covering consultation, system design, installation, smart energy management, battery solutions, and after-sales maintenance to maximize cost-effectiveness while supporting CO2 reduction.** This strategy not only ensures cost competitiveness but also promotes cleaner production practices at the origin of the supply chain.

With direct experience in solar cell systems and solar roofs, **GULF1 delivers safe, high-quality solar installation** so that everyone in the home can use electricity cost-effectively while protecting the environment.

- **Quality Products & Services:** quality you can rely on.
- **Saving:** planned equipment and pricing for solar installations.
- **Credit Service:** 0% installment plans, special interest rates, and more.



- **20+ Years Experience** in power business in Thailand.
- **14,000 MW+ Committed PPAs** with 9,000 MW+ in Operation.
- **A trusted company** that innovates to develop premier energy across boundaries.
- **Financially Strong** with “A” Rating by TRIS



- **Integrally manage 200+ Long-Term contracts** with customers incl. EGAT, industrial customers.
- **Continuously retain high satisfaction** from our customers.



- **Highly care for quality** in every process of our projects
- **24/7 online O&M team** with high-performance service
- Dedicate to support our customers with “**Good Care with GULF Service**”

GULF1 “Quality Products and Services”



QUALITY PRODUCTS & SERVICES

Home solar from "Sunday" with quality for you to be assured.

QUALITY PRODUCTS

Quality Products



Tier 1 solar panels

use efficient photovoltaic system technology, and high reliability (Tier 1). It can reduce your electricity bill by up to 70%* and ensure you get electricity that lasts for 30 years**



Latest

Technology The first time in Thailand with high-quality solar panels LONGi Hi-MOX10 that produces more electricity.



Quality

Inverter Use top quality inverters from Huawei with a 10-year warranty on the unit.

QUALITY SERVICES

Quality Service



One-Stop Service

: We provide a full range of services from consulting process, system installation design with attention to every detail, to maintenance and after-sales service.



0% installment for 10 months and loan

Flexible payment options, both short-term and long-term, are available through credit cards of leading banks to make investing in solar systems easy.



Free fire

insurance We offer coverage for damage to solar panels and related equipment, as well as compensation in case the panels cannot generate electricity up to 1 million baht***



“1RTID” residential solar solutions with one-stop services covering

- consultation,
- system design,
- installation,
- smart energy management,
- battery solutions, and
- after-sales maintenance

to maximize cost-effectiveness while supporting CO₂ reduction.

CUSTOMER EXPERIENCE



“From the day of the survey to the day of installation, the team was very punctual. When I have questions or doubts, the team can answer questions clearly. It is very relevant and provides knowledge and understanding.”



CONTACT US

Interested in installing solar cells for your home with



Customer Service
02-080-4800

Opening Hours
Monday - Sunday
8.00 a.m. - 8.00 p.m.

Line Official Account: @1rtid



For General Customers

**Please fill in your information below. We will get back to you with the details of the solar home you are interested in.

Name	Last name
Email	Phone Number
Province	District
Select a province	Select District
Sub-district	Postal Code
Select Sub-district	
Address (Installed)	

Please specify the installation location.

[Pin an address](#)

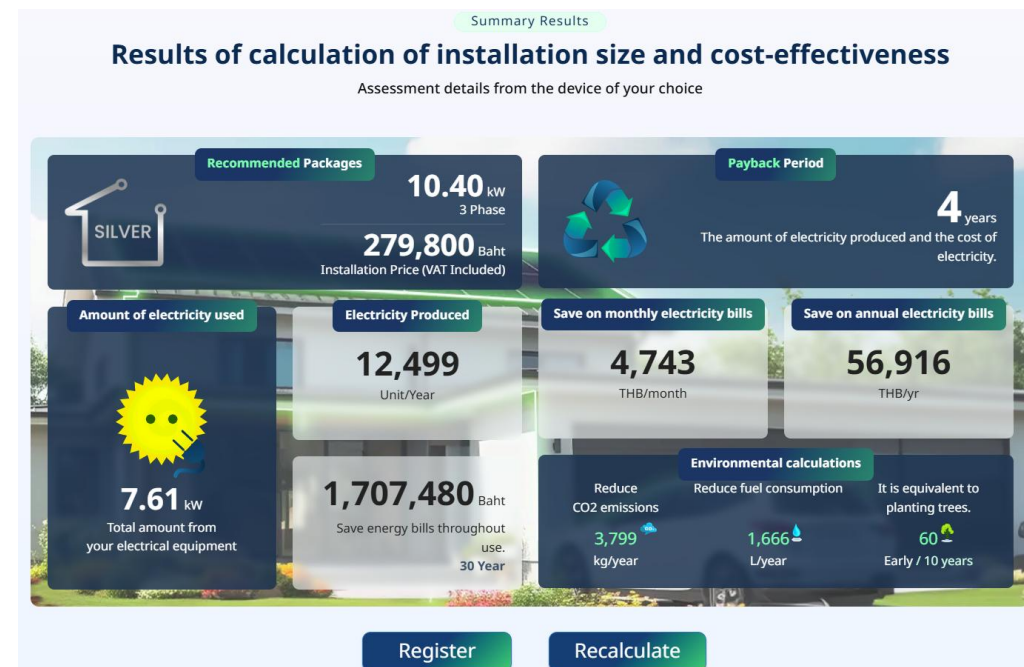
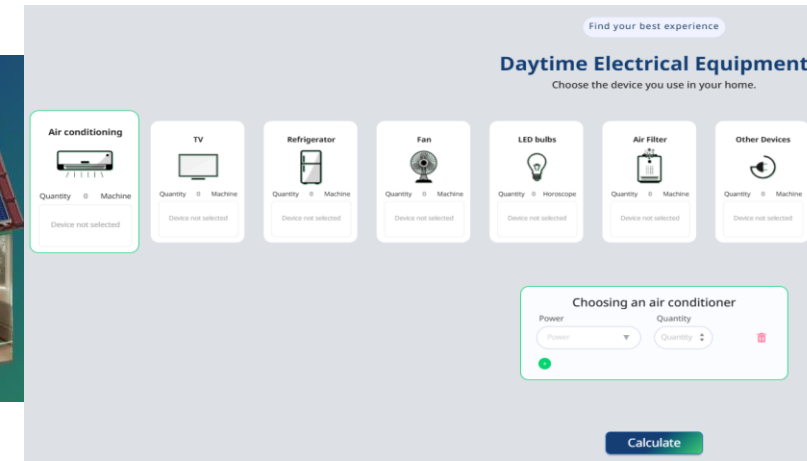
GULF1 “Saving: Plan Home’s Energy”



We collaborate closely with industrial and residential customers on demand planning and management programs. Our in-house “**Package Calculation Tool**” helps customers identify the most suitable solar installation package based on their current and future electricity consumption, while supporting more efficient energy use and a lower environmental impact.

The tool calculates the recommended system size, estimated investment cost, cost-effectiveness, payback period, and expected savings over the period of use.

It also provides information on the environmental benefits of solar energy, including relevant environmental attributes. Through this program, customers are encouraged to make informed decisions on solar adoption and to reduce energy consumption through effective demand management.



GULF1 “Saving: Plan Equipment & Prices”



Our Sizing & Value Calculator

Every package shown is run through **our in-house calculation program**, so the customer gets the **most efficient and best-value deal**, not just the cheapest price.

- Matches system size (3.25 - 20.15 kW, 1 or 3 phase) to the actual monthly bill and roof area.
- Compares monthly savings against payback period to find the strongest return.
- Weighs Silver vs. GOLD on total lifetime value, not upfront cost alone.
- Tests PLATINUM add-ons (SmartGuard, 7 - 21 kWh battery) where the extra spend pays back.

Result: one recommended package with a clear savings and payback case.

Electrical System	1 Phase			3 Phase				
	PACKAGE Power (kW)	3.25 kW	5.20 kW	10.40 kW	5.20 kW	10.40 kW	15.60 kW	20.15 kW
	Installation Area (sq.m.)	15 – 18	24 – 28	48 – 56	24 – 28	48 – 56	71 – 84	92 – 109
	Electricity Produced (Unit/Year)	4,745	7,592	15,184	7,592	15,184	22,776	29,419
	Electricity bill per month (Baht)	2,000 - 4,000	3,000 - 6,500	6,500 - 13,000	3,000 - 6,500	6,500 - 13,000	10,000 - 19,500	12,500 - 25,000
	Save on electricity bills (Baht)	1,500	2,400	4,900	2,400	4,900	7,300	9,400
	Payback Period (Years)	6 - 7	5 - 6	4 - 5	5 - 6	4 - 5	4 - 5	4 - 5
	Number of solar panels	5 	8 	16 	8 	16 	24 	31 
	Number of appliances	 x10  x3  x2  x2	 x16  x5  x3  x3	 x32  x10  x6  x6	 x16  x5  x3  x3	 x32  x10  x6  x6	 x48  x14  x10  x10	 x60  x19  x12  x12
	Silver Installation Price (Baht) *VAT included	134,800	165,800	258,800	189,800	279,800	387,200	463,000
GOLD Installation Price (Baht) *Power Optimizer *VAT included	148,300	187,400	302,000	211,400	323,000	452,000	546,700	

PLATINUM	SmartGuard add-on Phase	Battery & Power Module Set add-on Battery Size
With quality accessories that can be purchased as more.		
SmartGuard The device automatically switches to backup power from the battery within 0.02 seconds when a power outage occurs.	Single-phase +25,800 - *VAT included	7 kWh +105,000 - 14 kWh +176,500 - 21 kWh +247,900 - *VAT included
Battery Stores electricity for use when needed with a backup power system, available in 3 sizes.		

100%





Special privilege at GULF 1RTid with KTC credit card

Privilege 1

- 0% installment for up to 10 months, get cash back up to 67,000 baht
- Privilege 2
- Redeem points for 13% cash back



Solar panel roof installation with Sunday by GULF1 with Bualuang Poon Green Loan

Get special interest rates, free Survey and appraisal fee with special privileges from Sunday by GULF1 from 1 July 2025 - 30 September 2025 The effective interest rate throughout the contract term is between 5.78% - 6.13% per annum.



Hire Purchase Loan for Solar Rooftop Installation

Hire-purchase loans for individuals and juristic persons who wish to install solar rooftops for energy saving but do not want to pay all installation fees in cash at once. The hire-purchaser will pay the same installments throughout the contract period at a flat rate.

Solar Cell Leasing Calculation

Solar Loan Calculator

Calculate installments in several ways based on the information you have.

Select Package

1 Phase

3.25 kW

Price 134,800.-

1 Phase

5.20 kW

Price 165,800.-

1 Phase

10.40 kW

Price 258,800.-

Silver

Gold

1 Phase

5.20 kW

Price 189,800.-

3 Phase

10.40 kW

Price 279,800.-

3 Phase

15.60 kW

Price 387,200.-

3 Phase

20.15 kW

Price 463,000.-

← →

Package of your choice

Silver 1 Phase 3.25 kW

Start Calculating

Solar Cell Price

134,800 Baht

Down Payment (%)

10%

15%

20%

25%

Down Payment (Baht)

Number of Periods (Months)

48

60

72

84

Interest Rate (% p.a.)

Calculation Results

Monthly Installments

Price Includes

Down Payment

Outstanding

Number of Installments

Total Interest

Total Payment

SUN * MON * TUE * WED * THU * FRI * SAT

ลดหย่อนภาษี ผ่านมาตรการโซลาร์บ้าน

ได้สูงสุด 200,000 บาท*

เมื่อติดตั้งโซลาร์บ้าน ถิ่นอาทิตย์
by GULF

คุ้มต่ออีก 4 ปี!

จุดที่ 1	จุดที่ 2	จุดที่ 3	จุดที่ 4
ส่วนลดเงินสด 1.5% เมื่อ 0% - 10 เดือน ขึ้นต้นตามอายุ ๓๐ เดือน	ฟรี! ประกันภัยกับ วงเงิน 1,000,000 บาท	ดูแลต่อเนื่องยาวนาน ฟรี! ถึงขั้น 3 ปี (โดยมีเงื่อนไขการรับประกันตามที่ระบุ)	ฟรี! อุปกรณ์ สำเร็จรูปครบชุด AIS

TAX

GULF AIS

พลังงาน แสงอาทิตย์ ที่ทำให้อายุยืนของชาติด้วย กลายเป็นวันนี้ๆ

Call Center : 02-060-8830
gulf@ais.com
www.gulf.com

* 120 kWp ขึ้นไป

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วันอาทิตย์ by GULF1 - โซลาร์บ้านครบวงจร
ลดหย่อนภาษี สำรองก่อน คู่กันก่อน

สำรองจนบ้านพร้อม และเลือกติดตั้งก่อนใคร

ลงทะเบียนได้ส่วนนี้ก็



AIS SHOP

และ
ตัวแทนจำหน่าย

AIS x AIS FIBRE3

เริ่มต้นอาทิตย์กับพลังงานดี ๆ ของ เป็นอาทิตย์

Thailand has introduced a personal income tax deduction of up to THB 200,000 for individuals installing on-grid rooftop solar systems at home. The measure applies to residential systems of up to 10 kWp that are connected to the MEA or PEA grid. Eligible installations must be purchased, installed, and approved for grid connection between 3 March 2026 and 31 December 2028.

This incentive is intended to accelerate household solar adoption, reduce electricity costs, and support Thailand’s renewable energy and emissions-reduction goals.

Sustainable Activities & Products Assessment



We operate a diversified energy and infrastructure business, with a strong focus on delivering reliable energy while supporting the transition towards a low-carbon economy. To better understand and transparently communicate the environmental contributions of our business portfolio, **we have established an approach to assess and classify our sustainable business activities, products, and services using recognized sustainable finance frameworks.**

Our primary assessment is **based on the EU Taxonomy, where business activities are evaluated against the applicable Technical Screening Criteria (TSC) for substantial contribution.** Activities that meet these criteria are identified as sustainable business activities, and the associated revenue is reported as sustainable revenue.

We also assess relevant activities against the Thailand Taxonomy. This complementary assessment provides additional insights aligned with Thailand's environmental objectives and transition pathway.

Based on this combined assessment approach, we identified the following sustainable business activities:

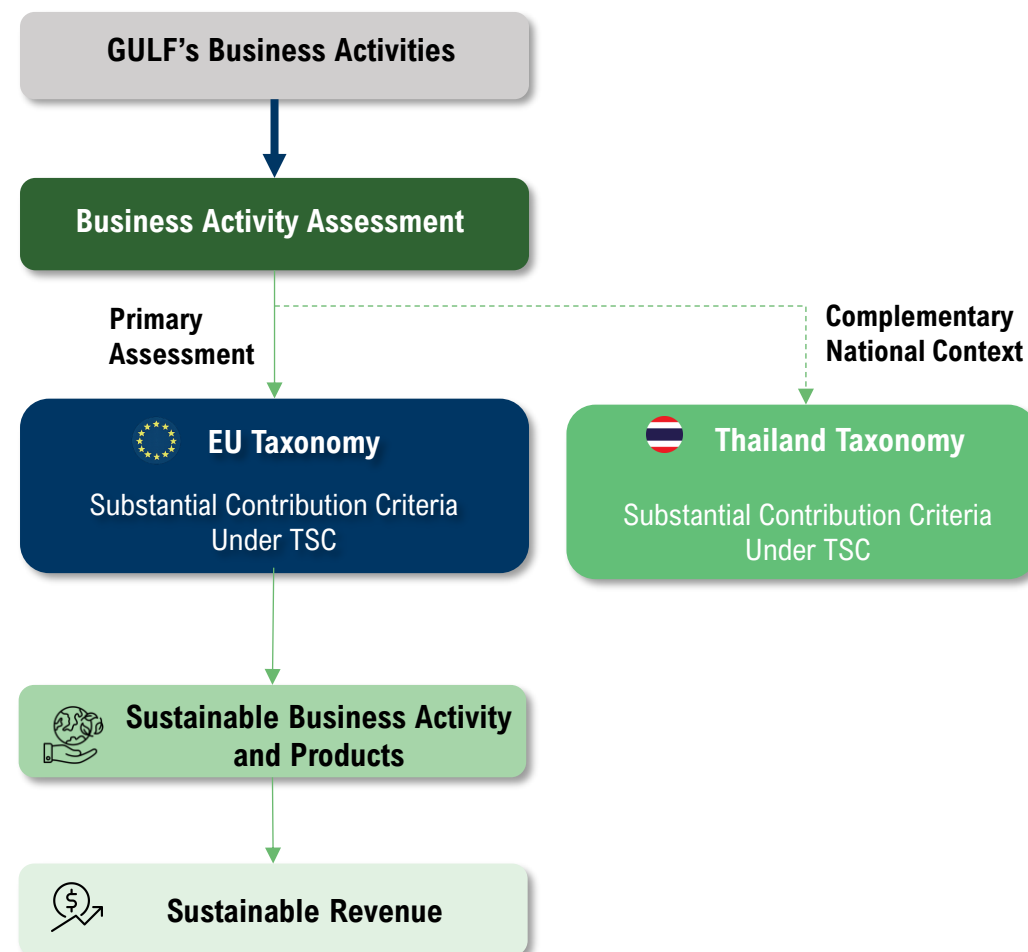
Solar Power Activities

BESS-Integrated Solar Farms

Solar Installation and O&M Services

Onshore and Offshore Wind Power

Sustainable Business Activity Assessment Methodology



Solar Power Activities



Business Overview

Our solar portfolio forms an important part of our renewable energy expansion, comprising utility-scale solar farms and VSPP solar rooftop projects across Thailand and Vietnam. As of 31 December 2025, the portfolio included 1,449 MW* in operation and 2,124 MW* under construction and development, with electricity supplied to EGAT, EVN, and PEA under long-term power purchase agreements.

Assessment Criteria

Business Activity

Environmental Objective

Substantial Contribution Criteria
Under Technical Screening Criteria
(TSC)

Assessment Result



EU TAXONOMY

✓ 4.1 Electricity generation using solar photovoltaic technology

✓ Contributes to Climate Change Mitigation

✓ Meets the criteria, as the activity generates electricity using solar PV technology
No additional quantitative thresholds for emissions or energy efficiency are required.



QUALIFIED AS A SUSTAINABLE BUSINESS ACTIVITY
Associated revenue recognized as sustainable revenue



THAILAND TAXONOMY

✓ Solar Energy Generation

✓ Contributes to Climate Change Mitigation

✓ Meets the criteria, as the activity generates electricity from solar energy
The activity is not dedicated to supporting fossil-fuel infrastructure.



ELIGIBLE AS A GREEN ACTIVITY

* Including capacity from BESS and GULF1

BESS-Integrated Solar Farms



Business Overview

Our solar farm portfolio with integrated battery energy storage systems (BESS) in Thailand comprises 14 projects. Of these, four projects with a total installed capacity of 608 MW are in operation, while ten projects totaling 1,177 MW are under development and construction. The storage systems enable electricity generated during periods of high solar output to be stored and dispatched when needed, enhancing the flexibility and reliability of renewable electricity supply. The projects supply, or will supply upon commencement of operations, electricity to EGAT under 25-year power purchase agreements.

Assessment Criteria

Business Activity

Environmental Objective

Substantial Contribution Criteria Under Technical Screening Criteria (TSC)

Assessment Result



EU TAXONOMY



4.10 Storage of electricity



Contributes to Climate Change Mitigation



Meets the criteria, as the activity stores electricity and returns it at a later time in the form of electricity

No additional quantitative thresholds for emissions or energy efficiency are required.



QUALIFIED AS A SUSTAINABLE BUSINESS ACTIVITY
Associated revenue recognized as sustainable revenue



THAILAND TAXONOMY



Storage of electricity, thermal energy and low-carbon hydrogen and its derivatives



Contributes to Climate Change Mitigation



Meets the criteria, as the Taxonomy recognizes all electricity storage systems, including BESS, as aligned with its climate change mitigation objective.



ELIGIBLE AS A GREEN ACTIVITY

Solar Installation and O&M Services



Business Overview

GULF1, our subsidiary, provides integrated solar energy solutions for industrial, commercial and residential customers, covering rooftop, carport, ground-mounted and floating solar systems. Our services span project development, system design and engineering, solar equipment supply, installation, operation and maintenance, and electricity supply under long-term private PPAs. For industrial customers, we operate solar rooftop projects under PPAs averaging 15 years, with 200 MW in operation and 63 MW under construction or development as of 31 December 2025. Through “1RTID,” we extend our expertise to the residential market through one-stop services covering consultation, system design, installation, regulatory coordination, maintenance and after-sales support, together with optional battery and backup-power solutions.

Assessment Criteria

Business Activity

Environmental Objective

Substantial Contribution Criteria

Under Technical Screening Criteria
(TSC)

Assessment Result



EU TAXONOMY



7.6 Installation, maintenance and repair of renewable energy technologies



Contributes to Climate Change Mitigation



Meets the criteria, as the activity provides on-site installation, maintenance and repair of solar photovoltaic systems and ancillary technical equipment



QUALIFIED AS A SUSTAINABLE BUSINESS ACTIVITY
Associated revenue recognized as sustainable revenue



THAILAND TAXONOMY



Installation, maintenance and repair of special-purpose building equipment



Contributes to Climate Change Mitigation



Meets the criteria, as the activity involves the installation of renewable energy equipment, and the installed equipment meets the applicable energy-efficiency standards



ELIGIBLE AS A GREEN ACTIVITY

Onshore and Offshore Wind Power



Business Overview

We develop and operate onshore and offshore wind power projects across Thailand, Vietnam, Germany and the United Kingdom, supplying renewable electricity under long-term power purchase agreements. As of 31 December 2025, our portfolio comprised 770 MW in commercial operation and 2,212 MW under development.

Assessment Criteria

Business Activity

Environmental Objective

Substantial Contribution Criteria
Under Technical Screening Criteria
(TSC)

Assessment Result



EU TAXONOMY

✓ 4.3 Electricity generation from wind power

✓ Contributes to Climate Change Mitigation

✓ Meets the criteria, as the activity generates electricity from wind power
No additional quantitative thresholds for emissions or energy efficiency are required.



QUALIFIED AS A SUSTAINABLE BUSINESS ACTIVITY
Associated revenue recognized as sustainable revenue



THAILAND TAXONOMY

✓ Wind energy generation

✓ Contributes to Climate Change Mitigation

✓ Meets the criteria, as the activity generates electricity from onshore and offshore wind power plants
The activity is not dedicated to supporting fossil-fuel infrastructure.



ELIGIBLE AS A GREEN ACTIVITY

Sustainable Revenues



Sustainable Business Activity	EU Taxonomy					Sustainable Revenues (Million THB)			
	Activity	Taxonomy Alignment	Substantial Contribution (SC)	Do No Significant Harm (DNSH)	Minimum Social Safeguard (MSS)	2022	2023	2024	2025 ²
Solar Power Generation	Electricity generation using solar photovoltaic technology	Taxonomy-Eligible	✓	Not Yet Assessed	Not Yet Assessed	561	535	552	1,878
BESS-Integrated Solar Farms ¹	Storage of electricity	Taxonomy-Eligible	✓	Not Yet Assessed	Not Yet Assessed				
Solar Installation and O&M Services	Installation, maintenance and repair of renewable energy technologies	Taxonomy-Eligible	✓	Not Yet Assessed	Not Yet Assessed	290	564	1,364	872
Wind Power Generation	Electricity generation from wind power	Taxonomy-Eligible	✓	Not Yet Assessed	Not Yet Assessed	21	401	414	239
Total Sustainable Revenues (MTHB)						872	1,500	2,330	2,989
Total Revenues (MTHB)						95,076	116,983	124,622	135,596
Percentage of Sustainable Revenues						0.92%	1.28%	1.87%	2.20%

Note: ¹BESS-integrated solar farm revenue and related costs are recorded under solar power generation, while the BESS component is assessed separately as electricity storage.

The first phase of solar farm and Solar BESS projects (6 projects, totaling ~623 MW): According to news reports in September 2026, once fully operational (from 2027 onwards), these projects are expected to generate an annual revenue of approximately THB 2.3 – 2.7 billion for the company.

²The 2025 sustainable revenue figures presented by business activity are for the accounting period from 1 April 2025 (the Amalgamation Date) to 31 December 2025.

Investment for Sustainable Products and Services



- R&D resources to develop sustainable products or services

We collaborate with suppliers and technology providers to enhance the sustainability and performance of our products through ongoing R&D and innovation. For example, at our gas-fired power plants, we study technologies such as combustion nozzle optimization, hydrogen co-firing, and carbon capture to improve efficiency and reduce greenhouse gas emissions. **GULF1 also provides advanced solar panels certified with Green Label No. 5, supported by efficient photovoltaic system technology and high-reliability Tier 1 standards.** In addition, we introduced Thailand's first high-quality solar panels designed to generate more electricity (detailed in the illustration below).



Energy-saving label project No. 5

Press Release

Related Websites

Site Map

Contact Now



ลำดับ	เครื่องหมายการค้า	รุ่น	ขนาด (วัตต์)	ค่าประสิทธิภาพ (ร้อยละ)	ค่าไฟฟ้าที่ประหยัดได้ (บาท/ปี)	ลดCO ₂ (KgCO ₂ /ปี)	ระดับ
31	LONGI	LR7-72HVH-645M	628	23.29	4,583	477.97	5 ★★★★★
32	LONGI	LR7-72HVH-650M	622	23.05	4,538	473.29	5 ★★★★★
33	LONGI	LR7-72HYD-640M	617	22.88	4,504	469.76	5 ★★★★★
34	LONGI	LR8-66HVD-645M	624	23.12	4,554	475.03	5 ★★★★★
35	LONGI	LR8-66HVD-650M	621	23.03	4,533	472.84	5 ★★★★★
36	PSI	580W-BG	562	21.78	4,103	427.90	5 ★★★★★
37	PSI	630W-BG	591	21.89	4,314	449.98	5 ★★★★★
38	SOLAR PPM	SPPM-MG12-GG 600W	587	20.67	4,285	446.94	5 ★
39	TRINASOLAR	TSM-625NEG19RC.20	602	22.30	4,395	458.36	5 ★★★★★
40	TRINASOLAR	TSM-720NEG21C.20	699	22.55	5,103	532.21	5 ★★★★★

Energy Efficiency Label No. 5 [Inverter]



Energy-saving label project No. 5

Press Release

Related Websites

Site Map

Contact Now



ลำดับ	เครื่องหมายการค้า	รุ่น	แบบ	ขนาด (kW)	ค่าประสิทธิภาพ (ร้อยละ)	ค่าไฟฟ้าที่ประหยัดได้ (บาท/ปี)	ลดCO ₂ (KgCO ₂ /ปี)	ระดับ
1	ATMOCE	MI-1250-2M	Micro	1.25	98.29	156	59.86	5 ★★★★★
2	DEYE	SUN-10K-SG05LP3-EU-SM2	String	10	97.11	2,110	389.07	5
3	DEYE	SUN-12K-SG05LP3-EU-SM2	String	12	97.08	2,558	464.14	5
4	DEYE	SUN-15K-SG05LP3-EU-SM2	String	15	97.28	2,978	603.02	5
5	DEYE	SUN-20K-SG05LP3-EU-SM2	String	20	97.26	4,000	800.98	5
6	HUAWEI	SUN2000-10K-MAP0	String	10	98.51	1,088	495.66	5 ★★★★★
7	HUAWEI	SUN2000-10KTL-M1	String	10	98.32	1,226	481.2	5 ★★★★★
8	HUAWEI	SUN2000-15K-MB0	String	15	98.43	1,719	734.36	5 ★★★★★
9	HUAWEI	SUN2000-20K-MB0	String	20	98.42	2,307	977.62	5 ★★★★★

Energy Efficiency Label No. 5 [PV Solar]

Investment for Sustainable Products and Services



- **Infrastructure improvements to ensure products and services are produced/manufactured/maintained sustainably**

We continue to expand our renewable energy portfolio, **targeting renewables to account for 40% of installed capacity by 2035. We currently have nearly 10 GW of committed renewable capacity across five countries, with further opportunities to develop solar, wind, hydro, biomass, and waste-to-energy projects globally.** These initiatives support the growing demand for green energy from data centers, cloud services, and AI-related businesses and EV adoption. Looking ahead, we will continue accelerating our renewable energy investments, **allocating 67% of our THB 130 billion investment plan over the next five years (2026–2030) to renewable projects** to support reductions in Scopes 1 and 2 emissions intensity and achieve net zero by 2050.

- **Internal training on sustainable design principles for functions developing products or services**

Technical training and workshops are provided to keep the engineering, procurement, and sales and marketing teams updated on the latest R&D developments, technologies, and product and service innovations.

Examples of training courses include

- Residential Smart PV Solution,
- Solar PV system fundamentals,
- Inverter and battery technologies,
- PV system installation and configuration,
- Huawei Smart PV products, energy storage (ESS),
- Safety technologies, and
- Customer needs assessment and sales techniques.



Sustainable Transportation Through Electric Vehicles (EVs)

Driven by the need to reduce environmental impacts, support Thailand's Net Zero target, and address air pollution, electric vehicles have received strong government support. **Thailand's EV sales share rose from about 1% in 2019 to about 24% in 2024. As a result, electricity consumption in Thailand's transport sector is projected to increase by 11% in 2025, with battery demand projected to reach 54 GWh by 2030 to support the growing adoption of electric vehicles.**

As the largest private power producer in Thailand, we support sustainable transportation and the transition to electric vehicles (EVs) by strengthening access to clean, reliable, and distributed renewable energy solutions. We have increased our electricity generation capacity to meet this growing demand, with a focus on renewable energy sources including solar, wind, hydropower, biomass, and waste-to-energy. **Our installed generation capacity is 16,521 MW as of 31 December 2025, supporting Thailand's electricity security. We aim to increase the share of renewable power generation capacity to more than 40% by 2035, supporting national policy and enhancing electricity security for the business, industrial, and transportation sectors.**

In addition, GULF1 operates solar rooftop projects in Thailand and provides customized solar solutions for commercial and residential customers. **These offerings enable customers to charge EVs at home from a solar rooftop installation and provide power in areas where the grid is not accessible,** as well as reducing Thailand's electricity costs and associated CO₂ emissions, while enabling households and businesses to prepare for future electrification needs, including EV charging powered by lower-carbon electricity. By expanding solar rooftop, ground-mounted, floating, and residential solar solutions, GULF1 contributes to a broader clean-energy ecosystem that supports EV adoption, reduces reliance on fossil-fuel-based transportation energy, and aligns with our sustainability objective to facilitate decarbonization across value chains. **A total of 401 MW has been installed across 368 solar rooftop projects.**

Sources:

[Thailand's EV Boom: 24x Growth in EV Sales in Just 5 Years - Green Energy Thailand](#)

[Thailand Outlook Digest 2026 - Giz](#)

[Gulf Development](#)

[GULF1 Solar Energy | Gulf Energy Development Public Company Limited](#)

Community-based Energy Projects



Green Energy Green Network for THAIs

We, in collaboration with AIS, continue the “Green Energy Green Network for THAIs” initiative for its second year by **expanding access to clean energy and digital connectivity in remote communities**, with the second-year pilot in Ban Huay Pong Phatthana, Chiang Mai, where solar panels and learning equipment were provided to the Mae Fah Luang Hill Tribe Community Learning Center to **support education, digital learning, community activities, and sustainable livelihood opportunities, while helping reduce the energy and digital divide and improve long-term community well-being**; building on the first year’s impact across **6 remote communities, which generated more than 22 kW of clean energy and benefited over 4,000 people** through improved access to infrastructure, education, healthcare, and livelihood opportunities.



[GULF Expands “Green Energy Green Network for THAIs” Initiative into Second Year Pilot Area in Chiang Mai Focuses on Education and Sustainable Livelihoods | Gulf Development](#)

Community-based Energy Projects



GULF Sparks, Life Starts – Clean Energy for Sustainable Livelihoods

We continue the “**GULF Sparks, Life Starts**” initiative by **installing solar power for the first time on a floating community** in Ban Pak Nai, Nan Province, **where unstable electricity supply has affected daily life and local livelihoods**; the project **provides clean and reliable energy while training community members on system maintenance, helping reduce energy costs and support local fishing and fish-processing activities**, including dried-fish production, thereby improving productivity, generating income, and strengthening the community’s long-term resilience and quality of life.



GULF Continues the “GULF Sparks, Life Starts” Initiative, Installing Solar Power on Floating Rafts for the First Time in Ban Pak Nai, Nan Province, to Improve Quality of Life and Support Sustainable Local Fisheries

Circular Economy Strategy Integration



We promote responsible and sustainable business activity, products, and services management by **considering circularity throughout the lifecycle of equipment, materials, and energy-related assets.**

From Design – To Operation – Until End-of-Life

We engage with industrial customers, power off-takers, and business partners to **promote circularity considerations in energy-related projects from the design stage.** This includes selecting durable and modular equipment for power plants, substations, renewable energy systems, battery energy storage, and customer energy solutions to support longer asset life, easier maintenance, component replacement, and future material recovery.

Where applicable, we also work with customers to **design energy solutions that improve resource efficiency, reduce waste generation, and enable end-of-life management planning for key equipment such as solar panels, batteries, transformers, and electrical components.**

These practices contribute to relevant Sustainable Development Goals, particularly

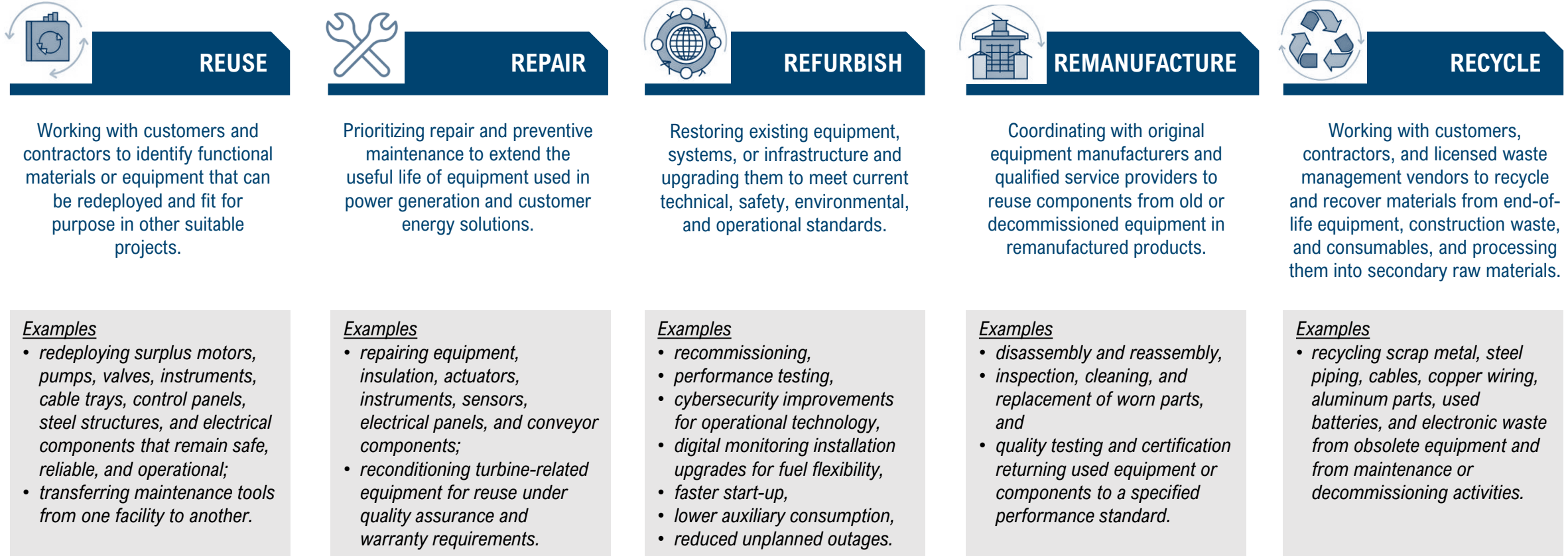
- SDG 12: Responsible Consumption and Production,
- SDG 13: Climate Action, and
- SDG 9: Industry, Innovation and Infrastructure.



5Rs Concept



We utilize the 5Rs concept of circularity—Reuse, Repair, Refurbish, Remanufacture, and Recycle—to support efficient resource use, extend the value of assets and materials, and reduce waste across our power generation business and customer energy solutions.



Note: Recycling should be applied after higher-value options such as reuse, repair, refurbishment, or remanufacturing have been considered, as it usually retains material value but not the full functional value of the equipment.

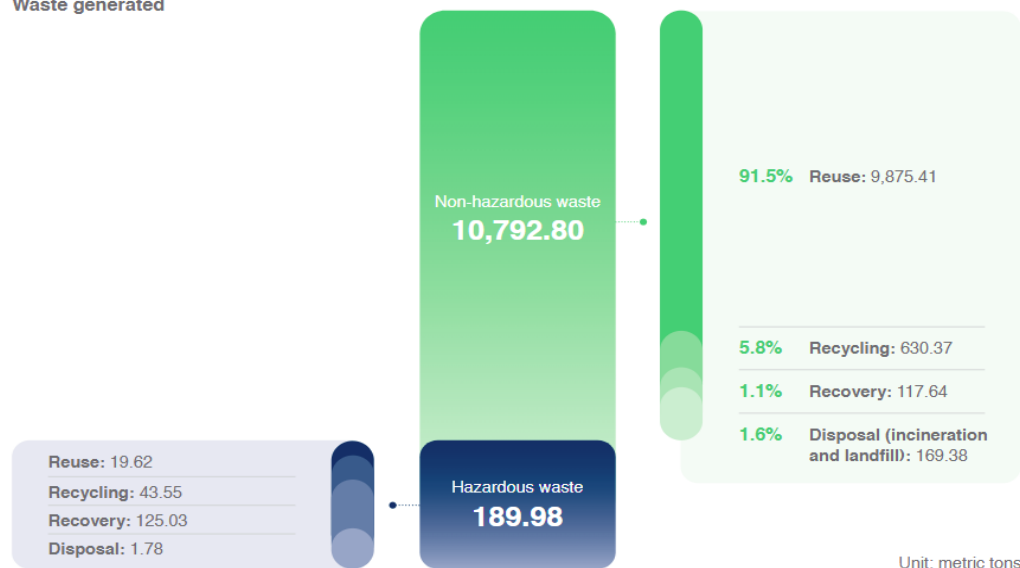
2025 Waste Management Performance



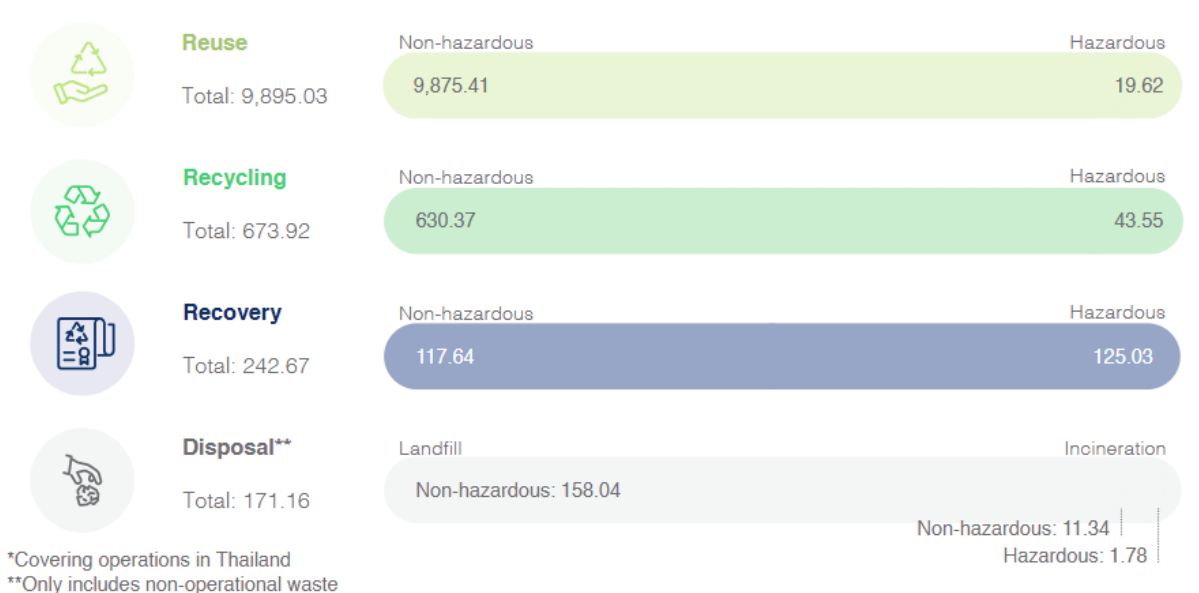
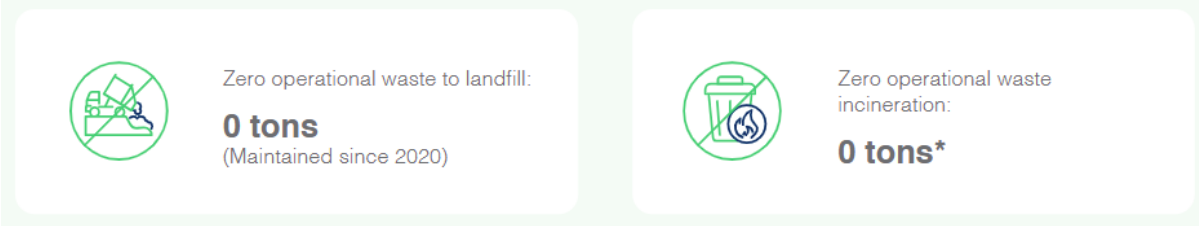
We have set bold annual targets to send zero operational waste to landfill and incinerate zero operational waste in Thailand. We have achieved the zero operational waste to landfill target every year since 2020 and eliminated operational waste incineration every year from 2021 onwards, including 2025. These are standing annual targets, and through our robust waste management system, we will continue to meet them every year.

In 2025, hazardous waste accounts for 1.73% of our total waste at 190 metric tons. Non-hazardous waste, which primarily consists of sediment and ash, as well as plastic, metal, glass, cloth and paper, accounts for most of the waste generated at 98.27% or 10,793 metric tons.

Waste generated



Targets: 2025 performance



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