

Transforming the Energy Landscape

Tuesday 18 March | 14:30 - 16:00
Meeting Hall

Sector Coupling, Multiproduction, and Integrated Systems for Future Challenges and Opportunities

What's driving the next wave of energy innovation? How can we meet growing energy demands while significantly reducing emissions? And how to move towards a carbon-neutral future while supporting economic growth and sustainability?

The global energy landscape is undergoing a deep transformation. Energy systems are being reimagined to address the challenges of decarbonization, requiring innovative approaches to how we produce, distribute, and use energy.

This seminar invites you to explore the changes reshaping the energy industry. We'll delve into sector coupling, multiproduction, and integrated systems to

uncover practical solutions for today's energy challenges and new opportunities for sustainable growth.

Discover the potential of multiproduction systems and integrated energy networks to maximize the use of renewable resources, transforming industries and communities alike. Learn how sector coupling connects traditionally separate sectors—such as heating, cooling, transportation, and heavy industry—with renewable-powered electricity systems, creating efficient, unified energy solutions.

Hosted by the University of Vaasa's research and innovation platform VEBIC, this event combines insights from academia and industry to tackle the pressing questions facing the energy sector. A thought-provoking panel discussion will close the seminar, offering diverse perspectives on the future energy landscape.

Join us to gain fresh perspectives on the innovations driving energy transitions and to engage with experts shaping a sustainable energy future.

This seminar is closely tied to two VEBIC-led projects that focus on advancing regional energy transformation. The first, DigiBiogasHubs, aims to develop and pilot a system-level solution based on a digital platform and tools that promote the development and interaction of biogas hubs located in different regions as well as the development of the biogas market. The second project, PEAK, creates new knowledge from technical, economical and community point of view to speed up the development of the regional energy system towards carbon neutrality concerning renewable energy.

Transforming the Energy Landscape – Program



Moderator

Karita Luokkanen-Rabetino

Research Programme Manager

14:30 - 14:35

Welcome

14:35 - 14:45

Trends of electricity market and energy system in Finland and Nordic countries



Antti Majava

Specialist, BIOS Research Unit | Managing Director, Käännekohta t&k Oy | Doctoral Researcher, University of Helsinki

14:45 - 14:55

PEAK project: towards flexible regional energy systems in Ostrobothnia



Hannu Laaksonen
Professor | School of Technology and Innovations, Electrical Engineering
University of Vaasa



Giovanna Pinilla De La Cruz
Postdoctoral Researcher | VEBIC
University of Vaasa

14:55 - 15:05

Challenges and Opportunities for rural energy supply and distribution



Ingvar Kulla
Managing Director, Esse Elektro-Kraft

15:05 - 15:15

Accelerating the sustainable energy transition with biogas



Kirsi Spoof-Tuomi
Postdoctoral Researcher | VEBIC
University of Vaasa

15:15 - 15:25

The Future of Energy: What New Energy requires?



Antti Kettu
Sales Manager
ABB Oy

15:30 - 16:00

Panel discussion



Hannu Laaksonen

Professor | School of Technology and Innovations, Electrical Engineering
University of Vaasa



Ingvar Kulla

Managing Director, Esse Elektro-Kraft



Christer E. Wik

General Manager
Wärtsilä Finland Oy



Antti Majava

Specialist, BIOS Research Unit | Managing Director, Käännekohta t&k Oy | Doctoral Researcher, University of Helsinki



Mats Söderlund

Deputy-CEO | CFO | Vice President, EPV



Antti Kettu

Sales Manager
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