

alperia

Alperia ESG Factbook 2025
Version 1.0



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This ESG Factbook contains key ESG indicators that are not included in the 2025 Consolidated Financial and Sustainability Statements.

The data in the ESG Factbook is published in addition to the Group Sustainability Statement¹. The key figures reported in this ESG Factbook refer to the last four fiscal years (each from January 1 to December 31). They do not reflect materiality but are still calculated for contextual purposes and are based on the interests of certain stakeholder groups, such as rating agencies. They are therefore published in this document to offer additional insight and a more comprehensive understanding of Alperia's activities and overall performance.

Unlike the Group Sustainability Statement, the ESG Factbook is not subject to external review.



¹Information can be found on the Alperia website: [Reports | Alperia](#)

Index of Content

1. Emission Indicators	4
1.1 Carbon Intensity	4
1.2 Carbon Intensity of Generation	5
1.3 SO _x & NO _x Intensity	5
2. Waste Indicators	6
3. Certifications obtained by the Alperia Group	7

1. Emission Indicators

1.1 Carbon Intensity

		Carbon Intensity			
	UoM	2025	2024	2023	2022
SCOPE 1 (non biogenic+ biogenic)	tCO₂e	73.347	76.567	92.879²	61.726³
1.a Stationary emissions	tCO ₂ e	70.256	70.620	81.212	49.159
1.b Mobile combustion	tCO ₂ e	985	867	978	992
1.c Industrial process	tCO ₂ e	0	0	0	0
1.d Fugitive emissions	tCO ₂ e	996	1.462	908	1.190
1.e Land use	tCO ₂ e	0	0	0	0
Scope 1 - Biogenic	tCO ₂ e	1.110	3.618	9.781	10.386
SCOPE 2 – Location based	tCO₂e	2.651	2.506	2.435	1.632
SCOPE 2 – Market based	tCO₂e	1.084	586	670	612
Scope 1 + Scope 2 Market Based	tCO₂e	74.431	77.153	93.549	62.338
Revenue	€	2.392.539.755	2.366.133.761	2.724.991.513	3.637.897.750
Exchange Rate EUR/USD ⁴		1,1750	1,0389	1,1046	1,0666
Revenue in \$	\$	2.811.234.212	2.458.176.364	3.009.998.375	3.880.181.740
Carbon Intensity	tCO₂e/ US\$m	26	31	31	16

²The high emissions in 2023 can be largely explained by the operation of Biopower Sardegna Srl and the high energy consumption of the Bolzano district heating system. Moreover, in the previous year (2022), Alperia Green Future Srl's cogeneration plants were not yet operating at full capacity, which they reached in 2023.

³Carbon intensity was lower in 2022 due to high electricity prices.

⁴At 31.12.

1.2 Carbon Intensity of Generation

Carbon Intensity of Generation					
	UoM	2025	2024	2023	2022
SCOPE 1					
1.a Stationary emissions	tCO ₂ e	70.255,80	70.619,81	81.211,56	49.158,98
Scope 1-Biogenic					
1.a Stationary emissions	tCO ₂ e	1.110,07	3.618,32	9.780,59	10.385,59
SCOPE 2					
Non renewable electric energy – Market based	tCO ₂ e	0	0	30,35	157
Renewable electric energy – Market based	tCO ₂ e	0	0	0	0
Thermal energy – Market based	tCO ₂ e	1.084,28	585,69	639,46	454,81
Scope 1 + Scope 2 Market based per Generation	tCO₂e	72.450	74.824	91.662	60.156
Production	MWh	4.558.304	5.889.964 ⁵	4.570.524	3.381.000
Carbon Intensity of Generation	tCO₂e/MWh	0,016	0,013	0,020	0,018

1.3 SOx & NOx Intensity

SOx & NOx Intensity					
	UoM	2025	2024	2023 ⁶	2022
SOx quantity	ton	2,4 × 10 ⁻⁶	1,7 × 10 ⁻⁶	1,1 × 10 ⁻⁶	5,84
Revenue	\$	2.811.234.212	2.458.176.364	3.009.998.375	3.880.181.740
SOx Emission Intensity	t/US\$m	8,5372 × 10⁻¹⁰	6,93 × 10⁻¹⁰	3,6545 × 10⁻¹⁰	1,50508 × 10⁻³
NOx quantity	ton	182,2	185,1	213,7	44,41
Revenue	\$	2.811.234.212	2.458.176.364	3.009.998.375	3.880.181.740
NOx Emission Intensity	t/US\$m	0,064811391	0,075304302	0,070996716	0,01144534

⁵In 2024, hydropower generation reached a record level for the Alperia Group.

This outstanding result was driven not only by the abundant snowfall and rainfall throughout the year, but also by the strong commitment to consistently ensuring the availability and reliability of the plants.

⁶The emission factor for NOx and SOx was updated.

2. Waste Indicators

	Waste					
	UoM	2025	%	2024	2023	2022
Total Waste produced	ton	2.358		3.340	3.287	2.067
Total Waste disposed of⁷	ton	2.353	100%	3.360 ⁸	3.283	2.055
Not Hazardous	ton	1.913	81%	2.641	2.710	n.a.
Hazardous	ton	440	19%	719	573	n.a.
Radioactive waste	ton	0	0%	0	0	0
<i>of which:</i>						
Diverted from disposal	ton	1.931	82%	2.893	2.639	1.485
Recycled	ton	1.111,92	47%	1.804,79	851,13	1.279,87
<i>Not Hazardous⁹</i>	ton	1.106,30	47%	n.a.	n.a.	n.a.
<i>Hazardous</i>	ton	5,62	0%	n.a.	n.a.	n.a.
Reused	ton	819,19	35%	1.087,97	1.788,02	205,49
<i>Not Hazardous</i>	ton	521,13	22%	n.a.	n.a.	n.a.
<i>Hazardous</i>	ton	297,97	13%	n.a.	n.a.	n.a.
Sent to disposal	ton	421,48	18%	466,99	644	570
Incineration	ton	0	0%	0	0	0
<i>Not Hazardous</i>	ton	0	0%	n.a.	n.a.	n.a.
<i>Hazardous</i>	ton	0	0%	n.a.	n.a.	n.a.
Landfill	ton	421,48	18%	466,99	644	570
<i>Not Hazardous</i>	ton	285,27	12%	n.a.	n.a.	n.a.
<i>Hazardous</i>	ton	136,21	6%	n.a.	n.a.	n.a.

⁷The difference between waste produced and disposed of is due to the waste remaining in storage at the end of the year.

⁸Total waste disposed exceeds the total waste produced during the year because part of the waste was carried over from previous years and of in the reporting year.

⁹Data regarding hazardous and not hazardous waste for the subcategories of waste diverted and waste sent to disposal are available only from 2025.

3. Certifications obtained by the Alperia Group

Certification/ Business Unit	ISO 9001 Quality: 2015	ISO 14001 Environmental: 2015	ISO 45001 Health & Safety: 2018	ISO/IEC 27001 Information Security: 2022	ISO 50001 Energy: 2018	UNI PdR/125: 2022	UNI CEI 11352 ESCo: 2014	EMAS	Pas 24000: 2022	ISO 14067
Holding										
Alperia Spa	X	X	X	X	X	X				
Alperia Green Generation Srl ¹⁰										
GEA Rinnovabili Srl ¹¹										
Generation										
Alperia Greenpower Srl	X	X	X		X	X		X	X	
Alperia Vipower SpA	X	X	X					X		
Trading										
Alperia Trading Srl	X	X	X			X				
Sales										
Alperia Smart Services Srl	X	X	X		X	X				
Fintel Gas e Luce Srl ¹²										
Alperia BWC Energy Srl ¹³										
Alperia Felix Energy Srl										
Networks										
Edyna Srl	X	X	X		X	X				X
Heat & Services										
Alperia Ecoplus Srl	X	X	X		X	X		X		
Smart Region										
Alperia Green Future Srl	X	X	X			X	X			
Other										
Hydrodata Spa	X	X	X			X				
Alperia Innoveering Srl ¹⁴										

¹⁰Alperia Green Generation Srl was established on 20/10/2025.

¹¹GEA Rinnovabili Srl was fully (100%) acquired on 11/12/2025 by Alperia Green Generation Srl.

¹²Fintel Gas e Luce Srl is a company established in 2022. As of 30/06/2025, Alperia Spa increased its ownership stake from 90% to 100%.

¹³Alperia BWC Energy Srl was established on 09/07/2025. The company operates as a retail reseller with the aim of acquiring new customers in the areas of green electricity, carbon-offset gas, and additional non-commodity services.

¹⁴Alperia Innoveering Srl is 99% owned by Hydrodata Spa and 1% by Alperia Spa. The personnel of Alperia Innoveering Srl is the same as that of Hydrodata Spa.



Alperia SpA
Via Dodiciville 8
39100 Bolzano, Italia
T +39 0471 986 111
sustainability@alperia.eu