



The research road to net-zero industry

The Science|Business Green Deal & Climate days

18 & 19 September 2023
Brussels



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The European Green Deal is arguably the biggest ambition of the current European Commission and EU leaders agree on the need to accelerate Europe's transition to a net-zero industry. While the EU agreed to invest part of its 1.8 trillion budget euros into accelerating the transition to a more sustainable economy, it needs to get better and faster at moving tech ideas towards the marketplace. Several related questions arise, among which: How Europe's climate policies and tools can help set the right research and investment priorities to help make it happen? What are the key priorities for climate-related research in the short and medium terms, and how can EU funding support and leverage the success of green tech incubators, entrepreneurs and international cooperation? What is the responsibility of large corporations and private investments in R&I in the process? And how can Europe reposition value chains to obtain the resources it lacks while avoiding the creation of new dependencies?

On 18 and 19 September, Science|Business is gathering experts from industry, research and policy to assess the state of play in the implementation of key aspects of the plan, especially the Net-Zero Industry Act, as well as the research needed to make it happen and other challenges ahead.

September 18

13.00 Networking Lunch

14:00 Welcome remarks - **Maryline Fiaschi**, CEO, Science|Business

14:05 Opening Plenary – Investing in Europe's potential for a net-zero technology ecosystem

- **Christian Ehler**, Member and Rapporteur on the Net-Zero industry Act, European Parliament
- **Ann Mettler**, Vice President, Europe, Breakthrough Energy
- **Maive Rute**, Deputy Director-General, DG GROW, European Commission
- **Tim Green**, Academic Leader for Sustainability, Professor, Imperial College London

Moderator: Maryline Fiaschi, CEO, Science|Business

15:00 Coffee break

15:30 Parallel Sessions

1/ How the EU can build up its innovation ecosystem to reach net-zero

An expert roundtable support by the ATTRACT project

Featured guests:

- **Hélène Chraye**, Head of Unit, Clean Energy Transition, DG RTD, European Commission
- **Doris Schroeker**, Head of Unit, Industrial Research, Innovation and Investment Agendas, DG RTD, European Commission
- **Mar Capeans**, Head of the Site and Civil Engineering Department, CERN
- **Muriel Attané**, Secretary General, EARTO
- **Andy Kerr**, Chief Strategy Officer, Climate KIC
- **Saija Hollmén**, Professor, Humanitarian Architecture, Aalto University
- **Wim de Kinderen**, Programme Director European Affairs, Brainport Eindhoven
- **Pedro Rocha**, Executive Director, PRODUTECH Cluster and PRODUTECH DIH
- **Marc Mawhinney**, Lead Advisor, Innovation and Competitiveness Department, European Investment Bank
- **Francesco Molica**, Economic and Policy Analyst, Joint Research Centre, European Commission
- **Louise Drogoul**, Advisor, Innovation & Sustainability, CESAER

Moderator: Ricardo Miguéis, Head of the INESC Brussels HUB

2/ Circularity and strategic materials: How can new approaches help us achieve net-zero? - Panel discussion

- Aurel Ciobanu-Dordea, Director, Circular Economy, DG ENV, European Commission
- Ignacio Calleja, Senior Advisor, Circular Economy, EIT Raw Materials
- Silvestre Pinho, Professor in Mechanics and Composites, Imperial College London
- Dario Croccolo, Full Professor & Head, Interdepartmental Centre for Industrial Research, University of Bologna
- Elena Gaura, Professor of Pervasive Computing, Director of Research Institute for Data Science and Emerging Technologies, Coventry University
- Ana Maria Bravo, Director, Public Affairs, International Flavors & Fragrances

Moderator: David Matthews, International Editor, Science|Business

3/ Net-zero in the city: Fostering sustainable urban spaces - Expert Roundtable

- Paloma Aba Garrote, Director, European Climate, Infrastructure and Environment Executive Agency (CINEA), European Commission
- Holger Robrecht, Deputy European Director, Local Governments for Sustainability
- Gareth Macnaughton, Director of Innovation, EIT Urban Mobility
- David Holden, European Coordinator, Technology Division, CEA
- Rachel Martin, Global Director, Sustainability, Elsevier
- Denis Bonvillain, Director, Head of EU Affairs, Veolia Environment
- Ted Veldkamp, Professor of Applied Sciences, Amsterdam University of Applied Sciences
- Markus Kröll, Head of Department, Fraunhofer Institute for Manufacturing Engineering and Automation
- Paul Cartuyvels, Executive Director, BOUYGUES Europe; President; European Construction Technology
- Antonio Marcomini, Vice-Rector, Ca' Foscari University of Venice
- Stanley Blessings Nyanyirai, Director, Strategy and Research Development, City of Tshwane Metropolitan Municipality

Moderator: Raffaele Guerini, Policy Officer, Science|Business

17:00 Networking Cocktail - Supported by Quantum Delta

Welcoming remarks, Ulrich Mans, Strategic Partnerships Lead, Quantum Delta

September 19

8:30 Breakfast

9:30 Parallel Panels

1/ Navigating towards a more sustainable future for aviation

Supported by GE Aerospace

- Rosalinde van der Vlies, Director, Clean Planet, DG RTD, European Commission
- Damien Meadows, Legal and Political Advisor, DG CLIMA, European Commission
- Riccardo Procacci, CEO, Avio Aero; Vice President, GE Aerospace
- Michael May, Head of Business Unit Aviation, Fraunhofer Institute for High-Speed Dynamics, Ernst-Mach-Institut

Moderator: Brandon Mitchener, Senior Advisor, Science|Business

2/ Clean capital: What does the future hold for green tech investment?

- Irina Gorbounova, Head of XCarb Innovation Fund, ArcelorMittal
- Tara Lindstedt, Board Member, Chief Development Officer, InoBat
- Stéphane Ouaki, Head of Department, European Innovation Council, EISMEA, European Commission
- Marc Mawhinney, Head of Sustainable & Digital Industries, European Investment Bank

Moderator: Simon Pickard, Network Director, Science|Business

10:30 Coffee break

11:00 It takes a (green) village: New ideas to move energy innovations from lab to market

A session featuring inspirational concepts to accelerate the transition towards net-zero, from labs to market.

Introduced by:

- Mar Capeans, Head of the Site and Civil Engineering Department, CERN

Moderator: Florin Zubascu, Executive Editor, Science|Business

11:30 Keynote Speech - Joyeeta Gupta, Full Professor of Environment and Development in the Global South, University of Amsterdam

11:45 Closing Plenary - Powering green tech: the importance of climate policy for tech value chains

- Signe Ratso, Deputy-Director General at DG RTD, European Commission
- Joyeeta Gupta, Full Professor of Environment and Development in the Global South, University of Amsterdam
- Mar Capeans, Head of the Site and Civil Engineering Department, CERN
- Yves Desbazeille, Director General, Nucleareurope

Moderator: Florin Zubascu, Executive Editor, Science|Business

12:25 Concluding remarks

12:30 Networking Lunch

Investing in Europe's potential for a net-zero technology ecosystem (Opening Plenary)

EU leaders agree on the need to accelerate Europe's transition to a net-zero economy, and are beginning to converge on the outlines of a new, decarbonised energy system. This opening plenary session will discuss whether Europe is on the right tracks and where research funding and investments should go in priority.

CHRISTIAN EHLER, Member, European Parliament



Christian Ehler has been member of the European Parliament since 2004 and the co-coordinator of the Committee on Industry, Research and Energy. Since his election, Christian has been actively engaged in EU research and innovation policy and contributed to the successful set-up of Framework Programme 7 and provided substantial input its subsequent mid-term review. In 2011 he became the European People's Party's (EPP) shadow rapporteur for the Commission's green paper on Horizon 2020. Subsequently, when the Commission published its proposal for Horizon 2020 in 2011, he was nominated as the Parliament's rapporteur for the rules of participation of Horizon 2020 as well as the EPP's shadow rapporteur for the Horizon 2020 Framework Regulation.

TIM GREEN, Academic Leader for Sustainability, Professor, Imperial College London



Tim Green is a professor of electrical power engineering and has been at Imperial College since 1994. He holds Ph.D. from Heriot-Watt University. He is a fellow of the Royal Academy of Engineering. Tim's research interest is in formulating the future form of energy systems to support zero carbon futures. He leads a multi-disciplinary team at Imperial College London planning zero-carbon energy systems. A particular theme is how the flexibility of power electronics and new forms of control systems will be important steps to achieving very high penetrations of renewable energy in net-zero energy systems.

ANN METTLER, Vice President, Europe, Breakthrough Energy



At Breakthrough Energy – an organization founded by Bill Gates in 2015 – Ann Mettler is working with European partners to accelerate clean tech innovation in the pursuit of climate neutrality and net-zero emissions. Previously, she served as director-general at the European Commission where she ran the internal strategy department, reporting directly to the President. An entrepreneur at heart, Ann set up her own think tank which she ran for more than a decade. Her career started at the World Economic Forum where she led the Europe department. She holds MA degrees in political science and European law and economics, and graduated with distinction from the University of New Mexico, USA and Rheinische Friedrich-Wilhelms-University in Bonn, Germany.

MAIVE RUTE, Deputy Director-General, DG Grow, European Commission



As deputy director-general in the European Union's industry department, Maive Rute focusses on the green transition of industries, resilience of supply chains, availability of critical raw materials and promotion of investments. In June 2022, she was nominated as first ever Chief Standardisation Officer. She is also member in the Horizon Europe research framework programme steering committee and supervises the Enterprise Europe Network as well as the European Clusters work. Between 2005 – 2019, Maive served as director for entrepreneurship and SMEs, and as director and deputy director-general in the research and innovation field of the European Commission. She has previously worked as deputy governor of the central bank of Estonia and CEO of KredEx, the Estonian business and export financing body.

How the EU can build up its innovation ecosystem to reach net-zero (Expert Roundtable)

In this roundtable, R&I community leaders will brainstorm how the European Union could best deploy its next Multiannual Financial Framework to accelerate innovation, incubation, education and networking for sustainable ideas. In this context, the role of research infrastructures will be a focal point driving the overall discussion.

Supported by the ATTRACT project

MAR CAPEANS, Head of the Site and Civil Engineering Department, CERN

Mar Capeans holds a PhD in particle physics from the University of Santiago de Compostela in Spain, and an MBA in management of technology from the EPFL and the University of Lausanne in Switzerland. She has held several managerial positions at CERN and participated in the design and construction of particle detectors for large experiments. In 2021, Mar was appointed head of CERN's site and civil engineering department, which manages and develops its real estate assets and infrastructure. She has published more than 1000 scientific articles and served as editor of the Journal of Instrumentation (JINST). She currently serves as adviser for various scientific councils and competitive funding programmes.

HÉLÈNE CHRAYE, Head of Unit, Clean Energy Transition, DG RTD, European Commission

Hélène Chraye graduated in economics and public law from Sciences Po Paris. After a stay in the French administration, Hélène moved to the European Commission, gaining experience in transport policy domains, EU enlargement and at EU Delegations across Europe. She then joined the Commission's Directorate-General for Research and Innovation, where she built the European Research Council Executive Agency and then financially and legally managed the EU programme Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing (NMBP), part of FP7 and Horizon 2020. She oversees the research and innovation directorate's unit in charge of designing and implementing European research policy for the clean energy transition and served as deputy director for the directorate Clean Planet.

SAIJA HOLLMEN, Professor, Humanitarian Architecture, Aalto University

Saija Hollmén is a professor of practice in humanitarian architecture at Aalto School of Arts, Design and Architecture. She is co-founder and leader of the interdisciplinary Aalto World in Transition Research LAB (WiTLAB), which focuses on global sustainability and humanitarian challenges through cross-disciplinary research and pedagogy. She is responsible of the Interplay of Cultures master studio, dealing with architectural design and planning in cultures outside Europe. Saija is also leading the new transdisciplinary professional diploma program called WiT programme for global sustainability, which focuses on the resilience of human settlements in the global majority context. Her research, informed by her architectural practice in the global south, focuses on cultural locality and interdisciplinary pedagogies in architectural education.

ANDY KERR, Chief Strategy Officer, EIT Climate, KIC

Andy Kerr has been in leadership roles in climate action over two decades. He is chief strategy officer of Climate-KIC, Europe's climate innovation agency, responsible for the group's strategy, financial sustainability, and global impact. Climate-KIC implements a place-based 'learning by doing' innovation model, mobilising finance and investment to build innovation portfolios. Previously, Andy was founding director of the award-winning Edinburgh Centre for Carbon Innovation. Earlier in his career, Andy traded carbon and green fuels in Europe and Asia and developed European renewable energy supply. Andy is honorary professor at University of Edinburgh and has a PhD in Climate Change.



DORIS SCHROEKER, Head of Unit, Industrial research, innovation and investment agendas, DG RTD, European Commission

Doris Schröcker heads the unit for industrial research, innovation and investment agendas in DG Research and Innovation in the European Commission. With a background in marketing and industrial management she has held a variety of positions in European R&I policy and programme management for transport, energy, enabling and industrial technologies. Her unit's work on the green transition for industry includes developing two industrial technology roadmaps under the European Research Area and a mapping of decarbonisation demonstrators for energy-intensive industry as well as cooperation with the Joint Research Centre on the annual Industrial R&D Investment Scoreboard and groundwork for a European approach on technology infrastructures.

Circularity and strategic materials: How can new approaches help us achieve net-zero? (Panel discussion)

Net-zero ambitions depend not just on low-carbon energy solutions, but also on boosting the sustainability of industrial bases – both in Europe and beyond – in terms of critical and other raw materials and a rapid transition to more circular systems. R&I has a critical role to play in ensuring better use of available resources, designing innovative manufacturing processes and advanced materials, and increasing the recycling of end-of-life materials into new products. This workshop will discuss the current state of materials research and solutions for improved circularity as well as the links between them. Which pathways offer the most promise? Should policy makers prioritise strategic technologies and sectors going forward? And what policy drivers and financial incentives are needed to accelerate a shift towards more sustainable approaches across industry?

ANA MARÍA BRAVO, Director Public Affairs Europe, International Flavors & Fragrances

Ana María Bravo focuses on promoting sustainable innovation in sectors like food, fragrances, pharma, and health. Chairwoman of EuropaBio's Industrial Biotechnology Council and board member at RCI, she gained extensive experience in Brussels as founder of Bravo Strategies, an advocacy organisation focused on responsible science and sustainable innovation. She holds more than 20 years of experience advocating for industrial biosciences, biofuels, food innovation at DuPont's Industrial Biosciences, Danisco and Genencor. She obtained a PhD in molecular biology from the University of Basel, CH (Cum Laude) and is of Colombian and Dutch nationality.

IGNACIO CALLEJA, Senior Advisor, Circular Economy, EIT Raw Materials

Ignacio Calleja started his professional career in the chemical sector in 1995, joining the research and technology sector in 1996 as environmental researcher (industrial pollution). He joined the European Commission (JRC/IPTS) in 1998 developing his work in the sustainable production and consumption unit for 6 years dealing with the International Plant Protection Convention, water and waste/recycling legislation, and other topics. From 2005 until September 2016 he dealt with European affairs, projects, and initiatives around environmental issues, circular economy, industrial pollution, resources efficiency, recycling, and environmental policy at the energy and environment unit of TecNALIA Research&Innovation. He joined EIT Raw Materials in September 2016 starting as thematic officer for

AUREL CIOBANU-DORDEA, Director, Circular Economy, DG ENV, European Commission

Since May 2022, Aurel Ciobanu-Dordea is the director in charge of circular economy in the European Commission's Directorate-General for Environment. Between January 2014 and April 2022 he worked as the director in charge of enforcement, cohesion and the European Semester in the same DG. Before that he was the director for equality in the Directorate-General for Justice since April 2011, in charge of equality and fight against discrimination, after having been the director for fundamental rights and EU citizenship within the same DG and in DG Justice, Freedom and Security since June 2009. He joined the European Commission in 2009. He holds an LL.M. from the University of Illinois and a Ph.D. from the University of Bucharest.



DARIO CROCCOLO, Full Professor & Head, Interdepartmental Centre for Industrial Research in Advanced Mechanical Engineering Applications and Materials Technology, University of Bologna

Full professor at the University of Bologna since 2016, Dario Croccolo carries out his research in the field of mechanical design, structural analysis and industrial product design. The research interests are aimed in particular at products made with additive manufacturing methods, friction connections and traditional and innovative shaft-hub couplings. Currently, he focuses his research on the subject of mechanical resistance, both static and dynamic (fatigue strength), of connections and components made by innovative materials. Dario received the 'Robert Hooke' award from the European Society for Experimental Mechanics, he was the Chairman of the MECHANICS AND MATERIALS IN DESIGN International Conference in 2019 and will be the Chairman of the International Conference on Experimental Mechanics in 2025.

ELENA GAURA, Professor of Pervasive Computing, Director of Research Institute for Data Science and Emerging Technologies, Coventry University

As a professor of pervasive computing, Elena Gaura's expertise is with the design of advanced sensor systems to enable data-driven decision making in complex socio-technical settings, and she has developed extensive knowledge on creative and ethical advances in control, AI, cyber-security, and measurement within an interdisciplinary/transdisciplinary approach. She has overseen and delivered 30 substantial grants that use sensor networks and technology to address complex environments (including Royal Society, Singapore- MIT Alliance, Jaguar Land Rover, and Orbit Housing Association). Elena is a member on various advisory boards, such as the Engineering and Physical Sciences Research Council (EPSRC) College of Peers, Women in Engineering, as well as co-chair of the Monitoring and Diagnosis strand of the Frontiers Symposium by the Royal Academy of Engineering.

SILVESTRE PINHO, Professor in Mechanics and Composites, Imperial College London

Silvestre Taveira Pinho is a professor in mechanics of composites, deputy head of the department of aeronautics and Airbus Chair at Imperial College London. He currently also holds a second research fellowship from the UK's Engineering and Physical Sciences Research Council. He serves in the Royal Aeronautical Society Structures & Materials Specialist Committee and heads the information committee of the International Community on Composites Materials. Silvestre has a long track record of advocating for circularity and net-zero, including serving in the sustainability and recycling consortium of the UK government's department for business, innovation and skills and co-authoring a myth-busting report for the UK's NetZero All-Party Parliamentary Group.



Net-zero in the city: Fostering sustainable urban spaces (Expert Roundtable)

The increasing focus on climate-neutral cities is the culmination of a long-standing discussion on the sustainability of urban spaces. The challenge is significant and it requires solid foundations, a crucial one being decarbonisation. From mobility to renewable energy, how can R&I facilitate the deployment of net-zero technologies in and between cities?



PALOMA ABA GARROTE, Director, European Climate, Infrastructure and Environment Executive Agency (CINEA), European Commission

In her role, Paloma ABA Garrote is in charge of managing several European Union programmes supporting the European Green Deal. She joined the European Commission 20 years ago and held various management positions in different Commission services always connected with the programmes and budget of the European Union. She believes that the European Union budget is one of the most visible contributions of the European project to the society.



PHILIPPE FROISSARD, Head of Unit, Future Urban & Mobility Systems, DG RTD, European Commission

Philippe Froissard graduated in nuclear engineering in Grenoble in 1988 and completed his PhD in nuclear physics in 1992. He worked on nuclear fusion research at the JET Joint Undertaking (UK) and then at the Commissariat à l'Énergie Atomique until 1999. In 2000, he joined the Directorate-General for Research and Innovation of the European Commission and held several positions since. In 2019, he moved to the future urban and mobility systems unit, responsible for research & innovation strategy and activities on surface transport with a focus on the Horizon Europe partnerships on rail (Europe's Rail), batteries (BATT4EU), zero emission mobility (2ZERO) and cooperative, connected and automated mobility (CCAM) as well as on urban development with the climate neutral and smart cities mission of Horizon Europe.



MARKUS KRÖLL, Head of Department, Fraunhofer Institute for Manufacturing Engineering and Automation

Markus Kröll is head of department for sustainable production and quality at the Fraunhofer Institute for Manufacturing Engineering and Automation IPA and also heads the S-TEC Centre for Ultra-Efficiency (ZUE). He previously worked for over 20 years in the automotive industry in various responsible project management and positions both at OEMs and as engineering manager at a plant manufacturer in the SME sector. He brings his many years of practical experience and, in particular, digitalisation expertise to bear on sustainability issues in the production environment and develops targeted, practical solutions for all sustainability facets for industry.



RACHEL MARTIN, Global Director, Sustainability, Elsevier

Rachel Martin is responsible for driving transformational change in the priority areas of sustainability and SDGs. In 2020, her work resulted in the launch of the Elsevier report "The Power of Data to Advance the SDGs" and the launch of Elsevier's Climate Action program, which she oversees. Rachel took part in launching the United Nations Sustainable Development Goals Publishers Compact and the SDG Book Club, including local chapters in Africa, Portugal, Brazil, Germany and in the Netherlands. Rachel is currently chair of the STM Social Responsibility Committee and UK Book Industry Communications (BIC) Green Supply Chain committee. In 2022, Rachel was the co-founder of the Publishing 2030 Accelerator.

Navigating towards a more sustainable future for aviation

Aviation, like the rest of the transport sector, faces increasing scrutiny from environmentalists and regulators alike. It needs to reduce its greenhouse gas emissions to help Europe meet its net-zero ambitions. But how? What are the technological levers that can help the aviation sector become more efficient and ultimately decarbonised? What kinds of incentives are needed to encourage more research and development in these technologies? This workshop aims to stimulate a debate on the best ways to reduce the carbon footprint of the aviation sector without killing it in the process.

Supported by GE Aerospace

MICHAEL MAY, Head of Business Unit Aviation Fraunhofer Institute for High-speed Dynamics, Ernst-Mach-Institut

Michael May is an accomplished aerospace engineer with a Diplom Ingenieur from the University of Stuttgart and a Ph.D. from Bristol University. Since 2010, Michael has been affiliated with Fraunhofer Gesellschaft. Currently holding multiple key positions, he serves as the Head of the Main Department for "Resilience, Safety, and Security," and also manages Fraunhofer's Program for "Clean Aviation." Further enhancing industry collaborations, he represents RTOs in the Governing Board of "Clean Aviation."

DAMIEN MEADOWS, Legal and Political Advisor, DG CLIMA, European Commission

Damien Meadows is the advisor on European and international carbon markets at the European Commission (DG Climate Action). He has been involved in developing market-based responses to climate change since 2000, including as head of the European Commission's unit for the international carbon market, aviation and maritime, and as deputy head of the unit responsible for the EU ETS from 2006-10. He has worked on the drafting, negotiation and implementation of the EU ETS, ratification of the Kyoto Protocol and other climate-related legislation. He also worked on the negotiation and adoption of the REACH law that comprehensively reformed EU chemicals regulation. Before joining the European Commission, he was a solicitor in the UK, working for the UK government and in private practice, as well as for the UNFCCC Secretariat at COP4.

RICCARDO PROCACCI, CEO, AVIO AERO

Since 2013 Riccardo has served as chief executive officer (CEO) and general manager of Avio Aero, a GE Aviation business. He has also held the positions of CEO of GE Additive and GE Aviation Turboprop since 2020. Riccardo began his career at General Electric in 1996 in the oil and gas division, filling a number of prominent managerial roles in Italy, Asia-Pacific and India. He is also a member of the General Council of Confindustria, board member of the Industrial Union in Turin and board member of the Italian Federation for Aerospace, Defense, and Security (AIAD). Riccardo holds a master's degree in mechanical engineering and a Ph.D. in turbomachinery from Sapienza University in Rome.

ROSALINDE VAN DER VLIES, Director, Clean planet, DG RTD, European Commission

Rosalinde van der Vlies is the director of the clean planet directorate in the European Commission's Directorate-General for Research and Innovation and deputy mission manager of the Climate-Neutral and Smart Cities Mission. Before her appointment as director, Rosalinde was the head of coordination & interinstitutional relations unit, and acting head of communication & citizens unit. Previously she held positions in Directorate-General Environment, Directorate-General Justice and Home Affairs, and in the private office of Janez Potocnik, the European Commissioner for the environment. Before joining the European Commission, she worked as a competition lawyer in an international law firm in Brussels and was a part-time teacher at the Catholic University in Brussels.



Clean capital: What does the future hold for green tech investment?

Green technologies have become one of the biggest growth areas in the innovation and startup space, both in Europe and at a global level. Yet in recent months, there have been signs that both the pace and scale of investment have been tapering off in various start-up ecosystems, due in no small measure to a potent combination of inflation, interest rates and geopolitical tensions. In this session, participants will assess the prospects for these trends to be reversed – drawing also on perspectives from leading public and private financing institutions, share current challenges for attracting and accessing new capital, and debate innovative ways to revitalise the green tech start-up landscape.

IRINA GORBOUNOVA, Head of XCARB Innovation Fund, Arcelormittal

Irina Gorbounova is a senior executive focused on sustainability, impact investments, and decarbonisation. At ArcelorMittal, the world's leading steel and mining company, she is responsible for executing strategic M&A deals and sustainable ventures in steel and mining. She also leads the investments of XCarb™, an innovation fund focused on companies developing breakthrough technologies to accelerate the steel industry's transition to carbon neutral steelmaking. With extensive experience in M&A and venture leadership, Irina is passionate about a zero-carbon future for the steel and mining industry and brings a forward-thinking perspective on how to achieve net zero goals

TARA LINDSTEDT, Board Member & Chief Development Officer, INOBAT

Tara joined the board of InoBat in 2020 to help create and deliver its scale-up and commercialisation strategy, becoming chief development officer and chair of its audit & risk committee in 2022. With over 35 years of professional experience in Europe, USA, Asia, Africa, and the Middle East, specialising in restructuring and turnaround, she has a track record of developing transformational and pathfinder projects and delivering high impact investments to achieve ESG and sustainable development goals SDG 2030. Tara is also the founder and majority owner of e-Strategy Advisors (ESAL), which provides strategic advice to boards and C-suite executives, as well as investing in and developing renewable energy and net zero enabling assets. At present, Tara serves as a director of DREAM EP Global Energy, co-founder and investor in the DREAM Platform (developing renewables in Europe, Africa & the Middle East), and advisor to the board of EP Global Energy in Cyprus. Previously she held positions with Salomon Brothers (now part of Citigroup), Goldman Sachs, Coopers & Lybrand (now PWC) and Technica (now part of DNV). Tara was a founding member of the Angels Network, to create the platform for the commercialisation of intellectual property, and an appointee director for spin-out companies at Imperial Innovations, Imperial College London. She holds a B.Sc. in chemical engineering from University College London, and M.Sc. in advanced chemical engineering and Ph.D. in fluid mechanics from Imperial.

MARK MAWHINNEY, Head of Sustainable & Digital Industries, European Investment Bank

Mark Mawhinney's current role as lead adviser – innovation and competitiveness follows his previous position as head of the sustainable and digital industries division within the Projects Directorate of the Bank, which appraises projects related to research, development and innovation particularly within the private sector and in energy intensive industries. Prior to this appointment, he was head of the European Investment Advisory Hub, a joint venture between the European Commission and the European Investment Bank, designed to stimulate stronger development of a major European investment projects pipeline. Mark Mawhinney initially worked in international construction before switching into innovation. In 2002 he was recruited to run a large project to exploit and commercialise research in Northern England before working at Oxford University in a similar area.





STÉPHANE OUAKI, Head of Department, European Innovation Council, EISMEA, European Commission

In his role, Stéphane Ouaki ensures effective and efficient implementation of the EIC from the emergence of new technologies having the potential to generate game-changing innovation up to the scaling up of deep-tech enterprises (mainly startups and SMEs). He also chairs the investment committee of the EIC Fund. Beyond the EIC, Stéphane oversees the implementation of the research, innovation, and digitisation window under the InvestEU programme. Previously, he was the head of unit for financial instruments in DG Research and Innovation at the European Commission. Before joining DG R&I, he was the head of unit for the Connecting Europe Facility and investment strategies in DG MOVE. Previously, he was deputy head of cabinet of Commissioner Vladimír Špidla, responsible for employment, social affairs, and equal opportunities (2004-2010).

Powering green tech: the importance of climate policy for tech value chains (Closing Plenary)

In this closing plenary, panellists will explore the role of climate policy as an instrument to boost green tech development and innovation. From COPs to the creation of the Innovation Fund, how can we best exploit the added value created by climate policy to drive sustainable solutions? This connection will be crucial in defining to which extent EU industrial policy will flourish in the coming years while keeping the EU on track towards its climate goals.

MAR CAPEANS, Head of the Site and Civil Engineering Department, CERN

Mar Capeans holds a PhD in particle physics from the University of Santiago de Compostela in Spain, and an MBA in management of technology from the EPFL and the University of Lausanne in Switzerland. Since joining CERN in 1992, she has held several managerial positions and participated in the design and construction of particle detectors for large experiments. In 2021, Mar was appointed head of CERN's site and civil engineering department, which manages and develops its real estate assets and infrastructure. She has published more than 1000 scientific articles in the field of high energy physics and instrumentation and served as editor of the Journal of Instrumentation (JINST). She currently serves as adviser for various scientific councils and competitive funding programmes

YVES DESBAZEILLE, Secretary General, Nuclareurope

Yves Desbazeille graduated in electrical engineering from the Ecole Supérieure d'Electricité ("SUPELEC") in France in 1991 and studied on an MBA program in the early 2000s. During his successful career, he has been involved in different businesses and responsibilities at Électricité de France (EDF): nuclear engineering, hydro and thermal power projects management in France, USA as well as in Asia, where he was for five years. His previous position as EDF representative for energy in Brussels has provided him with an in-depth knowledge of the EU institutions and Brussels' stakeholders and of the energy and climate stakes for Europe.

JOYEETA GUPTA, Full Professor of Environment and Development in the Global South, University of Amsterdam

Joyeeta Gupta is professor of environment and development in the global south at the University of Amsterdam's Institute for Social Science Research, faculty professor on sustainability at the IHE Delft Institute for Water Education, and presently co-chair of the Earth Commission. She is also the former co-chair of UNEP's Global Environment Outlook-6, which won the Association of American Publishers PROSE award for Environmental Science. Among other achievements, Joyeeta was lead author in the Intergovernmental Panel on Climate Change which won the 2007 Nobel Peace Prize and of the Millennium Ecosystem Assessment which won the Zayed Second Prize. She has published several books and sits on the editorial board of seven journals. She has also served on the steering committees of several scientific programmes, was vice-president of the Commission on Development Cooperation and a member of the Advisory Council on International Affairs. She has recently won an ERC Advanced Grant of €2.5 million for work on climate change and fossil fuels and, earlier this year, she won the highest academic recognition in the Netherlands – the Spinoza prize.

SIGNE RATSO, Deputy Director-General, DG RTD, European Commission

Mrs Ratso serves as the chief negotiator, responsible for negotiating association agreements with third countries associated with EU R&I programs. Additionally, she oversees Open Innovation and citizens' engagement in research and innovation policy. Prior to joining DG R&I, Ratso held various senior management positions at DG TRADE. She has a long-standing involvement in international affairs, having worked as deputy secretary general at the Ministry of Economic Affairs and Communications of the Republic of Estonia. She holds two university degrees from Tartu University in Estonia. As a member of the management board, Ratso oversees some of DG R&I's priority areas.



MARYLINE FIASCHI, CEO, Science|Business

Maryline Fiaschi joined Science|Business in 2011. Appointed managing director in 2016 and CEO in 2021, she leads the company's operations and growth strategy. Previously, she managed EU education programmes with the European Commission for six years, before entering the media business in 2007.

She held business development positions at Shanghai Daily and EU affairs media company EurActiv. She is also an external evaluator for several EU higher education and research and innovation programmes. Maryline holds degrees from Université La Sorbonne, Università di Bologna and Université de Louvain.

RAFFAELE GUERINI, Policy Officer, Science|Business

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DAVID MATTHEWS, International Editor, Science|Business

David Matthews is international editor at Science|Business. He covers global research and development topics such as artificial intelligence, biosecurity and the geopolitics of science. Previously he was Europe correspondent for Times Higher Education, and has written for publications including Nature, the Guardian and the Register. David holds a degree in modern history from the University of Oxford, a master's degree in journalism from City, University of London, and studied Chinese at Shanghai Jiao Tong University. He lives in Berlin.

RICARDO MIGUEIS, Head of the INESC Brussels HUB

Ricardo Migueis is head of office for the INESC Brussels HUB. He has twenty years of experience in research, research management and science and technology policy in Europe and Latin America. In previous roles, he coordinated the development of the national roadmap of research infrastructures at the Portuguese Foundation for Science and Technology (FCT), served as Portugal's National Delegate for Horizon 2020 and ESFRI, and chaired the ESFRI strategy working group on energy. Prior to becoming chief of staff for the Secretary of State for science, technology and higher education of the XXIst Constitutional Government of Portugal, Ricardo was also elected chair of the board of the European Marine Biology Resource Centre (EMBRC) and chair of the Science Europe working group on research infrastructures



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Brandon Mitchener is a former correspondent of 15 years for The Wall Street Journal, International Herald Tribune and Dow Jones Newswires in Germany and continues to write about EU policies, science, research and other topics. Since 2004, he has also been actively helping people and organisations communicate better and make better public policy decisions through strategic advice and campaign management. He has advised companies, business associations and non-governmental organisations in a wide variety of sectors including agriculture, food, energy, health and transportation.

SIMON PICKARD, Network Director, Science|Business

Simon leads on network engagement and development for Science|Business in line with the company's growth strategy. He previously held directorial positions with The Academy of Business in Society (ABIS) network and IDAS Global, a technology solutions provider to the global cash industry. Within these roles, he designed and coordinated a wide range of international projects focused on sustainability-driven innovation, both in research and education. Simon holds a Masters Degree from the University of Oxford and an MBA from HEC Paris School of Management.

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Florin is Executive Editor, leading Science|Business news coverage on research and innovation policy in Europe. He is covering EU R&D policy, the Horizon Europe programme, Europe's innovation divide and R&D policy reforms in central and eastern Europe. He managed the Science|Business newsletters since 2014 and, in 2017, he helped implement a complete redesign of www.sciencebusiness.net. Previously, Florin worked as a political science researcher and web producer for various organisations and think-tanks in Romania and Hungary. He holds degrees in political science from Central European University in Budapest and Babeş-Bolyai University in Cluj-Napoca.

