A resource efficient and fossil free future

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SSAB


SUSTAINABILITY
EXPEDITION
SSAB

GLOBAL DRIVERS

CLIMATE CHANGE
POPULATION GROWTH AND STANDARD OF LIVING
URBANISATION AND RESOURCE SCARCITY

”WE ARE THE FIRST GENERATION THAT CAN END POVERTY

AND THE LAST THAT CAN STOP CLIMATE CHANGE”

- UN Secretary-General Ban Ki-moon

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WE ARE FIGHTING CLIMATE CHANGE

- Emission free cars
  - Self driving vehicles
  - Materials have main environmental impact
- Zero energy buildings
  - Use-phase environmental impact is low
- Recyclability to reduce impact further
  - Design for re-use
  - Design for recycling
- Environmental impact moves from use to design

- Using less material and the right material is the key to reducing environmental footprint

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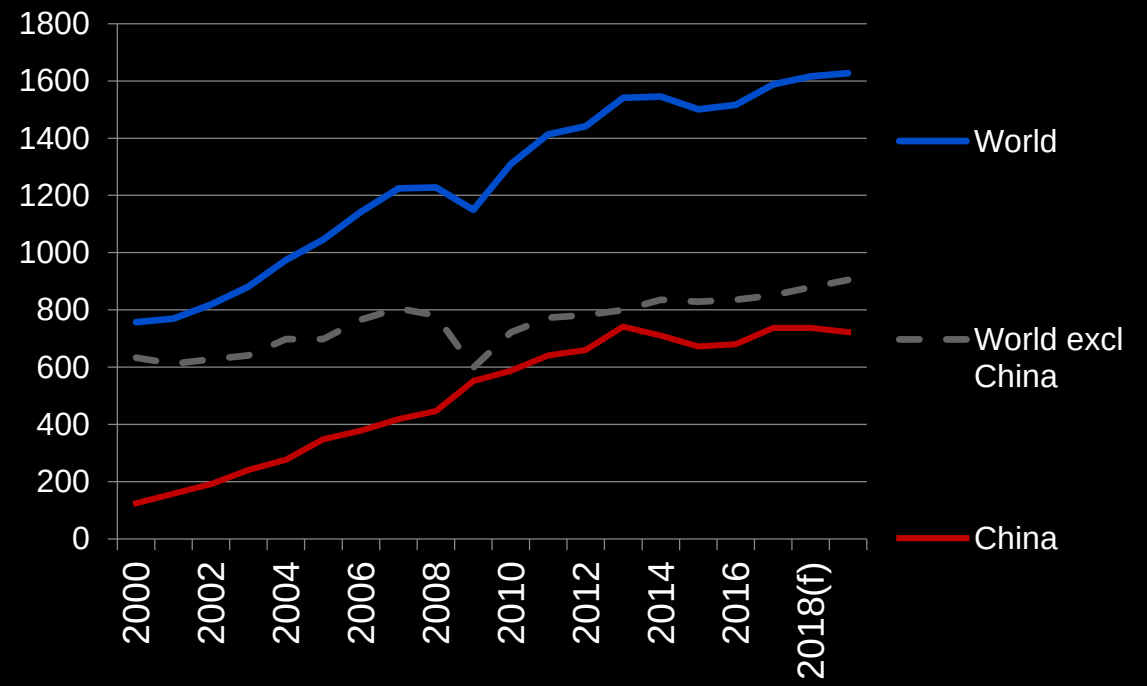
STEEL CONSUMPTION INCREASING

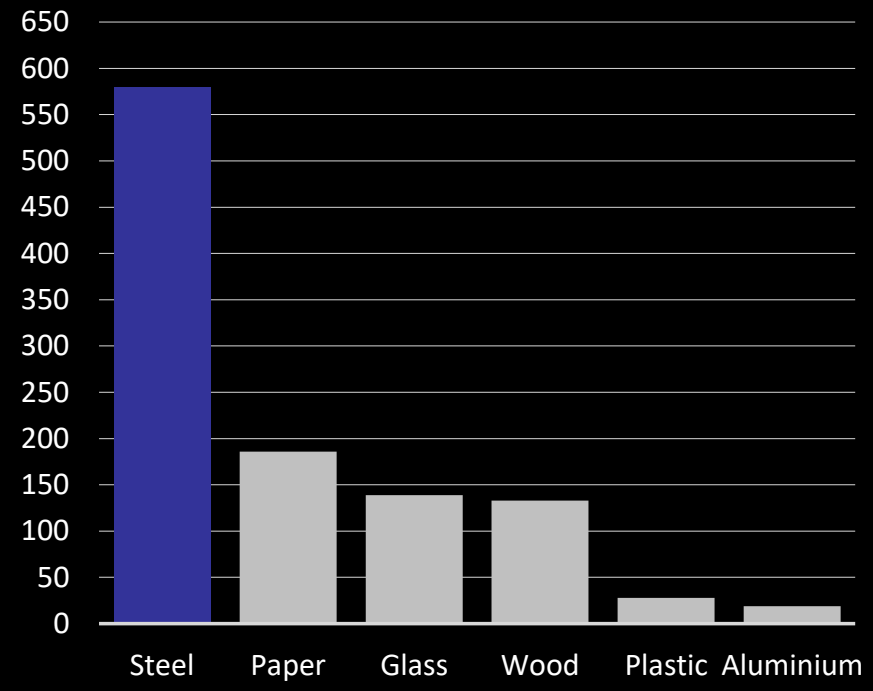
- Standard of living
- Urbanisation and infra structure
- Transportation and production



Source: worldsteel Short Range Outlook March 2018

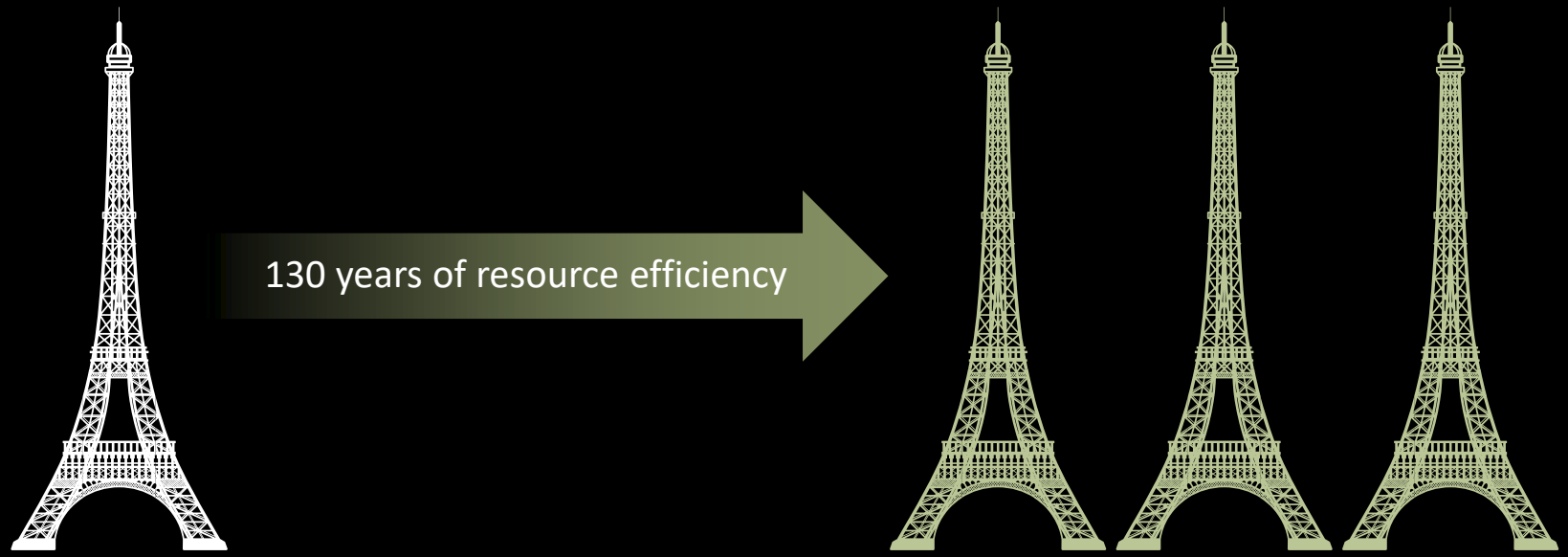
THE MOST RECYCLED MATERIAL IN THE WORLD

- The amount of recycled steel is more than all other materials together
- Steel can be recycled fully and indefinitely without loss of quality

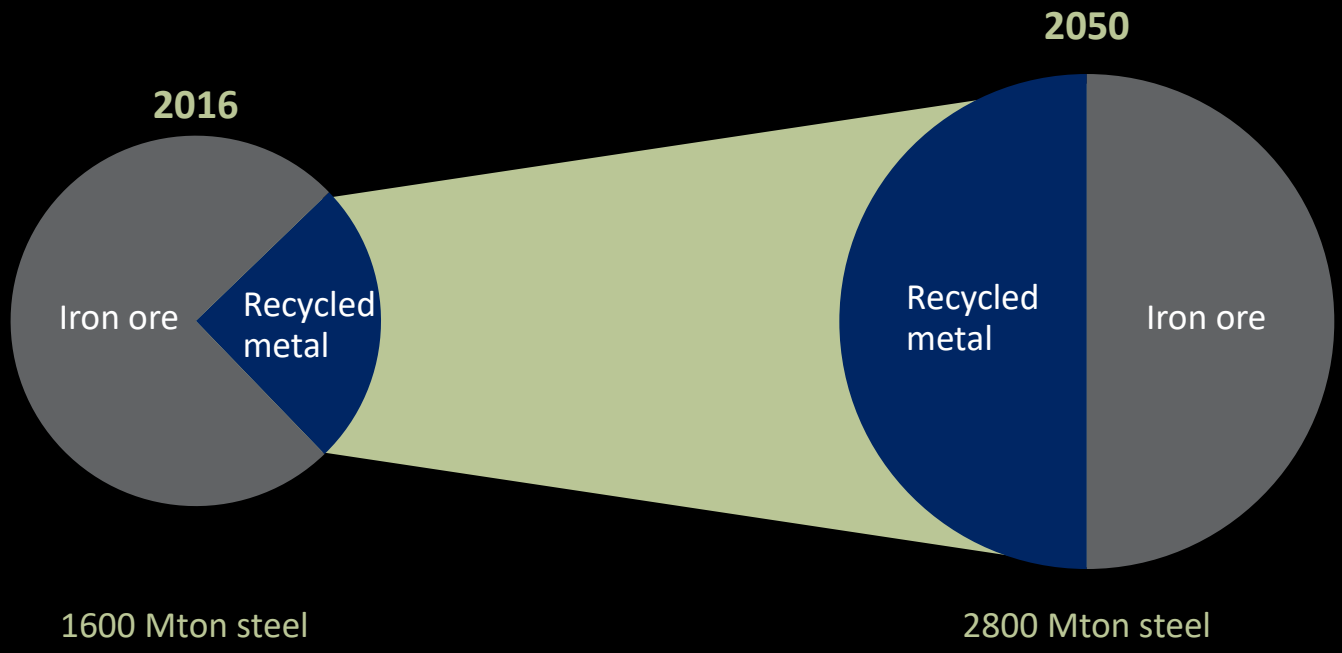


Source: worldsteel Short Range Outlook March 2018

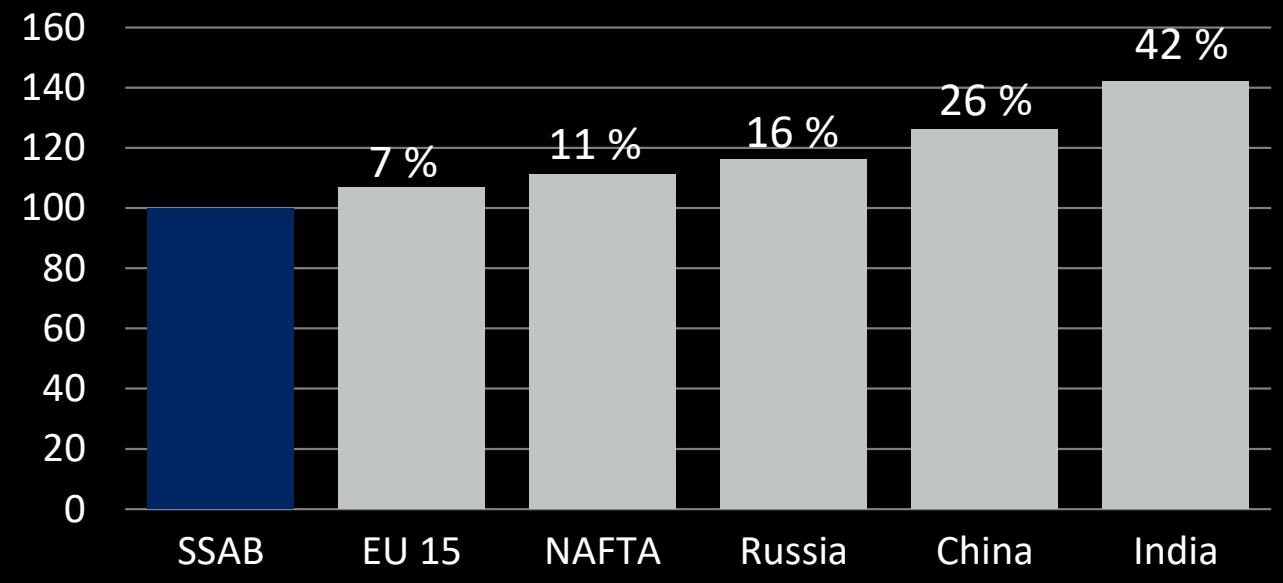
LESS IS MORE



RECYCLING IS NOT ENOUGH



CO_2 EFFICIENT STEEL MAKING

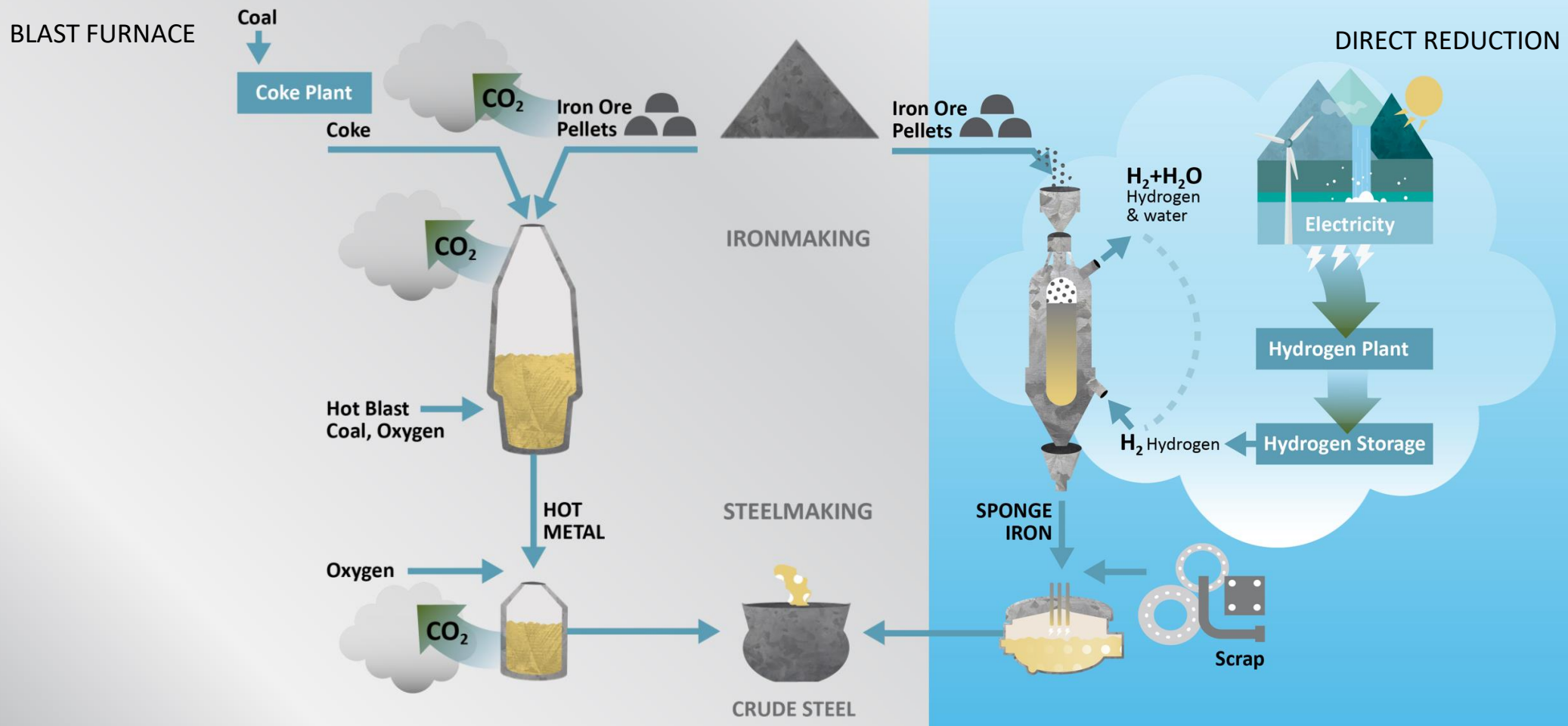


Source: Stahl-Zentrum. *The indexed carbon efficiency in iron-making based on coal consumed 2012

SSAB


If the SSAB steel production is moved from the Nordics to China emissions will increase by
2 200 000 tons
or the equivalent of
1 100 000 cars
driving 15 000 km/year
SSAB

HYBRIT – FOSSIL-FREE STEELMAKING



HYBRIT would eliminate ~90% of SSAB's total CO_2 emissions

2016-2017
Pre-feasibility Study

2018-2024
Feasibility StudyPilot plant trials

2025-2035
Demonstration Plant Trials

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Where is the environmental impact?

PRODUCTION

USE


10% LOWER WEIGHT
5% FUEL SAVINGS

“Winds of change – less drag, more load”

SSAB ECO UPGRADED

CO_2 SAVINGS	CO_2 PAYBACK TIME	FUEL REDUCTION
105	1.3	33,600
TONS/LIFETIME	MONTHS	L/LIFETIME

8 tonnes of steel

105 tonnes less CO_2

Responsibility

For SSAB, having a large impact on society means taking on a large responsibility. SSAB takes responsibility for the full value chain by setting high standards, having safe operations and interacting with customers in an ethical way. Only by being a sustainable and responsible company, can SSAB attract the employees of tomorrow.

Health & Safety

Safest steel company in the world

Code of Conduct

Translating values into action, all new employees signs the code

Business ethics

Training in business ethics to maintain a global culture of integrity

Responsible sourcing

Ensuring collaboration with suppliers who share our values

Diversity & Inclusion

30% women in top management positions by 2019, vision on gender equality

Competence & Leadership development

Secure long-term talent and competence sourcing

Key partnerships

Collaboration across industries and nations

Contribution to societies

Engagement locally on all production sites

SSAB

Sustainability strategy with three focus areas

Sustainable operations

Fossil-free 2045

SSAB will stepwise move toward a fossil-free steelmaking process through the HYBRIT initiative and eliminate other fossil fuel related emissions, making it possible to be fossil free within the entire operation

Sustainable offering

10 Mtonne annual customer CO2 savings 2020

By using SSAB's high-strength steels, customers can achieve CO_2 savings during their end product's use-phase that are as large as SSAB´s direct production emissions

SSAB manages risks and takes responsibility for business ethics and responsible sourcing, and continuously strive to improve safety, diversity and employer attractiveness

Responsible partner

SSAB

A stronger,
lighter and more
sustainable world