



12th Edition

MICROGRID

GLOBAL INNOVATION FORUM

SOUTHEAST ASIA • APRIL 22-23, 2020 • BANGKOK



The **12th Microgrid Global Innovation Forum – Southeast Asia**, April 22-23, 2020 in Bangkok (www.microgridinnovation.com/Bangkok) brings together key industry executives for focused networking and information sharing concerning the design, implementation and operation of renewables-centric microgrids in Asia / Southeast Asia. The emphasis is on maximizing the effective use of sustainable distributed energy resources, optimizing the business model for a range of microgrid deployments, and sharing real-world case studies in both grid-tied and off-grid environments.

The event will focus on:

- Microgrid feasibility, design, and implementation
- Solar + storage systems for off-grid village environments
- Ownership models and benefits for multiple stakeholders
- Microgrids for communities in rural, remote, and island regions
- Integration of microgrids into the larger grid
- Determining the correct technology mix for hybrid energy systems
- Project financing and economics: Attracting adequate funding
- Advanced battery, fuel cell, and energy storage technologies
- Microgrid power control, management, and integration
- Off-grid systems for mining and off-shore applications
- Enabling technologies and advances
- Latest technology advances for optimizing performance and control
- Regulatory and public policy considerations for microgrid advancement
- Standards and interoperability issues
- Market drivers and opportunities in Asia / Southeast Asia
- Maximizing renewables penetration and reducing carbon footprint

The audience for the Forum includes microgrid project developers, owners, and entrepreneurs; finance and investment professionals; utility and energy provider executives; renewable energy professionals; energy storage providers, technology innovators, regulatory representatives, and more.

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Co-organized By



Speakers and Sessions

Note: Subject to change

Wednesday, April 22, 2020

07:30 - 08:30 Registration and Networking Continental Breakfast

08:30 - 09:00 Welcome Remarks and Opening Address

09:00 - 09:30 **Application and Benefits of Microgrids for C&I and Electro-Intensive**



Thomas Polliand
APAC Microgrid Business Development
Schneider Electric

09:30 - 10:00 **Minigrids CAPEX/OPEX: The Importance of the Technology and Its Reliability**



Claudio Pedretti
CEO, **WindKinetic**
Vice President, **Alliance for Rural Electrification (ARE)**

10:00 - 10:30 **Coffee Break**

10:30 - 11:00 *Presentation to be announced*

11:00 - 12:00 **What Can Hinder or Accelerate Microgrids in Southeast Asia (panel discussion)**



Agi Panjaitan,
Coordinator of Poverty Alleviation Unit
of the Office of the Vice President
Government of Indonesia



Shinichi Imai
Managing Director - International
Business, **TEPCO-PowerGrid**
Director, **CleanGrid Partners**



Atem S. Ramsundersingh
CEO, **CleanGrid**
Co-founding Partner
WEnergy Global

- Senator Win Gatchialan, Chairman of the Energy Committee, Senate of the Philippines (*invited*)
- Representative from SparkMeter (*to be announced*)

12:00 - 13:00 **Lunch Break**

TRACK A

13:00 - 13:30 **Development and Implementation Smartgrids and Microgrids in Indonesia**

- Eddie Widiono, Founder and Chairman, **Indonesia Smart Grid Initiative**

13:30 - 14:00 **AC and DC Coupling Configurations for Off-Grid Systems**



Robert Zhou
Asian Business Manager
Studer Innotec SA

14:00 - 14:30 **Sabon Gari Market Case Study: How IoT Enables Operational Excellence For Off-Grid Systems At Scale**



Stine Carlé
Co-Founder & COO
AMMP Technologies

14:30 - 15:00 **Coffee Break**

15:00 - 15:30 *SparkMeter presentation to be announced*

15:30 - 16:00 **MicroGrids for Off-Grid Areas and Secured Estates in ASEAN**



Atem S. Ramsundersingh
CEO, **CleanGrid**
Co-founding Partner, **WEnergy Global**

16:15 - 16:45 **Hybrid Power Plant for Rural Electrification in Indonesia - A Case Study**



Matthieu Le Gall
Regional Business Development Manager - Southeast Asia
Akuo Energy

16:45 - 17:15 **Turning on the Light in Eastern Part of Indonesia with the Help of Microgrids**

- Jaya Wahono, CEO, **Clean Power Indonesia**

17:15 - 18:15 **Drink Reception**

TRACK B

13:30 - 14:00 **Rural Electrification Through Solar-Hydrogen Power Modules: A Malaysian Experience**

- Sandra Liz Hon Ai Ling, Director, **HT Energy (S) Sdn Bhd (HTES)**
- Pek Seck Wei, Technical Director, **HT Energy (S) Sdn Bhd (HTES)**
- Muhammad Hatta Bin Sukarni, Managing Director, **HT Energy (S) Sdn Bhd (HTES)**

14:00 - 14:30 **Retrofitting Lead Acid Minigrids With Lithium: Extending Lifetime and Lowering LCOE**



Veeresh Anehosur
Business Development Manager Asia
BOS Balance of Storage Systems AG

14:30 - 15:00 **Coffee Break**

15:00 - 15:30 **Rural Electrification for Economic Advancement: Can Microgrids Boost an Economy?**



Lana Zaman
Associate Economic Affairs Officer, Energy Division
United Nations Economic and Social Commission for Asia and the Pacific

15:30 - 16:00 *Presentation by CMR Group - invited*

16:00 - 16:15 **Coffee Break**

16:15 - 16:45 *Presentation by Right People's Renewable Energy (RPRE) - invited*

16:45 - 17:15 *Presentation by Mauricio Solano-Peralta, Programme Manager, NZmates - details to come*

17:15 - 18:15 **Drink Reception**

Thursday, April 23, 2020

07:30 - 08:30 Networking Continental Breakfast

08:30 - 08:45 *Opening Comments by SEforALL - details to come*

08:45 - 09:00 **Opening Remarks & Launch of Smart Power India "Demand Generation Framework"**



Claudio Pedretti
CEO, **WindKinetic**
Vice President, **Alliance for Rural Electrification (ARE)**



Samit Mitra
Senior Director - Mini-Grid , Demand & Innovation
Smart Power India, Subsidiary of The Rockefeller Foundation

09:00 - 09:30 **Utilizing a Network of Decentralized PV Energy Systems to Achieve Low LCOE Microgrids for Rural Communities**



Dr. Wuthipong Suponthana
Managing Director
Leonics

09:30 - 10:00 **Microgrid for Affordable and Sustainable Electricity in Remote Areas (MASERA)**



Romain Migné
Smart Grid Research Manager
EDF Lab Singapore

10:00 - 10:30 **Coffee Break**

10:30 - 11:00 **Powering Off-grid Microgrids with Hydrogen as a Seasonal Storage**



Tanai Potisat
Business Analyst
Enapter

11:00 - 11:30 **Multi-Microgrid Demonstrator in Southeast Asia**



Lim Horng Leong
Program Manager, Renewable Energy Integration Demonstrator Singapore
Energy Research Institute @ Nanyang Technological University, Singapore

11:30 - 12:00 **Engineering in a Typhoon: Lessons from deploying community DC Microgrids in Southeast Asia**



Oscar Aitchison
Power Systems Engineer / Operations Manager
Okra Solar

12:00 - 13:00 **Lunch Break**

TRACK A

13:00 - 13:30 **Developing and Building Mini-Grids Without Subsidies in Myanmar Under the ABC Model: Successful Case Study**



Yanis Boudjouher, CFA
Co-Founder & Managing Director
Infra Capital Myanmar - ReEx

13:30 - 14:00 **An Alternative Approach to Electrification and Potential for Mini-Grids in Myanmar**



Ashish Dhankhar
Advisor, Promotion of Rural Electrification Project (RELEC)
GIZ Myanmar

14:00 - 14:30 *Presentation by Robert Kremer, Energy Services Senior Director, Smart Power Myanmar - details to come*

14:30 - 15:00 **Coffee Break**

TRACK B

13:00 - 13:30 **Distributed Hydropower: Asia's Untapped Potential for Grid Decarbonization**



Michael J. Spolum
Asia Director of Business Development
Natel Energy

13:30 - 14:00 *Presentation by Davide Castorina, Sales & Marketing Director, Whitten & Roy Partnership - details to come*

14:00 - 14:30 *Presentation by Visait Hansaward, Managing Director, Blue Solar - details to come*

14:30 - 15:00 **Coffee Break**

15:00 - 16:00 **Panel Discussion: Perspectives on the Myanmar Mini-Grid Market**



Ashish Dhankhar
Advisor, Promotion of Rural Electrification Project (RELEC)
GIZ Myanmar



Robert Kremer
Energy Services Senior Director
Smart Power Myanmar



Yanis Boudjouher, CFA
Co-Founder & Managing Director
Infra Capital Myanmar - ReEx

- *Nathalie Risteau, Co-Founder and Director, Mandalay Yoma – invited*
- *Representative, Department of Rural Development Myanmar / GIZ – invited*
- *Alakesh Chetia, CEO and Managing Director, Yoma Micro Power - invited*

16:00 - 16:15 Coffee Break

16:15 - 16:45 Technical Audit Framework for Health Check-up of Hybrid Mini-Grids

- Umang Maheshwari, Associate Director, Innovations, **Smart Power India (SPI)**



Previous Microgrid Innovation Forum Attendees Include:

- 127 Energy
- 3Angle Capital
- Aalborg University
- ABB
- Acciona Energía
- Adaptive Balancing Power
- Akuo Energy
- Alliance for Rural Electrification
- Altairnano
- Ameren
- American Public Power Association
- Anbaric Power LLC
- APESF
- Aquion Energy
- ARDA Power
- Arelis Group
- Associação de Energias Renováveis
- BC Institute of Technology Centre
- Benoolend
- Black & Veatch
- Blue Pillar
- Boeing Research & Technology Europe
- Boreal Renewable Energy Development
- BU Africa
- Burns & McDonnell
- Canadian Solar
- Catalonia Institute for Energy Research (IREC)
- CENER
- Center for Climate and Energy Solutions
- CERTS Microgrid Project
- CEZ Distribuce, Corp.
- Circular Energy
- Colorado State University
- ComRent International
- CPG Advisors
- CPS Energy
- CSEM SA
- Customized Energy Solutions
- cyberGRID GmbH
- DC Public Service Commission
- DEG - German Investment Corporation
- Deutsche Investitions- und Entwicklungsgesellschaft mbH
- Distributed Generation Ltd
- Distributed Sun LLC
- DNV GL
- Duke Energy
- Dynamic Energy Group
- Dynapower Company
- E.ON UK
- EDA RENOVAVEIS
- EDF Renewable Energy
- Edison Electric Institute
- Edison International
- EDP
- EDP DISTRIBUIÇÃO
- Efacec Power Solutions
- Electric Power Research Institute (EPRI)
- Emerge Alliance
- Emerson Network Power
- Enbala Power Networks
- Enchanted Rock
- Eneco B.V.
- EnerCo
- Enercon GmbH
- Enercoutim
- Energy Storage Report
- EnergyIN
- EnerNex
- Engie
- Enphase Energy
- Ensol Tanzania Ltd
- Eos Energy Storage
- ERDF
- EREN RENEWABLE ENERGY
- ETAP
- EURELECTRIC
- Exelon
- FERC
- Fluidic Energy
- Fluktuat
- FREEDM Systems Center, NC State
- Freie Universität Berlin
- Fronius España S.L.U.
- Fronius International GmbH
- Frost & Sullivan
- FuelCell Energy
- GDF Suez
- GE Power & Water
- General Microgrids
- Gildemeister Energy Storage
- Gommyr Power Networks
- Grupo Impresa
- Hatch Electro-Technologies
- Honeywell
- HSB Engineering Insurance
- Hydro-Quebec
- Idaho Power Company
- Industrie Canada
- Ingeteam Power Technology, S.A.
- Innhotep Think Tank for Innovation in Energy & Cleantech
- INTRACOM DEFENSE ELECTRONICS
- IPERC
- IREC
- janom s.r.o.
- K2J Environmental
- Keystone Steel & Wire
- Korea Polytechnic University
- Landis + Gyr
- Lawrence Berkeley National Lab
- Leclanché SA
- Leidos
- Lockheed Martin Energy
- Lux Research
- Marsh Creek LLC
- Martifer Solar
- MC Consulting
- Microgrid Institute
- MinesParisTech
- Mitsui & Co. Ltd.
- Morrison Foerster LLP
- MotuSolar
- Narada Power Source Europe
- Navigant Research
- NEDO
- Nemotec
- NY Independent System Operator
- NY State Smart Grid Consortium
- NextEra Energy
- Northern Power Systems
- NovaTech LLC
- Olidata spa
- Omnetric Group
- Omron
- OPAL-RT Technologies
- Oxford University
- Pareto Networks
- Peerless Lighting
- Pepco Holdings
- Power Analytics
- Princeton Power Systems
- QiDO Energy Development
- Qinous GmbH
- R.E.S. Ltd.
- Redflow Europe GmbH
- RELUMO
- REpower Systems Inc.
- ResoTek, Inc.
- Rhombus Energy Solutions
- Robert Bosch España, S.L.U
- RVE.SOL
- S&C Electric
- Saft America
- Sail Capital Partners
- San Diego Gas & Electric
- Sandia National Lab
- Saudi Aramco
- Saviva Research LLC
- Schneider Electric
- SCLE SFE
- sg++
- Shaldor
- Shimizu Corporation
- Siemens AG
- SMA Ibérica Tecnología Solar, S.L.U.
- Smart Com d.o.o.
- Smart Electric Power Alliance
- Smart Hydro Power
- SOFRECO
- Southern California Edison
- Spanish National Center on Hydrogen
- Spirae, Inc.
- Sunco Energy SL
- SunEdison
- Sunverge Energy
- Support2develop
- Susi Partners
- Sustainable Power Systems
- TECNALIA
- Tetra Tech
- The Boeing Company
- The Hartford Steam Boiler Inspection and Insurance Company
- Tractebel
- Trama TecnoAmbiental
- Trojan Battery Company
- U.C. San Diego
- U.S. Department of Commerce
- UniEnergy Technologies
- Universidad Carlos III de Madrid
- University College London, Electronic and Electrical Engineering
- University of Alberta
- University of California, Irvine
- UCLA
- University of Idaho
- University of Maryland
- University of Texas, El Paso
- University of the Basque Country UPV/EHU
- University of Wisconsin, Milwaukee
- Varentec
- Vattenfall AB, R&D
- Vestas
- Vieira de Almeida
- Viridity Energy
- Wells Fargo Bank
- West Monroe Partners
- Win Inertia
- Winch Energy
- World Bank
- Wuhan Huayuan Fukang Electric
- World Business Council for Sustainable Development

Previous Attendee Job Titles Include:

- Assistant Professor, Microgrids
- Associate
- Associate Professor
- Attorney Advisor
- Business Advisor
- Business Development Director
- Business Unit Development Manager, Grid Automation
- Business Unit Director - Renewables (GB & International)
- CEO
- CEO and Co-founder
- Chairman
- Chief Commercial Officer
- Chief Marketing Officer
- Chief of the Office of Energy and Sustainability (OES)
- Co-Founder
- Co-Founder and CEO
- Co-Founder and President
- Deputy Director
- Director
- Director of Industry and Innovation
- Director, Distributed Electricity and Storage
- Editor
- ElectriFi Manager
- Energy & IT Analyst
- Energy Solutions Manager
- Energy Storage Marketing/Strategy Manager
- Engineer
- Engineering Manager
- Executive Director
- Founder & Managing Director
- Founding Partner
- General Manager
- Global Sales Manager Microgrids
- Global Sector Co-ordinator, Innovative Finance
- Head of Direct Sales
- Head of Innovation - Global Infrastructure & Networks
- Head of Microgrid & Digital Substation Solutions
- Head of Project
- Independent Consultant
- Industry Research Analyst
- Journalist and Economist
- Manager of Market Intelligence, Strategy and Innovation
- Manager, Business Development
- Manager, Optimization and Forecast
- Manager, Policy and Innovation
- Manager, Smart Grid & Technology
- Manager, Technology Development
- Manager, Utility of the Future
- Manager-Emerging Technologies Office
- Managing Director
- Managing Partner
- Market Design Specialist - Distributed Resource Integration
- Microgrid Advisor
- Microgrid Laboratory Responsible
- Microgrids CTO North America
- News Director
- Of Counsel
- Operations Manager
- Partner & Co-Founder
- Portfolio Analyst
- Power Systems Group Leader
- President
- President & CEO
- Principal
- Principal Engineer
- Principal Research Analyst
- IEEE Fellow
- Program Director, Sustainable Energy Transformation and Microgrid Project
- Project Engineer
- Project Manager
- Renewable Energy Segment Manager
- Renewable Energy Specialist
- Research Associate Renewable Energy
- Research Officer
- Researcher and Industrial Engineer, Grid Integration
- Sales Manager
- Senior Analyst
- Senior Consultant Hydropower
- Senior Director, Energy & Utilities Practice
- Senior Engineer
- Senior Manager, Smart Grid Integration, North America
- Senior Portfolio Analyst
- Senior Principal, Sustainability
- Senior Vice President, Policy and Business Strategy
- SETS Program Manager
- Sr. Climate Change Specialist and Program Manager
- Technical Consultant - Power Supply & Protection
- Technical Expert – Regulatory Instruments
- Technical Sales Manager
- Technical Support Manager
- Venture Developer
- Vice President
- Vice President - Smart Grid, North America Operations
- Vice President Business Development
- Vice President, Product Management
- VP Commercialization & Product Development
- VP of Operations & Fi

Sponsorship Packages

Gold Level Sponsor

Value: \$7,000 USD

- Tabletop exhibit in networking break and reception area
- 2 complimentary conference passes
- 20% off additional registrations
- Logo positioning in Official Program Guide, event website, and email communications
- Corporate description with hyperlink on event website
- Prominent logo recognition in on-site banners and signage
- Logo on event program and registration materials
- Company information or insert included in registration bags
- Attendee List (provided one week following the event)

Silver Level Sponsor

Value: \$3,500 USD

- Tabletop exhibit in networking break and reception area
- 1 complimentary conference pass
- 15% off additional registrations
- Logo positioning in Official Program Guide, event website, and email communications
- Corporate description with hyperlink on event website
- Prominent logo recognition in on-site banners and signage
- Logo in event program and registration materials
- Company information or insert included in registration bags

Bronze Level Sponsor

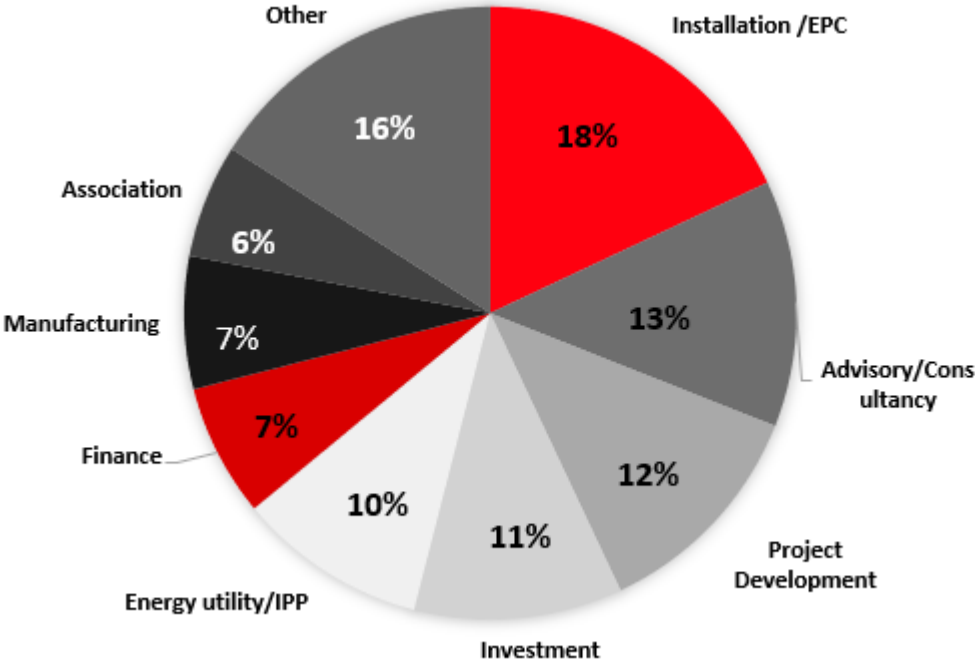
Value \$2,000 USD

- 1 complimentary conference pass
- 10% off additional registrations
- Logo positioning in Official Program Guide, event website, and email communications
- Corporate description with hyperlink on event website
- Prominent logo recognition in on-site banners and signage
- Logo on event program and registration material



Previous Editions: **London, September 2019**

Attendee Demographics:



London, September 2018

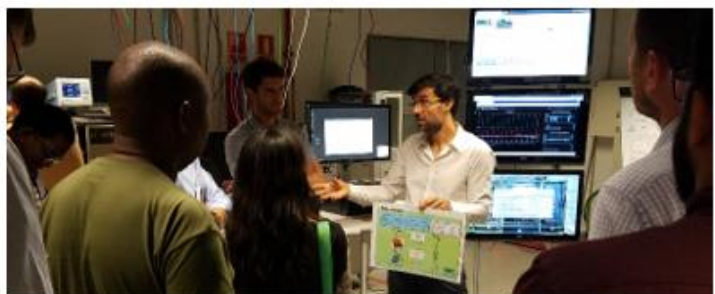


"There was a great networking opportunity. Speakers were interesting in and of themselves, but the mix (tech, policy, regulatory, markets) made for deeper conversations than most events provide." -- Paul Roeger, Vice President - Strategic Initiatives, Typhoon HIL

Washington D.C., March 2018



Barcelona, September 2017



Feedback on Previous Editions

"The conference was very well organized, offering rich content and excellent networking opportunities"
- Zoheir Rabia, Global Product Manager – Microgrid Solutions, ABB

"Intra-disciplinary approach leads to this Forum as the premier program in microgrid innovations and thought leadership."

-- Michael J. Zimmer, Washington Counsel, Microgrid Institute

"Excellent. I have benefitted from hearing quite an array of perspectives and case studies. You have brought together a wealth of talent that generated great dialog and will stimulate cross-fertilization."

-- Larisa Dobriansky, Chief Business & Policy Innovation Officer, General Microgrids

"One of the best, with highest quality presenters on timely topics."

-- David E. Geary, PE, Co-Founder and Principal Engineer, DC Fusion

"The conference had a very good mix of academia, research, manufacturers, developers and investors."

-- Dr. Maria Bruccoli, Research Engineer - Smart Energy Systems, EDF Energy R&D UK Centre

"Very good! It touched multiple aspects of microgrids, from financing to engineering to technology, which helped to give an overview of the industries in and around microgrids. Great networking possibility."

-- Parvathy Chittur Ramaswamy, Technical Manager - Energy Transition, Tractebel - Engie Group

"So constructive and learnable with fruitful interaction amongst participants. First-day workshop was very informative with actual economic figures."

-- Susumu Takahashi, United Nations Industrial Development Organization (UNIDO)

About the Organizers



Alliance for
Rural
Electrification
Shining a Light for Progress

[The Alliance for Rural Electrification \(ARE\)](#) is an international business association representing the decentralised energy sector working towards the integration of renewables into rural electrification markets in developing and emerging countries. ARE enables improved energy

access through business development support for more than 90 members and partners along the whole value chain for off-grid technologies by targeted advocacy and facilitating access to international and regional funding. Visit www.ruralelec.org/



[The Smart Grid Observer](#) is an online information portal and weekly e-newsletter serving the global smart energy industry. SGO delivers the latest news and information on a daily basis concerning key technology developments, deployment updates, standards work, business issues, and market trends driving the smart grid industry worldwide. Visit www.smartgridobserver.com to sign up for a complimentary subscription.

Conference Venue

Pullman Bangkok Grande Sukhumvit

30 Sukhumvit 21 Asoke Road, 10110 Bangkok



Registration

Your registration includes:

- Attendance at networking breakfasts, coffee breaks, lunches, and drink receptions
- PDF copy of all presentations
- Copy of attendee list
- Access to pre-conference messaging platform for arranging meetings with fellow attendees

<u>Attendee Category</u>	Before Friday, March 13	After March 13
Equipment, Software, or Services Provider	\$595.00 USD	\$695.USD
Government, Academic, and Non-Profit Organizations	\$495.00 USD	\$595.00 USD

To register securely online, visit:

<http://www.microgridinnovation.com/Bangkok/register.htm>