

# Wind Energy 360° - Operational aspect of wind power

You'll learn a lot about wind power: market, rules and roles, turbine systems, different makes and models, loads and risks, and also efficient operational strategies. Speakers have best level experience in industry and real life examples. Large amount of time is allocated for networking.



Opit paljon tuulivoimasta: markkinoista, säännöistä ja rooleista, turbiinijärjestelmistä, eri merkeistä ja malleista, kuormista ja riskeistä sekä tehokkaista toimintastrategioista. Puhujilla on paras kokemus alalta ja tosielämän esimerkeistä. Verkostoitumiseen on varattu paljon aikaa.

You'll gain in-depth knowledge on markets, regulations, and roles, along with turbine systems, various makes and models, loads, risks, and efficient operational strategies. Our expert speakers, with top-level industry experience, will share real-world examples to enhance your learning. Plus, ample time is set aside for networking, so you can build valuable connections within the field.

Saat syvällistä tietoa markkinoista, säännöksistä ja rooleista sekä turbiinijärjestelmistä, erilaisista merkeistä ja malleista, kuormista, riskeistä ja tehokkaista toimintastrategioista. Asiantuntijapuhujamme, joilla on huipputason alan kokemusta, jakavat todellisia esimerkkejä oppimisen tehostamiseksi. Lisäksi verkostoitumiseen on varattu runsaasti aikaa, jotta voit rakentaa arvokkaita yhteyksiä kentän sisällä.

Finland is experiencing a wind power boom, and the workforce is rapidly expanding. This seminar is designed for new professionals and those transitioning to operational roles. Whether you're a developer, designer, operations manager, service supervisor, or team leader, this event will equip you with the insights and tools you need to thrive.

Secure your spot today and step into the most dynamic part of the wind power industry!"

There has been construction boom of windpower in Finland and numbers keep rising. This shows also in ranks of people working in industry. Not only developers and designers, but operation managers, service supervisors and team leaders. This seminar is aimed for new professionals and people who are shifting to operational part.

Book your seat and step into most interesting part of wind power!

**Early bird discount 980 eur +(VAT), until 30.10.2024 monday, 1.11.2024 normal Price is 1250 eur+(VAT)**

**Participation as close and distance training.**

## Who is the training suitable for?

This seminar is aimed for new professionals and people who are shifting to operational part.

Wind farm employees  
municipal decision-makers  
owners and financiers of wind turbines  
those who are responsible for maintenance  
those who are responsible for use  
those who are responsible for occupational safety

## Content of the training

PRELIMINARY SCHEDULE, companies selected for presentations, but speakers and their info will be announced soon.

**Tuesday 21.1.2025**

### Windpower globally, Wind power in Finland

- Market situation, history and trends

- Main challenges, transition and China factor

### **Power, reactive power, quality**

- Delivered products, quality
- Capacitors, statcoms, batteries
- New systems adjacent to wind farms

Networking 45 min

### **Grid code & reserve capacity market**

- EU market, special features in Finland
- New market for reactive power, frequency and power reserves
- Remote control functions, costs and benefits

### **Numeric estimation methods**

- Estimation methods for wind and market prices
- AI applications for better precision
- Long term, interday and intraday

### **Loads created by wind**

- Loads affecting turbines in operation, short and long term stresses
- Main components and configuration options

### **Turbines in Finland**

Networking 30 min

### **Safety in wind turbines**

- Roles and responsibilities
- Risks & management
- Training and supervision

### **Day's discussion**

- Summary of the day
- Audience questions
- Discussion

## **Wednesday 22.1.2025**

### **Operation of winfarms**

- Stakeholders & roles
- Functions
- Responsibilities

### **Profit generation, stakeholders**

- Different power supply contracts, incentives and compensations
- Different stakeholders, their requirements and motives

### **Availability**

- Turbine Supply Agreement (TSA)
- Availability clauses
- Definitions, exclusions

### **Systems in turbines**

- Detailed review of all main systems and related problems
- Maintenance works

### **Maintenance strategies**

- Proactive vs. reactive maintenance
- different levels of maintenance
- Efficient maintenance

### **Concluding discussion**

- Summary of the day
- Audience questions

- Discussion

## Other important information

Feodor has long experience working for wind power – preparation, installation, supervision, maintenance, technical problems, dispute resolution and safety. His main work is leading 3D Wind Service Oy and Toholampi Wind training facility. Recently he has also worked as a part-time teacher in traing programs offered by Taitotalo.

## Contact

### **Margit Ojanen**

koulutuskoordinaattori, sähkö- ja automaatio  
050 374 2191  
margit.ojanen@taitotalo.fi

## Experts

### **Jukka Kauppinen**

Chief Engineer, kouluttaja, voimalaitosala  
044 722 4751  
jukka.kauppinen@taitotalo.fi

### **Feodor Gurvits**

Director  
Airice Oy

## Upcoming trainings

## Lisätieto