

# Environmental Data

Metric	GRI Indicator	2018	2019	2020	2021
<b>Scope 1 + 2 Emissions (metric tons CO<sub>2</sub>e)</b>					
Scope 1 + 2 GHG emissions intensity (mT CO <sub>2</sub> e / Sales \$M)	305-4	52.6	49.0	47.4	43.7
Scope 1 + 2 GHG emissions intensity from 2018 baseline	305-5	-	-6.7%	-9.9%	-16.8%
Scope 1 + 2 GHG emissions total	305-1 and 305-2	914,995	901,013	795,110	797,086
Scope 1 + 2 GHG emissions from manufacturing facilities		704,328	689,799	630,870	615,163
Scope 1 + 2 GHG emissions from non-manufacturing facilities		210,667	211,214	164,240	181,923
Scope 1 + 2 regional GHG emissions breakdown NA		485,539	468,274	422,163	411,962
Scope 1 + 2 regional GHG emissions breakdown LATAM		123,112	122,823	102,389	113,298
Scope 1 + 2 regional GHG emissions breakdown EU		102,853	101,096	83,430	84,589
Scope 1 + 2 regional GHG emissions breakdown MEA		27,550	27,524	24,121	21,388
Scope 1 + 2 regional GHG emissions breakdown AP w/o China		77,513	79,917	70,182	55,082
Scope 1 + 2 regional GHG emissions breakdown China only		98,428	101,379	92,824	110,767

Metric	GRI Indicator	2018	2019	2020	2021
Scope 1 + 2 GHG emissions breakdown by business (COMRES)		438,832	430,285	385,987	401,454
Scope 1 + 2 GHG emissions breakdown by business (AUTOSOL)		414,346	409,206	359,517	351,812
Scope 1 + 2 GHG emissions breakdown by business (CORP)		61,817	61,522	49,605	43,820
<b>Scope 1 Emissions (metric tons CO<sub>2</sub>e)</b>					
Scope 1 emissions total	305-1	202,998	196,962	179,149	195,945
Scope 1 GHG emissions by natural gas		137,182	132,252	121,970	122,511
Scope 1 GHG emissions by propane		7,020	8,452	8,803	7,281
Scope 1 GHG emissions by stationary diesel		3,585	1,008	896	862
Scope 1 GHG emissions by residual fuel oil		193	231	355	213
Scope 1 GHG emissions by kerosene		449	547	632	550
Scope 1 GHG emissions from mobile sources		45,101	44,999	37,025	54,264
Scope 1 GHG emissions from refrigerants		9,423	9,423	9,423	10,216
Scope 1 GHG emissions from agricultural byproducts		45	48	44	46
<b>Scope 2 Emissions (metric tons CO<sub>2</sub>e)</b>					
Scope 2 emissions total (market-based)	305-2	711,997	704,052	615,961	601,141
Scope 2 emissions total (location-based)	302-3	709,532	701,556	619,446	604,629
Reduction in Scope 2 GHG emissions by renewable energy / total avoided	302-2	16,455	17,353	17,148	18,217

Metric	GRI Indicator	2018	2019	2020	2021
<b>Energy (MWh)</b>					
Energy consumption (MWh)	302-4	2,282,041	2,258,512	2,039,436	2,116,917
Natural gas use	302-1	756,886	729,686	672,959	675,944
Mobile sources	302-1	78,883	78,431	62,631	113,970
Stationary diesel use	302-1	14,155	3,981	3,537	3,405
Kerosene use	302-1	1,743	2,124	2,456	2,144
Residual fuel oil use	302-1	750	899	1,379	829
Agricultural byproducts		6,469	6,890	6,337	6,590
Propane use		33,200	39,976	41,633	34,437
Purchased steam	302-1	1,330	1,330	1,405	1,355
Purchased hot water		1,527	3,691	3,042	2,803
Electricity use	302-1	1,387,097	1,391,504	1,244,057	1,275,440
On-site renewable electricity generation		4,948	5,003	3,441	4,180
Contracted renewable electricity		27,628	29,363	36,634	43,616
Number of locations with 100% renewable electricity		5	6	8	11
Energy intensity (MWh / Sales \$M)		131.1	122.9	121.5	116.1
Energy intensity reduction compared to 2018	302-3	-	-6.2%	-7.3%	-11.5%

Metric	GRI Indicator	2018	2019	2020	2021
<b>Scope 3 Emissions (metric tons CO<sub>2</sub>e)</b>					
Scope 3 emissions purchased goods & services and capital goods (Category 1+2)	305-3			1,675,000	2,049,500
Scope 3 emissions upstream fuel & energy related activities (Category 3)	305-3			170,000	163,000
Scope 3 emissions up & downstream transportation & distribution (Category 4+9)	305-3				803,000
Scope 3 emissions waste in operations (Category 5)	305-3				52,100
Scope 3 emissions business travel (Category 6)	305-3				19,200
Scope 3 emissions employee commuting (Category 7)	305-3				155,000
Scope 3 emissions use of sold products (Category 11)	305-3				588,000,000
Scope 3 emissions end-of-life treatment (Category 12)	305-3				150,000
Scope 3 emissions total	305-3				591,391,800

Scope 3 categories 10 and 15 are negligible, categories 13 are 14 not applicable. For combined Scope 1 + 2 calculations, note Scope 2 market-based emissions were used to calculate the totals. Scope 3 categories 1-3 emissions calculations for 2021 use a different methodology than the previous year.

**Scope 1 GHG emissions from refrigerants**

- Estimated refrigerant emissions using industry standard intensities per square foot for leakage in manufacturing and non-manufacturing facilities. R134a was assumed to be used in non-manufacturing sites while R404a was assumed to be used in manufacturing locations, both due to a sampling of Emerson sites and the high GWP value of these refrigerants.

Note that Emerson's emissions reductions targets related to our 2045 net zero ambition, as well as our near-term 2030 goals, use 2021 data as a baseline. Emerson has engaged WSP to assist in the development of our Scope 1 and 2 greenhouse gas (GHG) inventory compilation and to provide guidance and review on the Scope 3 GHG calculations required to align with both the GHG Protocol (GHGP) and the Science Based Targets initiative's (SBTI) criteria. WSP is a leading professional services consultancy with a multidisciplinary sustainability, energy and climate change (SECC) team that has advised clients across sectors in greenhouse gas management, climate resiliency, sustainable supply chain and numerous related disciplines for two decades.

**Scope 1 GHG emissions from mobile sources**

- Includes emissions from fuel consumed by vehicles used in manufacturing operations (e.g. forklifts, light duty trucks, etc.) as well as Emerson's leased car fleet.

**Scope 2 emissions total (market-based)**

- Market-based emissions include supplier emission factors, net residual factors and renewable energy purchases.
- Location-based emissions include grid electricity emission factor averages multiplied by the total purchased electricity.