



Steel

Driving forces

Steel's infinite recyclability provides opportunities for lowering production costs by reducing raw material inputs, energy use and the overall emissions footprint. Some grades of high-strength steel also offer opportunities for reducing energy consumption in the use phase by reducing the total amount of metal used (lightweighting). Primary production, however, continues to have significant environmental impacts as steel companies operate in a highly competitive environment subject to periodic overcapacity. Blast furnace production of steel leads to significant direct greenhouse gas emissions and other environmental impacts, using technology that is not expected to change significantly in the foreseeable future. Community concerns may also arise due to the presence of large production facilities that create excessive noise and air pollution and negatively impact land and property rights. Meanwhile, employee and contractor health and safety are critical indicators of operational excellence.

Highlighted criteria & Dimension weight

- Economic Dimension 34%
 - Codes of Business Conduct
 - Corporate Governance
 - Supply Chain Management
- Environmental Dimension 33%
 - Operational Eco-Efficiency
 - Climate Strategy
 - Water Related Risks
- Social Dimension 33%
 - Occupational Health and Safety
 - Social Impacts on Communities
 - Talent Attraction & Retention

Sustainability leaders 2019

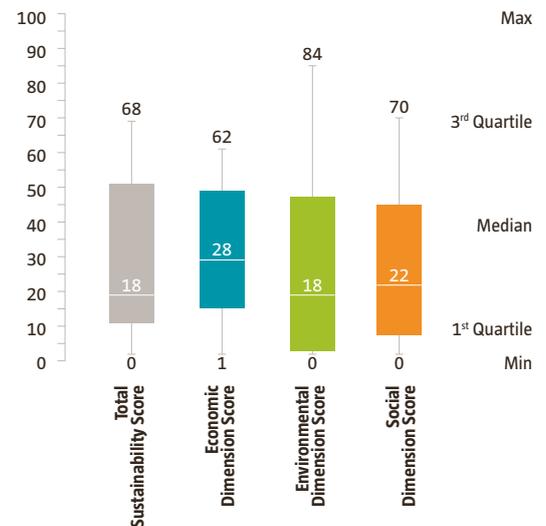
SAM Gold Class ●	
Tata Steel Ltd	India
SAM Bronze Class ●	
Hyundai Steel Co *	South Korea
China Steel Corp	Taiwan
Sustainability Yearbook Members ●	
POSCO	South Korea
Vale SA ^	Brazil

* SAM Industry Mover

Industry statistics

Number of companies in universe	39
Number of companies assessed in 2018	33
Assessed companies to total companies in universe	85%
Market of assessed companies to total market	94%

Results at industry level



▲ In January 2019, RobecoSAM began a Media & Stakeholder Analysis of Vale SA related to the collapse of one of its dams in Brazil. Since the incident, RobecoSAM has continued to closely monitor the developments on this issue, and reserves the right to adjust both the company's score and also its Yearbook eligibility.

The box-and-whisker plot describes the distribution of scores in the industry, based on all assessed companies. More information is available in the Reading Instructions in the introduction.