

SPACE FOR GREEN GROWTH AND CLEAN ENERGY

How Space can contribute
to a sustainable green economy



Digital Workshop | 14 September 2020 | 9:00 am – 4:00 pm CET

The workshop is an open event. We invite you to register per mail indicating your name and affiliation.

DownstreamGateway@esa.int

Background

The ESA Downstream Gateway provides a single interface to new external actors in the downstream sector. By creating links between new business opportunities and capabilities being developed by ESA, the Downstream Gateway enables new downstream communities to interact more easily with ESA, thus allowing easy access to expertise in applications and technical domains.

Energy is not only a geopolitical and economic strategic sector, it is also subject to attention because of its high potential in decarbonising the European industry. Its activities cover the whole energy value chain, including energy generation, transmission, distribution and final consumption by end-users, the current focus on renewable energies, but also infrastructure planning, operation, monitoring, and decommissioning. The sector is at an important crossroad which is characterised by increasing consumption on one hand (electric consumption will probably double until 2050) and tight efficiency targets for primary and final energy consumption on the other hand.

European and national public authorities are increasing standards for energy efficiency and the share of renewable energies. Setting climate targets, establishing low emission zones, increasing emission monitoring, or correcting prices by CO₂ emissions is changing the landscape of the market. This changing legal framework for the clean energy transition is complemented by public investments schemes to attract and support needed private investments. The ongoing privatisation and digitalisation (accelerated by COVID crisis) including the application of related enabling technologies, is further supporting the achievement of European and national goals. Efforts are closely linked with environmental and sectorial approaches (Green deal, Clean Energy for All Europeans package, Energy Performance of Buildings, ...). ESA, towards its programmes and expertise has already an established role in the sector, with a clear willingness to be at the forefront of the new needs and strategic goals in order to tailor its action in support to the sector.

The ESA Downstream Gateway Digital Workshop will be organised with the participation of actors from the energy and the space sector in order to present the opportunities and challenges in the use of space technologies and data for green growth and clean energy. The workshop will be convened as a series of high-level panels over the course of one day. The draft agenda for the Space for Green Growth and Clean Energy Workshop is under development and will be shared well in advance of the event.

Objectives

The main Objective of this workshop are to:

- Present the impact of public regulation and policy for renewable energy and CO₂ targets on the Energy Sector,
- Debate the technological needs and requirements deriving from new regulations from the institutional, financial and technical point of view
- Present how Space sector is contributing toward ESA's action to support the new challenges of the ecosystem
- Present ESA's future roadmap in support to the green growth and clean energy challenges on Earth and in Space

Expected outcomes

- View on the latest technological, financial and economic trends related to a sustainable green economy with a focus on clean energy ecosystem
- Build a community among space and non-space actors to respond to the needs expressed by the involved energy players and contribute to the generation of new business models

Workshop participants

The workshop participants will be major institutional, academic and industrial actors in the field of clean energy, as well as renowned experts and critical stakeholders from ESA, Circular Value Fund, European Commission, International Energy Agency, Solar Power Europe, OECD, Trina Solar, Siemens, Orsted, Airliquide, International Renewable Energy Agency.

AGENDA

9.00 – 9.30	Introduction <i>Jan Wörner, Director General, ESA</i> <i>Donatella Ponziani, Downstream Gateway Officer, ESA</i>
9.30 – 11.00	The Impact of Regulation and Policy on the Clean Energy Sector Moderator: <i>Simonetta Cheli, Head of Strategy, Programme and Coordination Office, Directorate of Earth Observation Programmes, ESA</i> Gilles Ollier , <i>Head of Sector Environmental Observation, DG Research & Innovation, Directorate C Healthy Planet, C3 – Climate & Planetary Boundaries, European Commission</i> Roland Roesch , <i>Deputy Director of the Innovation and Technology Center, IRENA</i> Andreea Strachinescu , <i>Head of Maritime Innovation, Marine Knowledge and Investment Unit, Directorate-General for Maritime Affairs and Fisheries, European Commission</i> Rodolfo Lacy , <i>Director for the Environment Directorate, Organisation for Economic Co-operation and Development - OECD</i> Alessandro Blasi , <i>Special Advisor to the IEA Executive Director, International Energy Agency</i> Walburga Hemetsberger , <i>Chief Executive Officer, Solar Power Europe</i>
11.30 – 13.00	The Technological Needs and Requirements Deriving from New Regulation in Clean Energy Moderator: <i>Stefaan De Mey, Senior Strategy Officer, ESA</i> Vincenzo Costanzelli , <i>Chief Financial Officer, Trina Solar</i> Bertrand Baratte , <i>Director of Space Market - Global Market & Technologies, AirLiquid</i> Sune Strøm , <i>Senior Lead Adviser for Regulatory Affairs, Ørsted</i> Luca dal Fabbro , <i>Vice President, Circular Economy Network</i> Cristian Scaini , <i>Head of Offshore Innovation Development and Deployment, Saipem</i>
14.30 – 16.00	The Contribution of Space in Support of the Future Moderator: <i>Donatella Ponziani, Downstream Gateway Officer, ESA</i> Stefano Ferretti , <i>Earth Observation Exploitation Engineer, ESA</i> Davide Coppola , <i>Applications Engineer, ESA</i> Alessandra Fiumara , <i>Head of Office - Competitiveness in Positioning Navigation and Timing, ESA</i> Leopold Summerer , <i>Head of the Advanced Concepts and Studies Office, ESA</i> Julio Monreal , <i>Consultant, Space Transportation, ESA</i> Adam Heriba , <i>Head of Launchers Exploitation Cost Monitoring Office, ESA</i> Jorge Alves , <i>Space Exploration Technology Engineer, ESA</i>

Organiser

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Contacts

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