

Gotion High-Tech 2025 Sustainability Report: ESG Overview

Carbon peak by 2027, carbon neutrality by 2035, zero-carbon factories certified, and 33,000 employees across 20 production complexes — inside Gotion's fifth sustainability report.

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Gotion High-Tech — Sustainability Report Overview (SZSE: 002074)

BloombergNEF	Tier 1 Global Energy Storage Manufacturer
S&P Global	Tier 1 Battery ESS Supplier
Carbon peak target	2027 (operations)
Carbon neutrality target	2035 (operations)
Key environmental targets	Reduce GHG & energy intensity 50 %
Frameworks	GRI 2021, IFRS S1/S2, SZSE, TCFD, SDGs
Third-party verification	GHG inventory verified independently
Report edition	5th annual sustainability report

Key Highlights

- Gotion committed to **carbon peak in operations by 2027** and **carbon neutrality by 2035**, releasing its formal Zero-Carbon Strategy during the reporting period.
- Total GHG emissions across all scopes reached **26.1 million tCO₂e** (location-based), with Scope 3 accounting for 91.6 % of the total.
- Two factories achieved **TUV Rheinland zero-carbon/carbon-neutral certification** (Jinzhai and Tangshan), with Wuhai's anode material plant running on 100 % green electricity.
- The workforce grew **29.4 % to 33,087 employees**, with zero work-related fatalities for the third consecutive year.
- R&D investment reached **RMB 3.37 billion** (7.47 % of revenue), with cumulative granted patents growing to 7,534 across 8 global R&D centers.
- First report prepared with reference to **IFRS S1 and S2** alongside GRI Standards.

1. Environmental

1.1 Climate and emissions

Gotion recorded total GHG emissions of 26,063,736 tCO₂e (location-based) and 25,972,088 tCO₂e (market-based) across all scopes in 2025. Scope 3 emissions accounted for 91.6 % of the total at 23,861,864 tCO₂e.

GHG emission intensity per million RMB of revenue was 578.29 tCO₂e (location-based). The company released its formal Zero-Carbon Strategy in 2025. A total of 169 energy-saving initiatives saved 140 million kWh and reduced emissions by 75,300 tCO₂e.

Jinzhai Gotion received TUV Rheinland Zero Carbon Factory certification, Tangshan Gotion received Carbon Neutral Factory certification, and Wuhai's anode material plant achieved 100 % direct-sourced green electricity. Gotion procured 1,578 tCO₂e of verified carbon credits (EIB and Verra) to offset residual emissions.

METRIC	UNIT	2025	2024	2023
Scope 1 (direct)	tCO ₂ e	316,695	248,513	121,903
Scope 2 — location-based	tCO ₂ e	1,885,176	1,634,317	1,135,507
Scope 2 — market-based	tCO ₂ e	1,793,529	1,634,317	1,135,507
Scope 3 (value chain)	tCO ₂ e	23,861,864	4,012,360	1,786,210
Total — location-based	tCO₂e	26,063,736	—	—
GHG intensity (location)	tCO ₂ e/RMB M	578.29	—	—

1.2 Energy

Total energy consumption reached 3,267,901 MWh (+37.8 %). Energy intensity improved 9.8 % to 31.72 MWh per MWh of battery production. Renewable energy consumption grew 77.4 % to 758,400 MWh. Purchased green electricity totaled 606,273 MWh (42.42 % of clean energy), with on-site PV generation at 152,126 MWh (10.64 %). Renewable energy comprised 16.13 % of total consumption.

METRIC	UNIT	2025	2024	2023
Total energy consumption	MWh	3,267,901	2,371,052	1,752,091
Energy intensity	MWh/MWh	31.72	35.16	36.53
Renewable energy	MWh	758,400	427,417	49,649
PV generation ratio	%	10.64	5.12	10.41

METRIC	UNIT	2025	2024	2023
Purchased green electricity ratio	%	42.42	38.03	—

1.3 Water and waste

Freshwater withdrawal reached 7,127,033 tonnes, with consumption of 6,577,296 tonnes and water intensity of 63.84 t/MWh. General industrial solid waste totaled 172,390 tonnes, of which 98.4 % was recycled or reused. Hazardous waste totaled 2,257 tonnes. Gotion issued a Biodiversity and No-Deforestation Policy and adopted the TNFD LEAP framework.

METRIC	UNIT	2025	2024	2023
Freshwater withdrawal	Tonnes	7,127,033	3,040,713	2,834,897
General solid waste	Tonnes	172,390	72,459	53,348
General waste recycled	Tonnes	169,616	67,473	50,833
Hazardous waste	Tonnes	2,257	1,684	1,179
VOCs	Tonnes	43.69	11.60	5.77
NOx	Tonnes	43.45	23.78	11.72
SO2	Tonnes	37.25	16.74	0.24

2. Social

2.1 Workforce

Total headcount grew 29.4 % to 33,087 employees. The workforce was 74.05 % male and 25.95 % female. By education, 11.96 % held a master's degree or above. Overseas employees numbered 395 (1.19 %). Turnover improved to 23.20 % from 25.10 %. Employee engagement scored 90.00 points. The mean gender pay gap was 8 %. Women held 19.59 % of management positions. Average training hours rose to 40.44 from 26.71.

METRIC	UNIT	2025	2024	2023
Total employees	Person	33,087	25,575	22,939
Female	%	25.95	26.76	27.99
Under 30	%	38.65	36.63	41.56
Master's degree or above	%	11.96	11.73	10.93
New hires	Person	17,552	6,827	11,880
Annual turnover rate	%	23.20	25.10	28.40
Employee engagement	Points	90.00	89.30	87.70
Mean gender pay gap	%	8	—	—
Average training hours	Hours	40.44	26.71	—
Female in management	%	19.59	18.10	—

2.2 Health and safety

Zero work-related fatalities for employees and contractors for the third consecutive year. 100 % OHS certification coverage. The LTIFR rose to 0.92 per million working hours from 0.10 in 2024 (the 2023 rate was 1.92). Lost working days increased to 2,999.50 from 639.50. The injury frequency rate per 1,000 employees improved to 1.84 from 1.99.

METRIC	UNIT	2025	2024	2023
Work-related fatalities	Person	0	0	0
Injury rate (per 1,000)	‰	1.84	1.99	2.68
LTIFR (per million hours)	Rate	0.92	0.10	1.92
Lost working days	Days	2,999.50	639.50	2,153.25

METRIC	UNIT	2025	2024	2023
OHS certification coverage	%	100	100	75

2.3 Supply chain

262 total suppliers (228 Tier-1, 123 key Tier-1). 100 % have environmental, labor, and human rights contract clauses. 82.44 % of key suppliers assessed on-site. No suppliers terminated for sustainability reasons. 75 % of key material suppliers have obtained product carbon footprint certification. Over 99 % of suppliers are domestic.

3. Governance

3.1 Board and oversight

11 board members, including 4 independent directors and 1 female director (9.09 %). 4 board meetings during the year, 7 special committee meetings, 100 % attendance. A new Strategy and ESG Committee was established under the board, with a three-tier ESG management structure spanning group, regional, and hub/subsidiary levels.

3.2 Ethics and compliance

3 internal corruption violations reported (4 in 2024, 0 in 2023). No fines or convictions. 100 % integrity commitment, anti-corruption policy informed, and ethics training. Zero customer privacy breaches, information security incidents, and data security breaches. 26 complaints/whistleblowing reports received and resolved.

4. Innovation

R&D investment grew 14.9 % to RMB 3.37 billion (7.47 % of revenue). 3,910 R&D personnel (11.82 % of staff) across 8 global centers in China, Japan, Singapore, and the USA.

METRIC	UNIT	2025	2024	2023
R&D investment	RMB B	3.37	2.93	2.77
R&D as % of revenue	%	7.47	8.28	8.76
R&D personnel	Person	3,910	3,754	3,132
New patent applications	Patent	2,698	2,473	1,739
Cumulative granted patents	Patent	7,534	6,029	5,065
Foreign patents (cumulative)	Patent	120	101	83

5. What to Watch

Safety metrics show a mixed picture. The LTIFR rose from 0.10 to 0.92 per million working hours, and lost working days increased from 640 to 3,000. However, the injury rate per 1,000 employees improved (1.84 vs 1.99), and the 2023 LTIFR was 1.92 — suggesting the 2024 figure may have been anomalously low. The report expanded its data coverage scope during the year.

Scope 3 accounts for 91.6 % of total emissions. At 23.9 million tCO₂e, Scope 3 dwarfs Scope 1+2 combined (2.2 million tCO₂e). The 2025 report expanded coverage to 9 categories, partly explaining the year-on-year increase. This pattern is typical across battery manufacturers. The carbon neutrality target (2035) covers operations only.

Two factories have achieved third-party zero-carbon certification. TUV Rheinland certified Jinzhai and Tangshan, and 75 % of key material suppliers have carbon footprint certification. The EU Battery Regulation introduces carbon footprint declarations for industrial batteries, including energy storage systems.

Three internal corruption violations were reported in 2025 (four in 2024, zero in 2023). No fines or convictions resulted. The board has 11 members with 4 independent directors and 1 female director (9.09 %). A new Strategy and ESG Committee was established at board level.

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Data sourced from Gotion High-Tech's official 2025 Sustainability Report (200 pages, English)