TATA STEEL

TATA

Support for a major step towards cleaner steel production

Together with the Dutch government and our Indian parent company, we have signed a Joint Letter of Intent (JLOI). This marks an important step towards cleaner and future-proof steel production – developed in-house and in the Netherlands. This joint signing demonstrates our shared belief in the course of more sustainable steel production in the Netherlands.

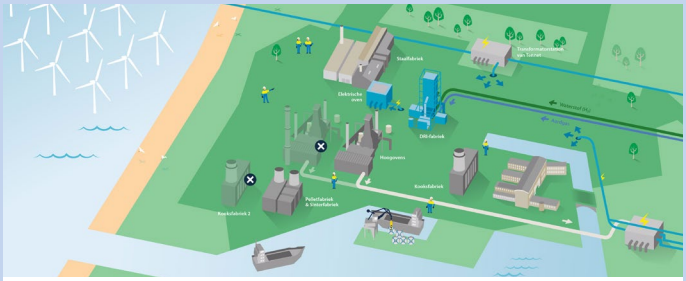
Key agreements with the government

We are investing in a new way of producing steel, with clear guiding principles: **contributing to a healthier living environment** and significantly **reducing our CO_2 emissions.**

Healthier living environment

We will build cleaner installations here in the Netherlands, with significantly lower emissions. In addition, we are also taking additional environmental measures to reduce particulate matter (PM) levels from our process in the air in Wijk aan Zee 35% compared to 2019.

- **Coverages for ore stockyards and scrap processing areas**
- **Windbarier for one of the ore stockyards**
- **Coverings for specific slag processing stages**
- **Additional filters on the new installations**



Lower CO_2 emissions

It is our aim to close Coke and Gas Plant 2 (KGF 2), followed by Blast Furnace 7. These will be replaced by a Direct Reduced Iron (DRI) plant and an Electric Arc Furnace (EAF). Initially, these will run on natural gas. We also plan to increase the use of scrap metal. This will cut CO_2 emissions by over 40%. Once biomethane and/or hydrogen are sufficiently available, we will switch to these fuels. As an interim step, we will also capture and store part of the remaining CO_2 (Carbon Capture and Storage, CCS). Together, these measures are expected to reduce CO_2 emissions by approximately 57%.

	Current	Step 1	Step 2	Step 3
Energy mix and CO_2 storage	Coal*	Natural gas Electricity	Natural gas Electricity Carbon Capture Storage	Natural gas Electricity Biomethane Green hydrogen
Reduction of CO_2 emissions Mt = million tonnes		**-5,4 Mt**	**-6 Mt**	**-6,0 - 7,2 Mt**

* This refers to Phase 1 of the Green Steel Plan: Cokes and Gas Plant 1 and Blast Furnace 6 will remain operational.

Circularity

We will increase the reuse of scrap steel, making production more sustainable. Scrap use will rise from 17% to 30%. We are already carrying out tests to ensure that steel with higher scrap content is just as strong and safe as the steel we currently produce for, for example, automotive components.

A selection of our targets**

CO_2 emissions:	**–43% to –57%**
Particulate matter concentrations:	in Wijk aan Zee **–35%**
Targets for Substances of Very High Concern (SVHCs) and heavy metals	see Table 6 JLOI
NOx emissions:	**–44%**
SO_2 emissions:	**–38%**
Odour impact reduced in line with the Provincial Odour Decree.	
Improved monitoring to reduce peak and tonal noise emissions.	

See Table 6 of the Joint Letter of Intent for a complete overview.

Why is this important?

Fewer emissions = **a healthier living environment**

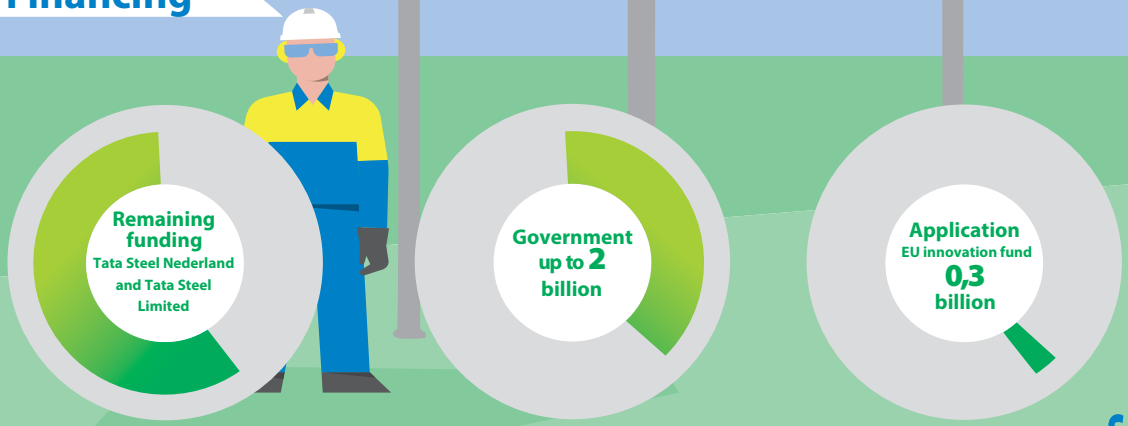
A key contribution to Dutch, European, and global **climate targets.**

Strategic independence in times of geopolitical uncertainty

High-quality employment

An **increasing economic contribution** to the region and the Netherlands

Financing



** The CO2 percentage reduction is based on a baseline of 12.6 Mt CO2, scaled to 7.23 Mt liquid steel production. The other emission percentages are based on the current situation as shown in the Environmental Impact Assessment (EIA).

www.tatasteelnederland.com/jloi

SAMEN NAAR DE NIEUWE STAALTIJD
Together towards the new era of steel

Disclaimer
The contents of this publication have been compiled with the utmost care. However, neither Tata Steel nor its subsidiaries are responsible or liable for errors or potentially misleading information.