



Final Program (as performed)

2019 IERE-PLN Bali Workshop

"Smarter and Cleaner Electricity for Better Life"



Pura Ulun Danu Bratan, Bali, Indonesia

March 11 – 14, 2019 Bali, Indonesia

Organized by IERE and PLN





Smarter and Cleaner Electricity for Better Life

About the theme

The economy is largely built on a reliable supply of cheap electricity. Therefore electricity production is still mostly based on fossil fuels. A challenge is to keep the supply system stable and affordable with the rapid expansion of intermittent renewable energy sources. The power lines, transformers, and control stations that make up our current energy grid are old, increasingly unreliable, and not adequate to handle a significant increase in renewable energy. In addition the utilization electricity for non-power sector such as transportation is still growing significantly.

To move toward a cleaner energy economy, improvements of electrical grid is needed, as well as construct the smart system which can solve the issues arising from the intermittency of renewable electricity sources. Smart appliances respond intelligently to a signal from the grid operator. Variable pricing of electricity might also help, and for this smart meters with a momentary tariff indicator are needed. Modern contingency reserves have to consist of smaller agile power plants that are well distributed across the area to be served. Decentralized generation is beneficial in this respect, since it reduces the dependence on a few distant generators and long power lines.

Despite its smart and clean value to society, electricity has to be affordable. Indeed the use of electrical energy should be directly linked with economic value. To make the integration successful and to ensure prosperity in the future, new technical solutions and business conditions are needed.

Who should attend?

The workshop is intended for experts actively involved in the selected themes, from IERE members and non-members, 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.





Outline Schedule:

Monday	– March 11, 2019	Welcome Reception
Tuesday	– March 12, 2019	2019 IERE-PLN Bali Workshop (Day 1)
		Official Dinner
Wednesday	– March 13, 2019	2019 IERE-PLN Bali Workshop (Day 2)
		Social Event (Optional)
Thursday	– March 14, 2019	Technical Visit (Optional)

General Theme: Smarter and Cleaner Electricity for Better Life

Session 1: Advanced Metering Infrastructure (AMI)

Utilities today are seeking ways to enhance energy efficiency, reduce costs and improve customer service. One strategy is to deploy an advanced metering infrastructure (AMI). However, installation and execution are still challenging. Implementing AMI is a complex undertaking involving multiple technologies. This session will discuss about all content of AMI and its implementation strategy. Potential topics include:

- 1. Smart meter
- 2. Communication protocol and technology
- 3. Meter data management system
- 4. Security issues and challenge
- 5. AMI implementation strategy etc.

Session 2: Renewable Energy Grid Integration

To foster sustainable, low-emission development, many countries are establishing ambitious renewable energy (RE) targets for their electricity supply. Because RE especially solar and wind tend to be more variable and uncertain than conventional sources, various technical and economic issues occur in the integration of these resources into a grid. Technical problems arise in the areas of power quality, voltage stability, harmonics, reliability, protection, and control. The session will investigate the possible solutions for those issues and other related challenges. Potential topics include:

- 1. System flexibility
- 2. Storage system and technology
- 3. Stochastic modelling
- 4. Demand side management
- 5. Hybrid system etc.





Session 3: Distributed Power Generation

Environmentally friendly renewable energy technologies such as photo-voltaic and clean, efficient, fossil-fuels technologies such as micro-turbines and fuel cells are among new generating systems driving the demand for distributed generation of electricity. The smallness of these new distributed generations along with the low voltages at the interface creates a new class of problems which requires innovative approaches to managing and operating the distributed resources. This section will explore about the role of distributed power generation for electrifying community and all related issues. Potential topics include:

- 1. Solar photovoltaic panels (solar farm, PV rooftop)
- 2. Small wind turbines
- 3. Micro gas fired (turbines/engines)
- 4. Fuel cells using by natural gas or biomass
- 5. Reciprocating combustion engines etc.

Session 4: Electric Vehicle (EV) Infrastructure

The development of electric vehicle has been over a hundred years but failure to gain the public acceptance in various stages due to various reasons. Therefore, widespread electric vehicle adoption requires a supportive ecosystem of stakeholders including utilities, government, vehicle OEMs, charging providers, interest group and drivers. With the correct policy and government help and advancement of electric vehicle technology, the prospect of Electric Vehicle will be bright and the focus point of future development. The session will elaborate those issues and the following potential topics:

- 1. Standard and type of charger
- 2. EV business model
- 3. E-mobility concept and model
- 4. EV infrastructure development strategy etc.

Session 5: Advanced Thermal Power Generation

Although the renewable energy has emerging globally yet the energy supply in the world is still mostly produced by thermal power generation. To move toward a cleaner energy economy, improvements of emission reduction technology are needed, as well as construct the smart system overcoming the intermittency of renewable electricity penetration. Additionally to achieve higher efficiency and reliability, modernization of thermal power plants has been conducted through utilization of advance management and digital technology.

Potential topics include:

- 1. Thermal power plant flexibility
- 2. Status of emission reduction technology (eg. Carbon capture storage, Clean coal technology etc.)
- 3. Asset management on power generation
- 4. Artificial intelligence and Data analytics of thermal power plants.
- 5. Other green thermal power plants recent issues (eg. Geothermal, Bio mass to energy etc.)





Poster Session

The Poster will be presented in the Pre-Function room next to the Grand Ball room.

Poster Session is intended to lead more detailed discussions in front of the poster in the conference (Coffee break, Lunch time etc.).

Exhibition

The exhibition will be held between Grand Ballroom and Garden as below.







Program:

Session structure, speakers and timetable are subject to change.

Welcome Reception

Monday, March 11, 2019 Ayodya Resort Bali, Beach Garden

17:30 – Registration

18:00 – 20:00 Welcome Reception

2019 IERE-PLN Bali Workshop

- Workshop Day 1 -

Tuesday, March 12, 2019 Ayodya Resort Bali, Ground Floor, Grand Ballroom

Overall Chair : Dr. Zainal Arifin, (Vice President, Technology Development and Standardizatio PT PLN (Persero), Indonesia)

08:00–08:40 Registr

Opening Ceremony

08:40 – 09:00 Welcome at Bali's traditional dance

Opening Session

09:00 - 09:10	0-1	Opening Address Gregory Tosen (IERE Chair)
09:10 - 09:20	O-2	Welcome Address Mrs. Syofvi Roekman (Director of Planning PLN, PT PLN (Persero), Indonesia)

Keynote Addresses

09:20 - 09:50	K-1	'Global Trend and Korean Prospect of Smart Grid' Dr. Sung Hwan Bae
		(Chief Researcher, KEPCO Research Institute, Korea)
09:50 - 10:20	K-2	'Ocean Energy; Status, Prospect and Developmen' Prof. Mukhtasor (Coordinator of Post Graduate Program in Marine Resources Management, Sepuluh Nooember Institute of Technology, Indonesia)

10:20 – 10:30 <u>Coffee Break</u>





Session 1 : Advanced Metering Infrastructure (AMI)

Chair person: Ms. Astri Kartika El Nour, (Manage	er, IT Strategy & Architecture,	PT PLN (Persero),
Indonesia)		

10:30 – 10:55 S1-1	'Method and Strategy for AMI Development Based on AMR System Infrastructure to Support Electricity System Digitalization' <i>Mr. Ignatius Rendroyoko</i> (General Manager, PT. PLN (Persero) Region Unit of East Nusa Tenggara, Indonesia)
10:55 – 11:20 S1-2	'Highly Reliable AMI with Narrow Band Power Line Communication' Mr. Shinnosuke Nakano (Engineer, Power Systems R&D Center, Sumitomo Electric Industries Ltd., Japan)
11:20 – 11:45 S1-3	'Linky, Enedis' AMI program: a powerful tool for energy transition and network management' <i>Mr. Christophe Boisseau</i> (<i>R&D Coordinator,Technical Division, Enedis, France</i>)
11:45 – 12:10 S1-4	'Research on Low Voltage Power Line Broadband Communication in the AMI system' <i>Mr. Hailong Zhang</i> (Engineer, Metering Department, CEPRI, China)
12:10 - 13:10	Lunch break, Poster Session & Exhibition

Session 2 : Renewable Energy Grid Integration

Chair person: Dr. Taku Noda (Leader, Simulation Frontier Group, Energy Innovation Center, CRIEPI, Japan)

13:10 – 13:35 S2-1 'Development of power system analysis tools (CPAT) to support stable operation of large scale electric power system: Standard and reliable tool in Japan' *Dr. Masaki Nagata* (*Deputy Director, System Engineering Research Laboratory, CRIEPI, Japan*)
13:35 – 14:00 S2-2 'The Development and Application of DC Technologies in Renewable Energy Integration'

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Dr. Hongzhi Liu





14:00 – 14:25 S2	-3 'Demonstration of P2P (Peer to Peer) transaction of Surplus Energy using BLOCKCHAIN technology' Mr. Nobuhisa Sakai (Senior Research Engineer, R&D Centre, The Kansai Electric Power Co. Inc., Japan)
14:25 – 14:50 S2-	4 'The Value of Energy Storage Systems in South East Asia/Peak Shifting with ESS ' Mr. Wilhelm van Butselaar (Wartsila Singapore Pty Ltd, Singapore)

14:50 – 15:00 <u>Coffee Break</u>

Session 2 : Renewable Energy Grid Integration (continued)

Chair person: Dr. Masaki Nagata (Deputy Director, System Engineering Research Laboratory, CRIEPI, Japan)

15:00 – 15:25 S2-5	'Pumped Storage Hydro Plant: Battery of the Grid' Ir. Mohamad Hakim Bin Zainuddin (Manager, Single Buyer Department, Tenaga Nasional Berhad, Malaysia)
15:25 – 15:50 S2-6	'An Introduction to the Simulation Program XTAP for the Analysis of Electromagnetic Transients in Power Systems' Dr. Taku Noda (Leader, Simulation Frontier Group, Energy Innovation Center, CRIEPI, Japan)
15:50 – 16:15 S2-7	'Management of DERS on the Distribution Network' Mr. Ross Smith (Smart Grid Opportunity Leader EAJ., Schneider Electric, UK)
16:15 – 16:40 S2-8	'Trends in hydrogen storage technology in Japan and Europe to achieve a low carbon society' Dr. Joji Kawano (Senior Research Associate, Research Department, JEPIC, Japan)
16:40 - 17:30	Coffee break, Poster Session & Exhibition





< Poster Session >

P-1 Methods for The Integration of Variabel Renewable Energy into Unit Commitment Scheme in Microgrid System Mr. Ignatius Rendrovoko (General Manager, PT. PLN (Persero) Region Unit of East Nusa Tenggara, Indonesia) **P-**2 Cost-Effective Maintenance to Increase Performance and Reliability in Wayang Windu Geothermal Power Station Mr. Amri Zein (Field Operation, Power Plant Coordinator, Operation, Star Energy Geothermal (Wayang Windu) Ltd., Indonesia) P-3 Wayang Windu Unit 2 CDM Program Mr. Hariyanto (Production Superintendent, Operation, Star Energy Geothermal (Wayang Windu) Ltd., Indonesia) **P-4** Cancelled Demand Side Management (DSM) for PV Rooftop Customer in PLN P-5 **UID** Banten Ms. Ika Khoirun Nisa (Assistant Analyst, Planning Departement, PT PLN (Persero) Distribution Unit of Banten, Indonesia) P-6 'Risk Based methods for 10 MW of PV Project development planning' Ms. Sinung Dwi Anggraeni (Risk Management Staff, Risk Management Division, PT Indonesia *Power*, *Indonesia*) P-7 Cancelled P-8 Steam-Water Warning System in Coal Fire Power Plant Mr. Muhamad Iqbal Felani (Manager of Human Resource, PT PLN (Persero) Research Institute, Indonesia) Distribution Management System 20 kV based on SMART DAS P-9 Mr. I Nyoman Aryawan (Supervisor of SCADA & Telecommunication, PT PLN (Persero) Distribution Unit of Bali, Indonesia) P-10 Fertilizer made from Coal Fly Ash Mr. Ari Rudianto (HSE Supervisor, PT PLN (Persero) Power Generation Unit of South

Sumatra, Indonesia)





- P-11 AVATOR (Automatic Vibration Monitor Calibrator) Special Tool Portable Mr. Alfian Budiarmoko (Assistant Engineer Control & Instrument, PT. Pembangkitan Jawa Bali – UPHT, Indonesia)
- P-12 Refinement of Solar PV System using Modular Grid Tied Inverter Mr. Aristo Adi Kusuma (Assistant Engineer, Power System Analysis, Transmission and Distribution, PT PLN (Persero) Research Institute, Indonesia)
- P-13 "EMO" Expert System for Efficiency Diagnostic in Power Plant using Fuzzy Logic Mr. Totok Gunawan (Engineering / Instrumentation & Control Engineer, PT Indonesia Power, Indonesia)
- P-14 GLIFTER GROUND STEEL WIRE LIFTER Mr. Mukhamat Iqbal Auliya Iqbal (Technician, Live Line Maintenance, PT PLN (Persero) Power Generation and Transmission Unit of Kalimantan, Indonesia)
- P-15 Expert System for Problems Handling in Water Vapor Chemical Cycles in Steam Power Plant *Mr. Harry Indrawan* (Manager, Research and Assessment Technology Power Generation and Energy, PT PLN (Persero) Research Institute, Indonesia)

Session 3 : Distributed Power Generation

Chair person: Dr. Hongzhi Liu (Engineer, Renewable Energy Research Center, CEPRI, China)

17:30 – 17:55 S3-1	'Blockchain: Inflated hype or value-adding technology for the energy sector?' Dr. Felix Cebulla (Senior Expert, Corporate Technology, innogy SE, Germany)
17:55 – 18:20 S3-2	 'Key Technologies and Equipments for Distributed Photovoltaic Micro-grid' Mr. Tong Wang (Deputy Manager, Total Solution Research Department, NARI Group Corporation., China)





18:20 – 18:45 S3-3	'Utilization of SAGE software for development of FPSE' Dr. Yeong-Jun Choi (Senior Researcher, Renewable Energy Group, KEPCO Research Institute, Korea)
18:45 – 19:10 S3-4	'How Gas-To-Liquids Technology Can Help Enhance Transformer Reliability' Dr. Volker Null (Global Product Application Specialist Power, Shell Deutschland Oil GmbH, Germany)
19:30 - 22:30	Dinner [Ayodya Resort Bali, Balinese Theater, Ground Floor]

2019 IERE-PLN Bali Workshop

- Workshop Day 2 -

Wednesday, March 13, 2019 Ayodya Resort Bali, Ground Floor, Grand Ballroom

Session 4 : Electric Vehicle (EV) Infrastructure

Chair person: Dr. Seong-Woo Yim (Senior researcher, New Energy business Laboratory, KEPCO Research Institute, Korea)

> S4-1 Cancelled

08:30 – 08:55 S4-2	 Development of 6.6kW class wireless power transfer EV charging system and field tests for KEPCO application' Dr. Seong-Woo Yim (Senior Researcher, Global & Biz Team, KEPCO Research Institute, Korea Electric Power Corporation, Korea)
08:55 – 09:20 S4-3	'Research on Key Technologies of Multi-domain Sharing Modes of Electric Vehicles ' Ms. Linru Jiang (Engineer, Department of Power Consumption & Energy Efficiency, Smart Grid Energy Efficiency Test Center, CEPRI, China)
09:20 – 09:45 S4-4	*EV Technology: Global Trends and Infrastructure' Mr. Kumai Rashid (ABB, Singapore)



10:10 - 10:20



09:45 – 10:10	S4-5	'Electric Vehicle Charging with Dynamic Energy Management' Mr. Frankco Nasarino Nainggolan (Home and Distribution Division, Product Marketer, PT. Schneider Indonesia, Indonesia)

Session 5 : Advanced Thermal Power Generation

Coffee Break

Chair person: Mr. U. Anang Ischak (Ops Eng Team Manager, Facilities Engineering, Star Energy Geothermal Darajat II, Limited, Indonesia)

10:20 – 10:45 S5-1	'Development of biowaste treatment technology for conversion of EFB to high quality biofuel' Dr. Bum-Shin Kim (Principal Researcher, KEPCO Research Institute, KEPCO, Korea)
10:45 – 11:10 S5-2	'Reducing Generating Main Cost of Energy by Implementing Energy and Operation Management System (NEMESYS) ' <i>Mr. Andi Taufik Saputra</i> (<i>Efficiency Senior Supervisor, Engineering Department, PT Indonesia</i> <i>Power, Indonesia</i>)
11:10 – 11:35 S5-3	'Condition Monitoring and Diagnosis of Power Plants using EnergyWin [™] ' <i>Mr. Eiichi Koda</i> (Deputy Associate Vice President, Energy Platform Creation Sector, Energy Engineering Research Laboratory, CRIEPI, Japan)
11:35 – 12:00 85-4	'Utilization of Biodiesel in Kumai Diesel Power Plant, Power Plant Performance and Operating and Maintenance Costs' <i>Ms. Mutiara Sofia Siregar</i> (Engineer, Operation Division of Kalimantan Region, PT PLN (Persero) Head Office, Indonesia)
12:00 - 13:00	Lunch break, Poster Session & Exhibition

Session 5 : Advanced Thermal Power Generation (continued)

Chair person: Mr. Andi Taufik Saputra (Efficiency Senior Supervisor, Engineering, PT Indonesia Power, Indonesia)





13:00 – 13:25 S5-5	'Implementation of Plant Performance & Reliability Monitoring (P2RM) to Darajat and Salak Geothermal Power Plant' <i>Mr. U. Anang Ischak</i> (Operations Engneering Team Manager, Facilities Engineering, Star Energy Geothermal Darajat II, Limited, Indonesia)
13:25 – 13:50 S5-6	'Electromagnetic Risk Management in Digital Power System' Prof. Dr. Ing. Eko Supriyanto (Head of Electromagnetic Compatibility Laboratory, Universiti Teknologi Malaysia, Malaysia)
13:50 – 14:00	Coffee Break
14:00 – 14:25 S5-7	'Tackling Varnish Formation in Turbo Machinery to Maximize Turbine and Compressor Availability' Dr. Volker Null (Global Product Application Specialist Power, Shell Deutschland Oil GmbH, Germany)
14:25 – 14:50 S5-8	'Steam Turbine Lifetime Assessment' Mr. Ilham Kurniawan (Team Leader, Operation Engineering Salak, Star Energy Geothermal Salak, Ltd., Indonesia)
14:50 – 15:15 S5-9	'Modeling, Design, and Simulation Thermal Solar Power Plant by using Parabolic trough Collector to Generate 100kW steam located in Nusa Tenggara' <i>Mr. Hendra Yudisaputro</i> (Junior Efficiency Specialist, Engineering, PT Indonesia Power, Indonesia)
Closing Remarks	
15:15 - 15:20	Mr. Nyoman S. Astawa (General Manager PT PLN (Persero) Distribution Unit of Bali , Indonesia)

15:20 – 15:25 Dr. Takao Watanabe (Secretary General, IERE Central Office)





Social Event (optional)

The Kecak Fire Dance at Pura Uluwatu Temple and Seaside Dinner

Meeting point Ayodya Resort Bali
Bus transfer, 1 hour
Sightseeing Pura Uluwatu Temple
Kecak Fire Dance Performance at Pura Uluwatu Temple
Bus transfer, 40 minutes
Seaside Dinner at Jimbaran Beach
Return, bus transfer, 25 minutes
Arrival Ayodya Resort Bali

- Time schedule may be changed.
- Please register and finish payment by February 11 with Workshop registration

THE DRAMATIC KECAK DANCE: EPISODE TAKEN FROM THE RAMAYANA EPIC POEM

Kecak Dance is one of Balinese artistic masterpieces in the form of a dance and musical drama. Held in the open air at sunset, usually above a cliff facing the sea, the drama depends entirely on the natural light of day. Starting at dusk, the story continues into the dark, when only light comes only from flickering bamboo torches.

What makes this dance particularly unique is that the drama uses no artificial backdrop, involving no musical instrument. The focus is entirely on the concentric circles of about 50-60 men, bare-chested, wearing only distinct Balinese sarongs sitting cross-legged around a set of torches in the center. Instead of the traditional "gamelan" orchestra which usually accompanies other Balinese traditional performances, the Kecak is simply accompanied by the chanting of the chorus of men representing an army of monkeys continuously intoning "Cak! Cak! Cak!" or "Keh-Chak" in polyrhythmic sounds during almost the entire performance. This amazing human voiced orchestra is led by a soloist, who is in charge of indicating the high and low notes, and also acts as narrator. The effect, after a while, is to provide a wall of dramatic sound against which the action of the play is enacted.

The performance relates the shorter version of the epic Ramayana Saga with dancers playing as Rama, Shinta (Sita), Lakshmana, Rahwana (Ravana), Hanoman (Hanuman), Sugriwa (Sugriva), and other characters.

Kecak Dance is said to originate from a Balinese ancient ritual called Sanghyang, aimed as a form of exorcism or to repel evil spirits in which dancers fall into a trance. Kecak Dance is regularly performed in many places all over Bali Island. However, the best place to watch this spectacular show is at the Pura Uluwatu, where the dance is performed daily with as background the dramatic sunset. (indonesia.travel)







Technical Tour (Optional) - Workshop Day 3 -

Thursday, March 14, 2019 Visiting Pesanggaran Engine Gas Power Plant and lunch

(For participants who have booked the optional Technical Tour)

09:15	Meeting point Ayodya Resort Bali
	Bus transfer, 25 minutes
09:40	Pesanggaran Engine Gas Power Plant, PT Indonesia Power
	Duration: about 2 hours
11:50	Bus transfer, 40 minutes
12:30	Lunch
13:30	Sightseeing the Garuda Wisnu Kencana Cultural Park
	Return, bus transfer, 40 minutes
15:20	Arrival at Ayodya Resort Bali

- Time schedule may be changed.
- The maximum number of participants is up to 70.
- Please register and finish payment by February 11 with Workshop registration
- Admission will be allotted in order of application.

Pesanggaran Engine Gas Power Plant – Pesanggaran, Bali

The Pesanggaran Bali 200 MW power plant is the largest engine-based power plant in Indonesia. Operated by PT. Indonesia Power, a subsidiary of the state utility PT Perusahaan Listrik Negara (PLN) (Persero), this multi-fuel power plant is answering challenging condition by its unique operational and fuel flexibility. With a fast start and stop ability to reach full loading in under 10 min and seamless control over load fluctuations, this plant provides a greater consistency in the supply of electricity to the Java-Bali grid.

Pesanggaran Bali is powered by 12 Wärtsilä 50DF engines that can run on either regasified liquefied natural gas (LNG), light fuel oil (LFO), or heavy fuel oil (HFO). When the gas supply is uncertain, or prices are volatile, it is possible to switch from gas to liquid fuel, and vice versa, even during operation whilst also maintaining a high output.

Announced as the winner of the best dual-fuel power plant of 2016 by Asian Power Awards, the Pesanggaran Bali was chosen for its large nominal output and ability to perform efficiently while operating on natural gas or HFO. (*Pesanggaran Bali-Wartsila Reference Sheet*)

Technical data of the Pesanggaran Engine Gas Power Plant

Туре	Multi-fuel Power Plant
Operating mode	Flexible baseload
Genset	Wartsila 18V50DF
Number of unit(s)	12 units
Installed Power (Total)	200.16 MW
Operated Power	182.40 MW
Fuel	Gas/MFO/HSD
Operated since	2015











Call for Papers (closed) <<Abstract Submission: No later than <u>December 7, 2018</u>>>

You are kindly invited to submit abstracts for the Oral Session or Poster Session for the 2019 Bali Workshop by e-mail by December 7, 2018

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 **<u>format of the abstract</u>**, please refer to "Events" page on IERE website.

https://www.iere.jp/events/workshop/2019-bali/forspeakers.html

- Abstract is uploaded to IERE's website and opened to the public after the workshop.
- The medium of communication is English.

<< Presentation files Submission: No later than <u>February 28, 2019</u>>>

You are kindly requested to submit presentation files (Powerpoint) of the Oral Session and Poster Session for the 2019 IERE - PLN Bali Workshop by email by <u>February 28, 2019.</u>

- Presentation file will be uploaded to IERE website and opened to all participants before the Workshop.
- The medium of communication is English.





Exhibition

The conference will be accompanied by an exhibition, which gives exhibitors the opportunity to present their companies and/or products.

Exhibitors are required to register, pay the participation fee, and contact IERE Central Office.

Registration

(a) On-line Registration

URL: https://www.iere.jp/cgi-bin/event_form/19WS/event_form_entry.cgi

or

(b) Please submit a registration form (Format 1) to IERE Central Office by e-mail. *Deadline: February 11, 2019*

Registration Fee

Please make payment of following fee <u>No later than February 11, 2019</u> by credit card payment or bank transfer.

The Registration fee will cover attendance at both workshop days (include lunches & refreshments at coffee breaks), welcome reception on March 11, official dinner on March 12 and conference package:

IERE members:	US\$ 350
Non-members:	US\$ 525
Academic participants:	US\$ 260

Recommended options

Social Event (optional):	US\$ 60
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The Kecak Fire Dance at Pura Uluwatu Temple and Seaside Dinner on March 13

Technical Visit(optional):	US\$ 45
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Visiting Pesanggaran Engine Gas Power Plant (tentative) on March 14

*The maximum number of participants is up to 70.

** This offer is on a first-come-first-served basis.





Payment

On-line Credit Card Payment and Bank Transfer are available. *Deadline: February 11, 2019*

(a) On-line Credit Card Payment

If you prefer using your credit card for the payment of registration fee, please contact to this URL: <u>https://www.iere.jp/Payment/paypal_19WS.html</u>

(b) Bank Transfer *

Name of the Bank:				
Name of the Branch:				
Name of the account:				
Account Number:				
Bank address:				
SWIFT code:				

MUFG Bank, Ltd. Seijo branch IERE 0068198 15-1 Seijo 6-chome, Setagaya-ku, Tokyo, 157-0066 JAPAN BOTTKI

* Remittance charge, Lifting charge, Correspondent charge and other charges should be paid <u>by</u> <u>participants.</u>

Visa

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

If you need an Invitation Letter^{*}, please refer to 'Invitation Letter for Visa' on Page 26.

* PT. PLN 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 PT. PLN, so please submit the form as soon as possible.

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

[Visa information]

Considering a participation on a Workshop/Conference can be decided as business purpose, visitors from NON-ASEAN countries are recommended to obtain VOA (Visa On Arrival) at the arrival airport.

The outline of VOA is as follows.

- This VOA can be obtained by visitor from 68 countries
- Expiration date of the applicant's passport must be at least 6 months at the date of entry.
- At least one blank visa page
- Round-trip airplane ticket
- Visa on Arrival fee (USD 35: Cash in US dollars only)

For more information: http://www.imigrasi.go.id/index.php/en/public-services/visit-visa





Conference Venue & Accommodations

Conference Venue

Ayodya Resort Bali, Bali

Location: Jalan Pantai Mengiat, P.O.Box 46 Nusa Dua 80363, Bali, Indonesia, Website: <u>http://www.ayodyaresortbali.com/</u>











Map URL: <u>https://goo.gl/maps/TgY6kwdCjsw</u>

Accommodations

Ayodya Resort Bali, Bali

Location: Jalan Pantai Mengiat, P.O.Box 46 Nusa Dua 80363, Bali, Indonesia, Website: <u>http://www.ayodyaresortbali.com/</u>

Ayodya Resort Bali gives special rates for conference participants as indicated below.

Website: https://bit.ly/2y8HihG

*The reservation of accommodation is based on availability. ** Please be sure to read cancellation policy on the website before application.





Submission Items & Deadlines

For Participants [including speakers and exhibitors]

Items	Format No.	Deadline	То:
Registration Form	1	February 11, 2019	register(at)iere.jp [Please substitute (at) with @]
VISA Form (If necessary)	5	February 11, 2019 (It takes a few weeks to issue)	Ditto
Registration Fee	_	February 11, 2019	Please refer to Page 18
Social Event Fee [optional]	_	February 11, 2019	Ditto
Technical Visits Fee [optional]	_	February 11, 2019	Ditto

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

URL: https://www.iere.jp/events/workshop/2019-bali/register.html

For Speakers

Items	Format No.	Deadline	То:
Abstract	2	December 7, 2018	
Speaker's Information	3	February 11, 2019	register(at)iere.jp
Copyright Permission	4	February 11, 2019	[Please substitute (at) with @.]
Presentation Slides (PowerPoint file)	_	February 28, 2019	

The formats (No.2 to 4) can be downloaded from

URL: <u>https://www.iere.jp/events/workshop/2019-bali/forspeakers.html</u>

Speakers are kindly requested to submit their Speaker's Information and Copyright Permission **February 11, 2019** and their Presentation Slides (PowerPoint file) **by February 28, 2019**.





Information on Presentation:

Oral Session:

Speakers may only use PowerPoint files for their presentations.

Speakers at all sessions are required to arrive at the session at least 15 minutes in advance of the first paper and be seated at the front of the room.

Speakers are expected to get in contact with the Session Chair and confirm the PowerPoint files before the session begins.

The session room will be equipped with a laptop computer loaded with Microsoft software and an LCD projector.

Each presentation is strictly limited to 25 minutes max., which includes approximately 5 minutes for Q&A.

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

Poster Session:

Presenters are requested to print their posters in A0 (approx. 119 cm x 84 cm / 47" x 33") Format and bring with them. PowerPoint files of their posters are requested to submit by February 28 for uploading IERE website prior to the conference.

- One poster A0 in portrait orientation or two pages A1 in landscape orientation
- The Posters in A0 size will be displayed on the site at the Pre-Function room next to the Grand Ball room.
- Presenters are kindly requested to stay around their posters at coffee break period. Main discussion period is afternoon coffee break on March 12.

Language

Working language is English.





REGISTRATION FORM

Format 1

2019 IERE-PLN Bali Workshop March 11 – 14, 2019, Bali, Indonesia

Please type 🗵 at appropriate boxes, then send this form February 11, 2019

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

1. Name	\Box Prof. \Box Dr. \Box Mr. \Box Ms. \Box 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	□ Yes <u>Title:</u> □ No		
7. Registration Fee	[Participants including speakers and exhibitors should pay registration fees.]		
[March 11-14]	 USD 350 : IERE Member USD 525 : Non-IERE Member USD 260 : Academia Note: When participation is canceled irrespective of the reason after February 11, 2019, Registration Fee might be charged or not be reimbursed. 		
8. Welcome Reception attendance [March 11] not Mandatory	[For reservations, please let us know your attendance.] Yes (Included in Registration Fee) Number of Accompanying Person if you have: person(s) (free) No		
9. Official Dinner attendance [March 12] not Mandatory	[For reservations, please let us know your attendance.] Yes (Included in Registration Fee) Number of Accompanying Person if you have: person(s) (add USD 60 per person) No		
10. Social Event (Optional) [March 13] The Kecak Fire Dance and Seaside Dinner	 Yes (USD 60) Number of Accompanying Person if you have: person(s) (add USD 60 per person) No 		





11. Technical Visit (Optional) [March 14] Visiting Pesanggaran Engine Gas Power Plant	 Yes (USD 45) Number of Accompanying Person if you have: person(s) (add USD45 per person) No * The maximum number of participants is up to 70. ** Admission will be allotted in order of application.
12. Payment Amount	Total: USD
13. Payment Method	Credit Card: https://www.iere.jp/Payment/paypal_19WS.html
[to be completed by February 11]	Bank Transfer (available only for IERE members) * IERE Central Office will send you the invoice.
14. Invitation Letter for VISA	 PT. PLN may be able to issue an invitation letter for participants who need to apply for Visa. Disclaimer: PT. PLN reserves the right to fulfill or decline, at PT. PLN's discretion, requests for letters of invitation for visa application support purposes. I need an invitation letter for Visa application. *Please submit the `Format 5' of the 1st Announcement to IERE Central Office by e-mail by Feb. 11, 2019. No
15. Information from IERE	Do you agree with receiving e-mail notice on future activities/IERE E-mail Magazine from IERE Central Office?
16. Personal Data	□ I agree to disclose my personal data for the Participants list of this Workshop.

Central Office may enclose 'Participants list' in the conference bag to facilitate communication among participants. The list will contain

- 1. Name
- 2. Position, Department
- Company/ Organization etc.
 E-mail address
- 5. Country/Region

of this format.

If you **DON'T** want to open these information, please type ' \checkmark ' at appropriate boxes shown below.

□ 2. Position, Department □ 4. e-mail address





Invitation Letter for VISA

If participants need an 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 @].

 I need an invitation letter for Visa application. * PT. PLN (Persero) 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 PT. PLN (Persero), so please submit the form as soon as possible. 						
Disclaimer: PT. PLN (Persero) n invitation for visa a	reserves the right to ful pplication support purp	fill or decline, at PT. PLN (Persero) poses.	's discretion, requests for letters of			
Name on passport	First Name:	Middle Name:	Family Name:			
Gender	□ Male □ Female					
Nationality						
Date of birth						
Passport No.						
Occupation						
Company/ Organization etc.						
Expected date of entry						
Duration of stay						
Expected date of departure						
	□ March 11, 2019 Welcome Reception					
	□ March 12, 2019 IERE-PLN Bali Workshop (Day 1)					
Colloquium Participation	□ March 13, 2019 IERE-PLN Bali Workshop (Day 2)					
	□ March 13, 2019 Social Event					
	March 14, 2019 Technical Visit					





IERE Members List (as of February 14, 2019)					
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South Africa	Eskom	PIESA			
Spain	NATURGY	REE			
Taiwan	TPC				
Thailand	EGAT	EURC*			
U.S.A.	EPRI	SwRI			
*: Academia					





About PT. PLN (Persero)

PLN is the only state-owned enterprise in the power sector and ensures that everyone throughout Indonesia has access to electricity. Initially established by President Soekarno on October 27, 1945, PLN has since made rapid progress and in 2015 was recognized as one of the 500 biggest companies in the world (rank 480, Fortune 500).

As a holding company, PLN has attained AAA rating from PT Pemeringkat Efek Indonesia and BBB-, BB, and Baa3 - from Fitch Ratings, Standard & Poor's, and Moody's - in 2015. PLN business has grown to other business sectors through subsidiaries, associate entities, joint ventures, and special purpose vehicle. Within headquarters in Jakarta, Indonesia PLN's core business remains in electricity supply, especially in power generation, transmission, and distribution.

Nowadays PLN owns and operates 39.562 MW power generation, 48.901 kms transmission lines, 1.028.679 distribution lines, 113.791 MVA substation. Its customer is already exceeding 68 million with more than 25 million using pre-paid meter technology.



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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