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IKI INTERNATIONAL CLIMATE INITIATIVE

H2-diplo DECARBONIZATION DIPLOMACY

Implemented by

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

HYDROGEN DIPLOMACY OFFICE ASTANA

H2-DIPLO: DECARBONIZATION DIPLOMACY

THE ROLE OF GREEN HYDROGEN IN DECARBONIZATION

H2-diplo – Decarbonization Diplomacy

Ongoing energy transition towards renewables

Fossil fuel export and transit countries face future decrease in demand

Advancing the global energy transition

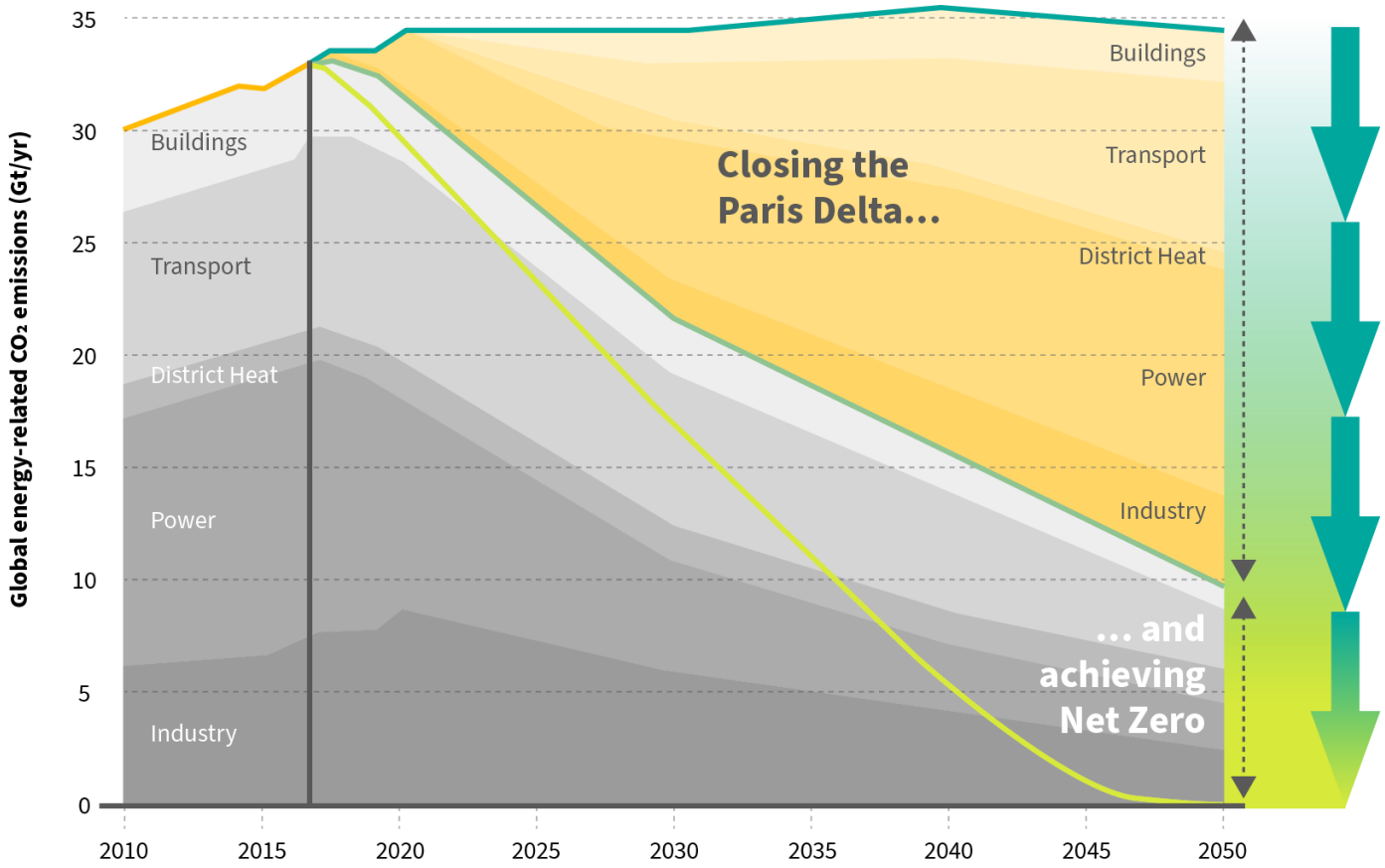
Local economy diversification, decarbonization and value chain integration

Advancing global trade of green hydrogen

The Role of Green H2 in Decarbonization

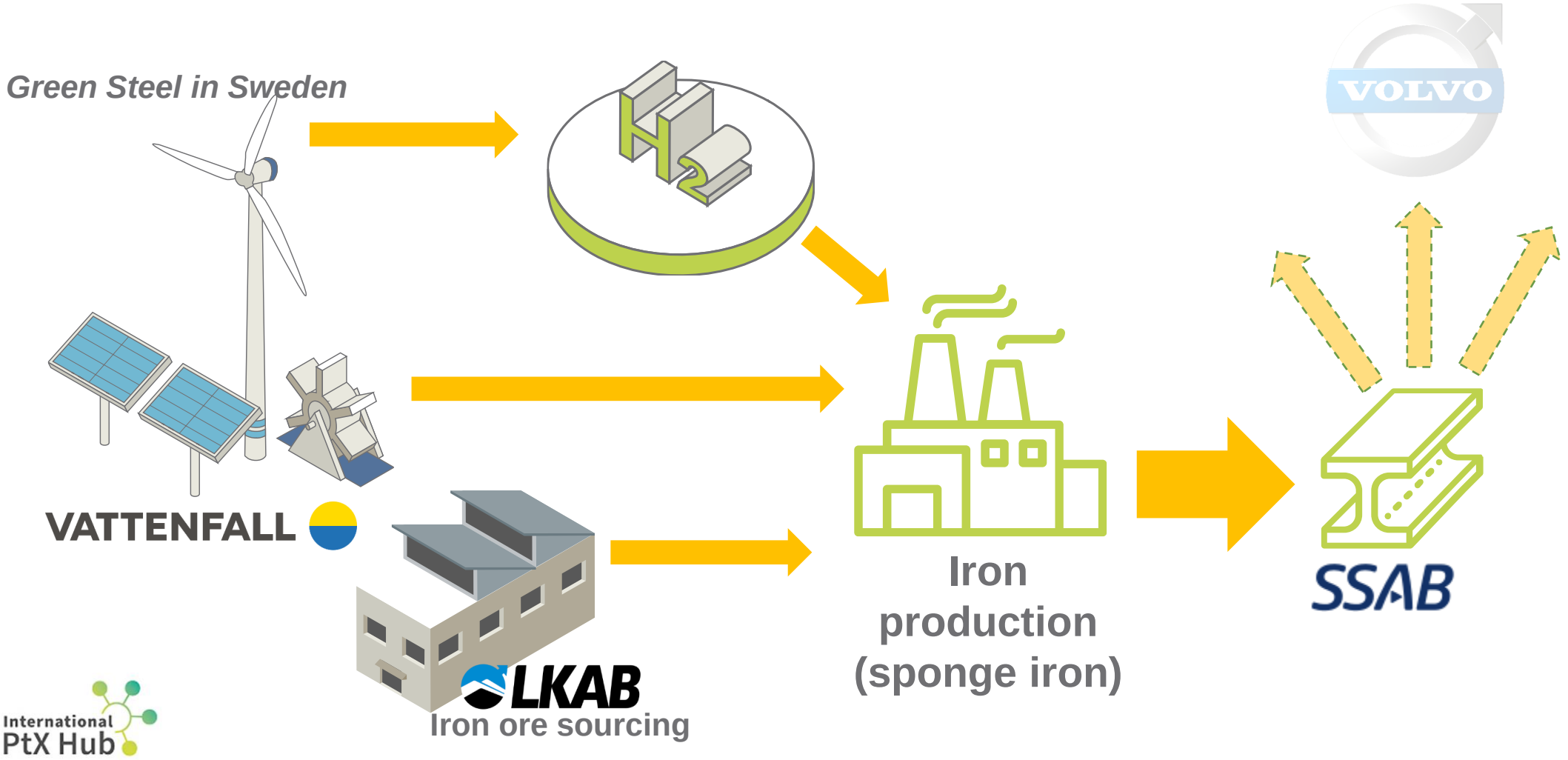
The Role of Green H2 in Decarbonization

Green H2 as part of the solution



1. Improving energy efficiency in all sectors
2. Reaching 100 % renewable energy
3. Electrifying all sectors such as heating and light-duty transport
4. **Power-to-X** for the sectors and industries that cannot directly electrify

The Role of Green H2 in Decarbonization

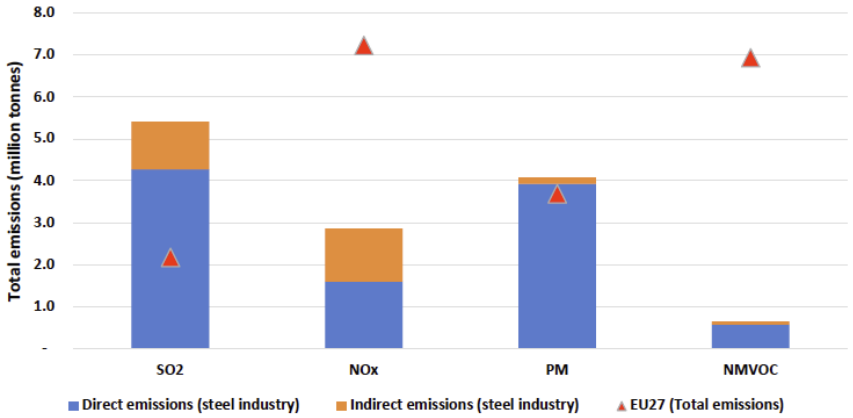


Source: PtX Hub illustration based on: Klimareporter (Wille, J.), Grüner Stahl am Start, 2021.

The Role of Green H2 in Decarbonization

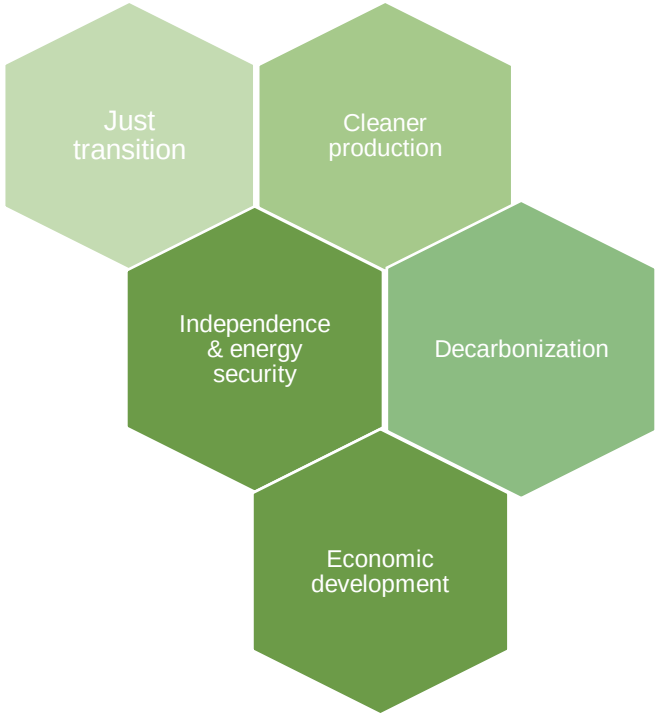
More than CO_2 Mitigation

Example: Other emissions in the steel industry



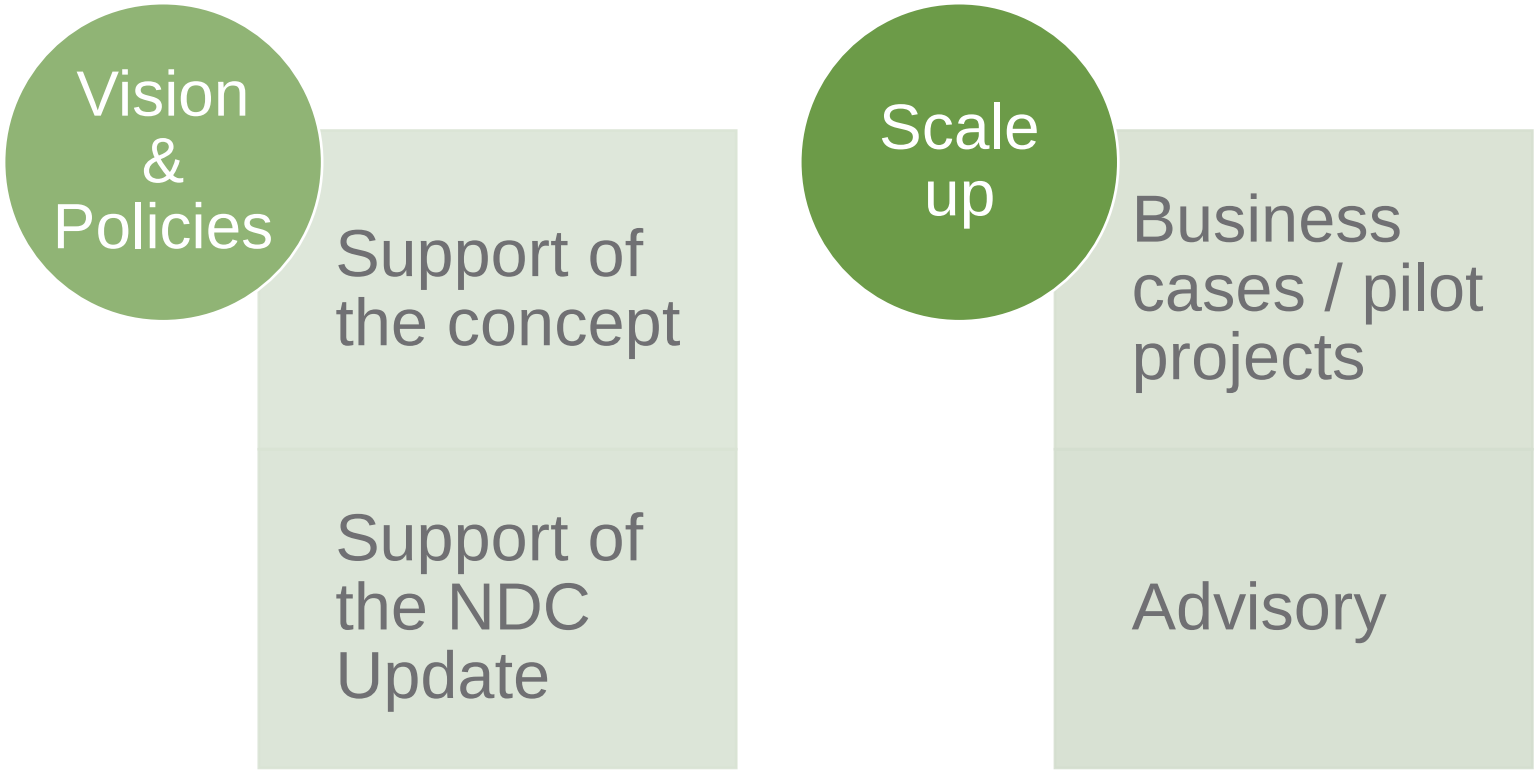
https://www.globalefficiencyintel.com/air-pollution-from-global-steel-industry

Transition



The Role of Green H2 in Decarbonization

H2-diplo + H2-PEP



Спасибо! Рақмет! Thank you!

For any questions, please contact the

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