



# Powered by Space

Tuesday 18 March | 15:00 - 16:30  
Music Hall

## Powered by Space – Satellites and Offshore Wind Energy

This year's "Powered by Space" seminar focuses on empowering wind energy and specifically discussing about offshore wind energy capacities as well as challenges and opportunities for Finland. The seminar delves into the role of satellite data in advancing offshore wind energy and also other renewable resources. As the global energy landscape shifts towards sustainable solutions, offshore wind energy emerges as a cornerstone in achieving carbon neutrality.

Satellite technologies, including Earth Observation (EO), Global Navigation Satellite Systems (GNSS) and Geographic Information Systems (GIS), are instrumental in optimizing site selection, enhancing operational efficiency and ensuring environmental compliance for offshore wind projects.

Our seminar gives insight to the space sector in Finland, how it can meet the energy sector, and provides examples of satellite-data driven wind assessment

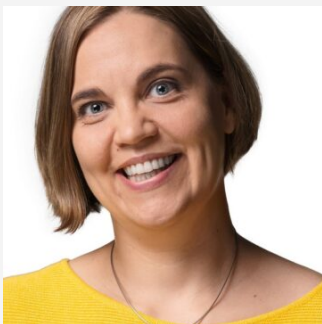
and environmental monitoring success stories in the Nordics.

# Powered by Space – Speakers and Topics

15:00 - 15:10

Opening words – Kvarken Space Center in EnergyVaasa and the InnoWind project

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[Dr. Heidi Kuusniemi](#)

Professor, University of Vaasa & Finnish Geospatial  
Research Institute  
University of Vaasa

15:10 - 15:25

Space business in Finland and opportunities for the energy sector

During Tiina Nurmi's presentation, **Kaisa Ahonen**, the Project Manager of ESA BIC Finland, and **Miika Kostamo**, the Project Manager of ESA Phi-Lab Finland, will also introduce themselves and briefly describe their organizations' activities.



[Tiina Nurmi](#)

Chief Advisor on International Collaboration  
Business Finland

15:25 - 15:40

The intersection of space technology and offshore wind energy

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[Dr. Ali Nadir Arslan](#)

Senior Scientist & Adjunct Professor, Fellow, Finnish  
Meteorological Institute & University of Vaasa  
University of Vaasa

15:40 - 15:55

Regulatory framework of offshore wind power

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[Veera Villikari](#)

Advocacy Manager  
Renewables Finland

15:55 - 16:10

Situational awareness at sea: Protection of an offshore wind farm

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[Mathias Skog](#)

Business Development Manager  
OX2

16:10 - 16:30

Panel discussion: Future prospects of satellite technologies in renewable energy

Moderator: **Heidi Kuusniemi**

Speakers: **Tiina Nurmi, Ali Nadir Arslan, Veera Villikari & Mathias Skog**

# Digital Economy & Kvarken Space Center – University of Vaasa



**Dr. Heidi Kuusniemi**

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## Camilla Wahlberg

Project Manager at the Digital  
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## Susanna Litmanen

Research Assistant

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