



# Predictive Maintenance in the Energy and Process Industry

Call for Papers

Hybrid conference  
Nov 09 – 10, 2021  
Munich



## About the Conference

We are currently observing a change in the framework of how we manage facilities, structures, components, and other construction during their lifetime. If maintenance is performed only when needed and not at regular pre-set intervals it can reduce costs, increase the efficiency and increase the residual life. Predictive Maintenance goes along with the increasing digitalization in all industrial sectors.

Based on Big Data, the condition of plants and their components are assessed and the need for their maintenance is identified. The next step is prescriptive maintenance which adapts to the operation of plants and components automatically, so that the maintenance required is optimized.

TÜV SÜD provides with the conference **Predictive Maintenance in the Energy and Process Industry** a forum where you can gain information on the state of the art and where you have the chance to meet experts from the respective industries in virtual chat rooms as well as in person in Munich. This conference follows the previous TÜV SÜD conference on "Predictive Maintenance" in 2019 and earlier conferences "Condition Assessment in the Energy and Process Industry", but this year is addressing an international audience and will be held as a hybrid conference.

The main goals are the exchange of practical experiences, different Predictive Maintenance approaches as well as state of the art monitoring, diagnosis and test methods. What is useful and provides cost benefits? How much monitoring makes sense? Which new approaches outperform current maintenance strategies?

## The conference is intended for

- Employees from the energy and process industries, wind and geothermal energy
- Maintenance engineers
- Manufacturers and suppliers of plants and components
- Service providers and inspection companies
- Representatives of authorities and associations
- Employees of universities and research institutes
- Experts and technical insurers

## Commitee

- Dr. Edwin Becker, FLUKE Deutschland GmbH
- Steffen Bergholz, Framatome GmbH
- Dr. Stefan Buse, TÜV SÜD Industrie Service GmbH
- Martin Dahl, BASF SE
- Prof. Dr. Christian Große, TU München
- Stefan Günther, Linde Plc.
- Prof. Dr. Hans-Georg Herrmann, Fraunhofer Institut für zerstörungsfreie Prüfverfahren IZFP
- Dr. Robert Kauer, TÜV SÜD Industrie Service GmbH
- Richard Losbichler, Wacker Chemie AG
- Jörn Neumann, Onyx Power
- Friedrich Schöckle, AMTEC Messtechnischer Service GmbH
- Dr. Johannes Vrana, Vrana GmbH – ZfP Beratung und Lösungen
- Martin Winterstein, TÜV SÜD Industrie Service GmbH



## Topics

### Predictive Maintenance

- Cost-Benefit analysis
- Project reports and operational experience

### Future Trends

- Cyber Physical Loop
- Prescriptive Maintenance
- New measurement techniques
- Artificial Intelligence
- Data reliability
- Cloud / Edge Computing / Cyber Security / Data Ownership
- Digital Twin / Building Information Modeling (BIM)

### Selection of the appropriate Maintenance Strategy

- Criticality analysis / risk assessment
- Remaining life considerations in energy and plant engineering
- Overall plant monitoring
- Inspection concepts
- Spare parts management
- How much monitoring makes sense?
- Asset management and reliability improvements program

### Structural Health Monitoring

- Vibration Monitoring
- Corrosion Monitoring, e.g. under insulations
- Data analysis and Big Data
- Use of structural health monitoring for adaptive controls (performance increase, vibration detection and for process optimization, acoustic emission etc.)
- Integrity operating window

### Non-Destructive Assessment

- Practical examples
- Operational experience



## Information

### Conference language

The Conference language will be English.

### Call for Papers

If you are interested in presenting a paper on the main topics, please submit an abstract to

TÜV SÜD Akademie GmbH  
Ms. Susanne Zecher  
susanne.zecher@tuvsud.com

### Deadlines

Submission of abstracts: June 11, 2021

Notification to authors: End of June 2021

The final conference program will be published in July 2021

Submission guidelines can be found on the conference website:  
[www.tuvsud.com/akademie/conference-predictive-maintenance](http://www.tuvsud.com/akademie/conference-predictive-maintenance)

The conference will be held as a hybrid conference. If possible, speakers should give their presentations onsite at the conference venue.

### Conference fee (online or onsite participation possible):

<b>Conference fee::</b>	€ 890,00 plus current VAT (if applicable)
<b>Early booking:</b>	€ 820,00 plus current VAT (if applicable) (bookings before Oct 1st)

50 % discount for members of universities.

Your registration confirmation will include travel and hotel information, but does not include hotel reservation and expenses. Online participants will receive information about technical requirements for participation.

**Register at:**

congress@tuvsud.com

[www.tuvsud.com/akademie/conference-predictive-maintenance](http://www.tuvsud.com/akademie/conference-predictive-maintenance)

**Contact**

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**Conference venue**

TÜV SÜD, Auditorium Chiemsee

Westendstr. 199

80686 Munich

Germany

In partnership with

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