



# Analyst Data Summary

For additional information in the year-over-year values, please review the [2021 ESG Disclosures](#).

Environmental				
GHG Emissions	Unit	2021	2020 <sup>1</sup>	2019 <sup>2,7</sup>
Scope 1 GHG Emissions	Millions of metric tons CO <sub>2</sub> e	28.29	28.49	27.20
Scope 1 GHG Emissions – Excluding Emissions Associated with the Production of Power and Steam Not Consumed by the Company	Millions of metric tons CO <sub>2</sub> e	22.55	22.93	21.79
Scope 2 GHG Emissions – Market Based	Millions of metric tons CO <sub>2</sub> e	5.68	6.07 <sup>3</sup>	6.58 <sup>3,4,5</sup>
Scope 2 GHG Emissions – Location Based	Millions of metric tons CO <sub>2</sub> e	3.94	3.95 <sup>3</sup>	4.66 <sup>3,5</sup>
<b>Scope 1 + Scope 2 GHG Emissions Total</b>	<b>Millions of metric tons CO<sub>2</sub>e</b>	<b>33.97</b>	<b>34.56</b>	<b>33.78</b>
Scope 1 + Scope 2 GHG Emissions – Excluding Emissions Associated with the Production of Power and Steam Not Consumed by the Company	Millions of metric tons CO <sub>2</sub> e	28.20	29.00	28.37
Scope 1 + Scope 2 GHG Intensity (Emissions/Revenue)	Metric tons of CO <sub>2</sub> e per USD	0.00062	0.00090	0.00079
Scope 1 + Scope 2 GHG Intensity (Emissions/Production) – Excluding Emissions Associated with the Production of Power and Steam Not Consumed by the Company	Metric tons CO <sub>2</sub> e/metric tons of production	0.53	0.55	0.53
<b>Scope 3 GHG Emissions Total</b>	<b>Millions of metric tons CO<sub>2</sub>e</b>	<b>77.64</b>	<b>69.26</b>	<b>93.94</b>
Category 1: Purchased Goods & Services	Millions of metric tons CO <sub>2</sub> e	39.65	38.17	60.05
Category 2: Capital Goods	Millions of metric tons CO <sub>2</sub> e	1.97	1.76	2.78
Category 3: Fuel- & Energy-Related Activities	Millions of metric tons CO <sub>2</sub> e	5.22	4.75	8.27
Category 4: Upstream Transportation & Distribution <sup>6</sup>	Millions of metric tons CO <sub>2</sub> e	2.01	4.14	4.09
Category 5: Waste Generated in Operations	Millions of metric tons CO <sub>2</sub> e	1.04	1.75	1.56
Category 6: Business Travel	Millions of metric tons CO <sub>2</sub> e	0.0045	0.0051	0.032

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<sup>3</sup> In 2021, our purchased steam energy calculation was updated to use the work potential method. Previous reporting utilized the energy content method. Prior year values have been updated in this report to reflect the work potential method.

<sup>4</sup> A correction was made to an emission factor used for electricity purchases.

<sup>5</sup> A correction was made to the quantity of steam purchased and consumed.

<sup>6</sup> Emissions from Category 9: Downstream Transportation & Distribution have been realigned to Category 4: Upstream Transportation & Distribution to comply with the GHG Protocol.



Environmental				
	Unit	2021	2020 <sup>1</sup>	2019 <sup>7,2</sup>
Category 7: Employee Commuting	Millions of metric tons CO <sub>2</sub> e	0.05	0.05	0.09
Category 8: Upstream Leased Assets	Millions of metric tons CO <sub>2</sub> e	0.01	0.02	0.02
Category 9: Downstream Transportation & Distribution <sup>3</sup>	Millions of metric tons CO <sub>2</sub> e	–	–	–
Category 10: Processing of Sold Products <sup>4</sup>	Millions of metric tons CO <sub>2</sub> e	–	–	–
Category 11: Use of Sold Products	Millions of metric tons CO <sub>2</sub> e	11.13	6.44	3.18
Category 12: End-of-Life Treatment of Sold Products	Millions of metric tons CO <sub>2</sub> e	11.96	7.27	9.03
Category 13: Downstream Leased Assets <sup>5</sup>	Millions of metric tons CO <sub>2</sub> e	0	0	0
Category 14: Franchises <sup>5</sup>	Millions of metric tons CO <sub>2</sub> e	0	0	0
Category 15: Investments	Millions of metric tons CO <sub>2</sub> e	4.59	4.92	4.84
Other Emissions				
Ozone-Depleting Substances	Metric tons as CFC-11e	1.52	2.88 <sup>6</sup>	2.10 <sup>6</sup>
NOx	Metric tons	18,068	18,133 <sup>7</sup>	19,236 <sup>7</sup>
SOx	Metric tons	2,048	2,242	2,774
VOC	Metric tons	8,004	7,495	7,635
Chemicals to Air and Water	Metric tons	15,256	13,910	13,959
Priority Compounds to Air and Water	Metric tons	225	209	294
Energy				
Energy Intensity (Scope 1 and 2)	GJ/Metric ton of production	10.85 (new method) <sup>8</sup> 12.06 (old method) <sup>9</sup>	11.86	12.31

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<sup>3</sup> Emissions from Category 9: Downstream Transportation & Distribution have been realigned to Category 4: Upstream Transportation & Distribution to comply with the GHG Protocol.

<sup>4</sup> Dow is currently developing a methodology to report this category in the future.

<sup>5</sup> Dow does not currently have any downstream leased assets or franchises; therefore, these categories are not relevant for Scope 3 accounting.

<sup>6</sup> Historical numbers updated to reflect more complete data.

<sup>7</sup> An update to the calculation methodology at one of Dow's largest silicon sites resulted in an increase in historical NOx emissions vs. the reported value in the 2020 ESG report.

<sup>8</sup> Value for the total energy consumption (numerator) used new methodology as described in 302-1 Energy consumption within the organization.

<sup>9</sup> Value for the total energy consumption (numerator) used the historical methodology as described in 302-1 Energy consumption within the organization.



Environmental					
	Unit	2021		2020 <sup>1</sup>	2019 <sup>2</sup>
<b>Total Energy Consumption</b>	<b>Million Gigajoules (GJ)</b>	<b>574.78</b> <small>(new method)</small>	<b>638.68</b> <small>(old method)</small>	<b>630.23</b>	<b>629.07</b>
Purchased Fuels	Million GJ	317.07 <sup>4</sup>	392.71	394.42	372.50
Off-gas from Feedstock	Million GJ	262.67	250.93	241.35	260.77
Purchased Electricity	Million GJ	38.51	38.51	37.49	38.38
Purchased Steam <sup>3</sup>	Million GJ	5.14	5.14	5.23	5.96
Power and Steam Sold <sup>3</sup>	Million GJ	-48.62	-48.62	-48.25	-48.55 <sup>5</sup>
<b>Purchased Electricity from Renewable Sources – Total</b>	<b>Megawatts (MW)</b>	<b>901</b>		<b>844</b>	<b>543</b>
Wind	MW	535		375	375
Hydro	MW	168		147	147
Biomass	MW	2		0	17
Landfill Gas	MW	3		3	3
Solar	MW	193		319	0.5
<b>Purchased Renewable Power – Consumption – Total</b>	<b>Million GJ</b>	<b>10.67</b>		<b>9.46</b>	<b>8.76</b>
Wind	Million GJ	4.48		4.40	4.36
Hydro	Million GJ	5.05		4.69	4.22
Biomass	Million GJ	0.07		0	0.13
Landfill Gas	Million GJ	0.05		0.05	0.05
Solar	Million GJ	1.02		0.32	0.002
<b>Purchased Steam from Renewable Sources – Consumption – Biomass Total<sup>4</sup></b>	<b>Million GJ</b>	<b>0.52</b>		<b>0.51</b>	<b>0.45</b>

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<sup>3</sup> In 2021, our purchased steam energy calculation was updated to use the work potential method. Previous reporting utilized the energy content method. Prior year values have been updated in this report to reflect the work potential method.

<sup>4</sup> 2021 data excludes purchased fuels resold and used as feedstock.

<sup>5</sup> Updated with more refined information.



Environmental				
	Unit	2021	2020 <sup>1</sup>	2019 <sup>2</sup>
<b>Total Water Withdrawal – All Sites</b>	<b>Megaliters</b>	<b>2,951,786</b>	<b>3,087,446</b>	<b>3,077,857</b>
Surface Water	Megaliters	1,699,905	1,831,697	1,928,351
Groundwater	Megaliters	34,440	35,672	36,231
Seawater	Megaliters	1,092,075	1,101,371	997,485
Produced Water	Megaliters	174	174	173
Third-Party Water <sup>3</sup>	Megaliters	125,192	118,532	115,617
<b>Freshwater Withdrawals – All Sites Total</b>	<b>Megaliters</b>	<b>1,834,178</b>	<b>1,962,804</b>	<b>2,080,198</b>
<b>Other Water Withdrawals – All Sites Total</b>	<b>Megaliters</b>	<b>1,117,608</b>	<b>1,124,643</b>	<b>997,658</b>
<b>Total Water Withdrawal – Key Water-Stressed Sites</b>	<b>Megaliters</b>	<b>1,260,831</b>	<b>1,333,885</b>	<b>1,268,031</b>
Surface Water	Megaliters	119,698	187,160	247,130
Groundwater	Megaliters	614	358	515
Seawater	Megaliters	1,086,112	1,095,556	991,862
Produced Water	Megaliters	0	0	0
<b>Total Third-Party Water</b>	<b>Megaliters</b>	<b>54,137</b>	<b>50,811</b>	<b>28,524</b>
Third-Party Groundwater	Megaliters	0	0	
Third-Party Surface Water	Megaliters	28,778	27,713	
Third-Party – Produced Water Fresh Water	Megaliters	0	0	
Third-Party – Seawater Fresh Water	Megaliters	0	0	
Third-Party – Seawater Non-Fresh Water	Megaliters	25,359	23,098	
<b>Freshwater Withdrawals – Key Water-Stressed Sites – Total</b>	<b>Megaliters</b>	<b>149,360</b>	<b>215,231</b>	<b>276,169</b>

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<sup>3</sup> Purchased steam and condensate are not included as most facilities are equipped with condensate return.

<sup>4</sup> Data collected in 2019 contains all purchased water including from non-freshwater sources. Methodology changes that allowed for visibility of source of third-party water started in 2020.



Environmental				
	Unit	2021	2020 <sup>1</sup>	2019 <sup>2</sup>
<b>Other Water Withdrawals – Key Water-Stressed Sites – Total</b>	<b>Megaliters</b>	<b>1,111,471</b>	<b>1,118,654</b>	<b>991,862</b>
Freshwater Intake Intensity, Key Water-Stressed Sites	lb. of water per lb. of production	4.5	6.1	6.7
Water Consumption – All Areas	Megaliters	442,768	463,117	461,678
Water Consumption – Key Water-Stressed Sites	Megaliters	189,125	200,083	190,205
<b>Total Water Discharge – All Sites</b>	<b>Megaliters</b>	<b>132,510</b>	<b>125,601</b>	<b>129,443</b>
Surface Water	Megaliters	59,742	59,121	55,386
Groundwater	Megaliters	0	0	0
Seawater	Megaliters	57,569	53,284	60,688
Produced Water	Megaliters	0	0	0
Third-Party Water	Megaliters	15,199	13,196	13,170
<b>Total Water Discharge – Key Water-Stressed Sites</b>	<b>Megaliters</b>	<b>46,936</b>	<b>43,229</b>	<b>47,275</b>
Surface Water	Megaliters	965	988	942
Groundwater	Megaliters	0	0	0
Seawater	Megaliters	44,511	40,608	44,367
Produced Water	Megaliters	0	0	0
Third-Party Water	Megaliters	1,460	1,633	1,966
<b>Total Waste</b>	<b>Millions of Metric Tons</b>	<b>1.41</b>	<b>1.38</b>	<b>1.43</b>
Hazardous Waste	Millions of Metric Tons	0.64	0.67	0.72

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<b>Social</b>				
<b>Employee General</b>	<b>Units</b>	<b>2021</b>	<b>2020</b>	<b>2019<sup>1</sup></b>
Employees	Number	35,694	35,758	36,527
Overall Employee Satisfaction	Percent favorable	71	74	69
Employee Resource Group Participation	Percent	52.4	48.9	42.1
People Leader Participation in Employee Resource Groups	Percent	97	98	88
Employee Resource Groups	Number	10	10	10
Average Training Hours per Employee	Number	40.7	62.0	63.5
Percentage of Employees Eligible to Receive Performance Reviews	Percent	96.3	95.3	92.8
<b>Board Diversity</b>				
% Female	Percent	33 <sup>1</sup>	27 <sup>2</sup>	27 <sup>3</sup>
% U.S. Ethnic Minority	Percent	33 <sup>1</sup>	27 <sup>2</sup>	27 <sup>3</sup>
<b>Employee Diversity</b>				
% Female	Percent	28.9	28.1	27.8
New Employee Hires, % Female	Percent	35	34	33
% U.S. Ethnic Minority Representation	Percent	26.0	25.1	24.3
New Employee Hires, % U.S. Ethnic Minority	Percent	31	42	39
Global Female Pay to Male Base Pay <sup>4,5</sup>	Percent	0.97:100	0.98:100	–
U.S. Minority Pay to Non-Minority Base Pay <sup>5</sup>	Percent	0.97:100	0.98:100	–
<b>Compensation</b>				
Annual Total Compensation (CEO pay/median employee compensation)	Ratio	260	141	145
Base Salary Adjustments for Median Employee, Year over Year	Percent	3	3	–
CEO Direct Compensation Change, Year over Year	Percent	5.9	13.6	–
<b>Community</b>				
Total Charitable Cash and In-Kind Donations	\$(in MM)	32.4	34	34

<sup>1</sup> As of June 1, 2022.<sup>2</sup> As of June 1, 2021.<sup>3</sup> As of June 1, 2020.<sup>4</sup> Gender is evaluated globally excluding Germany.<sup>5</sup> In 2019, historical pay equity studies compared like-for-like jobs (equal pay for equal work). In 2020 we transitioned to assessing the pay gap, comparing pay regardless of the work performed.



<b>Social</b>			
<b>Health &amp; Safety</b>	<b>2021</b>	<b>2020</b>	<b>2019<sup>1</sup></b>
Number of Global Dow Health Clinics	58	58	60
Large Manufacturing Sites Participating in External Safety Audits (total of 9 sites)	7	–	–
Fatalities – Employee	0	0	0
Fatalities – Contractor	0	1	1
Fatalities – Employees and Contractors	0	1	1
High-Consequences Work-Related Injuries Incident Count (excl. Fatalities) – Employee	1	0	0
High-Consequences Work-Related Injuries Incident Count (excl. Fatalities) – Contractor	0	1	1
High-Consequences Work-Related Injuries Incident Count (excl. Fatalities) – Employee and Contractor	1	1	1
High-Consequences Work-Related Injuries Incident Rate (excl. Fatalities) – Employee	0.003	0	0
High-Consequences Work-Related Injuries Incident Rate (excl. Fatalities) – Contractor	0	0.003	0.003
High-Consequences Work-Related Injuries Incident Rate (excl. Fatalities) – Employee and Contractor	0.001	0.001	0.001
Recordable Work-Related Injuries Incident Count – Employee	49	45	68
Recordable Work-Related Injuries Incident Count – Contractor	50	41	59
Recordable Work-Related Injuries Incident Count – Combined Employees and Contractors	99	86	127
Recordable Work-Related Injuries Incident Rate – Employee	0.12	0.11	0.16
Recordable Work-Related Injuries Incident Rate – Contractor	0.16	0.14	0.16
Recordable Work-Related Injuries Incident Rate – Combined Employees and Contractors	0.14	0.12	0.16
Total Recordables (Illness) – Employees	7	1	22 <sup>1</sup>
Total Recordables (Illness) – Contractors	0	1	0 <sup>1</sup>
Total Recordables (Illness) – Employees and Contractors	7	2	22 <sup>1</sup>
Number of Significant Process Safety Containment Events	26	29	25

<sup>1</sup> Total recordables updated to be in line with Dow and OSHA criteria for illness/occupational hearing loss determination. Additionally, hearing loss events have been reclassified from injury classifications to ill health to align with GRI standard.