

H2 Fórum 2023

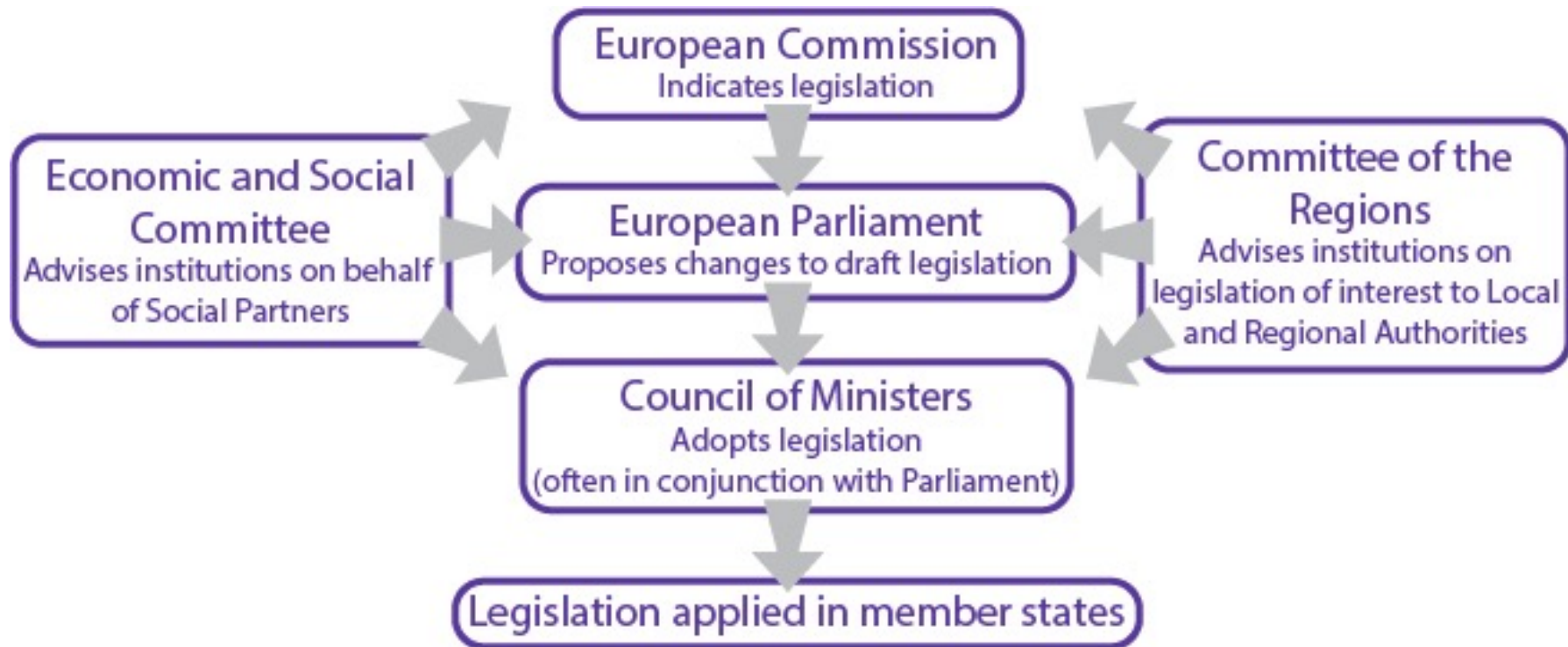
23.–24. října 2023, Ostrava



Zelená ocel a zelený průmysl

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BeePartner a.s. / Svaz průmyslu a dopravy ČR
(CZ – Member of the EESC, Employers' Group)





WHAT DOES ORGANISED CIVIL SOCIETY MEAN?

The EESC comprises all the groups and organisations in which people work cooperatively:



**In the EESC we are representing the views and proposals of civil society as a whole,
and act as intermediaries between decision-makers and citizens.**

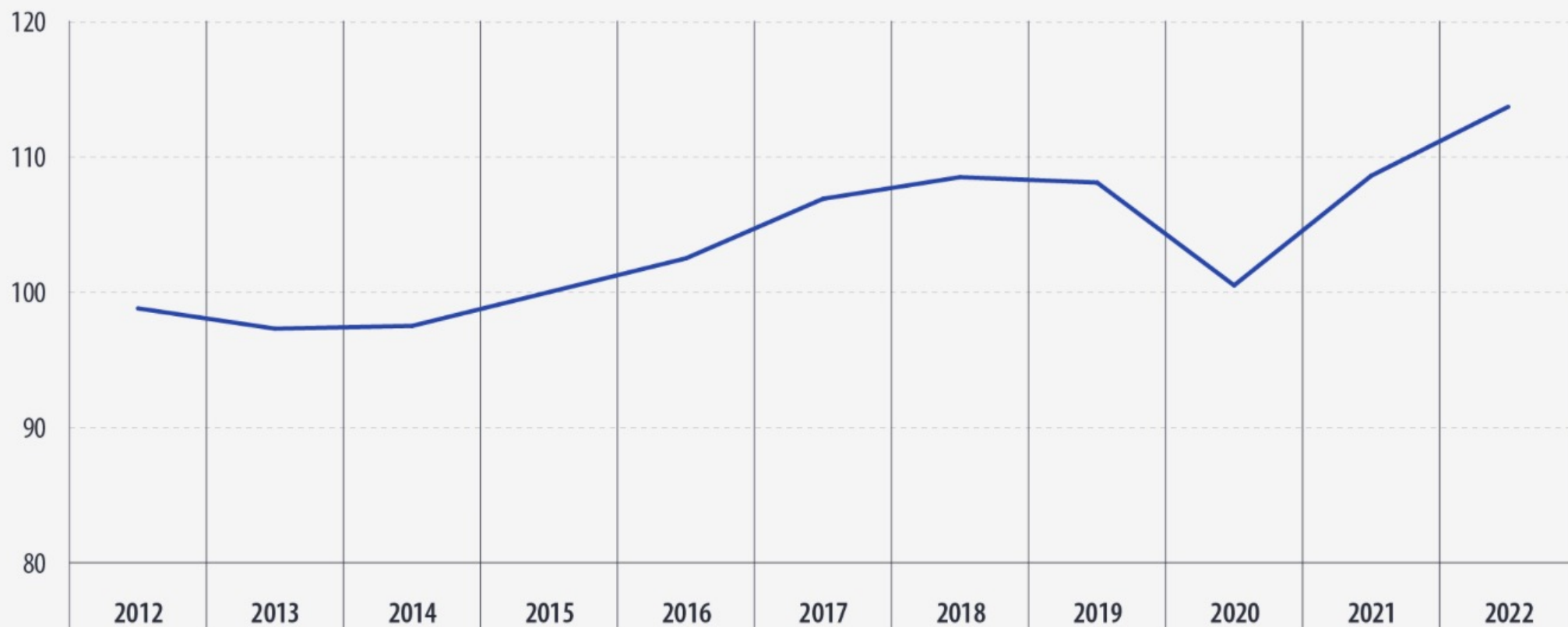
HOW TO BOOST THE COMPETITIVENESS OF EU INDUSTRY

Excellence and level playing field are key



Evolution of EU's value of sold industrial production, 2012 - 2022

(2015 = 100)

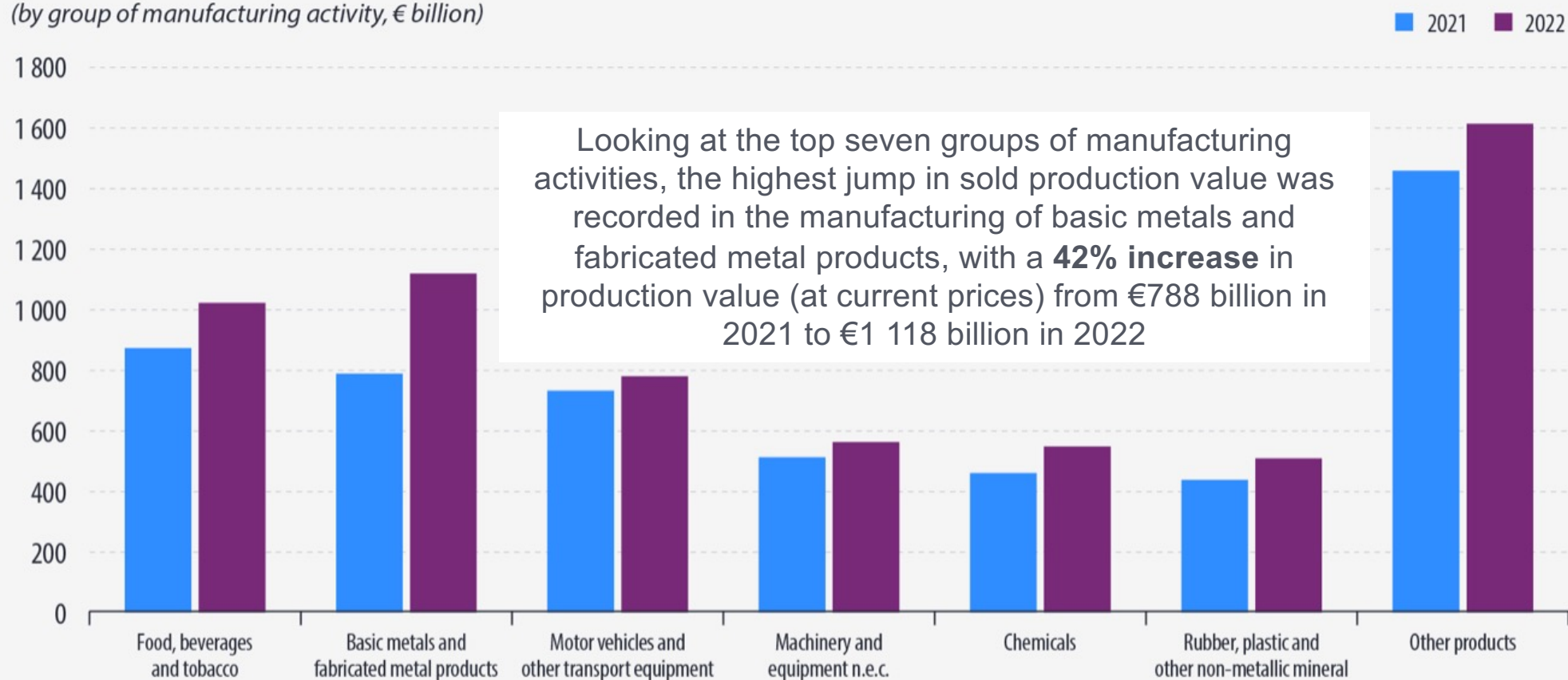


EU: except Cyprus, Luxembourg, Malta
Analysis based on constant price ref. 2015



Value of sold production in the EU, 2021 and 2022

(by group of manufacturing activity, € billion)



The EU aggregate does not include data of Cyprus, Luxembourg and Malta. Analysis based on current prices.

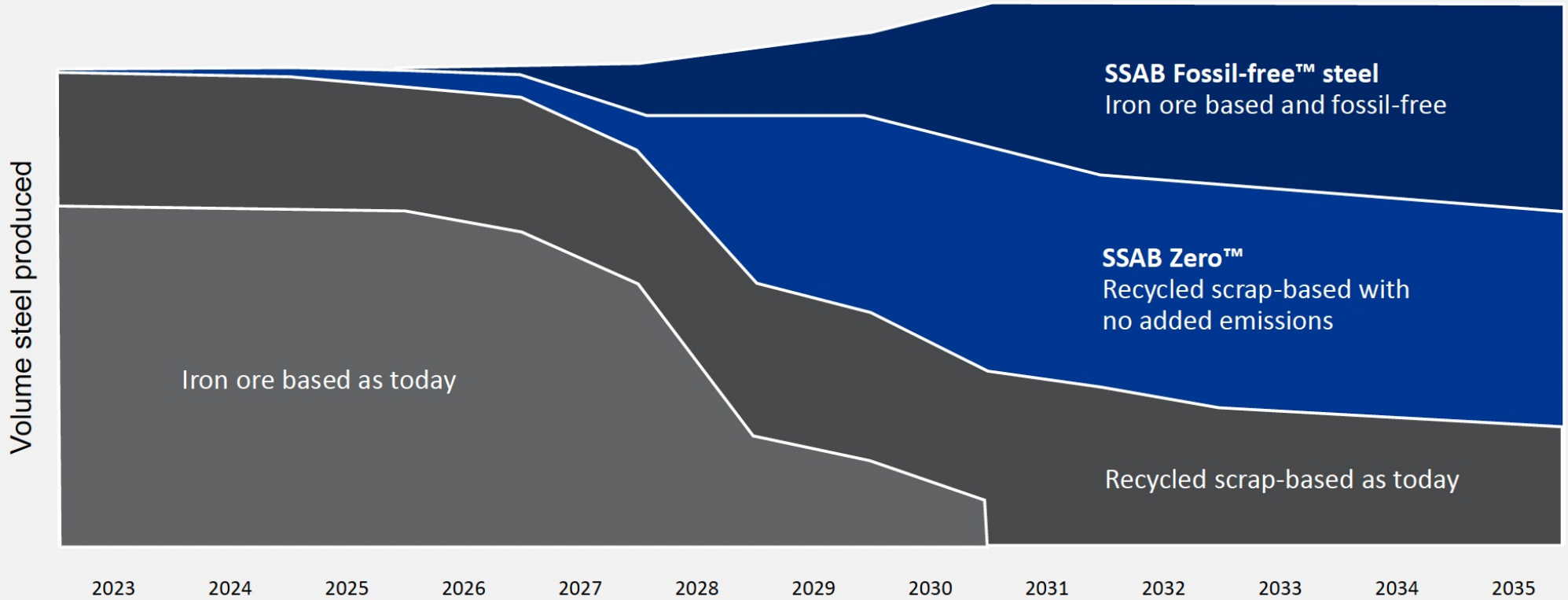
Other products: Wood and paper, and printing; Furniture, other manufacturing and installation of machinery and equipment; Electrical equipment; Computer, electronic and optical products; Textiles, wearing apparel and leather; Pharmaceutical products; Mining





Targeting a fully sustainable steel portfolio

Illustrative



Demonstration of fossil free value chain aiming at commercial deliveries starting in 2026


Production of fossil-free pellets



IRON ORE PELLETS



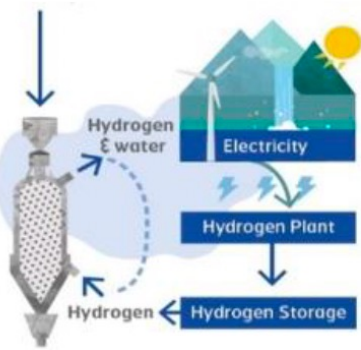
Production of fossil-free electricity



Electricity

VATTENFALL

Production of fossil-free sponge iron



Hydrogen & water

Electricity

Hydrogen Plant

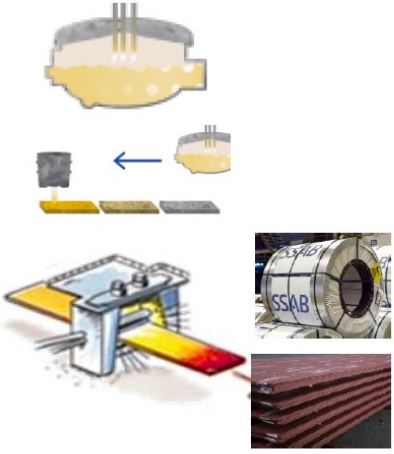
Hydrogen Storage

Hydrogen

HYBRIT

FOSSIL-FREE STEEL

Production of fossil-free steel



SSAB

Customer partnerships



VOLVO VOLVO GROUP

DAIMLER

Polestar

shape

faurecia

Autoliv

CARGOTEC

HAB · KALMAR · MACGREGOR

Lindab

Epiroc

ALFA LOM

PEAB

SSAB



Průmysl v České republice potřebuje dostupnou, čistou energii!

Vnitrostátní plán České republiky v oblasti energetiky a klimatu

Srovnání celkového výkonu výroby elektřiny u hlavních jednotlivých zdrojů v jednotlivých letech podle scénářů

Scénář	Hlavní zdroj energie	Jednotka	2022	2030	2050
WAM3	Jaderné	GWe	4,3	4,3	5,9
WAM3	Solární	GWe	2,1	10,1	26,1
WAM3	Větrná	GWe	0,3	1,5	5,5
WAM3	Zemní plyn / Vodík	GWe	2,4	3,2	4,0
WAM3	Uhlí	GWe	9,4	3,0	0,0



Industrialists' initiative

to support the transition of the Moravian-Silesian Region into a low-carbon economy

We need enough clean energy to transform the industry.

The rapid reduction of energy sources from fossil fuels is a threat to the operation of energy-intensive industrial plants. For the transitional phase, we see it as necessary to use the capacity of natural gas and at the same time we strongly support the rapid growth of energy from renewable sources.



Industrialists' initiative

to support the transition of the Moravian-Silesian Region into a low-carbon economy

To ensure cost-effective **electrification**, it is necessary to strengthen the distribution network, support smart energy grids, and support charging infrastructure for e-mobility.

We see great potential in the use of hydrogen, which can be used both in mobility and in technological processes in industry, as well as in other alternative fuels, which can be a key element of decarbonisation.



TŘINECKÉ ŽELEZÁRNY

TŽ INTRODUCTION

INTEGRATED STEEL PRODUCER

2.5 MILLION
TONNES OF CRUDE STEEL ANNUALLY

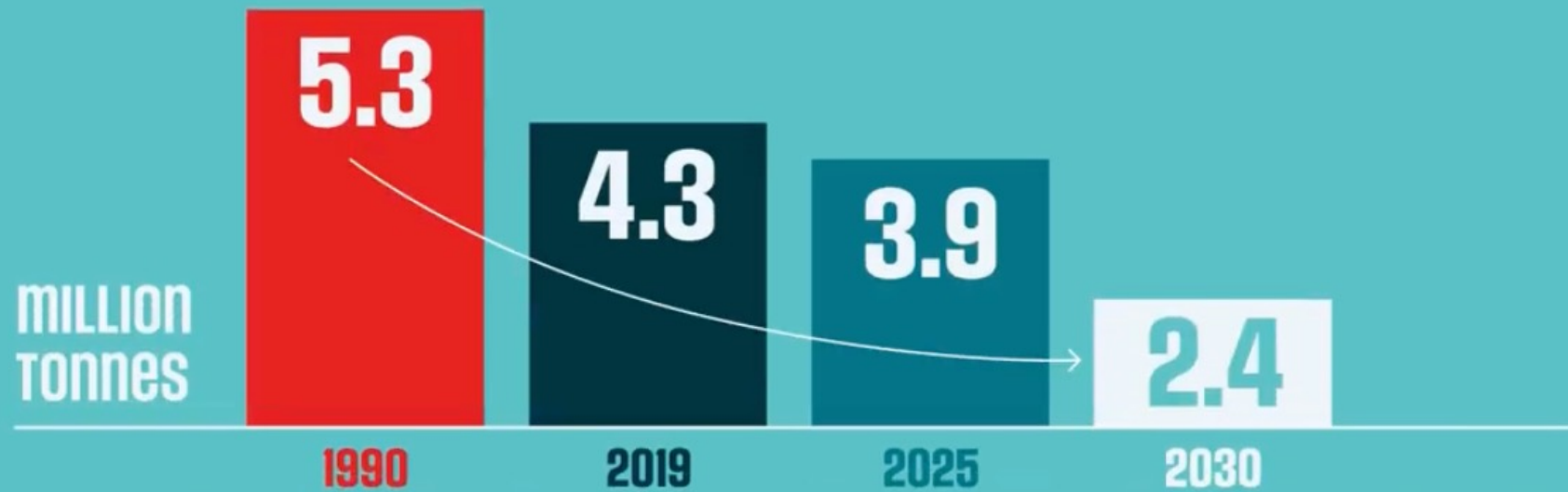




STEEL FOR GENERATIONS
TO COME

REDUCTION OF CO₂ EMISSIONS BY **55%**

STRIVING FOR CARBON NEUTRALITY



**THE EMISSION INTENSITY OF STEEL
PRODUCED IN TŽ IS AT LEVEL OF**

1.52 T CO₂

PER TONNE OF STEEL

**THE RESULT OF
INVESTMENTS IN ECOLOGY
WITHIN THE LAST 30 YEARS**



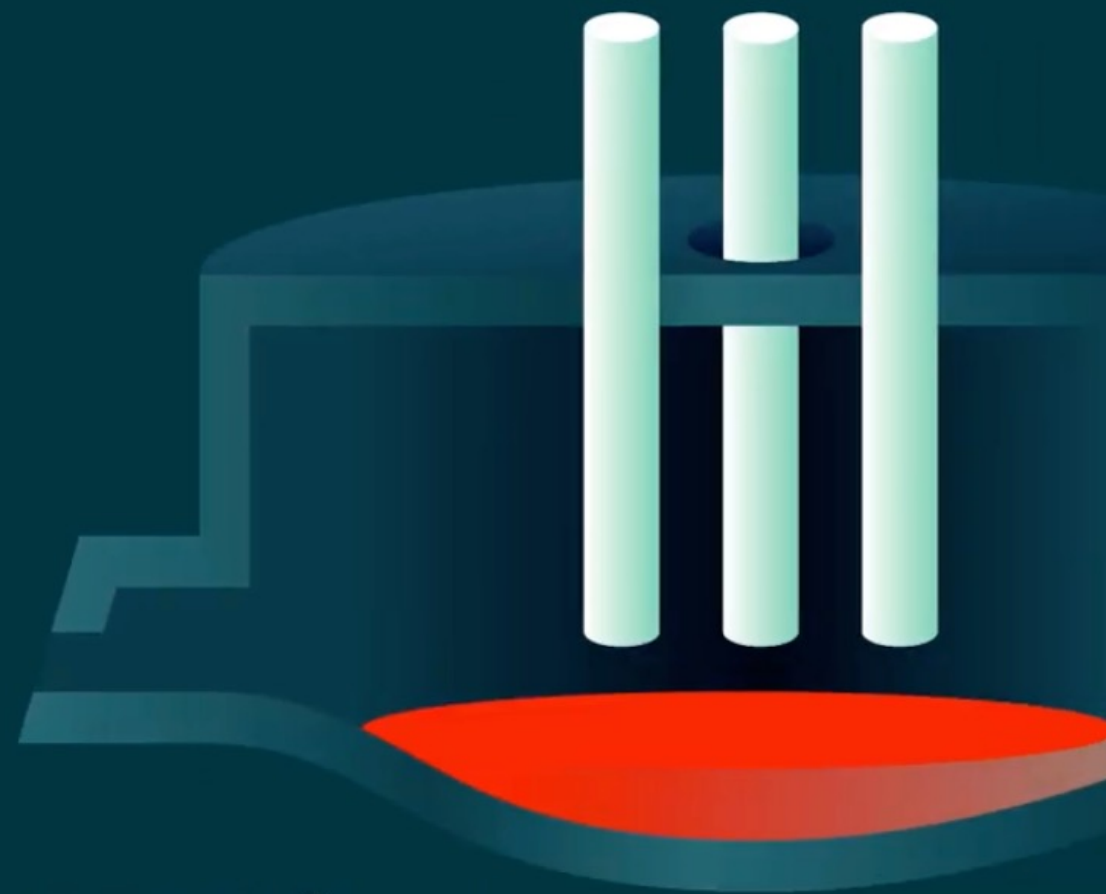
NEW **BRIQUETTING** **Line**

A decorative graphic consisting of several 3D cylinders of varying sizes and orientations. One cylinder is a vibrant red, while the others are a teal color. They are scattered across the right side of the image, creating a sense of depth and movement.

- **CONSTRUCTION SINCE 2023**
- **WORKING PLACES FOR
12 NEW EMPLOYEES**
- **REDUCTION OF COKE
AND DUSTCOKE CONSUMPTION**

PREPARATORY PROJECT OF THE NEW EAF

- LOW-emission
TECHNOLOGY
OF STEEL PRODUCTION
- THE need TO BUILD AN EHV CONNECTION TO TŽ
 - RELIABILITY AND COST OF ELECTRICITY SUPPLY



GREEN DEAL MODIFICATION TO THE CURRENT SITUATION

- **EU ETS**
- **THE ENERGY CRISIS**
- **PETROL AND GAS PRICES**
- **MAINTAINING THE SOCIAL PEACE**

DECARBONIZATION
SHOULD NOT EQUAL
DEINDUSTRIALIZATION

DEMAND FOR STEEL WILL NOT VANISH



CLIMATE CHANGE IS a GLOBAL PROBLEM

EU SHARE IN GLOBAL EMISSIONS IS 7%

CONDITIONS FOR MEETING THE ASPECTS OF GREEN STEEL



SUFFICIENT
RENEWABLE
ENERGY



ECONOMICALLY
AVAILABLE
ENERGY



THANK YOU FOR YOUR ATTENTION

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