

Global Sustainability Scorecard Data

Environmental Indicators

Global Greenhouse Gas Emission	2018	2019	2020	2021	2022
Scope 1 CO2e emissions (Lubrizol's direct) in metric tons x 1,000	373	395	406	372	380
Scope 2 CO2e emissions (Lubrizol's indirect market-based) in metric tons x 1,000	394	384	358	363	361
Scope 1 and 2 CO2e emissions (market based) in metric tons x 1,000	767	779	764	735	741
Goal 20% reduction from 2018 baseline					
Percentage of goal achieved (negative number means increase rather than reduction)				21%	17%
Scope 1 and 2 CO2e emissions (market based) in metric tons per metric tons of Production	0.26	0.28	0.30	0.31	0.33
<i>Percentage reduction (MT CO2e/MT Prod) from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				-16%	-25%
Scope 1 and 2 CO2e emissions (market based) in metric tons per Million \$ of Revenue	113	122	129	114	111
<i>Percentage reduction (MT CO2e/MM \$ of Revenue) from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				-0.9%	1.5%
Global Energy Use	2018	2019	2020	2021	2022
Energy Consumption in megawatt hours x 1,000	2,839	2,908	2,775	2,723	2,718
<i>Percentage reduction MWh from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				4.1%	4.3%
Energy Consumption in megawatt hours per metric ton of Production	0.98	1.06	1.08	1.14	1.2
<i>Percentage reduction (MWh/MT Prod) from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				-16.3%	-22.4%
Energy Consumption in megawatt hours per Million \$ of Revenue	418	454	470	421	408
<i>Percentage reduction (MWh/MM \$ of Revenue) from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				-0.9%	2.4%
Global Waste Generation	2018	2019	2020	2021	2022
Waste Generated in metric tons x 1,000	142	144	131	126	130
<i>Goal 10% reduction from 2018</i>					
Percentage of goal achieved (negative number means increase rather than reduction)				113.3%	80.9%
Waste Generated in metric tons per metric tons of Production	0.049	0.052	0.051	0.052	0.057
<i>Percentage reduction (MT Waste/MT Prod) from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				-7.5%	-17.3%
Percent of waste classified as hazardous (2022 Data) 36.6% - Disposal Method Percent Landfill 1.3%, Treatment 40.8%, Energy Recovery 48.1%, Recycle/					
Percent of waste classified as non-hazardous (2022 Data) 63.4% - Disposal method percent Landfill 86.0%, Treatment 3.5%, Energy Recovery 3.5%, Recycle/Reuse 6.8%					
Waste Generated in metric tons per Million \$ of Revenue	20.82	22.46	22.14	19.43	19.52
<i>Percentage reduction (MT Waste/MM \$ of Revenue) from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				6.7%	6.3%
Waste Disposed to Landfill in metric tons	54,631	65,024	65,414	58,506	71,666
Waste Disposed to Landfill in metric tons per metric ton of Production	0.019	0.024	0.025	0.024	0.032
<i>Percentage reduction (MT Landfill/MT Prod) from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				-29.9%	-65.7%
Global Water Usage	2018	2019	2020	2021	2022
Water Usage in cubic meters x 1,000	6,310	6,714	6,205	7,754	7,466
<i>Percentage reduction m3 from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				-22.9%	-18.3%
Percent Withdrawal by Source (2022 Data) - Surface Water 6%, Groundwater (Well) 8%, Municipal (Public) Supply					
Water usage in cubic meters per metric tons of Production	2.18	2.44	2.41	3.24	3.12
<i>Percentage reduction (m3 water/MT Prod) from 2018</i>					
Percentage reduction (negative number means increase rather than reduction)				-49.0%	-43.5%
Global Air Emissions	2018	2019	2020	2021	2022
NOx in metric tons	328.2	340.6	350.3	323.8	362.0
SOx in metric tons	242.9	196.7	179.9	230.1	172.8
VOC in metric tons	472.7	586.4	571.6	524.5	462.0
Particulate Matter in metric tons	36.4	36.9	35.7	42.0	39.9
CO in metric tons	513.5	630.3	531.4	465.6	449.1
Hazardous Air Pollutants (HAPs) US Only	2018	2019	2020	2021	2022
Total Air Release in metric tons	68	82	70	66	
Distribution Incidents - DOT 5800 (US Only) (This data lags by 2 years)	2018	2019	2020	2021	2022
Number of Incidents	11	13	7	9	
Raw Material Utilization Rate	2018	2019	2020	2021	2022
Percent Utilization (Material Produced in MT/Raw Material Used in MT)	95.6%	95.8%	95.7%	95.5%	95.4%
Includes only data that is available through enterprise SAP system					

Social Indicators

Safety	2018	2019	2020	2021	2022
Lubrizol - Occupational Health & Safety Administration	1.10	0.99	0.66	0.70	0.60
OSHA - Recordable Injury Rate (Recordable)					
Ratio - Lubrizol Recordable Rate/American Chemistry Council Average Recordable Rate	1.49	1.36	1.02	1.01	0.81
OSHA - Lost Time Injury Rate (Lost Time)	0.42	0.44	0.34	0.33	0.27
Ratio - Lubrizol Lost Time Rate/American Chemistry Council Average Lost Time Rate	2.00	2.00	1.31	1.38	1.13
Lubrizol - Process Safety Incident Rate (PSIR)	0.06	0.05	0.06	0.10	0.08
Ratio - Lubrizol PSIR/ACC PSIR	0.63	0.60	0.55	0.94	1.07
Lubrizol - Process Safety Incident Severity Rate (PSISR)	0.15	0.33	0.09	0.75	0.28
Security	2018	2019	2020	2021	2022
Percentage Security Assessments (e.g. SVA) Completed manufacturing and labs	99%	96%	95%	95%	99%
Percentage Security Assessments (e.g. SVA) Completed All Facilities	76%	73%	87%	84%	86%
Diversity and Inclusion					
Global Gender					
Male		70%	70%	70%	70%
Female		30%	30%	30%	30%
US Race/Ethnicity					
American Indian or Alaskan Native		<1%	<1%	<1%	<1%
Asian		5%	5%	5%	6%
Black or African-American		7%	7%	7%	7%
Hispanic/Latino		11%	11%	12%	13%
Native Hawaiian or other Pacific Islander		<1%	<1%	<1%	<1%
White		74%	74%	74%	71%
Two or More Races		1%	1%	1%	1%
U.S. Supplier Diversity					
	2018	2019	2020	2021	2022
Minority business enterprise purchases (MBE)	\$40,685	\$34,356	\$55,704	\$9,155	\$2,252
Women business enterprise purchases (WBE)					
[direct and indirect purchases (Thousands)] (2022 is certified data)	\$23,960	\$21,027	\$38,306	\$18,568	\$4,587
Minority and women business enterprise purchases as a percentage of total purchases (2022 is certified data)	2.75%	2.64%	2.02%	3.14%	1.00%
Volunteerism					
*By 2028, Lubrizol will assist 2,028,000 people in the communities where we work and live by volunteering at least 80,000 hours.		2019	2020	2021	2022
Recorded Volunteer Hours (17,117 Hours toward Global Goal)		4,884	3,940	10,181	10,655

Governance & Ethics Indicators

Ethics	2018	2019	2020	2021	2022
Number of ethics contacts	249	227	208	181	122
Percentage of contacts resulting in disciplinary action	10%	13%	9%	5%	10%
Compliance					
	2018	2019	2020	2021	2022
Number of notices of violations exceeding \$100,000 issued by U.S. Federal or foreign national agencies	0	0	0	0	0
Number of notices of violations exceeding \$100,000 issued by local agencies	0	0	0	0	0
Lubrizol Foundation (U.S. only) monetary grants (000's)	\$3,249,476	\$3,893,632	\$2,596,648		
Lubrizol Foundation assets (000's)	\$11.5 Million	\$10.5 Million	\$10.0 Million		
Number of mid to large size non-profits in Northeast Ohio with Lubrizol employees on the boards	64	68	63		
Economic Indicators					
	2018	2019	2020	2021	2022
Number of full time employees - Global	8,937	8,811	8,819	8,499	8,258
Revenues (Millions)	\$6,800	\$6,400	\$5,900	\$6,461	\$6,667
Capital Expenditures (Millions)	\$488	\$346	\$240	\$227	\$286