

ANNEX VALMONT® SUSTAINABILITY METRICS



Valmont® Industries is committed to conserving resources and improving the lives of our shareholders, employees, communities and customers. That is why we are continuously working to increase the transparency and quality of our data. This annex provides a snap shot of Valmont global energy and resource usage for the 2018-2020 period. This data includes both Enterprise Wide as well as Valmont business units, which are referred to as segments. While Valmont has gained assurance on the basis for its 2018 carbon foot print the raw data presented in this annex is unaudited. The Valmont internal audit team has conducted an assurance review of the data in this report and we will seek third party assurance every five years.

Valmont uses the data that we gather to develop goals and programs to increase our energy efficiency and reduce the carbon intensity of our operations. Our approach to improving sustainability performance is guided by our Environmental & Sustainability Playbook which serves as our Environmental Policy. The information in our Sustainability Report serves as the basis of our reporting to various leading reporting frameworks including CDP, Dow Jones, and GRI.



Enterprise Wide Energy Usage

Since 2018, Valmont® has capital investments of \$6M USD focusing on energy conservation, alternative energy and electric vehicles. These projects and best management practices have conserved:

18.4M kWh IN ELECTRICITY | 58.94M LITERS IN WATER | 117.97K LITERS IN FUEL

Data Type	Non Normalized Usage 2018	Normalized Usage 2018
Electricity	187.1M kWh	67,863.6 kWh/\$M Revenue
Water	705.94M liters/ 106.5M gals	256,053.28 Liters/\$M Revenue
Fuel Oil No 2 Diesel	4.58M liters/ 1.21M gals	1,661.23 Liters/\$M Revenue
Lig Petroleum Gas	5.47M liters/ 1.4M gals	1984.04 Liters/\$M Revenue
Motor Gasoline	365.98K liters/ 97K gals	132.75 Liters/\$M Revenue
Fuel Oil No 6	1.3K liters/ 343 gals	0.47 Liters/\$M Revenue
Natural Gas	1.98M mmBtu	718.17 mmBtu/\$M Revenue
Wood 13% moisture	6K mmBtu	2.18 mmBtu/\$M Revenue
Non Hazardous Waste to Landfill	15.5K metric tons	5.62 MT/\$M Revenue
Hazardous Waste To Landfill	14.2K metric tons	5.15 MT/\$M Revenue

Data Type	Non Normalized Usage 2019	Normalized Usage 2019
Electricity	172.4M kWh	62,305.75 kWh/\$M Revenue
Water	712.73M liters/ 188.28M gals	257,581.6 Liters/\$M Revenue
Fuel Oil No 2 Diesel	4.49M liters/ 1.2M gals	1,621.08 Liters/\$M Revenue
Lig Petroleum Gas	5.2M liters/ 1.4M gals	1,879.29 Liters/\$M Revenue
Motor Gasoline	302.7K liters/ 80K gals	106.18 Liters/\$M Revenue
Fuel Oil No 6	0	0
Natural Gas	2.01M mmBtu	726.42mmBtu/\$M Revenue
Wood 13% moisture	6K mmBtu	2.17mmBtu/\$M Revenue
Non Hazardous Waste to Landfill	15.7K metric tons	5.67 MT/\$M Revenue
Hazardous Waste to Landfill	14.7K metric tons	5.31 MT/\$M Revenue

Data Type	Non Normalized Usage 2020	Normalized Usage 2020
Electricity	168.7M kWh	58,286.95 kWh/\$M Revenue
Water	647M liters/ 170.92M gals	223,488.77 Liters/\$M Revenue
Fuel Oil No 2 Diesel	4.8M liters/ 1.27M gals	1658.03 Liters/\$M Revenue
Lig Petroleum Gas	4.4M liters/ 1.16M gals	1519.86 Liters/\$M Revenue
Motor Gasoline	248.7K liters/ 65.7K gals	85.91 Liters/\$M Revenue
Fuel Oil No 6	0	0
Natural Gas	1.92M mmBtu	663.25 mmBtu/\$M Revenue
Wood 13% moisture	6K mmBtu	2.07mmBtu/\$M Revenue
Non Hazardous Waste to Landfill	16.4K metric tons	5.66 MT/\$M Revenue
Hazardous Waste to Landfill	17.5K metric tons	6.04 MT/\$M Revenue

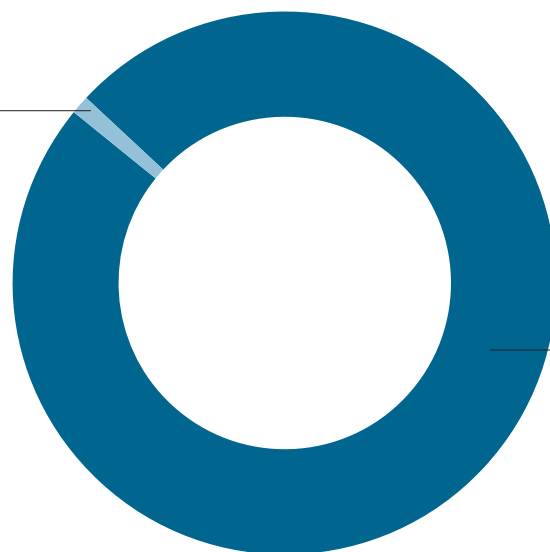
Valmont® consumes ~2K MWh of renewable energy with ~167K MWh coming from the grid. As of 2020, the Valmont sources of renewable energy include an onsite solar installation at our Siedlce, Poland facility and electricity purchased from wind turbines in support of our Maarheeze, Netherlands site.

In 2021, Valmont intends to put its 1MW solar field constructed at the Valley campus online.

Electricity 2020

RENEWABLE

1%



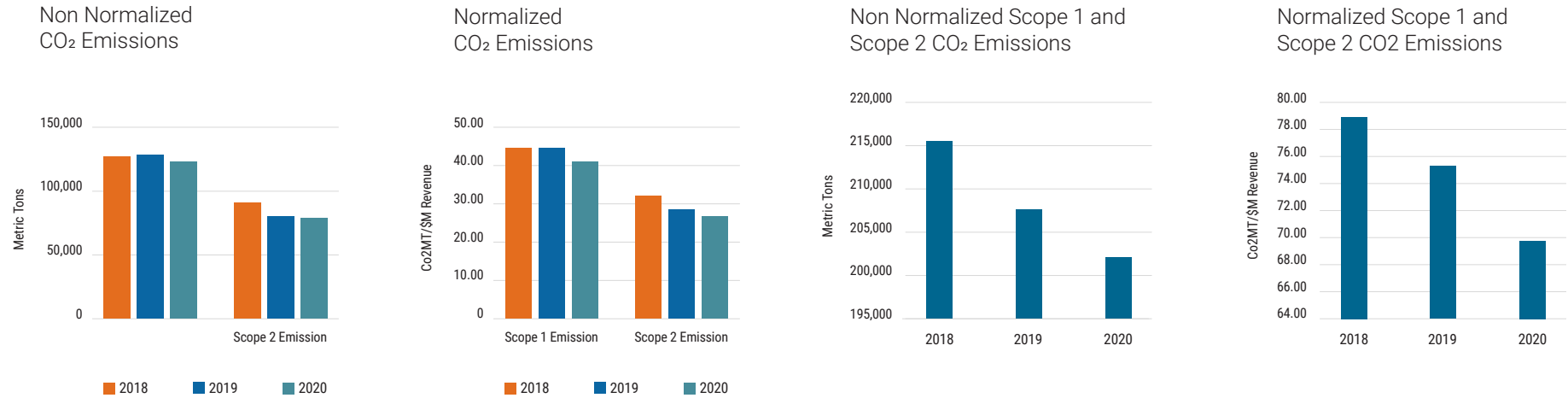
ELECTRICITY FROM GRID

99%



Enterprise Wide Scope 1 and Scope 2 Emissions

Valmont® does not include other GHG emissions, such as NO₂ and CH₄, as those emissions equate to less than 1% of Valmont GHG emissions, we consider these immaterial. In an effort to reduce our GHG emissions, Valmont is primarily focusing on our Carbon Intensity Goal.



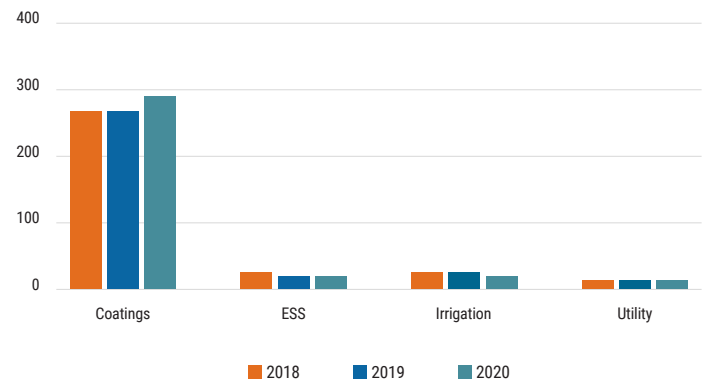
Non Normalized	2018 Year	2019 Year	2020 Year
Scope 1 Emission	127,187	127,622	122,912.00
Scope 2 Emission	90,367	80,673	79,015.00
TOTAL	217,554	208,295	201,927.00

Normalized	2018 Year	2019 Year	2020 Year
Scope 1 Emission	46.13	46.12	42.46
Scope 2 Emission	32.78	29.16	27.29
TOTAL	78.91	75.28	69.75

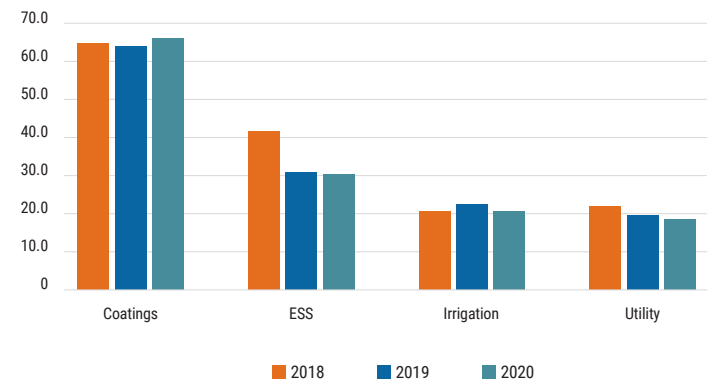
Segment Breakdown Scope 1 and Scope 2 Emissions

*Valmont business units are referred to as segments

Normalized Scope 1 Emissions by Segment

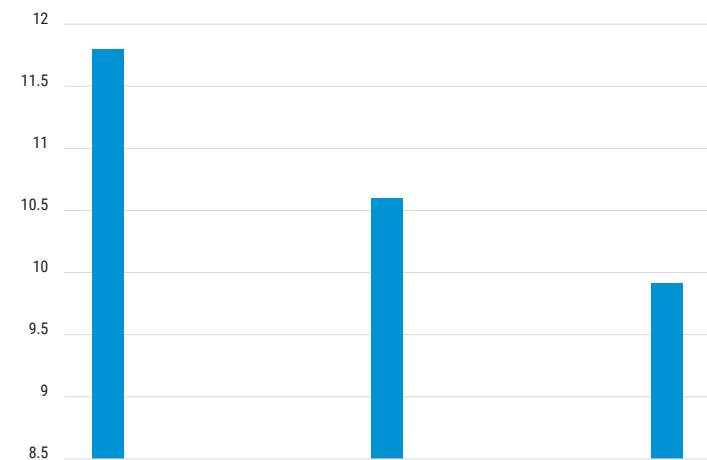


Normalized Scope 2 Emissions by Segment



The electricity usage for the Valmont® flagship facility in Valley, NE is presented on the right and normalized against hours worked.

Valley Electricity Normalized by Hours Worked



Segment Breakdown

COATINGS			
Energy Type	Usage 2018	Usage 2019	Usage 2020
Electricity from Grid	36.2M kWh	38.5M kWh	35.5M kWh
Electricity from Renewable	0 kWh	0 kWh	0 kWh
Water	310.4M liters/ 82M gal	309.7M liters/ 81.8M gals	265M liters/ 70M gal
Fuel Oil No 2 diesel	2.4 M liters/626K Gal	2.4 M liters/ 625k gal	2.27M liters/ 599.7K gal
Liq Petroleum Gas	1.16M Liters/ 306.4K	973.1K liters/ 257.1K gals	768.6K liters/ 203K gals
Motor Gasoline	56.5k liters/ 14.9k gal	59.6K liters/ 15.8K gals	40.2k liters/ 10.6K gals
Natural Gas	1.16M mmBtu	1.24M mmBtu	1.2M mmBtu
Wood 13% moisture	0 mmBtu	0 mmBtu	0 mmBtu
Non Hazardous Waste	5.43k metric tons	5.4k metric tons	5.83K metric tons
Hazardous Waste	11.2k metric tons	11.4k metric tons	14.7K metric tons

ESS			
Energy Type	Usage 2018	Usage 2019	Usage 2020
Electricity from Grid	58.8 M kWh	47.0M kWh	43.41M kWh
Electricity from Renewable	0 kWh	0 kWh	1.99M kWh
Water	156.9M liters/ 41.45M gals	156.1M liters/ 41.24M gals	118.2M liters/ 31.23M gals
Fuel Oil No 2 diesel	519.3K liters/ 137.2K gal	485.7K liters/ 128.3K gals	491.9K liters/ 129.96K liters
Liq Petroleum Gas	2.7M liters/ 713.3k gal	2.4M liters/ 626.5k gal	2.04M liters/ 538.9K gal
Motor Gasoline	118.7K liters/ 31.36K gals	55.8K liters/ 14.7K gal	31.2k liters/ 8.24K gal
Natural Gas	255.6k mmBtu	201.5k mmBtu	178.9K mmBtu
Wood 13% moisture	6k mmBtu-- only Parikkala	6k mmBtu-- only Parikkala	6k mmBtu-- only Parikkala
Non Hazardous Waste	5755.49 metric tons	6283.45 metric tons	6.4K metric tons
Hazardous Waste	2.3k metric tons	2k metric tons	1.7K metric tons

Irrigation			
Energy Type	Usage 2018	Usage 2019	Usage 2020
Electricity from Grid	11.2M kWh	10.82M kWh	11.1M kWh
Electricity from Renewable	0 kWh	0 kWh	0 kWh
Water	150.64M liters/ 39.8M gal	123.9M liters/ 32.7M gal	154.4M liters/ 40.8M gal
Fuel Oil No 2 diesel	478.8K liters/ 126.5K gal	570.9k liters/ 150.8k gal	866.4k liters/ 228.9K gal
Liq Petroleum Gas	422.5k liters/ 111.6k gal/	403.3K liters/ 106.5K gal	560.06k liters/ 147.95K gal
Motor Gasoline	118.7k liters/ 31.4k gal	129.8K liters/ 34.3K gal	127.8k liters/33.8K gal
Natural Gas	157.8k mmBtu	158.4k mmBtu	141.5k MMBtu
Wood 13% moisture	0 mmBtu	0 mmBtu	0 mmBtu
Non Hazardous Waste	1285.27 metric tons	1217.64 metric tons	1518.62 metric tons
Hazardous Waste	379.03 metric tons	613.81 metric tons	841.34 metric tons

Segment Breakdown (CONT.)

Utility			
Energy Type	Usage 2018	Usage 2019	Usage 2020
Electricity from Grid	47.5M kWh	44.3M kWh	46.1M kWh
Electricity from Renewable	0 kWh	0 kWh	0 kWh
Water	87.55M liters/ 23.13M gal	122.7M liters/ 32.41M gal	109.41M liters/ 28.90M gal
Fuel Oil No 2 diesel	991.8k liters/ 262k gal	1.06M liters/ 280K gal	1.2M liters/ 317K gal
Liq Petroleum Gas	1.2M liters/ 317k gal	1.5M liters/ 388.3k gal	1.04M liters/ 274.7K gal
Motor Gasoline	66.5k liters/ 17.6k gal	57.4K liters/ 15.2K gal	49.5k liters/ 13.1K gal
Natural Gas	129.7k mmBtu	130.9k mmBtu	122.4k mmBtu
Wood 13% moisture	0 mmBtu	0 mmBtu	0 mmBtu
Non Hazardous Waste	3043.42 metric tons	2744.14 metric tons	2669.42 metric tons
Hazardous Waste	252.96 metric tons	243.18 metric tons	219.27 metric tons

Valley < NE Facility>			
Energy Type	Usage 2018	Usage 2019	Usage 2020
Electricity	33.3M kWh	31.9M kWh	30.7M kWh
Natural Gas	273.8k mmBtu	273.6k mmBtu	269.8k mmBtu

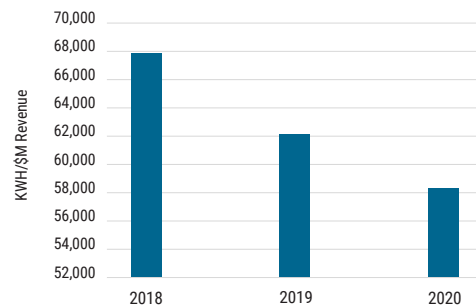
*waste and fuel numbers included in divisions



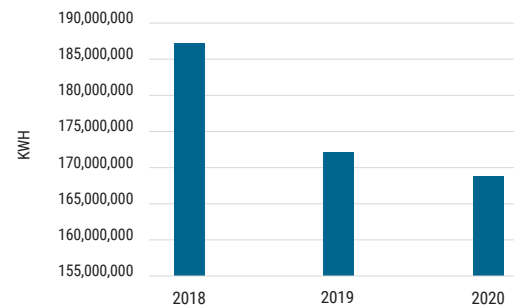
Valmont® Global Electricity Goal Progress

Valmont® has adopted a goal of reducing our normalized electrical usage by 8 percent from the 2018 baseline year to the close of 2021. Progress from 2018 to the close of 2020, Valmont has reduced normalized electrical usage by 14%, 6% over the goal. This has saved 9.44 million kWh/\$million Revenue which yielded a cost savings of \$3.12 million USD.

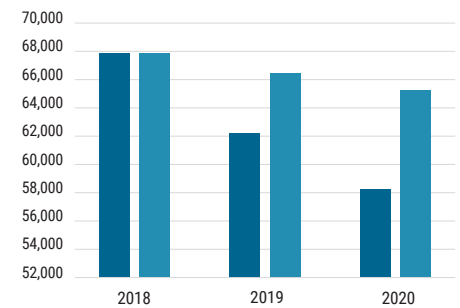
Normalized Global Electricity



Non-Normalized Global Electricity



Global 8% Electricity Goal Progress



Project 90/90

One of the leading contributors to these savings is the LED lighting project launched in 2018. Currently 36% of Valmont® sites have achieved this standard. We have installed over 10K LED lighting fixtures with an estimated savings of \$1.93 million USD in electrical costs.

0% LED Lighting Installed	1-49% LED Lighting Installed	50-89% LED Lighting Installed	90-99% LED Lighting Installed	100% LED Lighting Installed
Barstow, CA ★	Barrie, ON	Columbus, NE	Bartow, FL ★	Bellville, TX
Delta, BC	El Dorado, KS	Franklin Park, IL	Brantford, ON	Claremore, OK
Mendota Height, MN	Folsom, NJ	Midland, PA	Brenham, TX	Elkhart, IN
Petersburg, VA	Houston, TX	Monterrey, MX	Claxton, GA	Estill, NC
Salem, OR	Long Beach, CA ★	Newberry, SC	Farmington, MN	General Escobedo
Walpar ★	McCook, NE	Oklahoma Galvanizing	Mississauga, ON	Fort Meade, FL
Plymouth, IN	Steele, AL	Tualatin, OR	Valley Tubing	Jasper, TN
Haiyang SD (Irrigation)	Valley Irrigation	Valley Coatings	Cabuyao Philippines	London, UT
Halol GJ	Valley Structures 514, 534, 535	Acacia Ridge QLD (Ingal EPS)	Huron	Los Angeles, CA
Warsaw	Valley Structures 518, 528	Campbellfield VIC	Indapur Taluka MH (Poles)	Miami, FL
Valmont SM A/S	Tampa, FL	Carole Park QLD (IG)	Kangasniemi-KNG1	Salina, KS
Maddington	West Columbia	Cikarang Indonesia	Pluak Daen Dist Thailand	Sioux City, IA
Prestons	Auckland (IGC)	Girraween NSW		Tuscon, AR
	Charmeil Auvergne	Hexham NSW		Tulsa, OK
	Christchurch (IGC)	Kiiu		Tuscaloosa, AL
	Heshan GD	Maarheeze NB		Waverly, NE
	Jebel Ali Dubai (FZE)	Nilai (IGCP)		West Point, NE
	Nigel GP	Parikkala		Dandenong
	Prospect Vale TAS	Pinkenba QLD (IG)		Minto NSW (ICP)
	Rive de Gier Rhone-Alps	Thornaby North Yorkshire		Palmerston North
	Shah Alam SGR (Webforge)	Trece Martires City CV (IGCP)		Siedlce Mazovian
	Songjiang SHG (Factory)	Wuxi JX China		
	Subang Jaya Malaysia			
	Uberaba MG			

PLANS FOR IMPLEMENTATION:

Plans set to be 100%: ★

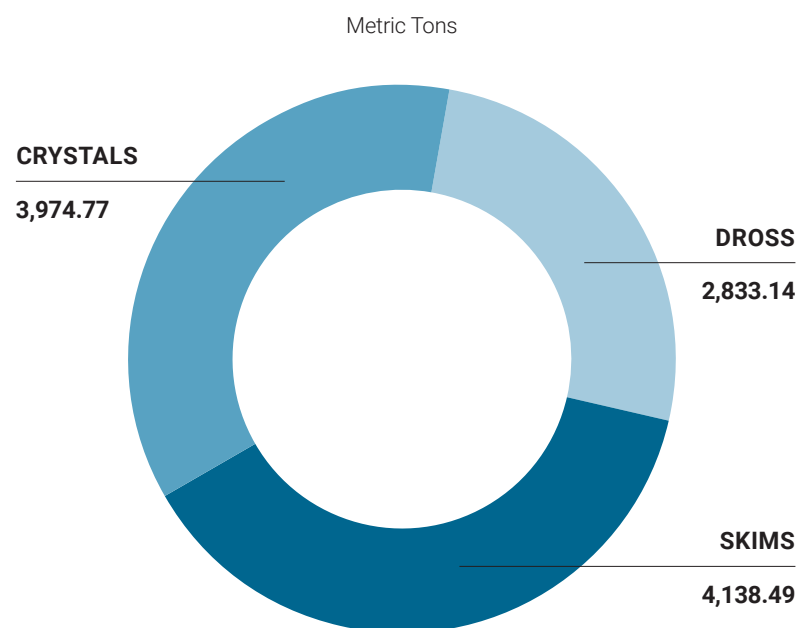
Bolded = missing answer

Recycling

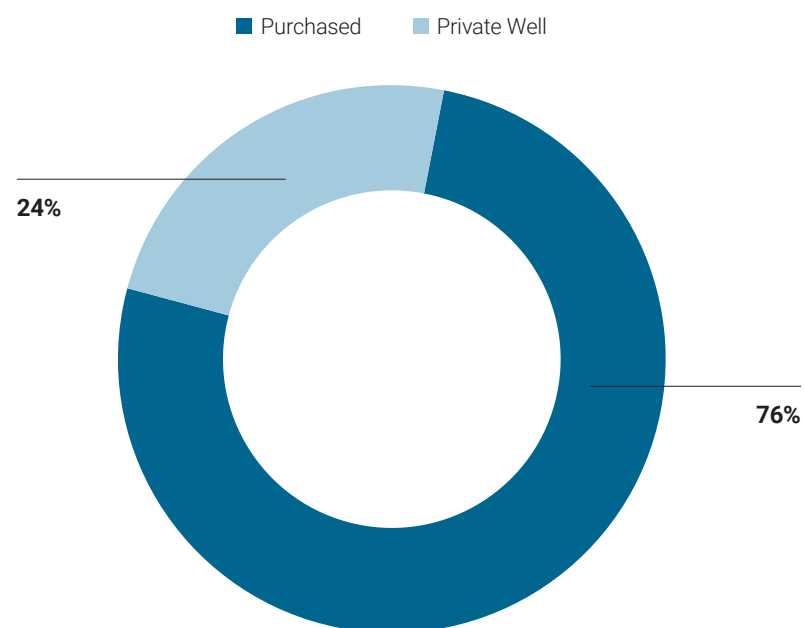
Production Zinc Compounds

The galvanizing process generates recyclable products such as zinc oxide skims that are periodically removed from the surface of the galvanizing bath, zinc iron alloy dross removed from the bottom of the galvanizing bath, and ferrous sulfate crystals precipitated from sulfuric pickle solution.

Global Industrial Zinc Compound Recycling 2020



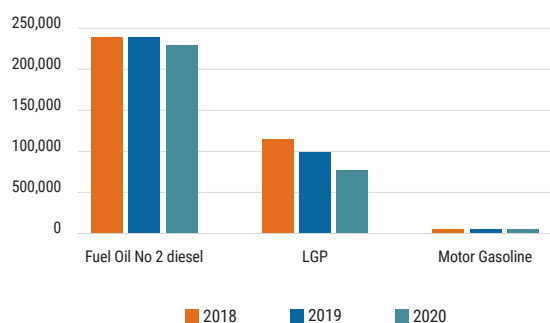
Water Withdrawal 2020



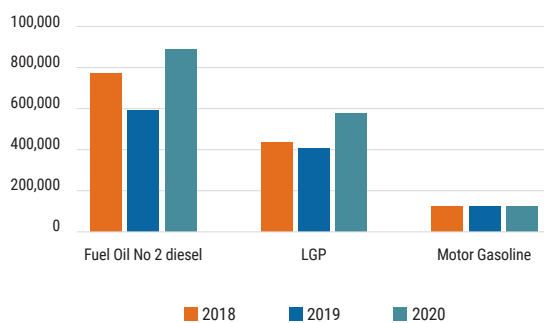
Combustion Fuel

The Valmont® Combustion Fuel Goal- Mobile Source Carbon Emissions will reduce Scope 1 emissions generated by our company's fleet and improve our fleet fuel economy. Our goal is to lower emissions by 19% from base year, 2018, to 6.28 CO₂MT/\$M Revenue by the close of 2025. This goal will be achieved by introducing new fleet standards, expanding our EV charging infrastructure and moving towards alternative fuels.

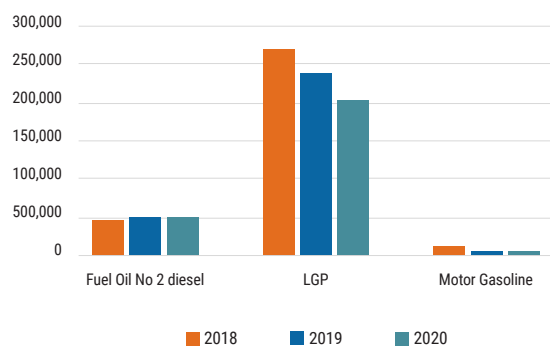
Coatings Fuel Consumption



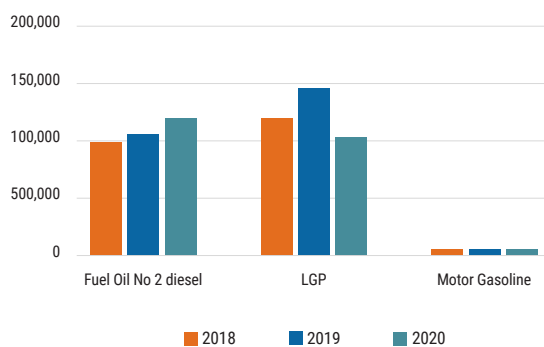
Irrigation Fuel Consumption



ESS Fuel Consumption



Utilities Fuel Consumption



Mobile Source Combustion Fuel – Enterprise Wide

