

SASB DISCLOSURE TOPIC	SASB METRIC	SASB CODE REFERENCE	MSA DATA																					
Energy Management	<ul style="list-style-type: none"> (1) Total energy consumed (2) Percentage grid electricity (3) Percentage renewable 	RT-IG-130a.1	<p>(1) This data is disclosed in megawatt hours in our 2019 CSR Report on page 29. The data has been converted into Gigajoules below:</p> <table border="1"> <thead> <tr> <th colspan="3">Total Energy (Regional)</th> </tr> <tr> <th>Gigajoules</th> <th>2018</th> <th>2019</th> </tr> </thead> <tbody> <tr> <td>N. America</td> <td>159,739</td> <td>158,072</td> </tr> <tr> <td>S. America</td> <td>6,512</td> <td>6,827</td> </tr> <tr> <td>Europe</td> <td>33,797</td> <td>33,097</td> </tr> <tr> <td>Asia</td> <td>9,836</td> <td>9,953</td> </tr> <tr> <td>Total Energy</td> <td>209,884</td> <td>207,949</td> </tr> </tbody> </table> <p>(2) MSA is evaluating its percentage grid electricity data for possible future disclosure.</p> <p>(3) Percentage renewable is disclosed in our 2019 CSR Report on page 27.</p>	Total Energy (Regional)			Gigajoules	2018	2019	N. America	159,739	158,072	S. America	6,512	6,827	Europe	33,797	33,097	Asia	9,836	9,953	Total Energy	209,884	207,949
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Employee Health & Safety	<ul style="list-style-type: none"> (1) Total recordable incident rate (TRIR) (2) Fatality rate (3) Near miss frequency rate (NMFR) 	RT-IG-320a.1	<p>(1) Total Recordable Incident Rate is disclosed in our 2019 CSR Report on page 12.</p> <p>(2) 2019 Fatality Rate: 0</p> <p>(3) MSA is evaluating its near miss frequency rate for possible future disclosure.</p>																					

Sustainability Accounting Standards Board Index



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Fuel Economy & Emissions in Use Phase	<ul style="list-style-type: none"> • Sales-weighted fleet fuel efficiency for medium- and heavy-duty vehicles. • Sales-weighted fuel efficiency for non-road equipment. • Sales-weighted fuel efficiency for stationary generators. • Sales-weighted emissions of: (1) nitrogen oxides (NOx) and (2) particulate matter (PM) for: (a) marine diesel engines, (b) locomotive diesel engines, (c) on-road medium- and heavy-duty engines, and (d) other non-road diesel engines. 	<p>RT-IG-320a.1</p> <p>RT-IG-410a.2</p> <p>RT-IG-410a.3</p> <p>RT-IG-410a.4</p>	N/A. This SASB metric relates to products sold. MSA does not sell products with these characteristics.
Materials Sourcing	Description of the management of risks associated with the use of critical materials.	RT-IG-440a.1	Description of the management of risks is disclosed in our Form SD found here .
Remanufacturing Design & Services	Revenue from remanufactured products and remanufacturing services	RT-IG-440b.1	MSA is evaluating and reviewing this topic as part of its ongoing CSR efforts.

Task Force on **Climate-Related Financial Disclosures**



PILLAR	DISCLOSURE
Governance	<p>MSA maintains a cross-functional Corporate Social Responsibility ("CSR") steering team, operating under the direction of the Chief Legal Officer. The team periodically reports its activities to the Executive Leadership Team and the Board of Directors through written reports and in-person briefings. The CSR Steering Team coordinates MSA's CSR strategy and deploys a number of operating teams, including a Global Environmental Sustainability Steering Team, which focuses on climate-related risk and opportunities, among other matters.</p>
Strategy	<p>MSA endeavors to create climate-resilient, sustainable operations, minimizing overall environmental risk and impact while maximizing operational excellence. The MSA climate risk strategy will, among other things, undertake to identify and address possible disruptions to systems and assets caused by climate change as well as identify sustainability improvements in our products and operations.</p>
Risk Management	<p>Through the continued development of a Climate Risk Management System, MSA will evaluate climate risk at an operations level through regional and facility specific assessments conducted on a routine basis. In addition, MSA has incorporated current and emerging regulation, technology, legal, market, reputation, acute and chronic physical risk types into the climate risk management system assessment program extending to the Organizational level. Future strategy will be developed through routine assessment, and the identification and evaluation of risk and opportunity identified as a part of the assessment program.</p>
Metrics and Targets	<p>MSA currently discloses annual global Scope 1 and 2 GHG emissions, electricity, natural gas and water usage, and hazardous, non-hazardous, and recycled waste disposal. In the future MSA intends to develop a Scope 3 inventory and disclose the data associated with the identified Scope 3 categories.</p>