

# SUSTAINABLE INDUSTRIAL MANUFACTURING

28-29 JUNE 2022, BRUSSELS, BELGIUM



## CONFERENCE PROGRAMME

### JOIN THE LEADERS, SHAPE THE SOLUTION

Hosting leaders from the worlds of industry, innovation, science, government and investment, the programme at SIM Europe is packed with experts ready to debate and demonstrate how manufacturers in hard-to-abate sectors can boost productivity, efficiency and margins whilst transitioning towards net zero.

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## INTRODUCING OUR KEYNOTE SPEAKERS



**Zakia Khattabi**

Minister of the Climate, The Environment, Sustainable Development and Green Deal, Belgium



**Anthony Hobley**

Executive Director, Mission Possible Partnership



**Johan Lundén**

Senior Vice President Projects and Product Strategy Office (PPSO) for Volvo Group Truck Technology



**Lord Barker of Battle**

Executive Chairman, EN+ Group and former UK Energy and Climate Change Minister



**Lord Adair Turner**

Chair, Energy Transitions Commission

## CONFERENCE STREAMS EXPLAINED

**ENERGY** The Energy conference will focus on how industrial sectors are working to harness energy more efficiently and present new technologies that can assist in energy transitions, when it comes to intensive manufacturing processes. Sessions will focus on the investments needed to finance the energy transition, real-life industry projects and applied solutions, as well as a look at the hype behind Hydrogen.

**EVOLVE** The Evolve conference will introduce manufacturers to sustainable factory solutions and focus on emission and waste reduction technologies, all aimed at making factories more efficient. Sessions will focus on enhancing productivity through machine learning, the role of CCU's, and case studies from manufacturers already seeing the benefits of major efficiency gains.

**ENVIRONMENT** Building a Circular Economy is key to a sustainable supply chain in any industry. The Environment conference will highlight the importance of recycling and circular manufacturing solutions, as well as offer attendees advice on building a 'green' framework they can implement, with the support of Associations and advisors. Sessions will focus on how to close the recycling loop, the demand for low carbon products and understanding policies for material efficiency.

# MAIN AUDITORIUM

## DAY ONE - 28 JUNE 2022

09:00 - 09:05	<b>WELCOME</b>
09:05 - 09:25	<b>KEYNOTE</b> Anthony Hoble, Executive Director, Mission Possible Partnership
09:25 - 09:45	<b>KEYNOTE</b> Johan Lundén, Senior Vice President Projects and Product Strategy Office PPSO) for Volvo Group Truck Technology
09:45 - 10:05	<b>KEYNOTE</b> Lord Barker of Battle, Executive Chairman, EN+ Group and former UK Energy and Climate Change Minister
10:05 - 10:25	<b>KEYNOTE</b> Lord Adair Turner, Chair, Energy Transitions Commission
10:25–11:00	<b>Morning Refreshments and Networking</b>
11:00 - 11:45	<b>Business Not As Usual: How Can Industrials Get a Head Start On The Race To Net Zero?</b> Decarbonising will take time and money. It means rethinking production processes and rebuilding or retrofitting existing sites. Strategies must consider short-term actions and long-term solutions for transformation that keeps all stakeholders on board. This session will bring together leaders from across the hard-to-abate sectors to explore how industrials should systematically approach lowering their carbon emissions with a particular focus on scope 1 and 2 emissions? How can companies identify the measures to deploy to ensure both environmental and economic sustainability? <ul style="list-style-type: none"><li>■ Miles Prosser, Secretary General, International Aluminium Institute</li><li>■ Philippe Bastien, Regional President for Europe, Architectural Glass Europe &amp; Americas Company of AGC Glass Europe</li><li>■ Ian Riley, CEO, World Cement Association</li><li>■ Gary Cafe, Director - Climate Consultancy Practice, Schneider Electric Energy &amp; Sustainability Services</li><li>■ Mahmood Daylami, Secretary General, Gulf Aluminium Council</li></ul>
11:50 - 12:05	<b>Spotlight Reserved for Christina Sobfeldt Jahn, Head of PPA Origination &amp; Execution, Ørsted</b> 
12:10 - 12:35	<b>Power Purchase Agreements inside-out: how can they be applied and what are the benefits for industrial manufacturing?</b> Hosted by Altenex Energy  Many industrial manufacturers are new to renewable energy or have yet to engage fully with Power Purchase Agreements, or PPAs. In this panel, we explore some of the lessons that have been learnt from other sectors using this tool to decarbonize their portfolio and discuss how the PPAs can be applied to industrial manufacturing most advantageously. The truth is a good PPA can not only solve many sustainability challenges faced by the industries but also bring long-term financial benefits, and in this session, we will show you how.

# MAIN AUDITORIUM

## DAY ONE - 28 JUNE 2022

12:55 - 13:45 **Lunch and Networking**

13:45 - 14:40

### **Demand Side Response - The Why, The How and The When**

Our power systems are rapidly undergoing the most fundamental changes in their 135-year history. The increase in pace required to meet COP 26 CO2 reductions, means quite possibly that no one on the planet will be left unaffected. The clock is ticking, but how long have we got to reimagine our production processes so we can take advantage of the future.

Expert speakers will consider why decarbonisation of our power systems can't be achieved without industrial sized Demand Side Response (DSR) buffering supply and demand, why new energy-pricing paradigm's will favour large flexible electricity consumers and how industry can flex its energy use so it can become both a consumer and a generator of electricity.

- Geoff Matthews, Modulation Specialist, EnergyFlex Pty Ltd
- Dr Martin Iffert, Co-Founder and CEO, EP ENERGY POOL GmbH

15:00 - 15:30 **Afternoon Refreshments and Networking**

15:30 - 15:40

### **The creation of a European hydrogen economy**

Johannes Trüby, Energy Markets & Modelling Practice, Deloitte France

15:40 - 16:35

### **The Hydrogen Debate**

Is the current wave of hype about hydrogen driven by the fossil fuel industry reinventing their businesses or is it the only viable pathway to decarbonise these hard-to-abate sectors?

Two teams of experts will address the promises and challenges of green hydrogen for heavy industry in this exclusive debate that will sort fact from the fiction.

- Moderator: François Paquet, Impact director, Renewable Hydrogen Coalition
- Filip Smeets, Senior Vice President Nel Electrolyser Division, Nel Hydrogen
- Caroline Hillegeer, Chief Commercial Officer of the Hydrogen Business Unit, Engie
- Francois Gilles, Innovation Finance Advisory, European Investment Bank
- Axel Eggert, Director General, The European Steel, Association (EUROFER)
- Pinakin Chaubal, Vice President and Group CTO, ArcelorMittal
- Dr Peter Williams, Group Technology Director and Head of Investor Relations, INEOS

16:40 - 17:00 **Spotlight Available for Sponsorship**

17:00 - 17:45

### **Cutting Industrial Heat Emissions for Clean Growth**

Whilst the production of steel, glass, cement and chemicals each involves distinct processes, they all demand continuous, high temperature heat, which today is almost exclusively achieved by burning fossil fuels. How industries generate high temperature in heavy industry will have to change to reach zero emissions. This session will explore the benefits, barriers and applications of technologies and options with real world examples including carbon neutral electrification, green hydrogen, biomass, concentrated solar power and carbon capture and storage (CCS) or usage (CCU). What are the opportunities for industries to collaborate and accelerate change?

- Peter Handley, Head of the Energy-Intensive Industries and Raw Materials Unit, Directorate-General for Growth, European Commission
- Chris Dye, Category Manager – Global Renewable Energy, NSG Pilkington
- Jan Kurrelvink, Energy Projects Director Development and Projects Investments, E.ON
- Sander Gersen Ph.D, Principal Specialist Combustion Processes, DNV

17:45 **End of Day One Conference**

09:00 - 09:15

### KEYNOTE

Zakia Khattabi, Minister of the Climate, The Environment, Sustainable Development and Green Deal, Belgium (TBC)

09:20 - 10:00



### Global Cooperation for Green Industrial Transitions

*What is it? Why is it important? And what are governments and stakeholders doing about it?*

- Anne-Claire Howard, CEO, ResponsibleSteel
- Dr Gokce Mete, Head of Secretariat of the Leadership Group for the Industry Transition (LeadIT) hosted by the Stockholm Environment Institute (SEI)
- Oscar Verheijen, Chairman, GlassTrend Board & Technology & Innovation Manager for Sustainable Glass Production, CelSian
- Jerome Lucaes, Marketing Director, Sustainability, RUSAL Marketing GmbH
- Dr Christoph Jaekel, Head of Corporate Sustainability, BASF

10:05 - 10:30

### Cross-cutting company roadmap to decarbonisation

In this session Linde will share their experiences on rising to the challenge of decarbonisation as well as the differences and similarities of strategies and approach between the various sectors within the company.

- Shrikar Chakravarti, Associate Director Global Commercialization, Linde plc
- Joachim von Schéele, Director Global Commercialization, Linde plc

10:30 - 11:00

### Morning Refreshments and Networking

11:00 - 11:50

### Financing The Energy Transition: Policies and Actions for Scaling Investment

The decarbonisation of heavy industry is going to require significant investment and innovative financing. Whilst sustainable investment has rapidly increased, major barriers need to be tackled to scale up and speed up low carbon investment in hard to abate sectors. In this panel a group of experts will look at tangible and proven solutions for unlocking capital:

*Policies for creating a level playing field and enabling low carbon materials to compete*

*Enhancing dialogue between industry and financiers*

*The role of public and private finance*

*What finance mechanisms are needed to make projects feasible?*

- Derek Baraldi, Head of Sustainable Finance and Investing, Head of Banking and Capital Markets Industry, World Economic Forum LLC
- Cédric de Meeûs, Vice-President, Group Public Affairs & Government Relations, Holcim
- Sean Kidney, CEO, Climate Bonds
- Speaker TBC, The European Bank for Reconstruction and Development (EBRD)
- Mike Peirce, Director of Corporate Partnerships, Climate Group

11:50 - 12:20



### **Blockchain: The key to the traceability and trustworthiness of sustainable manufacturing**

Hosted by Circularise

Today, global supply chains require new levels of visibility as companies create new products, add new partners, expand into new regions, and try to meet ever evolving regulatory and customer demands.

Traceability and transparency are becoming imperative for business success. From increased security to improved communication of data related to sustainability and ethical sourcing, supply chain visibility helps companies to better understand opportunities and respond to risks in their complex, multi-tiered, heavily regulated supply chains.

In a panel organised by Circularise, key stakeholders from the automotive manufacturing will come together to discuss the way forward in “Tracing sustainable manufacturing using blockchain” bringing forward a practical example of their collaborative project in the automotive industry.

12:25 - 12:40

### **Special Focus**

This session will showcase real-life industry projects and applied solutions that are driving the low-carbon transition in the aluminium sector. Understand how industry peers and leaders are approaching the deployment challenge.

- Kathrine Fog, Senior Vice President, Energy Strategy & Policy, Norsk Hydro

12:45 - 13:00

**Spotlight Available for Sponsorship**

13:00 - 14:00

**Lunch and Networking**

14:00 - 15:00

### **The Energy Innovation Challenge - Fast Tracking Clean Energy Technology For Sustainable Industrial Manufacturing**

Clean energy technology innovation is critical if Europe and other regions are to decarbonise heavy industries. At the moment the key solutions for achieving net zero goals in heavy industry sectors are known, but they are at early stages of development. Industrial applications of technologies such as carbon capture utilisation and storage (CCUS) and hydrogen are, in most cases, not yet commercially available. If that is to change researchers, investors, entrepreneurs, corporations and civil society need to work together to accelerate technology progress. What policy measures and incentives are required? What's the role of business in strengthening technology transfer and best practice sharing? How can companies foster an innovative entrepreneurial culture to seize opportunities ahead of their competitors?

- Moderator: Joachim von Schéele, Director Global Commercialization, Linde plc
- Dolf Gielen, Director, IRENA Innovation and Technology Centre
- Andrew Purvis, Director Safety Environment and Technology, World Steel Association
- Irina Gorbounova, General Manager of Mergers and Acquisitions, ArcelorMittal
- Araceli Fernandez, Head of Technology Innovation Unit, International Energy Agency

15:00

**End of Conference**

11:00 - 11:45



### What Will it Take to Close the Recycling Loop?

Hosted by Circulor

In an ideal industrial production future, recycled materials will replace all virgin materials and we will design and create products that are easily separated, collected and recycled. The reality is that the details of Europe's industrial transition to a circular and low-carbon economy are only just emerging, and the dream of "full circularity" is a long way off. These experts will explore what it will take to move from vision to reality.

- Moderator: Geoff Scamans, Chief Scientific Officer, Innoval Technology Limited
- Henning Bloech, Global Director Sustainable Solutions, Mitsubishi Chemical Advanced Materials
- Suzanne Lindsay-Walker, Vice President - Sustainability Novelis
- Rob van der Meer, Industrial Policy Director, CEMBUREAU – The European Cement Association
- Stientje van Veldhoven, Vice President and Regional Director for Europe, World Resources Institute (WRI)

11:50 - 12:30

### Industrial Clusters: Harnessing the power of Industrial Symbiosis to Maximise Value for the Economy, the Environment and Society

Europe is home to over 3,000 industrial clusters. Whilst these co-located plants and factories account for 20% of the region's emissions, by creating integrated energy systems they can also play a major role in helping countries achieve their net-zero ambitions as well as improve outcomes for the economy, society. But what are the business models for industrial symbiosis to work and what measures and supportive policies are needed to make solutions cost-competitive?

- Moderator: Rachel Lombardi, International Synergies
- Dr Ulla Engelmann, Acting Director for Networks and Governance, Directorate General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW), European Commission
- Lisbeth Randers, Head of Secretariat, Kalundborg Symbiosis
- Dr Greet Van Eetvelde, Head of Energy & Innovation, INEOS Group AG and Professor of Energy & Cluster Management, Ghent University
- Dr Violeta Martin, R&D Project Manager, Fundación CIRCE

12:30 - 13:45

Lunch and Networking

13:45 - 14:35

### Evolve Case Studies

These sessions will showcase the best available technologies and approaches that are giving companies major efficiency gains. Hear from companies from across the hard-to-abate sectors including chemicals, steel, aluminium, cement and glass on how they are leveraging innovations across the value chain to enhance productivity, boost margins and lower environmental impacts including CO2.

#### *Steels2Chemicals Project*

- Geoffrey Schouten, Program Manager Circular Carbon, Institute for Sustainable Process Technology (ISPT)

#### *Industrial symbiosis: Case studies from the European aluminium industry*

- Christian Leroy, Senior Consultant Innovation & LCA, Head of Innovation Hub, European Aluminium
- Dr. Eric van Dijk, Senior Scientist Specialist Sustainable Technologies for Industrial Processes (STIP) and Project Co-ordinator INITIATE, TNO

14:30 - 14:45

**KANTHAL**

### Electrification of heating processes - the road towards a fossil-free industry

- Dilip Chandrasekaran, Head of R&D and Technology, Kanthal

14:45 - 15:00

**cority**

### Spotlight Reserved for Cority

15:00 - 15:30

### Afternoon Refreshments and Networking

15:30 - 16:30

**S1SEVEN**  
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### Lightning Talks: Driving Demand for Low Carbon Materials and Products

How are stakeholders in the steel, cement, aluminium, glass and chemicals sectors developing common labelling standards and markets for low-carbon products? These sharp focused talks will help your business future proof and prepare for the low-carbon future.

- Moderator: Melanie Williams, CEO, Melanie Williams Consulting
- Jean-Marc Moulin, Director of Sustainability - Extruded Solutions, Norsk Hydro
- Hilde Kallevig, VP Head of Brand and Marketing, Norsk Hydro
- Jared Braslawsky, Co-Founder and Managing Director, the International REC Standard
- Stefan Grüll, CEO and Co-Founder, S1Seven GmbH
- Anton Bazulev, Director, VP, International Affairs, RUSAL

16:30 - 17:00

### Industrial Waste Heat: Wasted Opportunity to Added Value

Waste heat recovery, storage, upgrading and heat to power conversion could increase the efficiency of countless industrial processes. This rapid-fire session will present the latest and upcoming solutions for waste heat that cut CO2 emissions and lower operating costs for greater competitiveness.

- Zenaida Mourão, Project Coordinator, Institute of Science and Innovation in Mechanical and Industrial Engineering (INEGI)
- Oliver Milling, Principal Researcher in the Industrial Decarbonisation Group, Materials Processing Institute

17:05 - 17:45

### The Role of CCUS in Heavy Industry's Transition to Net Zero

According to the IEA reaching net zero will be virtually impossible with carbon capture, utilisation and storage. Yet CCUS is at early stage of development in the cement and steel sectors. What steps need to be taken by government and industry to drive CCUS development and deployment?

- Moderator: Lina Strandvåg Nagell, Sustainable Finance & Economy Manager, Bellona
- Lee Beck, International Director for Carbon Capture, Clean Air Task Force
- Dr Marlene Arens, Manager Associations Europe & Global, Heidelberg Cement Group
- Prof Dr ir Earl Goetheer, Principal Scientist, TNO and professor, TU Delft

17:45

### End of Day One Conference



09:00 - 09:40



### Panel Talk: The Green and Digital 'Twin' Transition

The digitalization of hard-to-abate production sectors has the potential for continuous improvements regarding costs, quality, energy consumption and sustainability performance.

This panel of experts will discuss the current and upcoming developments in digital transformation to reach net zero from artificial intelligence, machine learning, energy data to demand response. What are the challenges that need to be addressed and how do businesses need to adapt their operating model from organizational structures, capabilities, infrastructure and processes in order to fully realise the opportunities.

- Fokion Tasoulas, Group Engineering & Technology Executive Director, Titan Cement
- Pablo Diaz Rego, Digital Transformation Manager Europe, Alcoa
- Juliana Bruwer, Solution Management and Sustainability Expert, Mill Products and Mining Industry Business Unit, SAP

09:45 - 10:00

### Case study: Application of AI and machine learning

- Boris Voskresenskii, CEO, Severstal Digital and Chief Digital Officer, Severstal

10:00 - 10:15

### Claudia Canevari, Head of Unit for Energy Efficiency, DG Energy, European Commission

10:15 - 10:35

### Spotlight Reserved for o9 Solutions



10:35 - 11:00

### Refreshments and Networking

11:00 - 11:40

### All About Policy

Two years ago, the European Commission unveiled its new Industrial Strategy with measures to support industrial decarbonisation and Circular Economy Action Plan to help Europe transition to a more resilient and less wasteful economy. As the plans are translated into legislation and targets, come with your questions for experts who can help you navigate what you need to know about the EU's next steps, policies and measures for advancing material efficiency in the cement, steel, aluminium, chemicals and glass sectors.

- Moderator: Dr. Roman Stiftner, Managing Director, Austrian Mining and Steel Association
- Ilhan Savut, Lead Analyst - Circular Economy, BloombergNEF
- Dr. Max Åhman, Associate Professor in Environmental and Energy Systems Studies at Lund University
- Dr. Jörg Rothermel, Managing Director Energy, Climate Protection, Raw Materials German Chemical Industry Association (VCI)
- Martin Adams, Head of Health and Sustainable Resource Use (HSR), European Environment Agency (EEA)

11:45 - 12:00

### How to Transform Supply Chains to Reduce End-Use emissions

How can companies tackle scope 3 emissions?

Hear the latest thinking about joint investments and alliances across the value chain. Find out what incentives are needed to get buy-in and multi-partner solutions for zero carbon future supply chains. This is your chance to ask the questions, learn and collaborate with your industry peers.

- Susanne Naevermo-Sand, Head of Sustainability and Communication, Celsa Nordic

12:00 - 12:20

**SINAI**

### The Foundation for Achieving Net Zero

- Maria Fujihara, Founder & CEO, SINAI Technologies

12:20 - 12:40

### Ask an Expert: The Future of Carbon Pricing

Led by an industry leader, this session is an opportunity to learn, connect and ask questions related to carbon pricing in the hard-to-abate manufacturing industries.

- Stuart Evans, Principal, Vivid Economics

12:40- 13:00

**Speaker TBC**

13:00- 14:00

**Lunch and Networking**

14:00 - 14:15

### From Reforming to Transforming Foundation Industries with Circular Economy Strategies

For sustainability it is essential that average resource use per person is hugely reduced, for example in the UK it has to be halved. This presents a huge challenge for foundation industries and their supply chains. Foundation industries must reinvent themselves with new circular business models.

- Dr Anne Velenturf, Senior Research Fellow in Circular Economy, University of Leeds and Technical Programme Manager, TransFIRE – the Transforming Foundation Industries Research and Innovation Hub

14:15 - 15:00

### Companies Leading The Way with 'Circular' Approaches and Processes

Early-adopter companies are embracing circular economy principles. How are end buyers collaborating with industry to consider circularity in design, manufacture circular products and use materials and resources more efficiently? And what are the lessons learned around putting these approaches into action?

- Babette Pettersen, VP Europe, LanzaTech
- Gill Scheltjens, Co-Founder and CEO, D-CRBN
- Bettina Siggelkow, Head of Sustainability Affairs, Clariant

15:00

**End of Conference**

# ROUNDTABLE DISCUSSION PROGRAMME

## SPEAKER HOSTED ROUNDTABLES

Interactive roundtable sessions offer a unique opportunity to come together with your peers to share best practice and develop solutions to critical challenges facing the hard-to-abate manufacturing sectors. Each roundtable session lasts for 45 minutes, and delegates may attend up to 2 roundtables.

### ROUNDTABLE 1

#### Race to the Smart Bottle

Smart technology is making the world a more efficient, more accountable, and more sustainable place. The glass sector is leading the way, seeing incredible advances in production and supply chain methods. Here, we explore the concept of a 'Smart Bottle', showcasing areas of innovation and collaboration and examining emerging technologies that are shaping the future of packaging.

Hosted by Encirc



### ROUNDTABLE 2

#### Reserved for S1Seven GmbH



### ROUNDTABLE 3

#### Reserved for Circularise



### ROUNDTABLE 4

The challenges ahead of CRMs in a green economy and a reflection on the current supply crisis for some materials such as magnesium



Hosted by Dr Martin Tauber, European Representative, International Magnesium Association and President, Critical Raw Material Alliance (CRM-A)



# GET INVOLVED TODAY

## ATTEND

Early bird tickets available from just £485 with the early bird rate. Book online at [www.SustainableIndustrialManufacturing.com](http://www.SustainableIndustrialManufacturing.com)

## SPEAK

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