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MTU Power Generation Symposium | Americas



All times are stated in Eastern Standard Time (EST) (UTC -5/GMT -5).
Sessions presented in Spanish indicated by (SP) following the topic name.

Icons Legend:  - Live Session |  - Pre recorded & Live Q&A |  - Pre recorded Session

Monday, November 30, 2020

1:00 – 1:15 p.m.



Opening Address - Welcome Guests and Presenters

Presenters: Matthias Vogel MTU Friedrichshafen, Executive Vice President, Service, Network & Business Development
Andreas Görtz Rolls-Royce Power Systems, Vice President Power Generation

1:30 – 2:30 p.m.



The Future of Power Generation Panel Discussion - *Eligible for .1 CEU credit*

Moderator: Michael Wagner, Rolls-Royce Power Systems, Director Business Development

Panel: Andreas Görtz, Rolls-Royce Power Systems, Vice President Power Generation
Alan Prosser, MTU America, Director Sales, Power Generation, North America
Carsten Schrick, MTU America, Director of Gas & Microgrid Sales, Americas
Cordelia Thielitz, Rolls-Royce Power Systems, Vice President Microgrid Solutions

Overview: In this panel discussion, our experts will discuss future trends in international energy production focusing on decentralized power, LNG as a global trend, synthetic fuels, the future role of hydrogen and smart grids.

Tuesday, December 1, 2020

11:00 a.m. – 12:00 p.m.



Microgrid Solutions and Practical Examples - *Eligible for .1 CEU credit*

Moderator: Tom Drake, MTU America, Sr. Sales Manager -Gas Power Systems

Panel: Benjamin Braun, Rolls-Royce Solutions Berlin, Head of Systems Engineering & Project Management
Dr. Arunachalam Lakshminarayanan, MTU America, Sr. Development Engineer
Erik Svanholm, S&C Electric Company, Vice President, Non-Wires Alternatives
Allie Detrio, Reimagine Power, Chief Strategist

Overview: In this panel discussion, industry experts will discuss the trends that are incentivizing end users to install microgrids to manage their own energy needs. The panel will also discuss the technical, commercial and regulatory climate for microgrids in North America.

11:00 a.m. – 12:00 p.m.



Power to X - Can We Have a Carbon Neutral Future? - *Eligible for .1 CEU credit*

Presenters: Armin Fuerderer, MTU Friedrichshafen, Director Customer Solutions Power Generation
Dr. Daniel Chatterjee, MTU Friedrichshafen, Director Technology Management and Regulatory Affairs

Overview: In this session, we will provide an overview of the Power to X technology including future possible applications. We will also provide an outlook on how Power to X will be contributing to the shift to a CO2-neutral world. Furthermore, we'll review the outlook of what role Power to X can play in an H2 society.

1:30 – 2:30 p.m.



Sound and Enclosure Considerations - *Eligible for .1 CEU credit*

Presenters: Tom Drake, MTU America, Sr. Sales Manager -Gas Power Systems
Zach Dean, MTU America, Regional Sales Manager
Matt Adamchick, MTU America Research Engineer

Overview: In this presentation, we will review the design considerations for generator enclosures focusing on sound mitigation. We will discuss for both diesel standby generators along with system integration of heat recovery systems for CHP systems.

1:30 – 2:30 p.m.



Designing for Reliability in Mission Critical Applications - *Eligible for .1 CEU credit*

Presenters: Brian Thompson, MTU America, Regional Sales Manager
Chris Kost, MTU America, Mechanical Design Engineer

Overview: In this session, you will be introduced to the wide variety of factors that can play a role in the reliability of power systems in mission critical applications. You will also be provided with information on design and equipment options as well as use and maintenance best practices that can be implemented to maximize the reliability of these systems.

Wednesday, December 2, 2020

9:00 a.m. – 10:00 a.m.



Resiliencia Energética con Sistemas de Generación de Gas (Casos Prácticos) (SP)

Presenters: Alfredo Carrasco, MTU America, Sr. Regional Sales Manager
Jose Piñero, MTU America, Sales Engineering

Overview: En esta sesión descubrirá como una central de generación en sitio con motores de gas natural puede garantizar el suministro fiable de electricidad en una instalación industrial o comercial. Profundice en como estas soluciones también permiten incrementar la disponibilidad de energía incluso cuando el proveedor no puede suministrar la demanda requerida o las inversiones son demasiado elevadas. Ejemplos reales de proyectos en la region

10:00 a.m. – 11:00 a.m.



Microrredes 201 (SP)

Presenters: Edgar Benitez, MTU America, Sr. Sales Manager, Engineering Diesel Power Gen
Augusto De Miguel, MTU America, Sr. Sales Manager, Diesel & Gas Mexico

Overview: En esta sesion descubrira como fuentes de energía renovable hacia la red eléctrica convencional introduce diversos beneficios, pero a su vez algunos desafíos. En ocasiones estos desafíos pueden ser mitigados con la adición de sistemas de almacenamiento de energía, e.g. BESS. Sin embargo, solo en una red inteligente o microrred es capaz de optimizar todo el potencial que esta combinación de renovables, convencional y almacenamiento nos ofrece. El sistema de control es el componente más esencial de una microrred. Gestiona los activos de energía distribuida de la microrred para producir energía de manera óptima, manteniendo la estabilidad y seguridad de la red en todo momento. Para ello, el sistema debe ser predictivo, inteligente y automatizado.

11:30 a.m. – 12:30 p.m.



Understanding Codes and Standards for Standby Power Systems - *Eligible for .1 CEU credit*

Presenters: Steve Resner, MTU America, Regional Sales Manager
JD Carsten, MTU America, Sr. Manager Mechanical Engineering R&D

Overview: In this session, you will be introduced to overarching codes and standards that are relevant to the design and installation of standby power systems.

11:30 a.m. – 12:30 p.m.



Fuel Flexibility in Gas Applications - *Eligible for .1 CEU credit*

Presenters: Juan Matson, MTU America Sr. Sales Manager Gas Power Systems North America
Norbert Maier, MTU Friedrichshafen, Business Development Manager Power Gen

Overview: In this session, you will be introduced to the different types of gases and their influence in power generation parameters and applications. We will also discuss the latest trends for alternate fuels and the impact they are having on the market. In addition, we will review key factors to consider when dealing with these types of gases, through practical examples implemented in the Americas.

1:30 – 2:30 p.m.



CHP Best Practices & Lifecycle Optimization – *Eligible for .1 CEU credit*

Presenters: Alfredo Carrasco, MTU Sr. Regional Sales Manager
Miguel Zamorano, MTU Sr. Sales Manager, Service Sales

Overview: In this session, you will be introduced to Combined Heat & Power concepts and technologies used in various applications. We will also discuss key factors to consider when developing a project and in determining if CHP is the right solution. Furthermore, you will be introduced to key components that impact the life-cycle cost of continuous operation power plants. Evaluate the total cost of ownership with a focus on operating and maintenance costs.

1:30 – 2:30 p.m.



Energy Storage Technology and Applications - *Eligible for .1 CEU credit*

Presenters: Elena Smolarz, Rolls-Royce Solutions Berlin, Product Portfolio Manager
Lucas Brucker, MTU Friedrichshafen, Business Development Mgr Power Generation & Microgrids

Overview: In this session, you will be introduced to energy storage specific terminology and different energy storage technologies. The unique characteristics of each technology will be presented, followed by a deep dive into lithium ion battery systems. The deep dive will cover working principle, storage design, safety elements, degradation and efficiencies. The session will close with an overview of storage applications and how customers can make use of the technology.

Thursday, December 3, 2020

9:00 a.m. – 10:00 a.m.



Requisitos de integración según “Uptime Institute” para sistemas de UPS dinámicas (SP)

Presenters: Jesus Santos Homobono, Kinolt, Area Sales Manager Southern Europe
Fernando Wendt, Kinolt, Mechanical Engineer

Overview: Cuando se invierte en el diseño y construcción de un nuevo centro de datos, es necesario asegurarse de que la instalación va a cumplir con todos los criterios de diseño. Los futuros clientes quieren estar seguros de que el rendimiento y fiabilidad de sus datos van a cumplir su objetivo comercial 24 x 7. RRPS KINOLT le ayuda, con el diseño de su infraestructura crítica, desde la etapa más temprana. Podemos asegurar que su infraestructura crítica va a cumplir el objetivo de tiempo de actividad, proporcionando el negocio sostenible que su organización espera.

10:00 a.m. – 11:00 a.m.



Caso de Estudio, Centro de Datos LATAM –SONDA (SP)

Moderator: Maria Gutierrez, MTU America, Sales Manager Diesel Latin America
Panel: Cristian del Favero, Detroit S.A. (Chile), Energy Manager
Gunther Hennings, Sonda, Data Center Service Director
Roberto Barias, PQC, CEO, LATAM

Overview: Cuando se invierte en el diseño y construcción de un nuevo centro de datos, es necesario asegurarse de que la instalación va a cumplir con todos los criterios de diseño. Los futuros clientes quieren estar seguros de que el rendimiento y fiabilidad de sus datos van a cumplir su objetivo comercial 24 x 7. RRPS KINOLT le ayuda, con el diseño de su infraestructura crítica, desde la etapa más temprana. Podemos asegurar que su infraestructura crítica va a cumplir el objetivo de tiempo de actividad, proporcionando el negocio sostenible que su organización espera.

11:30 a.m. – 12:30 p.m.



Fuel Cells -Emergency Standby, Demand Response - *Eligible for .1 CEU credit*

Presenters: Armin Fuerderer, MTU Friedrichshafen, Director, Customer Solutions Power Gen
Dr. Daniel Chatterjee, MTU Friedrichshafen, Director, Technology Management and Regulatory Affairs

Overview: In this session, we will explain fuel cell technology in general including benefits and challenges. Furthermore, we will give 2-3 possible application examples and provide an outlook for 2021 offerings.

11:30 a.m. – 12:30 p.m.



Uptime Integration Requirements for D-UPS Systems - *Eligible for .1 CEU credit*

Presenter: Jack Kaspers, Kinolt, Business Development Manager

Overview: In this session we will discuss the differences between static and dynamic uninterruptable power supplies (UPS) and role D-UPS systems play in system reliability. Specifically geared toward data center applications, the session will outline the UpTime Institute design criteria and the electrical dynamic UPS topologies already proven and validated by the institute.

1:30 – 2:30 p.m.



Power Generation and the Environment: Considerations for Air Districts with Stringent Air Permitting Requirements - *Eligible for .1 CEU credit*

Presenters: Brian Ponstein, MTU America, Senior Application Engineer
Mark Holt, MTU America, Emissions Specialist -Engineering

Overview: In this session you will be introduced to the common considerations for dealing with air permitting requirements for power generation. We will review factors that impact unit emissions and discuss several solutions to reduce emissions for the site as well as engineering economic solutions. Examples will be used to show how different parameters have different effects on a given project.

1:30 – 2:30 p.m.



Key Life-Cycle Cost Considerations for the Operation and Maintenance of Continuous and Mission Critical Equipment - *Eligible for .1 CEU credit*

Presenters: Jim Michael, MTU America, Sales Manager, Power Gen Service-Sales
Miguel Zamorano, MTU America, Sr. Sales Manager-Service Sales

Overview: In this session you will be introduced to key considerations for assessing the total life-cycle cost of continuous and mission critical standby equipment. We will evaluate the total cost of ownership with a focus on operating and maintenance costs while identifying best practices for preventive maintenance, maximizing uptime and minimizing unscheduled costly repairs.

To learn more on the event, visit <https://mtuvirtualpgs.kenes.com>.