

## First Announcement

2018 IERE - RWE TI Munich Workshop

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

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

# 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*

  
IERE WORKSHOP

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

  
POWERTECH  
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: Joint Get-together co-organized by VGB

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

## 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 in the evening

### 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.

## Submission Items & Deadlines

### For Participants [including speakers]

Items	Format No.	Deadline	To:
Registration Form (Page 12)	1	July 31, 2018	<a href="mailto:register(at)iere.jp">register(at)iere.jp</a> [Please substitute (at) with @]
VISA Form (If necessary, Page 14)	5	July 31, 2018 (It takes a few weeks to issue)	Ditto
Registration Fee	—	July 31, 2018	Please refer to Page 7
Joint Evening Event Fee [optional]	—	July 31, 2018	Ditto
Joint Technical Visits Fee [optional]	—	July 31, 2018	Ditto

### For Speakers

Items	Format No.	Deadline	To:
Abstract	2	June 6, 2018	<a href="mailto:register(at)iere.jp">register(at)iere.jp</a> [Please substitute (at) with @.]
Speaker's Information	3	July 31, 2018	
Copyright Permission	4	July 31, 2018	
Presentation Slides (PowerPoint file)	—	August 20, 2018	

The formats (No.1 to 5) can be downloaded from

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

Speakers are kindly requested to submit their Speaker's Information and Copyright Permission **by July 31, 2018** and their Presentation Slides (PowerPoint file) **by August 20, 2018**.

## 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 “@”].

<b>IERE members :</b>	<b>EUR 450</b>
<b>(Optional events)</b>	
<b>- Joint Evening Event :</b>	<b>EUR 120</b>
<b>- Joint Technical Visit :</b>	<b>EUR 30</b>
<b>Non-members :</b>	<b>EUR 1,950 (inclusive of optional events)</b>
<b>Academic participants :</b>	<b>EUR 600 (inclusive of optional events)</b>
<b>Joint Get-together for an Accompanying person(spouse/partner) :</b>	<b>EUR 60</b>

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

### **Recommended optional events**

#### **- Joint Evening Event**

Joint dinner at Hofbräuhaus in Munich on September 12

#### **- Joint Technical Visit**

Visiting electric power facilities (tentative) on September 14

Tour starts/finishes at Infinity Hotel from 9:00 to 13:00 without lunch.

Both offers are on a first-come-first-served basis.



## Registration

As mentioned earlier at “About the Joint Event” on Page 1, 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 “@”] in advance.**

IERE Central Office kindly ask for Credit Card Payment, Bank Transfer is available only for participants with IERE membership.

**[Deadline: July 31, 2018](#)**

### (a) On-line Registration

URL: [https://www.iere.jp/cgi-bin/event\\_form/18WS/event\\_form\\_entry.cgi](https://www.iere.jp/cgi-bin/event_form/18WS/event_form_entry.cgi)

or

(b) Please submit a registration form (Format 1, Page 11) to IERE Central Office by e-mail.

**[Deadline: July 31, 2018](#)**

## Payment

Please make payment for the above mentioned fee by **July 31, 2018.**

IERE Central Office kindly ask participants for Credit Card Payment, Bank Transfer is available only for participants with IERE membership. Central Office will issue and send the ticket for on-site reception to each participant via email after the payment.

**Participants should show the tickets to the reception staff when checking in the venue.**

### (a) On-line Credit Card Payment

Please access to the URL: [https://www.iere.jp/Payment/paypal\\_18WS.html](https://www.iere.jp/Payment/paypal_18WS.html)

### (b) Bank Transfer \* (**available only for IERE members**)

Name of the Bank:	MUFG Bank, Ltd.
Name of the Branch:	Seijo branch
Name of the account:	IERE
Account Number:	0091344
Bank address:	15-1 Seijo 6-chome, Setagaya-ku, Tokyo, 157-0066 JAPAN
SWIFT code:	<input type="text" value="B"/> <input type="text" value="O"/> <input type="text" value="T"/> <input type="text" value="K"/> <input type="text" value=""/> <input type="text" value="J"/> <input type="text" value="P"/> <input type="text" value=""/> <input type="text" value="J"/> <input type="text" value="T"/>

\* **Remittance charge, Lifting charge, Correspondent charge and other charges should be paid by participants.**

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## **Visa (Please do not forget!)**

For participants from some countries needing a VISA to enter Germany, please consult with travel agent in your country for the details.

If you need an Invitation Letter\*, please refer to '14. Invitation Letter for VISA' on Page 12 and 14.

\* RWE Technology International GmbH may be able to issue an invitation letter for participants who need to apply for Visa. It may take a few weeks to complete the procedures in RWE Technology International, so please submit the form as soon as possible.

Disclaimer: RWE Technology International reserves the right to fulfill or decline, at RWE Technology International's discretion, requests for letters of invitation for visa application support purpose.

## 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)**



## REGISTRATION FORM

Format 1

### Power Generation in Transition

2018 IERE - RWE TI Munich Workshop

September 11-14, 2018, Munich, Germany

Please type ☐ at appropriate boxes, then send this form **by July 31, 2018** via email to:

IERE Central Office: **register(at)iere.jp** [Please substitute (at) with @] / Fax: +81-3-3488-5100

1. Name	<input type="checkbox"/> Prof. <input type="checkbox"/> Dr. <input type="checkbox"/> Mr. <input type="checkbox"/> Ms. <input type="checkbox"/> Other, Please specify:	
	First Name	Family Name
2. Position, Department		
3. Company/Organization		
4. Address	Zip Code	Country/Region
5. Contact Information	E-mail	
	Phone Number	
	Fax Number	
6. I will contribute to a presentation	<input type="checkbox"/> Yes <input type="checkbox"/> No Title:	
7. Registration Fee [September 11-14]	Registration Fee [Participants including speakers should pay registration fees.] <input type="checkbox"/> EUR 450 : <b>IERE Member</b> <input type="checkbox"/> EUR 1,950 : <b>Non-IERE Member (inclusive of optional events of 8 &amp; 9)</b> <input type="checkbox"/> EUR 600 : <b>Academia (inclusive of optional events of 8 &amp; 9)</b> Note: When participation is canceled irrespective of the reason after August 20, 2018, Registration Fee might be charged or not be reimbursed.	
8. Joint Evening Event (Optional for only Members) [September 12]	<b>EUR 120 per person</b> : Dinner at Hofbräuhaus in Munich <input type="checkbox"/> Yes : <b>Number of participants ____ (including accompanying persons)</b> <input type="checkbox"/> No * The offer is on a first-come-first-served basis.	
9. Joint Technical Visit (Optional for only Members) [September 14]	<b>EUR 30 per person</b> : Visiting electric power facilities (tentative) <input type="checkbox"/> Yes : <b>Number of participants ____ (including accompanying persons)</b> <input type="checkbox"/> No * The maximum number of participants is up to 30. ** Admission will be allotted in order of application.	
10. Joint Get-together attendance <b>not mandatory</b>	Registration Fee covers the Joint Get-together as well as lunch on September 12 & 13. For reservations, please let us know your attendance. <input type="checkbox"/> <b>Joint Get Together on September 11</b>	
11. Accompanying Person	If your spouse or partner accompanies you on Joint Get Together, please write her or his name, title and the number of the persons (Mr./Ms./ person(s)) <input type="checkbox"/> <b>EUR 60 per person : Joint Get Together on September 11</b>	
12. Payment Amount	Total : EUR _____	
13. Payment Method [to be completed by July 31]	<input type="checkbox"/> <b>Credit Card: URL for On-line Credit Card Payment (in EUR):</b> <a href="https://www.iere.jp/Payment/paypal_18WS.html">https://www.iere.jp/Payment/paypal_18WS.html</a> <input type="checkbox"/> <b>Bank Transfer (available only for IERE members)</b> * IERE Central Office will send you the invoice.	
14. Invitation Letter for VISA	RWE TI may be able to issue an invitation letter for participants who need to apply for Visa. <i>Disclaimer: RWE TI reserves the right to fulfill or decline, at RWE TI's discretion, requests for letters of invitation for visa application support purposes.</i> <input type="checkbox"/> <b>I need an invitation letter for Visa application.</b> <input type="checkbox"/> No <b>Name(s)/Country on passport(s):</b> _____	
15. Information from IERE	Do you agree with receiving e-mail notice on future activities/IERE E-mail Magazine from IERE Central Office? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Central Office may enclose 'Participants list' in the conference bag to facilitate communication among participants. The list will contain '1. Name', '2. Position, Department', '3. Company/ Organization etc.', '4. e-mail address', '5. City' and '6. Country/Region' of this format. If you DON'T want to open these information, please type '✓' at appropriate boxes shown below.   ☐ 2. Position, Department   ☐ 4. e-mail address

## Data protection information

### 1. General

We at International Electric Research Exchange ("IERE") take the protection of your personal data very seriously. Your privacy is important to us. We process your personal data in accordance with the applicable legal data protection requirements for the purposes listed below. Personal data in the sense of this data protection information is all information that is related to your person. In the present case these are in particular your contact data as well as the data for communication with you ("**personal data**").

### 2. Controller and contact

Responsible for the processing of your personal data is IERE Central Office, 2-11-1 Iwado-Kita, Komae-shi, Tokyo 201-8511 Japan, TEL +81-3-5438-1717, FAX +81-3-3438-5100.

### 3. Purposes for which your data are collected and processed and their legal basis

#### 3.1 Participant list for 2018 IERE-RWE TI Munich Workshop

IERE processes your personal data for the purpose of promoting communication among the participants of the 2018 IERE-RWE TI Munich Workshop by distributing the participants list to each participant at the venue.

The legal basis for the processing and provision of your personal data is therefore **Art. 6 GDPR, Lawfulness of processing, subparagraph (1), point f** ("**legitimate interests**") <https://gdpr-info.eu/art-6-gdpr/>.

### 4. Recipient of your personal data

Your personal data will also be used by other companies that work on behalf of IERE ("contract processors") or in the context of IERE's business partnerships ("third parties"). These can be external companies and partners ("IERE Partners").

#### 4.1 Data storage and deletion

The data will be kept for the duration of the 2018 IERE-RWE TI Munich Workshop (Sep 11-14, 2018) and for up to 3months. After 3 months at the latest after the Workshop, all data collected will be deleted without exception.

### 5. Your rights

#### 5.1 Information, correction, deletion etc.

We will be happy to tell you whether and to whom we have stored your personal data and, if applicable, to whom we have passed them on. In accordance with the legal provisions, you may assert the following additional rights: Correction, deletion, restriction of processing (blocking for certain purposes) and data transmission.

#### 5.2 Right of withdrawal

If you have given us a separate **consent** for the processing of your personal data, you can **revoke** this at any time. The legality of the processing of your data until revocation remains unaffected by a revocation.

#### 5.3 Questions or complaints

If you have any questions or complaints, you have the right to contact the responsible supervisory authority, the North Rhine-Westphalia State Office for Information Security and Data Protection [www.la.bayern.de/en](http://www.la.bayern.de/en)

### 6. Contact

If you have any questions or comments on the privacy policy of IERE (for example, on the disclosure and updating of your personal data), please contact us at [office@iere.jp](mailto:office@iere.jp).

Tokyo, Japan, April 27, 2018

Takao Watanabe  
Secretary General  
IERE Central Office

Central Office takes responsibility for processing participants' personal data based on "Data protection information".

☐ I agree the policy for processing my personal data with IERE Central Office.



# Submission Form for Visa Application Documents

If participants need Visa application documents (include invitation letter), please type ☒ and fill out the form and send to: IERE Central Office at Email: register(at)iere.jp [Please substitute (at) with @].

Be sure to submit it **by July 31, 2018**.

<input type="checkbox"/> <b>I need Visa Application Documents (include invitation letter) for participation of the 2018 IERE - RWE TI Munich Workshop.</b> * RWE TI may be able to issue Visa application documents (include invitation letter) for participants who need to apply for Visa. It may take a few weeks to complete the procedures in RWE TI, so please submit the form as soon as possible.  Disclaimer: RWE TI reserves the right to fulfill or decline, at RWE TI's discretion, requests for letters of invitation for Visa application support purposes.			
Name on passport	First Name:	Middle Name:	Family Name:
Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female		
Date of birth			
Passport No.			
Nationality			
Occupation			
Company/ Organization etc.			
Expected date of entry			
Flight information of entry			
Expected date of departure			
Flight information of departure			
Accommodation/ Hotel			
Contact information (Mobile phone number)			
Colloquium Participation	<input type="checkbox"/> September 11, Joint Get-Together		
	<input type="checkbox"/> September 12, 2018 IERE - RWE TI Munich Workshop (Day 1)		
	<input type="checkbox"/> September 13, 2018 IERE - RWE TI Munich Workshop (Day 2)		
	<input type="checkbox"/> September 14, Joint Technical Visit		

## [Privacy Policy]

The Receiving Party agrees not to use any Private Information of the Disclosing Party for any purpose except for the procedure of VISA application among the relevant parties.

The Receiving Party agrees not to disclose any Private Information of the Disclosing Party to any third parties.

# **IERE Members List (as of April 21, 2018)**

Australia	CS Energy Ltd.	CSIRO	
Canada	Powertech Labs Inc.		
China	CEPRI	GPG	NARI
France	Enedis	ENGIE	
Germany	EnBW	innogy SE	RWE TI
Hong Kong SAR	CLPRI		
Indonesia	PLN		
Iran	NRI		
Japan	Chubu EPCO	Chugoku EPCO	CRIEPI
	FEPC	Fuji Electric Co., Ltd.	Hitachi
	Hokkaido EPCO	Hokuriku EPCO	IHI
	J-POWER	JAPC	Kansai EPCO
	Kyushu EPCO	MHPS	Mitsubishi Electric
	NGK	Sumitomo Electric	Shikoku EPCO
	Tohoku EPCO	TEPCO	TOSHIBA
	KEPCO	KEPCO E&C	KERI
Korea			
Malaysia	TNB		
Mexico	INEEL	Prolec GE	
Philippines	APC	MERALCO	
Singapore	SPPG		
South Africa	Eskom	PIESA	
Spain	Gas Natural Fenosa	REE	
Taiwan	TPC		
Thailand	EGAT	EURC*	
U.S.A.	EPRI		

\*: Academia



## 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.

IERE Central Office  
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<https://www.iere.jp>

1st issue: May 11, 2018  
2nd issue: May 28, 2018  
3rd issue: June 5, 2018  
4th issue: June 15, 2018