

Hwashin Global Subsidiaries ESG Fact Sheet(2024)

Hwashin Brazil
Ficha informativa ESG(2024)

1. Visão geral do relatório

Este relatório é o Informativo ESG da Hwashin Brasil. A Hwashin Brasil está comprometida em divulgar com transparência seus esforços e conquistas relacionados à sustentabilidade e em se envolver continuamente com seus stakeholders por meio de uma comunicação responsável. A Hwashin Brasil planeja gerenciar e divulgar dados em todas as áreas de Meio Ambiente, Social e Governança (ESG) para garantir o compartilhamento transparente de informações no futuro.

2. Período e escopo do relatório

O período coberto por esta Ficha Técnica é de 1º de janeiro de 2024 a 31 de dezembro de 2024. Para garantir a comparabilidade dos dados, foram incluídos os resultados de desempenho dos últimos três anos (2022-2024). O escopo deste relatório abrange todas as unidades operacionais da Hwashin Brasil.

3. Garantia de Relatório

As informações apresentadas nesta Ficha Técnica foram coletadas de registros internos e dados oficiais do departamento. A Hwashin Brasil continuará a explorar opções para verificação externa adicional, a fim de aumentar a transparência e a credibilidade.

Emissões de GEE

Categoria	Unidade	2019	2023	2024	Notas
Scope 1	tCO ₂ e	860.309	980.210	745.317	
Scope 2	tCO ₂ e	1,479.701	850.906	1,268.129	
Scope 3	tCO ₂ e	-	-	-	Monitoramento ainda não iniciado
Total		2,340.010	1.831,116	2.013,446	

Consumo de energia

Categoria	Unidade	2022	2023	2024	Notas
Energia	MWh	10,964	10,896	11,564	
Energia renovável	MWh	-	-	-	Não utiliza energia renovável
Total		10,964	10,855	11,564	

※ Há planos para obter garantia de terceiros para os dados de no futuro para garantir sua confiabilidade.

Desperdício

Categoria	Unidade	2022	2023	2024	Notas
Resíduos Gerais	ton	48.94	32.64	16.17	
Resíduos Perigosos	ton	130.12	261.09	220.62	
Reciclagem/Reutilização de Resíduos	ton	9,073	9,039	10,301	

Recursos hídricos

Categoria	Unidade	2022	2023	2024	Notas
Uso de água	M²	29,057	30,800	28,140	
Águas residuais	M²	15,240	15,753	13,392	
Reciclagem de águas residuais	M²	-	-		

Poluente da água

Categoria	Unidade	2022	2023	2024	Notas
DBO(BOD)	Mg/L	86.25	34.08	46.49	
DQO(COD)	Mg/L	254.00	83.00	138.00	
Total					

※ Todas as águas residuais da Hwashin Brasil são descarregadas diretamente em uma estação de tratamento de esgoto externa, mas Hwashin Brasil deve medir a demanda biológica e química de oxigênio para obter uma licença de operação.(que deve ser mantida dentro de limites aceitáveis)

Poluente atmosférico

Categoria	Unidade	2022	2023	2024	Notas
NOx	ton	0.087	0.084	-	Em 2024 não foi realizado pois realizamos a análise conforme a L.O exige para renovação.
SOx	ton	-	-	-	
PM	ton	0.526	0.509	-	
Total		0.613	0.593	-	

※ Para NOx e MP, a Hwashin Brasil verifica a vazão de poluentes atmosféricos e a eficiência das instalações de redução de poluentes atmosféricos (filtros) por meio de uma empresa de medição externa a cada dois anos para obter a licença de operação da fábrica.(SOx não se aplica)

Hwashin Automotive India Pvt Ltd
ESG Fact Sheet(2024)

1. Report Overview

This report is the ESG Fact Sheet of Hwashin Automotive India Pvt Ltd. Hwashin Automotive India Pvt Ltd is committed to transparently disclosing its sustainability-related efforts and achievements, and to continuously engaging with stakeholders through responsible communication. Hwashin Automotive India Pvt Ltd plans to manage and disclose data across all areas of Environmental, Social, and Governance (ESG) to ensure transparent information sharing going forward.

2. Reporting Period and Scope

The reporting period covered in this Fact Sheet is from January 1, 2024 to December 31, 2024. To ensure data comparability, performance results for the past three years (2022–2024) are included. The scope of this report covers all operational sites of Hwashin Automotive India Pvt Ltd.

3. Report Assurance

The greenhouse gas emissions and pollutant-related data presented in this Fact Sheet have undergone third-party verification to ensure accuracy and reliability. Hwashin Automotive India Pvt Ltd remains committed to maintaining high standards of transparency and will continue to pursue external assurance for future disclosures.

GHG Emissions

Category	Unit	2022	2023	2024	Notes
Scope 1	tCO ₂ e	2,804	2,603	2,482	
Scope 2	tCO ₂ e	4,475	4,044.9	2,123.2	
Scope 3	tCO ₂ e	-	-	1,466.08	In 2024, only Categories 4, 7, and 9 were calculated
Total		7,279	6,647.9	6,071.28	

※ Hwashin Automotive India Pvt Ltd has established a greenhouse gas reduction target of 15% by 2030, using 2019 as the base year.

Energy Consumption

Category	Unit	2022	2023	2024	Notes
Electricity (Non-Renewable)	MWh	6,346.67	5,669.9	2,976.22	
Electricity (Renewable)	MWh	16,846.99	18,979.3	22,854.66	
Fuel (Renewable)	MWh	1,027.88	677.1	607.21	
Total		24,221.54	25,326.3	26,438.09	

Waste

Category	Treatment Method	2022 (Tons)	2023 (Tons)	2024 (Tons)	Notes
General Waste	Recycling	24,628.3	26,630.3	24,647	
Hazardous Waste	Incineration	73.84	96.37	68.52	
	Recycling	12.11	29.94	48.95	
Waste Recycled/ Reused	-	0.6	90.25	97.98	

Water Resources

Category	Unit	2022	2023	2024	Notes
Water withdrawal	ton	51,615	42,505	39,005	Tap water, Industrial water
Wastewater discharge	ton	51,409	39,772	36,737	

Water Pollutant

Category	Unit	2022	2023	2024	Notes
BOD	ton	40.25	43.75	49.5	
COD	ton	5.75	6.25	5	
Total		46	50	54.5	

Air Pollutant

Category	Unit	2022	2023	2024	Notes
NOx	ton	453.75	630	571.75	
SOx	ton	69.75	56.25	52.25	
PM	ton	176.25	189.25	170.5	
Total		699.75	875.5	794.5	

**Hwashin America Corporation
ESG Fact Sheet(2024)**

1. Report Overview

This report is the ESG Fact Sheet of Hwashin America Corporation. Hwashin America Corporation is committed to transparently disclosing its sustainability-related efforts and achievements, and to continuously engaging with stakeholders through responsible communication. Hwashin America Corporation plans to manage and disclose data across all areas of Environmental, Social, and Governance (ESG) to ensure transparent information sharing going forward.

2. Reporting Period and Scope

The reporting period covered in this Fact Sheet is from January 1, 2024 to December 31, 2024. To ensure data comparability, performance results for the past three years (2022–2024) are included. The scope of this report covers all operational sites of Hwashin America Corporation.

3. Report Assurance

The information presented in this Fact Sheet has been collected based on internal records and official departmental data. Greenhouse gas emissions and energy consumption data have been independently verified by external organizations for both 2022 and 2023. Hwashin America Corporation will continue to conduct regular third-party verification for its GHG emissions and energy consumption data. In addition, the company plans to gradually expand external assurance to other key ESG areas in order to enhance transparency and credibility.

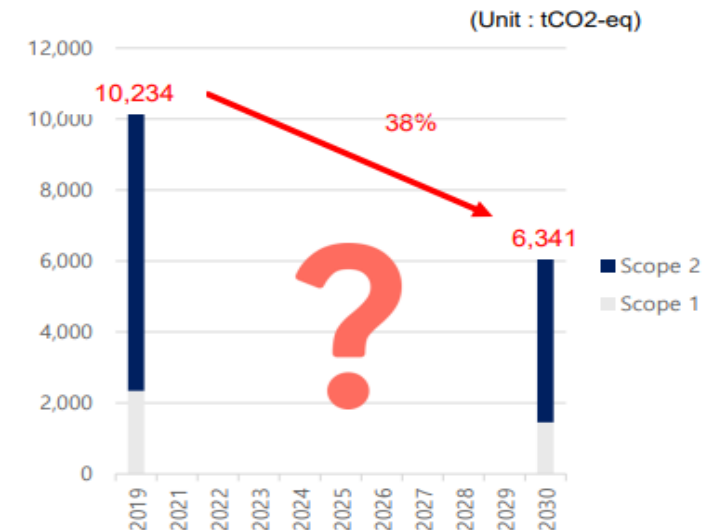
GHG Emissions

Category	Unit	2022	2023	2024	Notes
Scope 1	tCO ₂ e	7,599.6	2,480.2	3,145	
Scope 2	tCO ₂ e	9,744.4	7,994.7	8,565	
Scope 3	tCO ₂ e	-	-	-	Monitoring not yet initiated
Total		17,344	10,474.9	11,710	

※ The 2023 and 2024 data have been verified, and there are plans to obtain additional third-party assurance for the 2022 data to further ensure their reliability

GHG Emissions Reduction Plan

- Scope : Scope 1 & 2
- Base year : 2019
- Base year emission : 10,233.81 tCO₂e
- Target year : 2030
- Target year emission : 6,341.2 tCO₂e
- Reduction target : 38%



Energy Consumption

Category	Unit	2022	2023	2024	Notes
Electricity (Non-renewable)	MWh	18,518.2	22,269.5	23,587.9	
Fuel (Non-renewable)	MWh	26,556	11,396.7	17,007.4	
Total		45,074.2	33,666.2	40,595.3	

※ The 2023 and 2024 data have been verified, and there are plans to obtain additional third-party assurance for the 2022 data to further ensure their reliability

Waste

Category	Unit	2022	2023	2024	Notes
General Waste	ton	717	624	584	Landfilled only
Hazardous Waste	ton	112.4	182.2	161	Landfilled only

Water Resources

Category	Unit	2022	2023	2024	Notes
Water Withdrawal	ton	46,380	67,257	65,345	
Wastewater	ton	-	30,124.9	38,776	

Water Pollutant

Category	Unit	2022	2023	2024	Notes
BOD	ton	-	-	-	
COD	ton	-	-	-	
Total		-	-	-	

※ According to the Alabama Department of Environmental Management (ADEM), zinc concentration is the primary parameter regulated for wastewater discharge. As such, BOD and COD are not part of the required monitoring parameters and are therefore not measured.

Air Pollutant

Category	Unit	2022	2023	2024	Notes
NOx	ton	-	-	-	
SOx	ton	-	-	-	
PM	ton	-	-	-	
Total		-	-	-	

※ Hwashin America Corporation has received an official letter from the Alabama Department of Environmental Management (ADEM), confirming that the facility's operations are not expected to exceed any state or federal air pollutant emission thresholds. As a result, Hwashin America Corporation is not subject to registration under ADEM's air permitting system. Accordingly, the measurement and reporting of NOx (nitrogen oxides), SOx (sulfur oxides), and PM (particulate matter) are not required under current regulatory obligations, and these parameters are therefore considered Not Applicable to our operations.