

CONFERENCE FOR
WIND POWER DRIVES
CWD 2027
Aachen 16th – 17th of March

DRIVETRAIN AND SYSTEMS
ENGINEERING CONFERENCE
DSEC 2027
Aachen 16th – 17th of March

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Call for Papers extended through 30 April 2026

CWD 2027 covers the entire electromechanical drivetrain of wind turbines, offering an in-depth view into subsystems and ideas for making wind energy more sustainable.

DSEC 2027 (formerly ATK) addresses topics related to drivetrain technology and machine elements, focusing on (virtual) development methods using systems engineering. Since AI is changing everyday life in engineering, we are also seeking publications on how AI enables advancements to established engineering methods.

Accepted submissions:

Research papers*
Application papers

Submit abstracts at:

cwd-dsec.de

Speaker fee:

375€ plus VAT

CWD 2027 Topics

Any questions?
We're here to help!
info@cwd-dsec.de

Powertrain components

- Main bearing
- Planetary plain bearing
- Gearbox
- Generator
- Power electronics

Lifetime extension and monitoring systems

Noise, vibration, and harshness

Digitalization and AI

Technological contributions to sustainability

- Circular economy
- Generator technologies (solenoids and windings)
- Green steel and heat treatments

Vertical integration vs. cooperative systems engineering

- Holistic and probabilistic design
- Reliability-based design



DSEC 2027 Topics

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Systems engineering

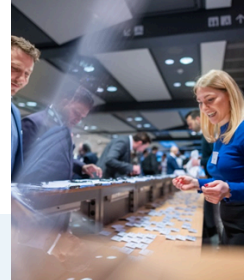
- MBSE model generation and analysis
- Automated product development processes
- Accessibility of models and model-based workflows in engineering platforms
- Cross-domain systems engineering
- Integrating software engineering into MBSE for mechatronic systems
- Connecting virtual and digital twins
- Model classification and re-use

Drivetrain technology

- Noise, vibration, and harshness
- Hydrogen fuel cell drives
- Hydrogen combustion engines
- Electrification and hybrid drivetrains
- Predictive maintenance and condition monitoring
- Testing and validation
- Implications of electrification on drivetrain systems engineering

Machine elements

- Multi-scale tribological modeling and simulation
- Model-based tribological design
- Sensor-integrating and smart machine elements
- Current passage in machine elements
- Sustainable lubricants
- Superlubricity



Opening Plenary | Panel Discussion
Competitive Situation Wind Turbine OEM

