

# Climate Action



The transition to a low carbon world requires a transformation in the way we manufacture iron and steel. There is no single solution to CO<sub>2</sub> free steelmaking, and a broad portfolio of technological options is required, to be deployed alone, or in combination as local circumstances permit. This series of fact sheets describes and explores the status of a number of key technologies and issues.

## What is Climate Action?

**A global business truth is if you can't measure it, you can't improve it.**

The worldsteel Climate Action Recognition Programme recognises steel producers that have fulfilled their commitment to participate in the worldsteel CO<sub>2</sub> emissions data collection programme.



In 2008, Climate Action was launched, under which companies report data on site- or company-level CO<sub>2</sub> emissions. A participating company or site receives a report showing the process route average emission data and range to which it can compare itself.

The data collection programme is at the core of the steel industry's global steel sectoral approach to climate change and the step up programme. Based on a common methodology, definitions and agreed boundaries, the data collection programme enables individual steel plants to compare themselves against both average and best performance and identify their scope for improvement.

## Recognition

Recognition can be obtained at a corporate level or at a site level as long as data has been received for more than 90% of total crude steel production.

The data must be complete, verifiable and approved for each year of collection. The collection process is overseen by worldsteel staff and verified by a panel of experts who review all submissions against standardised parameters and guidelines.

The data is held in the strictest confidence and will be known only to the company or site itself and worldsteel project staff. A participating company or site will receive a report showing the process route average emission data and range to which it can compare itself.

The recognition scheme is governed by the worldsteel Board of Directors.

The aim of the climate action project is to collect and report CO<sub>2</sub> emissions data on a site-by-site basis to give an overall emission intensity for the production of steel at that site, irrespective of the final products that are being made.

## A secure database for data collection

The methodology that is used has been published as an International standard, ISO 14404:2013 - Calculation method of carbon dioxide emission intensity from iron and steel production. This consists of two parts: Part 1: Steel plant with blast furnace and Part 2: Steel plant with electric arc furnace (EAF). This is an intensity-based approach for the measurement of CO<sub>2</sub> emissions.

This globally consistent methodology allows normalised CO<sub>2</sub> emission comparisons to be made between sites.

Involvement in the CO<sub>2</sub> data collection initiative is exclusive to worldsteel members. Data is collected in an online tool and is hosted externally on dedicated servers with ISO 27001 accreditation.

#### **How is the data used**

worldsteel keeps the data secure and confidential and is only reported to those that contribute and reports will not be published apart from global averages for the entire industry or processes. The aim of the project is to obtain a base level of emissions for the industry for the two key process streams.

The data collection methodology and standard is designed to ensure that sites report emissions using the same boundaries and parameters. Once data is reported back to the member companies they can develop their own plan to make reductions in emissions and obtain a level closer to the best in class. worldsteel can develop a global impact for the industry on the total emissions both for CO<sub>2</sub> and GHG. The IEA report for CO<sub>2</sub> emissions from fossil fuels is used to determine the global uprising of CO<sub>2</sub> and GHG.

#### **A certificate of recognition will be issued following the approval of data**

The certificate allows the recipient to use the special Climate Action Member logo on any of their materials, for example, letterhead, other stationery items, publications, and marketing and advertising materials.

---

May 2021 | AP/RJ