



Electrification at Tata Steel IJmuiden

NAP Process Industry Network March 24 2022

Together we make the difference

TSN is committing to a clean, green future with two programs

Roadmap Plus

Reduction of local emissions and improvement of local nuisance situation by taking environmental measures, incl. dedusting and deNOxing the pellet plant, and limiting emission at the cokes plant

Implementation timeline of 2019-2025

35%	PM10 (fine dust) reduction by 2023 ¹
85%	Odour reduction by 2023 ¹
50%	PAH-emissions reduction by 2022 ¹
30%	NOx emissions reduction by 2025 ¹



Transition to clean, green steel

Transition to green hydrogen-based steel making by replacing current blast furnace-technology with DRI-plants and electric furnaces

Implementation timeline of 2022-2035

30 - 40% CO₂ emissions reduction after first BF-replacement by '30²

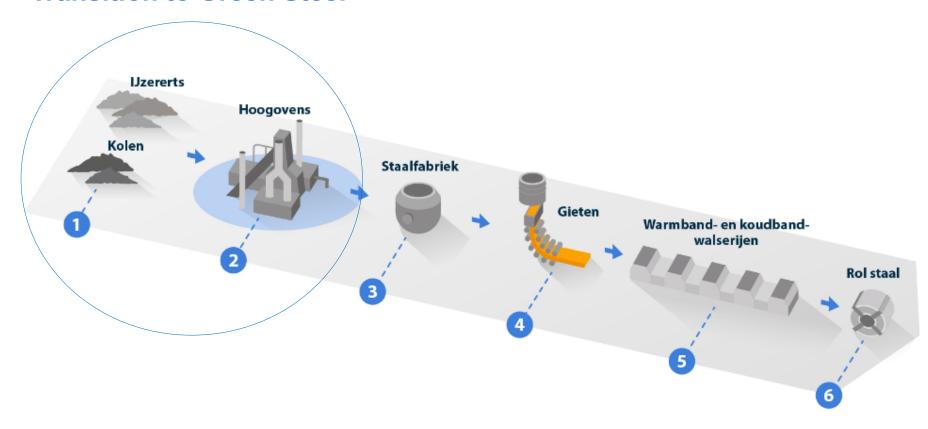
60 - 70% CO₂ emissions reduction after second BF-replacement by '35²

100% CO₂ emissions reduction by '50¹

Reduction compared to 2019 emissions

Reduction compared to 2019 emissions
Reduction compared to 2019 emissions and based on phasing out of BF6

Transition to Green Steel



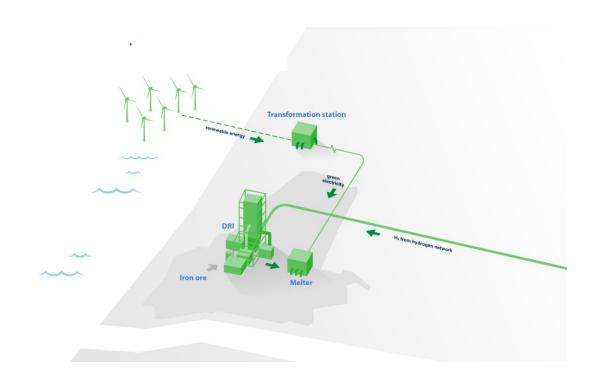
DRI technology based on green hydrogen

DRI installation



Melter



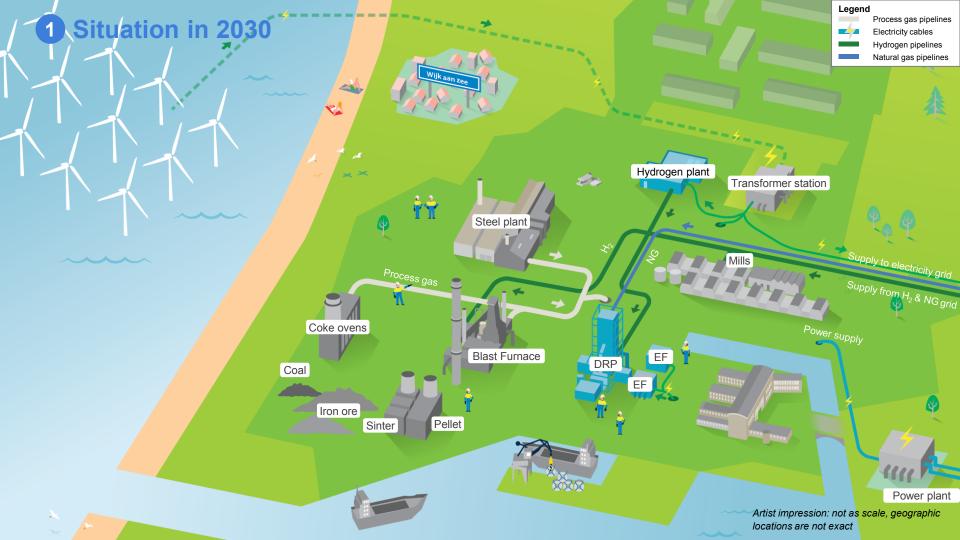


Inside an electrical melting furnace



Source: SMS/Hatch/Outotec



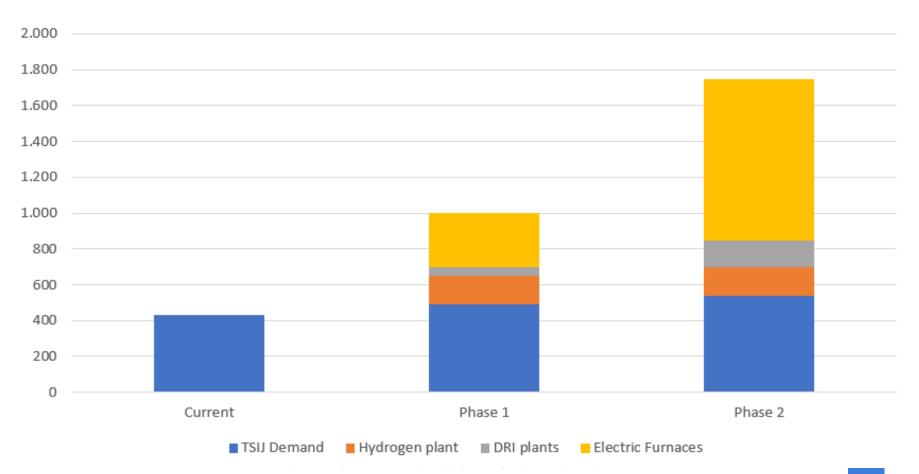




Landing station HKN - TenneT



Electricity consumption (MVA)



High Voltage Infrastructure to electrify the Steelmaking processes

