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## Preliminary Announcement

### Call for Papers

2018 IERE - RWE TI Munich Workshop

- *Joint Event co-organized by*  *and*  -

Power Generation in Transition



Frauenkirche Munich in front of Alpine panorama

September 11 - 14, 2018

Munich, Germany

Organized by IERE and RWE Technology International GmbH

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## Power Generation in Transition

### *About the theme*

Remember when you got your first mobile phone? It was not smart yet, but still it disrupted your life as you could suddenly make phone calls from almost any place your provider covered. One of the early challenges was that remembering to recharge your phone was a routine disruption that soon became a new routine. The rise of renewables, mobile and digital technologies in the energy industry worldwide requires similar adjustments. Over the past decade, the disparity between utilities is growing fast, with those owners gaining a competitive advantage, who are willing to modernize their business models while others who work against or delay change will lose ground. The majority of global installed capacity is still conventional generation, with coal holding the lead. As those units age – especially when they find themselves in changing markets or regions requiring more challenging operating profiles – they will need modernization and flexibilization in line with new business models.

### *About the Joint Event*



ONE TOPIC: POWER GENERATION IN TRANSITION  
ONE VENUE: MUNICH UNTERSCHLEISSHEIM  
TWO EVENTS: VGB CONGRESS & IERE WORKSHOP



IERE WORKSHOP

VGB CONGRESS

The Joint Event is the collaboration of IERE Workshop and VGB Congress titled as the common theme of "Power Generation in Transition" to be held between September 11 and 14 in Munich, Germany.

All participants have the opportunity to join the lectures of both events without limitation and to exchange information together in the common break areas and the exhibition areas as well as the joint Get-Together in the exhibition, the Joint Evening Event and the Joint Technical visit.

### *Who should attend?*

The Workshop is intended for experts actively involved in the selected themes, from IERE members, non-members and academia, as well as all those interested in the evolution of the electrical power industry and the technology development and business development opportunities associated to this evolution. IERE will invite prominent speakers for keynote speeches.

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## Outline Schedule:

Schedule may be subject to change according to the registration of speakers.

- September 11, 2018 : Welcome Reception
- September 12, 2018 : 2018 IERE-RWE TI Munich Workshop (Day 1),  
Joint Evening Event at Hofbräuhaus co-organized by VGB
- September 13, 2018 : 2018 IERE-RWE TI Munich Workshop (Day 2)
- September 14, 2018 : Joint Technical Visit co-organized by VGB : TBD

## Session Themes:

Session structure may be subject to change according to the registration of speakers. There is a possibility we ask you to change from Oral Session to Poster Session in accordance with the number of submission of abstracts.

### Session 1 - Penetration of Renewable Energies

The unpredictability of renewable assets that operate only when the wind blows and the sun shines require changes to operational models. More frequent cycling, start/stops, and ramping of assets cause faster equipment wear. In addition, a cleaner, greener and integrated grid requires the solid foundation of a modernized, upgraded and expanded transmission system. This session will focus on the development and integration of various technologies and systems to adapt to changes in strategy and operational models.

Potential topics include:

- Flexible generation solutions – technology and operational advancements
- HRSG design to meet next generation cycling and efficiency requirements
- Transmission as enabler – current challenges and innovations in grid technologies
- Case studies of utility transitions

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## **Session 2 - The Greener Side of Generation**

There is a growing trend in the power industry to shift away from coal-fuelled generation toward clean power. However the crux of the clean energy debate is that it comes at a price, both fiscal and social. There is a cost to eliminate smog and greenhouse gases by transforming plants to clean coal technologies. This session will focus on technology options, technology selection and grid access issues related to clean power applications and research findings.

Potential topics include:

- Biomass-to-energy conversion project examples
- Biomass conversion – technical options and challenges
- Carbon capture, storage and utilization (CCUS) – project examples and assessment Studies

## **Session 3 - Showcasing Innovations for Power Generation**

This session will focus on cases studies, application experiences and research findings within the electricity supply industry in deploying new technologies such as digital solutions, big data applications, internet of things (IoT), artificial intelligence and robotics.

Potential topics include:

- Energy and Battery Storage – applications in future generation
- Asset Management – case studies of digital innovations in plant operation and maintenance
- Big Data – intelligence software and advanced analysis
- Cyber security – safety check 4.0
- Smart grid technologies

## **Session 4 - Generating More Efficiently**

Market forces and policies are driving the energy industry to reduce carbon emissions implementing advanced reduction technologies. This session will focus on the latest technology trends and options aiming to reduce emissions, improve efficiency and lower generation costs.

Potential topics include:

- Technical, operational and IT aspects of boosting energy efficiency
- Energy efficiency case studies

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## Program

Program may be subject to change according to the registration of speakers and participants.

### September 11, 2018

#### **Welcome Reception**

Joint Get-together in the VGB Congress exhibition area

### September 12, 2018

#### **Plenary Session**

Opening Address: IERE Chair

Welcome Speech: Mr. Ingo Birnkraut, RWE TI

Keynote Speech: TBD

#### **Session 1 - Penetration of renewable energies**

#### **Session 2 - The greener Side of Generation**

#### **Poster Session**

To be determined

#### **Joint Evening Event (Optional)**

Joint dinner at Hofbräuhaus in Munich

### September 13, 2018

#### **Session 3 - Showcasing Innovations for Power Generation**

#### **Session 4 - Generating More Efficiency**

#### **Panel Discussion**

To be determined

#### **Poster Session**

To be determined

### September 14, 2018

#### **Joint Technical Visit (Optional)**

To be determined

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## Call for Papers

<< **Abstract Submission: No later than June 6, 2018** >>

You are kindly requested to submit abstracts of the Oral Session or Poster Session for the 2018 IERE - RWE TI Munich Workshop by email by **June 6, 2018**.

Working language is English.

to: **register (at) iere.jp** [Please substitute “ (at) ” with “@”]  
IERE Central Office  
2-11-1 Iwado Kita, Komae-shi, Tokyo 201-8511, Japan  
Phone: +81-3-5438-1717 Fax: +81-3-3488-5100

As for the **format of the abstract**, please refer to the IERE website as follows.

<https://www.iere.jp/events/workshop/2018-munich/index.html>

<< **Presentation files Submission: No later than August 20, 2018** >>

You are kindly requested to submit presentation files (Powerpoint) of the Oral Session and Poster Session for the 2018 IERE - RWE TI Munich Workshop by email by **August 20, 2018**.

Abstract and presentation file will be uploaded IERE website and opened to all participants before the Workshop and to the public after the Workshop.

Working language is English.

## Registration

As above mentioned at “About the Joint Event”, 2018 IERE-RWE TI Munich Workshop is a part of the Joint Event co-organized IERE and VGB. You are kindly requested to register according to your membership of IERE or VGB. When you have memberships both IERE and VGB, please kindly ask to IERE Central Office **register (at) iere.jp** [Please substitute “ (at) ” with “@”].

Detailed information on Registration will be announced in the coming 1st Announcements later .

## Registration Fee

The Registration fee will be announced in the coming 1st announcement.

If you have any questions on registration fee, please kindly ask to IERE Central Office **register** **(at) iere.jp** [Please substitute “ (at) ” with “@”].

Registration fee will cover the attendance of the Joint Events as follows.

<b>IERE Workshop</b>	- Welcome reception(Joint Get-together with VGB) on September 11, 2018
	- Workshop Day 1 including break and Lunch on September 12, 2018
	- Workshop Day 2 including break and Lunch on September 13, 2018

<b>VGB Congress</b>	- Joint Get-together with IERE on September 11, 2018
	- Congress Day 1 including break and Lunch on September 12, 2018
	- Congress Day 2 including break and Lunch on September 13, 2018

Details including cancellation policy will be announced in the 1st announcement.

## Conference Venue & Accommodations

### Conference Venue

INFINITY HOTEL & CONFERENCE RESORT MUNICH, Munich

Location: Andreas-Danzer-Weg 1 85716, Unterschleißheim, Deutschland

Website: <https://www.infinity-munich.de/en.html>



Map URL: <https://goo.gl/4Vh6tG>

Directions URL: <https://www.infinity-munich.de/en/directions.html>



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## Accommodations

INFINITY HOTEL & CONFERENCE RESORT MUNICH, Munich

Location: Andreas-Danzer-Weg 1 85716, Unterschleißheim, Deutschland

INFINITY HOTEL gives special rates for conference participants as indicated below.

Website: [https://aws.passkey.com/event/49547839/owner/1468684/home?lang=en\\_US](https://aws.passkey.com/event/49547839/owner/1468684/home?lang=en_US)

**(valid until July 16, 2018)**



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## About RWE Technology International GmbH

Although the engineering consulting company RWE Technology International (RWE TI) was established as recently as 2015, it has many historic roots that date back to the end of the 19th century, right when Germany became a world leader in industrialization.

The RWE Group has a great depth of operations and engineering knowledge and practical experience as an asset developer, owner and operator. This experience means RWE TI not only provide theoretical solutions to mining and power plant issues, but also the practical implementation services clients need to transform expert advice into tangible benefits.

RWE TI's expertise spans the full range of mining methods and electricity generation technologies, including hard coal, lignite, oil, gas and nuclear. With clients in more than 70 countries around the world, RWE TI offers engineering support, specialist operations services and consultancy advice to clients operating in different market conditions worldwide.



## About IERE

IERE is an organization for exchanging electricity and energy related cutting-edge technologies and R&D information among its members from the electricity & energy supply industry, equipment provider businesses, academic research, government, etc. This unique platform is of great help for executives, senior managers, engineers, and researchers who are responsible for R&D and solutions. It is a worldwide, non-profit organization, established as “International Electric Research Exchange” in 1968.

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