

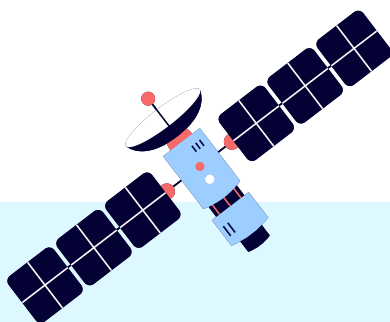


SPACE SOLUTIONS

SPACE APPLICATIONS FOR THE GREEN ENERGY TRANSITION



20TH JANUARY 2025, 14 - 15.30 (BRUSSELS TIME)



WEBINAR I: SPACE SOLUTIONS FOR THE GREEN ENERGY TRANSITION - ESA FUNDING CALLS (Q1 2025)

SERIES OF ONLINE EVENTS

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Welcome and Opening Remarks by Roya Ayazi, Secretary General of NEREUS

- Introduction to ESA's Business Applications Space Solutions (BASS) Energy Working Group, Presentation of upcoming funding opportunities in the energy sector (Q1 2025) by Asimina Syriou, Energy BASS Lead

Feasibility Study: Green Hydrogen as a Sustainable Energy Source;
Fixed Thematic Call for Proposals: Integrated Digital Solutions for the Energy Sector;
Enabling Study: Commercial Applications of Space Weather Data.

- A complementary service: Copernicus Energy Hub by Catherine Mandler, Evenflow
- Insights from Public Authorities Responsible for Energy, Speaker: TBC
- Showcasing Best Practices and Success Stories (Presentations by companies, start-ups, universities, and other stakeholders)
- Q&A and Open Discussion
- Closing Remarks

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Short description of the session:

The session is a follow-up to the 3rd edition European Symposium by NEREUS Regions: Space data for water & energy on 2-3 October 2024. Energy plays a critical role in advancing the local Green Deal agenda, particularly in driving green and climate transitions. The increasing regional impacts of climate change heighten challenges in energy management, requiring local authorities to explore innovative solutions to ensure sustainable practices and resilience.

In this respect, Mina Syriou, ESA's Energy BASS1 Lead, will present and address questions regarding 3 upcoming funding opportunities focused on energy and space-based solutions. She will also showcase ESA's vision to integrate space technology as a pivotal tool in tackling the climate crisis and advancing a sustainable, green future.

Target group: space clusters within and outside NEREUS, SMEs, companies, and all regional stakeholders interested in space businesses regarding the use of space technologies in the energy sector.

Objectives:

- **Enhance Understanding:** Develop a deeper understanding of the challenges and needs faced by public authorities responsible for managing energy infrastructure within their territories.
- **Leverage Satellite Technologies:** Explore how satellite technologies can be employed to monitor and manage energy activities, ensuring efficiency and sustainability. Examine successful integration of space technologies in energy management to foster innovative solutions.
- **Showcase Best Practices:** Highlight exemplary use cases and projects that demonstrate how space technologies address energy-related challenges, including enhancing resilience, optimizing renewable energy deployment, and supporting decarbonization efforts.
- **Climate Change Impacts:** Discuss the implications of climate change on energy production, distribution, and consumption, with a focus on ensuring adaptation and resilience in the energy sector.

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- **Encourage Knowledge Exchange:** Facilitate knowledge-sharing and collaboration to promote innovative and sustainable energy solutions across Europe.
- **Foster Partnerships:** Encourage interregional and European-level partnerships between the space industry, energy sector, and local authorities to implement effective and scalable energy solutions.
- **Policy and Legislation:** Address the role of regional strategies, legislative frameworks, and environmental policies in advancing sustainable energy management and accelerating the transition to green energy.

Brief of the session:

The Task Force for Innovation in Energy Through Space (Energy Task Force), launched by the European Space Agency (ESA) in October 2022, is dedicated to leveraging space technologies to address pressing challenges in the energy sector. With a strong focus on practical implementation, the Task Force brings together members who contribute their unique expertise and insights. Participants engage in dedicated working groups to develop and deliver innovative projects, technology trials, and user-driven solutions aimed at addressing the sector's challenges. These efforts emphasize the socioeconomic and environmental benefits for both users and industry stakeholders. The Energy Task Force's overarching objective is to drive green and economic impacts through ESA's framework mechanisms, supported by active collaboration with the private sector. It serves as a platform for institutions, space agencies, and industry to showcase the transformative potential of space technologies in advancing energy sector solutions. Key focus areas include circularity, decarbonisation, electric mobility, green hydrogen, small-scale generation, and renewable energy. The Task Force maintains an up-to-date overview of policies and activities in these thematic areas, identifying short- and long-term priorities and exploring the unique value space technologies can bring. By implementing targeted initiatives in collaboration with its partners, the Task Force aims to shape a more sustainable and resilient energy future. For more details, visit the following pages: <https://business.esa.int/energy> and <https://business.esa.int/energy-task-force>

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What is About?

The series of webinars has the overall objective to make the cluster and SME community at the regional level more transparent and foster co-operations and partnerships among them. The idea is to stimulate new ways of cooperation within but also outside regions, and foster space business: Another important objective is to introduce the participants to new opportunities for partnerships and funding in the private and public sectors and inform them about relevant EU and ESA-programs.

Presenting the NEREUS space business community (space clusters, companies, SMEs): what is their expertise and best practices; what are their strengths? Cluster competences; Enhancing collaboration and interlinkage amongst NEREUS private space community and regional space ecosystems (clusters, companies, etc) (moderated discussion); Providing an overview of the recent developments/trends and challenges in the European private space sector (EU projects, new trends, investment opportunities); Highlighting new funding EU/ESA funding opportunities (moderated discussion); Exploring how the private space sector can benefit the most from EU business initiatives (ESA BIC, Defence Fund) (moderated discussion);

The private space sector is one of the main players to boost the capitalisation of Europe's space infrastructure. The increasing cooperation between the public and private sectors on many and diverse space domains, in particular, the downstream sector and the ongoing development of big and small private space players is vital for the future of the European space sector but also for an optimal cross-fertilisation with non-space sectors. This online event will introduce the Network's space clusters and companies active in a wide range of domains including agriculture, maritime affairs, R&D, and telecommunication. Moreover, it will explore potential partnerships within but also outside the Network as well as debate on new EU/ESA initiatives and funding opportunities. Private space business in regions is considered one of the most valuable topics for regional strategies, development and growth. In this context, NEREUS will provide its members with the necessary information on the topic and support this cross-cluster and cross-border collaboration.