



# Final programme



Antwerp,  
September  
2023

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All participants must wear badges at all times during the forum and social events.



## Welcome

The World Steel Association (worldsteel)'s second Open Forum will be held at the Radisson Blu Astrid, Koningin Astrid Plein 7, Antwerp, Belgium from Tuesday 12 to Wednesday 13 September.



It is intended to be a conversation about climate involving the entire steel value chain and all its stakeholders to share ideas on how to accelerate the decarbonisation of our industry.

The first day focuses on how the steel industry's transition will look different in different parts of the world due to policy and regulatory differences, and what these differences might mean in terms of access to finance and raw materials requirements.

The second day focuses more on the steel value chain. Firstly, how the transition will change the overall energy needs of the industry and the types of energy required. Secondly, on steel using sectors and how are they expected to develop in the coming decades and thirdly, on chain of custody and ensuring it remains clear and linked to what we offer to customers.

The event closes with a moderators' panel summarising the key takeaways from the session discussions, and important next steps.

I look forward to welcoming you to Antwerp and involving you in the discussions.

**Åsa Ekdahl**  
Head, Environment and Climate Change, worldsteel

## Programme overview

### Monday, 11 September 2023

**18.30 - 20.00** **Welcome Reception**

Dress: business casual

**Chocolate Museum**

### Tuesday, 12 September 2023

**09.00 - 17.00** **Open Forum Day 1**

Invited speakers and participants only

**Esperanza 1-4, Radisson Blu Astrid**

**18.30 - 19.00** **Antwerp Zoo evening tour**

**ZOO Antwerpen**

**19.00 - 22.00** **Gala Dinner**

Dress: business casual

**ZOO Antwerpen**

### Wednesday, 13 September 2023

**09.00 - 16.00** **Open Forum Day 2**

Invited speakers and participants only

**Esperanza 1-4, Radisson Blu Astrid**

## Programme

Tuesday, 12 September 2023

### 1. Opening session

#### Esperanza 1-4

#### 09.00 Opening of the forum, safety briefing, antitrust guidelines

Ms. Åsa EKDAHL, Head, Environment and Climate Change, worldsteel

#### 09.05 Welcome address

Dr. Edwin BASSON, Director General, worldsteel

#### 09.25 Keynote speech

Mr. Jeong-Woo CHOI, CEO, POSCO Holdings, worldsteel Chair

#### 09.35 Climate change and steel's reputation

Mr. Bradley FORDER, Head, Communications, worldsteel

#### 09.50 Climate Action at worldsteel

Ms. Åsa EKDAHL, Head, Environment and Climate Change, worldsteel

#### 10.30 Coffee break (Foyer + Aurora private)



### 2. Climate Policy Implementation

#### Esperanza 1-4

Chaired by Ms. Åsa EKDAHL, Head, Environment and Climate Change, worldsteel

The transition of the steel industry will look different in different parts of the world due to many local factors including policy and regulation. After a scene setting presentation, representatives from national and regional steel industry associations will discuss existing and expected climate-related government support structures for the transition and what impact these could have on the industry.

#### 11.00 Scene setting presentation - Heterogeneity of steel decarbonisation pathways

Ms. Cécile SEGUINEAUD, Analyst - Steel Decarbonisation, Organisation for Economic Co-operation and Development (OECD)

#### 11.30 Panel discussion

Mr. Philip BELL, President, Steel Manufacturers Association (SMA)

Mr. Kevin DEMPSEY, President and CEO, American Iron and Steel Institute (AISI)

Mr. Axel EGGERT, Director General, EUROFER

Mr. HUANG Dao, Deputy Secretary General, China Iron & Steel Association (CISA)

Mr. Alok SAHAY, Secretary General, Indian Steel Association (ISA)

Mr. Hiroyuki TEZUKA, Chair, Energy & Technology Committee, Japan Iron and Steel Federation (JISF)

#### 12.30 Lunch (Aurora private + Aurora + Diamond)



## Programme

Tuesday, 12 September 2023

### 3. Financing the Transition

#### Esperanza 1-4

Chaired by Ms. Soo Jung KIM, Head, Sustainability Communications, worldsteel

It is clear that the transition will demand huge investments both within the steel industry itself and in enabling infrastructure and raw material production. What will this look like and what are the options for finance? How can a level playing field be ensured and how to define what is fair?

#### 13.30 Scene setting presentation - The scale of the challenge

Mr. Kwasi AMPOFO, Head of Metals and Mining, Bloomberg New Energy Finance

#### 14.00 Panel discussion

Mr. Gabriel DE LAVAL, Head of Hydrogen Sector, Credit Agricole

Mr. Alfredo BANO LEAL, Senior Energy Specialist, Asia Development Bank (virtual)

Ms. Elizabeth DYKSTRA-MCCARTHY, Climate & Energy Policy Analyst, Climate Investment Funds

#### 15.00 Coffee break (Foyer + Aurora private)

### 4. Raw Material Requirements

#### Esperanza 1-4

Chaired by Dr. Baris ÇİFTÇİ, Director, Industry Analysis, worldsteel

The global steel industry's decarbonisation requires collaboration with partners in the steel value chain, from raw materials and energy supply to usage and recycling. In this session, we will address potential challenges in these areas and how we can help promote dialogue and establish green partnerships for a net-zero ambition.

#### 15.30 Scene setting presentation

Dr. Baris ÇİFTÇİ, Director, Industry Analysis, worldsteel

#### 16.00 Panel discussion

Mr. Paul BUTTERWORTH, Research Manager, CRU Sustainability

Mr. Rutger GYLLENRAM, Process Metallurgist - Kobilde & University of Stockholm

Mr. Mihir VORA, Principal Analyst, Wood Mackenzie

Mr. José NOLDIN, Chief Executive Officer, GravitHy

Mr. Jeremy JONES, Managing Partner, CIX Inc.

#### 17.00 Session ends



## Programme

### Tuesday, 12 September 2023 (evening)

- 18.15 Meet at Antwerp Zoo for an optional evening walking tour.
- 18.30 Aperitif & access to the Butterfly Garden
- 20.00 Gala Dinner hosted by worldsteel
- 22.00 Open Bar with Belgian Beers
- 23.00 Expected end of evening

We'll provide a guided tour of the zoo along with its beautiful, 19th century historical buildings. Meet in the zoo at 18.15 for an optional evening walking tour of the zoo before the Gala dinner.

Alternatively, aperitifs will be served from 18.30 and guests can mingle before dinner in the beautiful setting of the Butterfly Garden.



## Programme

Wednesday, 13 September 2023

### 5. Energy Availability

#### Esperanza 1-4

Chaired by Dr. Rizwan JANJUA, Head, Technology, worldsteel

Today, steelmaking is largely depending on coal, electricity and natural gas for its energy requirements. The transition will change the overall energy needs of the industry and the types of energy required. Although it is expected that coal and natural gas will remain important, hydrogen, renewable energy and biomass are expected to grow significantly. How much will be needed in the future and how can we ensure availability?

#### 09.00 Presentation

Dr. Valentin VOGL, Analyst, ARIA

#### 09.20 Presentation

Mr. Cyril DUCHANOIS, Vice President - OneB2B Solutions - Metals Segment, TotalEnergies

Mr. Christian KOULIC, Global Market Executive, TotalEnergies

#### 09.40 Presentation

Mr. Bruno GERRITS, Client Engagement Manager, Europe, Global CCS Institute

#### 10.00 Panel Q&A

With session speakers

#### 10.30 Coffee break

### 6. Steel Using Sectors

#### Esperanza 1-4

Chaired by Mr. Michel VAN HOEY, Senior Partner, McKinsey

The construction/infrastructure and automotive sectors are important steel using sectors. How are they expected to develop in the coming decades and what will this mean for the steel industry? For example, in relation to zero energy buildings and electric vehicles.

#### 11.00 Presentation: Construction

Dr. Olivier VASSART, Chief Executive Officer, Steligen

#### 11.20 Presentation: Automotive

Dr. Ingo OLSCHESKI, Head of Strategy & Consulting, FKA Germany

#### 11.40 Presentation: Energy

Mr. Marcel HILGERS, Head of Sales - Technical Customer Service - Communications, ThyssenKrupp AG

#### 12.00 Panel Q&A

With session speakers

#### 12.30 Lunch

## Programme

Wednesday, 13 September 2023

### 7. Chain of Custody

#### Esperanza 1-4

Chaired by Ms. Clare BROADBENT, Head, Sustainability, worldsteel

While companies move from proving actual savings of CO<sub>2</sub> during production to mass balance approaches, how can we ensure that the chain of custody remains clear and linked to what we offer to customers?

#### 13.30 Presentation

Mr. Matthew WENBAN-SMITH, Director, OneWorldStandards

#### 14.00 Panel discussion

Ms. Julia BRAMBLE, Head of Sustainability Modelling, Tata Steel

Mr. Hitoshi DOHNOMAE, General Manager, Nippon Steel Corporation

Mr. Frederik LEUS, Head of XCarb® Business Development, ArcelorMittal

Mr. Matthew WENBAN-SMITH, Director, OneWorldStandards

#### 15.00 Coffee break

### 8. Closing session

#### Esperanza 1-4

Chaired by Dr. Edwin BASSON, Director General, worldsteel

#### 15.30 Moderators' Panel

Summary of the session discussions, key take aways and next steps.

#### 16.45 Announcement of the Open Forum 2024

Ms. Åsa EKDAHL, Head, Environment and Climate Change, worldsteel

#### 17.00 Adjournment



## Climate Action

BREAKTHROUGH TECHNOLOGY  
CONFERENCE

worldsteel  
ASSOCIATION

2023



## Speakers (in order of appearance)



### Åsa EKDAHL

**Head, Environment and Climate Change, worldsteel**

Åsa has extensive experience in some of the most pressing challenges facing the industry including climate change, air and water quality, and co-product management. She is the secretary of worldsteel's Environment Committee (ECO) and leads engagement with other international organisations such as the UNFCCC and the OECD. She has worked at both Jernkontoret and EUROFER and has an MSc in environmental science from Gothenburg University.



### Edwin BASSON

**Director General, worldsteel**

Dr. Edwin Basson received his PhD in economics from Pretoria University. He taught economics at the same university from 1984 to 1990. After a few years in the banking industry, he joined the steel industry in 1994 as Chief Economist at Iscor Ltd. He joined Mittal Steel (now ArcelorMittal) in 2004 as a general manager responsible for marketing strategy. From 2006, until he joined worldsteel in 2011, he was Vice-President, Commercial Co-ordination, Marketing and Trade Policy at ArcelorMittal.



### Jeong-Woo CHOI

**CEO, POSCO Holdings**

Mr. Choi joined the steel industry in 1983 and has spent his entire professional career at POSCO. In 2006, he became the Head of the finance department, which began his lifelong commitment to strategic and financial planning both in POSCO and its affiliates. While serving as CFO from 2015, he successfully led group-wide restructuring efforts which laid the foundation for POSCO's next leap in the face of rapidly changing business environment. Mr. Choi became the CEO of POSCO in July 2018. He earned his BA in economics from Pusan National University in Busan.



### Bradley FORDER

**Head, Communications, worldsteel**

Bradley's role is to align and amplify worldsteel's and its members' key messages. He is secretary to worldsteel's Communications Committee (COMMCO) and he also oversees the work of the Digital Communications (DIGICOMM) Expert Group, which coordinates member activity in particular on social media.



### Cécile SEGUINEAUD

**Analyst - Steel Decarbonisation, OECD**

Cécile's current work includes aspects on policies, firms, technologies, and raw materials. Previously, she worked for more than 15 years in the industry and energy sectors, where she held project and management positions in a worldwide energy company, as well as consultancies on energy transition. She holds an MA in political sciences (energy/environment) from Sciences Po Paris, an MSc in energy systems from Mines Paris, an MSc in energy engineering from the Ecole Polytechnique Universitaire de Marseille, and an MSc in industrial engineering from Aix-Marseille University.



### Philip BELL

**President, Steel Manufacturers Association (SMA)**

Before leading SMA, Phil served as director of external communications and public affairs for Gerdau Long Steel North America based in Tampa, Florida. He is a 25-year industry veteran who developed an interest in the steel industry and manufacturing in the late 1980s while working in maintenance and operations at Elementis Chromium in Corpus Christi, Texas. He has held executive-level positions in operations, human resources and public affairs with Gerdau, the SGL Carbon Group, and Qualitech Steel Corp.

## Speakers (in order of appearance)



### Kevin DEMPSEY

**President and CEO, American Iron and Steel Association (AISI)**

Before taking up his current role, Kevin served as Senior Vice President of Public Policy and General Counsel to AISI, during which it achieved landmark policy successes on trade, tax and infrastructure, and successfully showcased the steel industry's sustainability accomplishments and steel innovations in the auto and construction markets.

Before joining AISI, Dempsey was a partner at Dewey & LeBoeuf where he led numerous international trade cases on behalf of American steel producers and other U.S. industries.



### Axel EGGERT

**Director General, EUROFER**

Axel has held his current post since 2014, having initially joined EUROFER in 2007 as Director of Public Affairs and Communication. A German national holding degrees from his studies of modern history, economics and law, he has extensive experience in European policymaking bodies, having worked 8 years in the European Parliament prior to his leadership at EUROFER. He is also Vice-President and Member of the Board of ESTEP, The European Steel Technology Platform.



### HUANG Dao

**Deputy Secretary General, China Iron and Steel Association (CISA)**

Mr. HUANG Dao worked in the former Ministry of Metallurgical Industry for nearly ten years since 1990. He joined CISA in 2001. He has been appointed by the Climate Department of the National Development and Reform Commission to serve as a Chinese steel expert in global cooperation with the (IEA), the Asia Pacific Clean Development and Climate Change Partnership Program (APP), and others.



### Alok SAHAY

**Secretary General, Indian Steel Association (ISA)**

Mr. Sahay is a steel industry veteran with nearly 4 decades of varied experience. He was trained at British Steel and was a visiting fellow at Queen Elizabeth House, Oxford University in 1999 - 2000. In his previous stint at the Steel Authority of India (SAIL), he was instrumental in bringing together R&D establishments of SAIL, the Defence Ministry, and other governmental units to ensure critical import substitution of products within defence manufacturing.



### Hiroyuki TEZUKA

**Chair, Energy & Technology Committee, Japan Iron and Steel Federation (JISF)**

Mr. Tezuka is Executive Fellow (Climate Change) at JFE Steel Corporation, and chairs the Energy and Technology Committee at the Japan Iron and Steel Federation (JISF). He chaired worldsteel's Environment Committee (ECO) from 2016 to 2019, and from March 2021 he started serving as the Vice Chair at the Environment & Energy Committee at OECD-BIAC (BUSINESS at OECD).



### Soo Jung KIM

**Head, Sustainability Communications, worldsteel**

Soo leads discussions on the sustainability material issues and stakeholder communications of the steel industry with the Sustainability Reporting Expert Group (SREG). She joined the association in 2008, working in communications during her first years and then moving onto sustainability in 2017. Before joining worldsteel, Soo worked for POSCO both in Korea and India where she was responsible for various areas of communications.

## Speakers (in order of appearance)



### Kwasi AMPOFO

**Head of Metals and Mining, Bloomberg New Energy Finance**

Kwasi's team's research covers industrial metals, rare-earth metals, battery metals and the pathways for miners to reach net-zero. Prior to BloombergNEF, he was a mining engineer at Anglo American and a management consultant at Nous Group in Australia. He completed his PhD in mineral economics at the University of Queensland, Australia. He is currently a non-executive director at Amira Global.



### Gabriel DE LAVAL

**Head of Hydrogen Sector, Crédit Agricole**

Gabriel joined CA-CIB in 2009 and spent most of his career in project finance as both an arranger and advisor for large metals and mining and industrial infrastructure transactions. He participated in the creation of the CA-CIB H2 working group in 2019 and was appointed Head of Hydrogen Sector in 2021. Since 2021, CA-CIB has successfully advised its clients on hydrogen-related transactions (on both debt and equity situations) across the entire value chain (from production to the various end-uses) with a specific focus on hydrogen used in industrial processes.



### Alfredo BANO LEAL

**Senior Energy Specialist, Asia Development Bank**

Alfredo has over 15 years of international experience, being directly involved in energy sector development across more than 20 Asian developing countries. Before joining ADB, he worked for the World Bank and other international organisations, and for a consulting firm in Spain. He is an electromechanical engineer, with a master's degree in electricity generation and power networks, and an MBA in corporate finance.



### Elizabeth DYKSTRA-McCARTHY

**Climate & Energy Policy Analyst, Climate Investment Funds**

Elizabeth leads the design of the Industrial Decarbonization Program. The Program was launched in 2022 and will begin implementation in 2024. She brings with her experience in policy advisory and program design from international organisations including the World Bank and the UN, and civil society. She obtained her MA from The Fletcher School of Law and Diplomacy and her undergraduate degree from the University of Oxford.



### Baris ÇİFTÇİ

**Director, Industry Analysis, worldsteel**

Baris is currently responsible for leading worldsteel's research activities on market fundamentals, business strategies and future prospects for the global steel, energy, raw materials and steel consuming industries. He has conducted international level economic and market studies on topics that stand at the top of the research agenda for global steel business over the last 10 years. He received a BSc in industrial engineering from the Middle East Technical University in Turkey and a PhD in economics from Tilburg University in the Netherlands.



### Paul BUTTERWORTH

**Research Manager, CRU Sustainability**

Paul moved to CRU's newly-formed sustainability team in August 2021 where he is working closely with clients and internally on carbon market and energy transition issues. Paul joined CRU in 2012 and, latterly, was responsible for CRU's analysis across the whole steel value chain. He has 33 years' experience in the steel industry, having worked for Tata Steel, Corus, British Steel and the International Iron and Steel Institute (now the World Steel Association) in a range of environmental, strategic, business development, planning and technical roles.

## Speakers (in order of appearance)



### Rutger GYLLENRAM

**Process Metallurgist, Kobilde and The University of Stockholm**

An entrepreneur with a strong focus on decarbonisation and resource conservation, Rutger is active in the sustainability debate, corporate raw material and process assessments, together with process development, ESG standardisation in ISO and CEN and finally teaching at KTH. He is a process metallurgist (MSc and Lic Tech) and an officer in the army reserve (Maj), based in Stockholm, Sweden. He is founder and CEO of Kobilde & Partners AB and co-founder and board member of FerroSilva AB.



### Mihir VORA

**Principal Analyst, Wood Mackenzie**

Mihir has more than 12 years of experience tracking bulk commodities such as steel, iron ore and coking coal. He covers steel and iron ore markets for East Asia, Southeast Asia, and the Middle East. His role covers developing thought-leading insights and analysis, long and short term commodity outlooks, client management, and product enhancements. He is passionate about the impact of the energy transition on bulk commodities. He leads Wood Mackenzie's bulk commodity decarbonisation practice.



### José NOLDIN

**Chief Executive Officer, GravitHy**

José is currently the CEO of GravitHy, an emerging frontrunner in the green iron industry, where he spearheads the company's overall development and oversees key projects in France and Finland. These projects are dedicated to producing 2 million tonnes each of H<sub>2</sub>-based DRI/HBI, making significant strides towards decarbonisation of steel production. He is an active member of societies such as ABM and AIST and holds several industry awards, including the Thomas Medal from the UK's Iron and Steel Society, ABM's Ironmaker of the Year and an AIST Presidential Citation.



### Jeremy JONES

**Managing Partner, CIX Inc.**

Jeremy is currently a founding partner and President of Continuous Improvement Experts (CIX). Previously he has held senior positions at Transfield Services, Tenova, WorleyParsons, Nupro Corporation, Bechtel Corporation, Florida Steel and Hatch Associates. Jeremy is frequently invited as a keynote speaker/instructor for international steel conferences. He is the primary author of the EAF steelmaking chapter for the updated Steelmaking volume "The Making Shaping and Treating of Steel". Jeremy has a BSc and MSc in chemical engineering from Queen's University, Canada.



### Rizwan JANJUA

**Head, Technology, worldsteel**

Rizwan joined the steel industry in 2002 and has been involved in process technology, energy, recycling, process yield and maintenance & reliability. He is Head of Technology at worldsteel and is responsible for leading its activities in the field of technology, energy efficiency, and benchmarking systems. He is secretary to the Technology Committee (TECO) and CO<sub>2</sub> Breakthrough Programme, and leads the Step Up programme, which aims to improve mill operations to efficiency levels commensurate with the steel industry's top performers.



### Valentin VOGL

**Analyst, ARIA**

Valentin works as a steel industry analyst at ARIA, an organisation doing research and analysis on climate and energy issues. Before joining ARIA, he completed his PhD thesis titled 'Steel Beyond Coal: Socio-Technical Change and the Emergent Politics of Steel Decarbonisation' at Lund University. His current research interests are the industrial politics of green steel and of coal industry decline. He has published widely on matters of steel decarbonisation and has been advising the steel industry work of the International Energy Agency, among others.



## Speakers (in order of appearance)



### Cyril DUCHANOIS

**Vice President - OneB2B Solutions - Metals Segment, TotalEnergies**

Cyril has more than 20 years of experience in various international companies including ArcelorMittal and Vallourec, where he held a variety of roles within steel and energy. He joined TotalEnergies in 2022, joining in the position of Vice-President within the newly created OneB2B Solutions Division, supporting the metals industry to decarbonise. He holds an MSc in chemicals and is a graduate of business schools including EM Lyon & INSEAD, both in France.



### Christian KOULIC

**Global Market Executive, TotalEnergies**

Christian started his career at TotalEnergies in 2003 and has held a variety of roles within petrochemicals and refining (corporate strategy, business development, planning, sustainable development). He was a member of the managing committee of the Polymers Europe & Orient division in charge of packaging before being appointed Global Market Executive within the OneB2B Solutions division. Christian is a graduate of the University of Liège (Belgium) and the University of Toronto (Canada) and holds a PhD in polymer science.



### Bruno GERRITS

**Client Engagement Manager, Europe, Global CCS Institute**

Covering a large and diverse region, Bruno's team works with members, policy makers and stakeholders across many countries and industries. His ambition is to progress CCS solutions in Europe as part of a timely, cost-efficient and just transition. As a connector, his strategy to achieve this is to work with stakeholders to understand their role in the value chain and what they are seeking to achieve, support them in finding the information and people who can get them there, and build a community with them to further foster collaboration.



### Michel VAN HOEY

**Senior Partner, McKinsey**

Michel is a senior partner in McKinsey's Luxembourg office, and serves companies in the metals industry. Since joining McKinsey in 2002, he has been working with steelmakers on large scale performance transformations, including cost and commercial programmes, digital transformations, and sustainability transformations. He has worked with steel players across all continents. Michel is also leading the Global Materials Insights Group, which is McKinsey's global research and expert consultant organisation for the materials sectors.



### Olivier VASSART

**Chief Executive Officer, Steligen**

Prof. Dr. Olivier Vassart has been working at ArcelorMittal since 2002 when he joined the R&D team in Luxembourg. He held several roles in ArcelorMittal Global R&D, specifically in the field of applied construction research and development. In 2015, he joined the leadership team of ArcelorMittal Global R&D, taking the responsibility for the portfolios dedicated to construction, infrastructure and long products. Since November 2018, Olivier Vassart has been the CEO of Steligen, the new business division of ArcelorMittal devoted to construction solutions.



### Ingo OLSCHESKI

**Head of Strategy & Consulting, FKA Germany**

Ingo has been Head of Strategy and Consulting at FKA GmbH since 2010, where he advises on the mobility trends that are developing future vehicle concepts in terms of autonomous driving, safety and efficiency. He is responsible for the development and update of an integrated master plan to establish, spread and accelerate the whole electric mobility ecosystem (vehicles, charging infrastructure, business models) in North Rhine-Westphalia. He studied economics, majoring in international accounting and business law at RWTH Aachen University, Germany.

## Speakers (in order of appearance)



### Marcel HILGERS

**Head of Sales - Technical Customer Service - Communications, Thyssenkrupp AG**

With over 20 years of experience in global steel business, and more than 10 years serving the transformer industry, Marcel works intensely on the green transformation of both, steel and transformers. He leads the sales, technical customer engineering and communications team at thyssenkrupp Electrical Steel. His key priority today is to inform the electricity industry about options to decarbonise the grid.



### Clare BROADBENT

**Head, Sustainability, worldsteel**

Clare leads the sustainability programme at worldsteel, focusing on issues throughout the full value chain and representing the industry in international fora, specifically the many initiatives aiming to build demand for low-carbon emission steel. Clare began her career with British Steel in 2000 after graduating with a first-class honours degree in environmental engineering. She worked at EUROFER for 2 years on integrated product policy before moving to worldsteel in 2007, leading the industry's LCA programme.



### Matthew WENBAN-SMITH

**Director, OneWorldStandards**

Matthew has played a leading role many global sustainability standards programmes over the last thirty years, ranging from the Forest Stewardship Council (FSC) to the Alliance for Water Stewardship (AWS). He supported the establishment of ResponsibleSteel and led the writing of ResponsibleSteel's international standard in relation to greenhouse gas emissions, recognised by the IEA as being "at the forefront among the shortlist of methodologies identified with respect to fitness for purpose for a net zero steel sector." He is currently supporting the development of ResponsibleSteel's chain of custody system.



### Frederik LEUS

**Head of XCarb® Business Development, ArcelorMittal**

Frederik joined ArcelorMittal in 2000 for market development and research in Ghent, Belgium. In 2013, he moved to China, to take up the role of Director Sales & Customer Technical Support for VAMA (JV). In October 2016, Frederik moved back to Europe to join the CMO Industry North team, before becoming in 2021 Head of Segment & Product Sales Steering, Technical Commercial Team Steering and Head of Order Management Platforms, Europe.



### Julia BRAMBLE

**Head of Sustainability Modelling, Tata Steel**

Julia has almost 30 years of experience in the steel industry. In August 2021 she moved from Director Sales and Operations Planning into Tata Steel Nederland Sustainability where she took on responsibility for Life Cycle Assessments, product carbon data reporting and the carbon bank, which is an essential element of the insetting scheme which Tata Steel Nederland operates as part of its commercial Zeremis® Carbon Lite offer.



### Hitoshi DOHNOMAE

**General Manager, Nippon Steel Corporation**

Dr. Dohnomae has been General Manager, Environmental Planning Division of Nippon Steel Corporation and Chair of the International Environmental Strategic Committee of the Japan Iron and Steel Federation since 2019. He joined Nippon Steel Corporation and was assigned to a researcher in the Advanced Technology Research Laboratories in 1988. He was Head of the Environment Research Laboratory in 2015. Since 2019, he has been in charge of global environmental affairs.

## World Steel Association

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