

IRENA VIRTUAL EDITION INNOVATION WEEK 2020

Renewable solutions for transport and industry

5-8 October 2020

EVENT PROGRAMME

As of 8 October 2020



Monday, 5 October 2020

TIME (CEST)	THEME	SESSION
09:30 - 11:30	Strategy	Opening session
17:00 - 20:00	Supply: Electrification	Session 2: Smart electrification of end-use sectors: implications for the power system Organised in partnership with the Electric Power Research Institute (EPRI)

Tuesday, 6 October 2020

TIME (CEST)	THEME	SESSION
08:00 - 11:00	Supply: Hydrogen & E-fuels	Session 3: Scaling up green hydrogen and green e-fuels production to decarbonise industry and transport Organised in partnership with the Hydrogen Council
17:00 - 20:00	Supply: biofuels	Session 4: Growing the bio-economy: solutions for the sustainable supply of biomass & biofuels Organised in partnership with the Global Bioenergy Partnership (GBEP)

Wednesday, 7 October 2020

TIME (CEST)	THEME	SESSION
08:00 - 11:00	Demand: Industry	Session 5: Renewable solutions for industry transformation Organised in partnership with the World Economic Forum (WEF)-Mission Possible Platform (MPP)
16:00 - 20:00	Demand: Transport	Session 6: Transforming Transport: innovative renewable-based solutions in road freight, shipping and aviation Organised in partnership with the International Transport Forum (ITF)

Thursday, 8 October 2020

TIME (CEST)	THEME	SESSION
10:00 - 12:30	Youth	IRENA Youth Talk: Entrepreneurship and Innovation for the green energy agenda Organised by IRENA Youth Talk in partnership with Initiate and SDG 7 Youth Constituency
14:00 - 16:00	Re-cap & wrap-up	Closing Session: Way Forward

INNOVATION WEEK 2020 - OVERVIEW

Building on the IRENA Innovation Weeks in [2016](#) and [2018](#), the 3rd IRENA Innovation Week will take place online between [Monday 5 and Thursday 8 October 2020](#) under the theme '[Renewable solutions for transport and industry](#)'. This virtual gathering of leading policy makers, innovators, developers, and investors from across IRENA's diverse global membership will explore how systemic innovative solutions can support the use of renewables in the energy-end-use sectors of transport and industry. system operation that can support the decarbonisation of the end-use sectors.

Effectively tackling climate change will require the complete decarbonisation of all sectors of the economy by the second half of this century. That will be very challenging. And particularly so in some key industry and transport sectors where viable options are currently limited. Renewables, supplemented with other options, can play a pivotal role in these sectors. However, their potential to date has often been underestimated or undervalued by both governments and industry.

IRENA Innovation Week 2020 is intended to both inspire and inform decision makers by showcasing emerging renewables-based solutions from around the world and by exploring the actions needed to fully unlock the potential of renewables in the end-use sectors.

With renewables now the most cost-effective option for new power generation in much of the world, the significantly increased use of renewable-electricity in the end-use sectors of transport, industry, and buildings, is a viable and attractive option. IRENA's analysis indicates that electricity will need to provide over 40% of the final energy demand in end-use sectors by 2050. Biomass, green hydrogen and synthetic-renewable-fuels will also play an important role in decarbonising key industrial sectors such as the petrochemicals, iron & steel production, as well in transport and as a potential replacement for natural gas use. IRENA's scenario shows that a five-fold increase of biofuels would be needed by 2050 and over a hundred-fold increase in hydrogen production.

Supported by insights from IRENA's analysis and work on the ground, informed by the experience of recent projects and drawing on the expertise of a diverse range of speakers and attendees, IRENA Innovation Week 2020 will explore the challenges and the emerging innovations in technology, business models and system operation that can support the decarbonisation of the end-use sectors.

Discussions will be structured around 5 technical sessions aimed at mid-to-senior officials and industry representatives, which will be co-organised with other partner organisations. In addition, high-level segments, which will open and close the event, will include ministers and senior-officials from IRENA's membership, and senior executives from innovative companies and organisations.



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OPENING SESSION

Monday, 5 October 2020 • 09:30 - 11:30 CEST

The high-level opening session will introduce the theme of the IRENA Innovation Week 2020 'Renewable solutions for transport & industry' by outlining its importance in the context of a global clean energy transformation. High-level speakers will discuss what solutions are becoming available, what steps have been taken to enable the deep decarbonisation of industry and transport, particularly by leveraging the power of renewables, and what technological, policy/regulatory and economic changes can enable further progress. The session will be a starting point for 4 days of in-depth technical discussions amongst stakeholders on the promising solutions emerging as well as the current challenges and critical gaps in capabilities.

Welcome

09:30 - 09:40	Welcome Francesco La Camera , Director General, IRENA
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Fireside Chat on regional perspectives

09:40 - 10:10	Moderator: Frédéric Simon , Editor - Energy & Environment, Euractiv <ul style="list-style-type: none">• H.E. Kadri Simson, European Commissioner for Energy• H.E. Dr. Amani Abou Zeid, Energy Commissioner, African Union
10:10 - 10:15	Digital Break

Private sector perspective

10:10 - 10:25	Moderator: Frédéric Simon , Editor - Energy & Environment, Euractiv <ul style="list-style-type: none">• Børge Brende, President, World Economic Forum
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Ministerial perspective on strengthening energy & climate policy for end-use sectors

10:25 - 10:45	Moderator: Frédéric Simon , Editor - Energy & Environment, Euractiv <ul style="list-style-type: none">• H.E. Kwasi Kwarteng, Minister of State at the Department of Business, Energy and Industrial Strategy, UK• H.E. Dr. Abdullah bin Mohammed Belhaif Al Nuaimi, Minister of Climate and Environment, UAE
10:45 - 10:50	Digital Break

Ministerial perspectives on the way ahead

10:50 - 11:15	Moderator: Frédéric Simon , Editor - Energy & Environment, Euractiv <ul style="list-style-type: none">• H.E. Arifin Tasrif, Minister of Energy and Mineral Resources, Indonesia• H.E. Seamus O'Regan, Minister of Natural Resources, Canada (TBC)• H.E. Andreas Feicht, State Secretary Ministry of Economic Affairs and Energy, Germany
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Closing remarks

11:10 - 11:30	Francesco La Camera , Director General, IRENA
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SUPPLY SIDE

Session 2: Smart electrification of end-use sectors: implications for the power system

Organised in partnership with the Electric Power Research Institute (EPRI)

Monday, 5 October 2020 • 17.00 – 20.00 CEST

The high-level opening session will introduce the theme of the IRENA Innovation Week 2020 ‘Renewable solutions for transport & industry’ by outlining its importance in the context of a global clean energy transformation. High-level speakers will discuss what solutions are becoming available, what steps have been taken to enable the deep decarbonisation of industry and transport, particularly by leveraging the power of renewables, and what technological, policy/regulatory and economic changes can enable further progress. The session will be a starting point for 4 days of in-depth technical discussions amongst stakeholders on the promising solutions emerging as well as the current challenges and critical gaps in capabilities.

17:00 – 17:05	<p>Introduction and scene setting Francisco Boshell, Programme Officer, Innovation and Technology Centre, IRENA</p>
17:05 – 17:30	<p>Global experience Moderator: Francisco Boshell, Programme Officer, Innovation and Technology Centre, IRENA</p> <ul style="list-style-type: none"> • Rob Chapman, Vice President, Electrification & Sustainable Energy Strategy, EPRI • Kristian Ruby, Secretary General, Eurelectric • Dr Koshichi Nemoto, Vice President, Central Research Institute of Electric Power Industry (CRIEPI)
17:30 – 18:20	<p>Smart electrification at DSO level Moderator: Kristian Ruby, Secretary General, Eurelectric</p> <ul style="list-style-type: none"> • Bastian Pfarrherr, Head of Innovation Management, Stromnetz Hamburg • Katie Sloan, Director, eMobility and Building Electrification, Southern California Edison • Gregory Poilasne, Co-Founder, Director, Chairman and CEO of Nuvve • Sandra Trittin, Co-founder & CSO, tiko Energy Solutions
18:20 – 18:35	Digital Break
18:35 – 19:25	<p>Smart electrification at TSO level Moderator: Norela Constantinescu, Manager Research & Innovation, European Network of Transmission System Operators for Electricity (ENTSO-E)</p> <ul style="list-style-type: none"> • Anders Bavnhøj Hansen, Chief Engineer, Energinet • Pablo Mosto, Planning & Environment Manager, UTE National Electric Utility of Uruguay • Christopher Greiner, Chief Technology Office, EnergyNest • Adele Lidderdale, Hydrogen Project Manager, EMEC & Big Hit project
19:25 – 19:55	<p>New power sector dynamics with smart electrification Moderator: Rob Chapman, Vice President, Electrification & Sustainable Energy Strategy, EPRI</p> <ul style="list-style-type: none"> • Anders Bavnhøj Hansen, Chief Engineer, Energinet • Pablo Mosto, Planning & Environment Manager, UTE National Electric Utility of Uruguay • Katie Sloan, Director, eMobility and Building Electrification, Southern California Edison • Bastian Pfarrherr, Head of Innovation Management, Stromnetz Hamburg
19:55 – 20:00	<p>Closing remarks Rob Chapman, Vice President, Electrification & Sustainable Energy Strategy, EPRI</p>

SUPPLY SIDE

Session 3: Scaling up green hydrogen and green synthetic fuels production to decarbonise industry and transport

Organised in partnership with the Hydrogen Council

Tuesday, 6 October 2020 • 8:00 – 11:00

Following IRENA members' call for continuous dialogue on green hydrogen at the ministerial roundtable in January 2020, IRENA established the Collaborative Framework on Green Hydrogen in June 2020. Building on findings from previous IRENA's green hydrogen reports, this session will present findings from IRENA's recent analysis and explore with key partners from government, industry and international organisations insights on recent developments in electrolyser technologies and e-fuels, the potential for cost reduction and the next steps for its successful scale-up in industry and transport sectors.

08:00 – 08:15	Scene setting Emanuele Taibi , Programme Officer, Innovation and Technology Centre, IRENA
08:15 – 09:30	Electrolysers production Moderator: Tim Karlsson , Executive Director, IPHE <ul style="list-style-type: none">• Denis Thomas, EU Regulatory Affairs & Business Development Manager Renewable Hydrogen, Hydrogenics/Cummins• Benjamin Schroeder, Siemens• Jan-Justus Schmidt, Co-founder, Enapter• Eiji Ohira, DG, Fuel Cell and Hydrogen Technology Group, NEDO
09:30 – 09:40	Digital Break
09:40 – 09:55	Scene setting Michele Azalbert , CEO, Hydrogen Business Unit, Engie, Hydrogen Council
09:55 – 10:55	Ammonia and other green synthetic fuels production Moderator: Fernando Gomez , Head, Chemical and Advanced Materials Industry, World Economic Forum <ul style="list-style-type: none">• Karan Bagga, Thyssen Krupp, Australia• Bard Ikken, Director General IRESEN• Kilian Crone, Team Lead, International Cooperation Hydrogen & Powerfuels• Dan Feldman, Partner, Shearman & Sterling LLP
10:40 – 10:50	Closing remarks Roland Roesch , Deputy Director, Innovation and Technology Centre, IRENA

SUPPLY SIDE

Session 4: Growing the bio-economy: solutions for the sustainable supply of biomass & biofuels

Organised in partnership with the Global Bioenergy Partnership (GBEP)

Tuesday, 6 October 2020 • 17:00 – 20:00 CEST

Bioenergy is the largest renewable energy source in use today and will continue to be an essential component of the global energy transformation. IRENA’s climate-safe scenario foresees that modern bioenergy use would need to quadruple. However, much of the potential for biomass use in energy has not yet materialized due to multiple challenges. This session will showcase best practices and innovative approaches around the world to secure sustainable biomass and to turn it into valuable feedstocks for energy and will explore how these experiences can be replicated and further scaled-up. The session will be structured as follows:

17:00 – 17:15	<p>Scene setting</p> <ul style="list-style-type: none"> • Toshimasa Masayama, Bioenergy, Innovation and Technology Centre, IRENA <p>Keynote address</p> <ul style="list-style-type: none"> • Dr. Maria Michela Morese, Executive Secretary, GBEP/FAO
17:15 – 18:30	<p>Scaling-up biomass feedstock production for the transport and industry sectors</p> <p>Moderator: Gerard J. Ostheimer, Chief Sustainability Officer, Global Biofuture Solutions</p> <ul style="list-style-type: none"> • Dr Rainer Janssen, Managing Director Projects, WIP Renewable Energies • Dr Phosiso Sola, Scientist, Natural Resource Governance and Bioenergy ICRAF • Dr Maria Carolina Grassi, Business Development Lead Latin America and Sector Lead, Ground Transport, Roundtable on Sustainable Biomaterials, RSB • Keith L Kline, Distinguished Research Staff, Climate Change Science Institute and and Center for Bioenergy Sustainability
18:30 – 18:40	Digital Break
18:40 – 19:55	<p>Innovative solutions for maximising biomass value streams</p> <p>Moderator: Bharadwaj Kummamuru, Executive Director- World Bioenergy Association (WBA)</p> <ul style="list-style-type: none"> • Geoffrey Bell, CEO, Microbiogen • Timothy Ong, Head of Biomass Strategy Delivery Unit, Agensi Inovasi Malaysia • Henrik Brodin, Strategic Business Development Manager, Sodra • Mr. James J. Spaeth, Program Manager, U.S. Department of Energy- Bioenergy Technologies Office
19:55 – 20:00	<p>Closing remarks</p> <p>Dr Paul Durant, Head of End-Use Sectors and Bioenergy team, Innovation and Technology Centre, IRENA</p>

DEMAND SIDE

Session 5: Renewable solutions for industry sector transformation

Organised in partnership with the World Economic Forum-Mission Possible Platform

Wednesday, 7 October 2020 • 08:00 - 11:00 CEST

Four industrial sub-sectors (iron and steel, aluminium, chemicals and petrochemicals, as well as cement and lime) produce over 85% of energy and process-related emissions and account for over two-thirds of all industrial energy use. This session will showcase the most promising technology-driven systemic innovations for energy and carbon intensive industries around the world that could contribute to reducing CO₂ emissions to zero by mid-century. Focusing on the iron and steel, aluminium, cement and chemical sectors, speakers will show what is possible now and will explore how to accelerate the development and disseminate solutions based on: electrification with renewable energy, the use of green hydrogen and the use of biomass. The session will be structured as follows:

08:00 - 08:30	<p>Scene setting</p> <ul style="list-style-type: none"> • Dr Paul Durrant, Head of End-Use sectors and Bioenergy team, Innovation and Technology Centre, IRENA • Anthony Hobley, Executive Director of the Mission Possible Platform (MPP)
08:30 - 09:10	<p>Solutions to decarbonise the iron and steel sector</p> <p>Moderator: Faustine Delasalle, Director, Energy Transitions Commission (ETC)</p> <ul style="list-style-type: none"> • Åsa Ekdahl, Head of Environment and Climate Change, World Steel Association • Andreas Regnell, Chairman of the Board of Directors, Vattenfall • Dr. Yoon-ghi Ahn, Senior Vice President, Management Consulting Center, POSRI (POSCO Research Institute)
09:10 - 09:20	Digital Break
09:20 - 10:00	<p>Solutions to decarbonise the cement and lime sector</p> <p>Moderator: Jim Rushworth, Industrial Policy Director, CEMBUREAU</p> <ul style="list-style-type: none"> • Rob van der Meer, Director EU Public Affairs, Heidelberg Cement • Kiran Ananth, Principal Counsellor, Confederation of Indian Industry - Godrej Green Business Centre • Davide Zampini, Head of Global R&D, Cemex
10:00 - 10:10	Digital Break
10:10 - 10:50	<p>Solutions to decarbonise the chemical and petrochemical sector</p> <p>Moderator: Değer Saygın Director, SHURA Energy</p> <ul style="list-style-type: none"> • Florian Ausfelder, Head of Energy and Climate, Dechema • Babette Pettersen, VP Europe, Lanzatech • Eelco Dekker, Chief EU Representative, Methanol Institute
10:50 - 11:00	<p>Closing remarks</p> <p>Dolf Gielen, Director, Innovation and Technology Centre, IRENA</p>

DEMAND SIDE

Session 6: Transforming Transport: Innovative renewable-based solutions in road freight, shipping and aviation

Organised in partnership with the International Transport Forum (ITF)

Wednesday, 7 October 2020 • 16:00 – 20:00 CEST

Four industrial sub-sectors (iron and steel, aluminium, chemicals and petrochemicals, as well as cement and lime) produce over 85% of energy and process-related emissions and account for over two-thirds of all industrial energy use. This session will showcase the most promising technology-driven systemic innovations for energy and carbon intensive industries around the world that could contribute to reducing CO₂ emissions to zero by mid-century. Focusing on the iron and steel, aluminium, cement and chemical sectors, speakers will show what is possible now and will explore how to accelerate the development and disseminate solutions based on: electrification with renewable energy, the use of green hydrogen and the use of biomass. The session will be structured as follows:

16:00 – 16:20	<p>Scene setting</p> <ul style="list-style-type: none"> • Roland Roesch, Deputy Director, Innovation and Technology Centre, IRENA • Jari Kauppila, Head of Quantitative Policy Analysis and Foresight, International Transport Forum
16:20 – 17:05	<p>Decarbonising Shipping with Renewables Moderator: Roland Roesch, Deputy Director, Innovation and Technology Centre, IRENA</p> <ul style="list-style-type: none"> • Tue Johannessen, Senior Innovation Portfolio Manager, Maersk • Tristan Smith, Lecturer, University College London (UCL) • Jakob Steffensen, Head of Innovation and Technology, DFDS • Bart Hellings, COO, Goodfuels • Anne Sophie Vinther Hansen, Investment Manager, Vækstfonden
17:05 – 17:15	Digital Break
17:15 – 18:00	<p>Decarbonising Aviation with Renewables Moderator: Jagoda Egeland, Advisor to the Secretary-General, International Transport Forum</p> <ul style="list-style-type: none"> • Oskar Meijerink, Project lead – Future Fuels, SkyNRG • Jack Saddler, Professor, University of British Columbia • Glenn Llewellyn, Vice President, Zero Emission Technologies, Airbus • Valentin Batteiger, Lead Alternative Fuels, Bauhaus Luftfahrt • Hassan El-Houjeri, Climate and Sustainability Technology Strategist, Aramco
18:00 – 18:10	Digital Break
18:10 – 18:55	<p>Decarbonising Road Freight Transport with Renewables Moderator: Francisco Boshell, Analyst, Innovation and Technology Centre, IRENA</p> <ul style="list-style-type: none"> • Steven Nadel, Executive Director, American Council for an Energy Efficient Economy (ACEEE) • Angie Farrag-Thibault, Project Lead for Clean Trucking, World Economic Forum • Elizabeth Fretheim, Head of Business Development, Nikola Motors • Henrik Engdahl, Chief Engineer Charging, Volvo
18:55 – 19:05	Digital Break
19:05 – 19:50	<p>Cross-sectoral synergies Moderator: Pierpaolo Cazzola, Advisor on Energy, Technology and Environmental Sustainability, International Transport Forum</p> <ul style="list-style-type: none"> • Axel Volkery, Team Leader Clean Transport, European Commission (DG MOVE) • Randall Krantz, Senior Project Advisor, Getting to Zero Coalition, Global Maritime Forum (GMF) • Mariette van Empel, Director Sustainable Mobility, Ministry of Infrastructure and Water Management of the Netherlands • Christoph Wolff, Head of Mobility, World Economic Forum • Jane Hupe, Deputy Director, Environment, Air Transport Bureau, ICAO (Prerecorded)
19:50 – 20:00	<p>Closing remarks Pierpaolo Cazzola, Advisor on Energy, Technology and Environmental Sustainability, International Transport Forum</p>

IRENA YOUTH TALK

Entrepreneurship and innovation for the green energy agenda

Organised in partnership with Initiate and SDG 7 Youth Constituency

Thursday, 8 October 2020 • 10:00 – 12:30 CEST

Globally, young entrepreneurs play an important role in finding innovative solutions to accelerate the energy transition, either by developing new technologies or finding ingenious business models. The creativity of young energy entrepreneurs is key for changing old paradigms and not only successfully decarbonising the power sector, but also finding innovative solutions for decarbonising the transport and industry sectors. The IRENA Youth Talk will bring together youth innovators and entrepreneurs in the renewable energy sector, to present their ideas, discuss the challenges for innovation in the energy space and their role in the energy transition. The session will be structured as follows:

Renewable Solutions for Transport

10:00-11:15	<p>Scene Setting Arina Anisie, Associate Programme Officer, Innovation and Technology Centre, IRENA</p>
	<p>Innovation Showcase Moderator: Noortje van Heijst, Investment Associate, Unknown Group & VenturesOne</p> <ul style="list-style-type: none"> • Innovation pitch 1: Jorg van Heebeen, CBO, Jedlix • Innovation pitch 2: Kimosop Chepkoit, Founder & CEO, ECOBODAA • Innovation pitch 3: Sasiranga De Silva, electric Tuk Tuk • Innovation pitch 4: Isaac Oyedokun, CEO & Co-founder and Esther Ehindero, COO, Trekk Scooters • Innovation pitch 5: Bhaskar Deol, CEO & Co-Founder, eDRV
	<p>Panel Discussion Moderator: Noortje van Heijst, Investment Associate, Unknown Group & VenturesOne</p> <ul style="list-style-type: none"> • Panelist 1: Philippe Vangeel, Secretary General, The European Association for Electromobility (AVERE) • Panelist 2: Alexander Körner, Programme Officer, UNEP, Sustainable Mobility Unit, Economic Division • Panelist 3: Bhaskar Deol, CEO & Co-Founder, eDRV • Panelist 4: Sasiranga De Silva, electric Tuk Tuk

Supporting Youth Innovation to Decarbonise Transport

11:15-12:30	<p>Scene Setting Elena Ocenic, Associate Programme Officer, Innovation and Technology Centre, IRENA</p>
	<p>Innovation Showcase Moderator: Joyce Mendez, Latin American Observatory of Geopolitics of Energy</p> <ul style="list-style-type: none"> • Innovation pitch 1: Peter Paul van Voorst, co-founder, Skoon Energy • Innovation pitch 2: Vaitea Cowan, co-founder, Enapter • Innovation pitch 3: Dwi Rizky Rachmadhani, Okham • Innovation pitch 4: Esther Wanza, Energy 4 Impact • Innovation pitch 5: Jeremiah Thoronka, Optim Energy
	<p>Panel Discussion Moderator: Joyce Mendez, Latin American Observatory of Geopolitics of Energy</p> <ul style="list-style-type: none"> • Panelist 1: Ernesto Ciorra, Chief Innovability Officer, Enel • Panelist 2: Thaddeus Anim-Somuah, Engineering Manager, Croda • Panelist 3: Esther Wanza, Energy 4 Impact

RE-CAP AND WAY FORWARD

Thursday, 8 October 2020 • 14:00 - 16:00 CEST

This high-level closing session will open up by IRENA's key takeaways from discussions across all session. Climate champion and the UK COP26 Presidency in the fireside chat will share their commentaries on climate action needed for the complete decarbonisation of industry and transport sectors to achieve Paris Agreement and how it fits the pathways towards COP26 and beyond. Public and private sectors representatives will discuss the cross-sectorial challenges and opportunities in these sectors.

Key takeaways

14:00 - 14:15	Dolf Gielen , Director Innovation and Technology Centre, IRENA
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Climate action in the industry and transport sectors (fireside chat)

14:15 - 14:45	Moderator: Elizabeth Press , IRENA Director Planning and Programme Support <ul style="list-style-type: none">• Gonzalo Muñoz, High-Level Climate Champion, Chile• Catherine Bremner, Director of International Climate and Energy, Department for Business, Energy and Industrial Strategy, UK
14:45 - 14:50	Digital Break

Public private panel discussion

14:50 - 15:50	Scene setter and moderator: Rabia Ferroukhi , IRENA Director, Knowledge, Policy and Finance Centre <ul style="list-style-type: none">• Young Tae Kim, Secretary General, ITF• Amanda Wilson, Director General, Office of Energy Research and Development, Natural Resource Canada• Ola Göransson, Deputy Director, Ministry of Environment and Energy, Sweden• Michael Hackethal, Head of Division - General issues of international energy cooperation, multilateral energy cooperation, BMWi, Germany• Gregory Dolan, CEO, Methanol Institute• Soma Banerjee, Executive Director, Confederation of Indian Industry
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Closing remarks

15:50 - 16:00	Francesco La Camera , Director General, IRENA
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