

# UTC Cross-Border Power Grid 4.0 Digitalization Forum

## *THE DIGITAL REVOLUTION – Transforming Business Continuity During Disruption and Crisis*

**All times posted are in EST**

**Tuesday, November 3, 2020**

12:30pm – 2pm

### **Welcome Address & Keynote Session**

Welcome Address:

Sheryl Riggs, UTC President & CEO  
Greg Angst, UTC's Chairman of the Board  
Denis Tremblay, President & CEO - AIEQ  
Dale Clarke, SNC-Lavalin – PREMIER SPONSOR, President, Infrastructure Services

Keynote Presenter:

Marc Boucher – President of Hydro-Québec TransÉnergie et Équipement – Hydro-Québec

- Hydro-Québec's main activities and digitalization projects
- Challenges and opportunities resulting, in part, from the current industry disruption and COVID-19 crisis.

2:30pm – 3:30pm

### **Industry Disruption: COVID-19 – Catalyst for the Digital Transformation**

- COVID - 19 Impact on Current Business Models
- Reacting to Industry Disruption Without Prior Knowledge
- Regulatory Considerations
- Digital Networks Lesson Learned
- The Future of the Digital Transformation

Moderator:

Bill Strohecker, Country Managing Director – Hitachi ABB Power Grids Canada

Panelists:

Daniella Piper, Vice President of the Digital Transformation Office, and Chief of Staff to the President and CEO – NYPA  
Mark W. Thompson, Director – Digital Delivery – Electric System Engineering – National Grid

4pm – 5pm

### **Digitalization Technology Roadmap**

- Getting Started
- Objectives
- Resources
- Objectives Vs. Revenue
- Accelerating the Digital Transformation

Moderator:

Sylvain Clermont, Director, Operational Technologies Convergence - Hydro-Québec

Panelists:

Rhiannon Gainor, Enterprise Data Architect – Lower Colorado River Authority  
Josh Gerber, CEO – 33 North Energy

5:30pm – 6:30pm

### **Roundtable Recap**

Lesson learned from the day will be broken up in to key discussion points. Attendees will be broken out into small working groups to determine the one key take away from today's program. Each group will choose a spokesman that will communicate the findings to the larger group. The result of this session is to discover the top take away from the day.

## **UTC Cross-Border Power Grid 4.0 Digitalization Forum**

### **Wednesday, November 4th**

11am – 12pm

#### **Accelerating the Digital Utility**

- Honest assessment of real-world challenges faced by utilities
- Envision the sustainable future for utilities by leveraging digital technologies available today
- Leverage data today to reveal new views of business, new ways of operating and unlocking new sources of revenues

Moderator:

Sylvain Clermont, Director, Operational Technologies Convergence - Hydro-Québec

Speaker:

Bryan Frieauf - EVP & General Manager, Enterprise Software Solutions - Hitachi ABB Power Grids

12:30pm – 1:30pm

#### **The Digital Substation**

- Development of an automation deployment methodology
- Case study: Hydro-Quebec's Centralized Protection & Control digitization project
- Integration of strategic and governance objectives
- Deployment and integration challenges
- Key benefits and implementation guidelines

Moderator:

Souheil Sabbagh, Director, Strategy and Consulting Services, Intelligent Networks & Cybersecurity Power, Grids and Industrial Solutions – SNC-Lavalin

Presenters:

Mario Khayat, VP of digital infrastructure – SNC-Lavalin  
Dennis Gammel, Research & Development Director – SEL  
Dominic Gauthier, Chef Évolution des automatismes – Hydro-Québec  
Barat Vasudevan, Application Engineer – Protection & Control - Hitachi ABB Power Grids

2pm – 3pm

#### **The Human Component of the Digital Transformation**

- Recruiting Talent
- Training, Education & Retention
- Digital Technology Mindset
- Corporate Culture

Moderator:

Pablo Humeres Flores, Head of Digital Supervision and Substation Automation - Eletrobras

Panelists: Sylvain Clermont, Director, Operational Technologies Convergence - Hydro-Québec  
Katie Johnson, Director of Global Employee Relations - Black & Veatch  
Bob Tafoya, Director of Business Development - Utilities - Juniper Networks  
Bassem Zakhary, Subject Matter Expert (SME) – IoT & Industry 4.0 – SNC-Lavalin

4pm – 5pm

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## **UTC Cross-Border Power Grid 4.0 Digitalization Forum**

### ***Security & Key Considerations***

#### **Thursday, November 5th**

11am – 12pm

#### **Keynote Address**

- A look at Cybersecurity in our industry, with a fresh set of lenses
- How the grid is changing and what this means for cybersecurity risks
- How do we adapt and what are some of the disruptors we see coming

Presenter:

Moshe Toledano, Head of Cybersecurity - Hydro-Quebec

Moderator:

Youssef Jad, VP Cyber Defense & R&D Innovation (Industrial/OT/xIoT) - PM SCADA Cyber Defense

12:30pm – 1:30pm

#### **Cybersecurity: 2020 & Beyond**

- Digital Technology Security Risk & Threats
- Assessing Your Security Needs
- Roadmap Your Security Needs
- Integration of IT/OT Cybersecurity

Moderator:

Souheil Sabbagh, Director, Strategy and Consulting Services, Intelligent Networks & Cybersecurity Power, Grids and Industrial Solutions – SNC-Lavalin

Panelist:

Martine Chlela, Team Lead, Cyber Security - SNC-Lavalin  
Michael Powell, Vice President, Government Relations - Canadian Electricity Association  
Mike Spanbauer, Security Business Unit – Juniper Networks  
Dax Streater – Director Cybersecurity – Lower Colorado River Authority

2pm – 3pm

#### **Converged Industrial Edge**

- Unify critical infrastructure communications: See how this solution can safely deploy IT & OT applications with no compromises.

- Simplify and Secure: See how permanent and ephemeral communications can be created and torn down, supporting compliance and cybersecurity.
- Reduce Operational Costs and Cyber risk: Reduce truck rolls and accelerates deployment of new services.

Moderator: Bob Tafoya, Director of Business Development – Utilities & Industrial – Juniper Networks

Presenters: Marc Berner – Dragos  
Rhett Smith, Principal Engineer, R&D Communications Department – Schweitzer Engineering Laboratories, Inc.

3:30pm – 4:30pm

### **Emerging Digital Technology**

- AI/VR
- Machine Learning
- Distribution to Consumer Technologies
- Transmission from Generation to Distribution Network Technologies
- Autonomous Vehicles/Field Area Networks
- Digital Twins
- Hydrogens of many colors
- Block Chain

Moderator: Stephen Koch, Director of Emerging Issues – Canadian Electricity Association

Presenters: Chrissy Carr, NIA Director of Sales & Marketing – Burns & McDonnell  
Carol Bogacz, Associate Data Specialist – Burns & McDonnell  
Marcus Hashchak, Lead – Enterprise 3D Solutions - SNC-Lavalin  
Grant Howard, Mechanical Engineering Specialist – Enterprise 3D Solutions - SNC-Lavalin