

www.nipponsteel.com/product/nscarbolex





Products and solution technologies to help reduce **CO**<sup>2</sup> emissions in society as a whole.





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NET ZERC NIPPON STEEL Green Transformation initiative

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#### NIPPON STEEL CORPORATION

# **Innovative action for sustainability**



## Nippon Steel offers two values: NSCarbolex Neutral and NSCarbolex Solution.

Nippon Steel has set forth the "Nippon Steel Carbon Neutral Vision 2050" and is working to reduce CO<sub>2</sub> emissions as its most important management issue. NSCarbolex is a general brand name for products and solution technologies to help reduce total greenhouse gas including CO<sub>2</sub> ("CO<sub>2</sub>") emissions in society as a whole, offered to society by Nippon Steel through these efforts.

Green Steel allocated CO<sub>2</sub> emissions savings through the application of the mass balance approach.



Advanced products and solution technologies that contribute to reducing CO<sub>2</sub> emissions in society



## NSCarbolex contributes to reducing CO<sub>2</sub> emissions in every aspect, from the raw materials stage, through our customers' manufacturing processes, to product use and disposal.

#### Scope 1:

Direct emissions from the reporting company's factories, offices, vehicles, etc.

#### Scope 2 :

Indirect energy-derived emissions from electric power and other energy consumed by the reporting company

#### Scope 3 :

Indirect emissions other than Scope 1 and Scope 2 (Emissions by others related to the company's activities).

Contributing to reducing CO<sub>2</sub> emissions

from our customers'

raw materials

Source: Ministry of the Environment website

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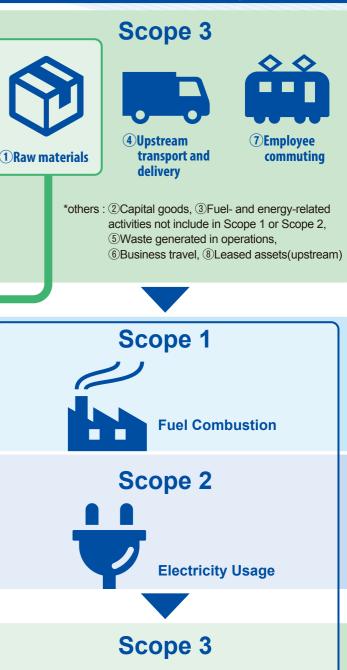
Raw materials etc.

Customers

Contribute to reducing CO<sub>2</sub> emissions in manufacturing processes of our customers and during the use of our customers' products. Product use, disposal, etc.

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### CO2 emissions in customers' supply chain





#### **11**Product use

12 Product disposal

\*others : <a>Downstream transport and delivery, <a>Delivery, <a>Delive



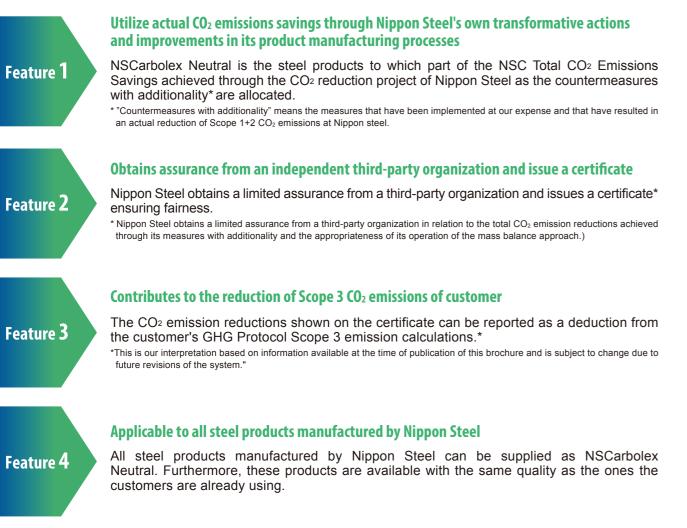
## Green steel, embodying the reduction of CO<sub>2</sub> emissions in the steel manufacturing processes as an environmental value through the application of the mass balance approach.

NSCarbolex Neutral is the Green steel to which part of the amount of CO<sub>2</sub> emissions actual savings in Nippon Steel's product manufacturing processes ("NSC Total CO<sub>2</sub> Emissions Savings") are allocated through the application of the mass balance approach.

As the demand for decarbonization in society continues to grow, we believe that accelerating efforts towards decarbonization will enhance the competitiveness of our customers.

Nippon Steel aims to contribute our customers in their decarbonization by establishing a stable supply system for NSCarbolex Neutral at an early stage.

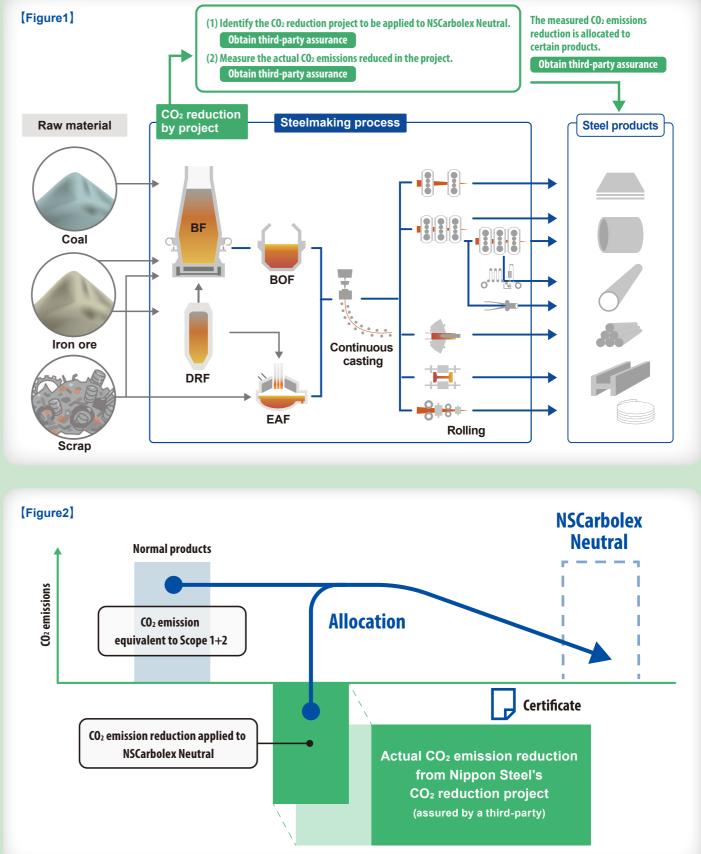
#### 4 Features of NSCarbolex<sup>™</sup> Neutral

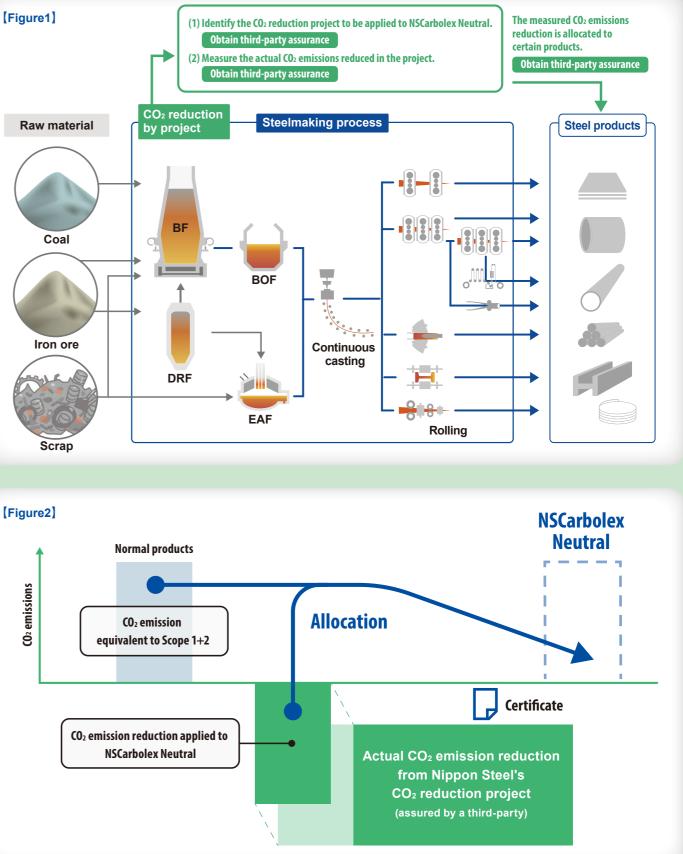




### Scheme of NSCarbolex Neutral

It is not easy to reduce carbon emissions in the steel industry, and it is expected to take a long time to develop decarbonization technologies. In this context, through the application of the mass balance approach, Nippon Steel will be able to guickly deliver to customers the CO<sub>2</sub> emission reduction effects achieved through projects such as the transformation and improvement of manufacturing processes (see also Figures 1 and 2).







## Advanced products and solution technologies that contribute to the reduction of CO<sub>2</sub> emissions in society.

Nippon Steel offers a variety of advanced products and solution technologies that contribute to reducing CO<sub>2</sub> emissions in society.

We systematized these items and launched a brand "NSCarbolex Solution".

Nippon Steel will make even greater contributions to reducing CO<sub>2</sub> emissions of customers and society by making efforts and providing information to be more useful than ever to our customers, and expanding our lineup of NSCarbolex Solution through further development of products and technologies.



## Our advanced products and solution technologies contribute to the reduction of CO<sub>2</sub> emissions in every field of society.

