

SAVE THE DATE

OCTOBER 23-26, 2017 | TRINIDAD

THE RADISSON HOTEL, PORT OF SPAIN



USAID
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CARILEC
An Association Of Electric Utilities

SMART GRID⁺ SYMPOSIUM



TOPICS:

Micro grids	Distributed Generation	Grid Integration
Internet of things	Electric Vehicles	Demand Response
Battery Storage	AMI	Energy Efficiency
Analytics	Smart Grid Analytics	Generation Dispatch
Aging Infrastructure	Cyber Security	
Smart Cities	Big Data	

FEES:

Member Attendee: US\$500.00
Non-member Attendee: US\$520.00
Exhibitors only:
- Display Table US\$300.00
- Booth USD\$600.00
Exhibitors, Conference US\$400.00
Presenter and conference US\$420.00
Presenter only: USD\$200.00

Post-training 25-26 October, 2017: FREE

1. Grid Security: Confronting the Challenge
October 25
2. Energy Storage and Distributed Generation
October 26

Hotel Information

Radisson Hotel Trinidad
Tel: 868 625 4531
Rates: US\$139.00 inclusive of breakfast and in room wireless
Registration CODE: CARILE bookings@rposthotel.com

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SMART GRID+ SYMPOSIUM

*Join us for an opportunity to network with key
Caribbean Power Sector Stakeholders*

WORKSHOPS • PANELS • NETWORKING •
CASE STUDIES • EXHIBITION • SMART RECEPTION

Smart Grid Topics:

- ✦ Smart Home - Smart City
- ✦ Electric Vehicles
- ✦ Distributed Generation
- ✦ Smart Grid Interoperability
- ✦ Cyber Security
- ✦ IT Strategic Planning
- ✦ AMI, CIS, SCADA
- ✦ Customer Engagements

GIS Special Deep Dive:

- ✦ Aerial Imagery and LiDAR
- ✦ National SDI implementation
- ✦ Mobile Technology
- ✦ Field Data Collection
- ✦ Modern Geodetic Framework
- ✦ Business Intelligence & Analytics
- ✦ Web Solutions
- ✦ Crowd Sourcing Data

And much more!

For more information contact:

The Caribbean Electric Utility Services Corporation
Laurena Primus | slprimus@carilec.org | +1-(758)-452-0140

USAID Caribbean Clean Energy Program
Danielle Wilson | dwilson@carcep.org | +1-(876)-579-8698

Accommodation:

USD \$139
breakfast included

Radisson Hotel
+1(868)-625-4531



Events	Date	Location
Smart Grid Symposium : Smart Technologies	23rd - 24th October, 2017	Trinidad
Grid Integration and Energy Storage	25th October, 2017	Trinidad
Grid Security: Confronting the Challenge	26th October, 2017	Trinidad

For more information about this and other CARILEC events contact training@carilec.org or events@carilec.org

Smart Grid Symposium Draft Agenda

Monday - October 23, 2017

7:30am - 8:30am	Registration
8:30am - 9:30am	Opening Ceremony:
	Master of Ceremonies -
	Prayer -
	National Anthem -
	Welcome -
	Opening Remarks -
	Keynote Speaker - Pramod Jain, President, Innovative Wind Energy Inc
	Vote of Thanks
9:30am - 10:00am	Coffee Break & Booth Visitation
10:00am - 11:00am	Panel Discussion: Deployment of Micro grids in Island Communities moderated by Siana Teelucksingh
	Panelists:
11:00am - 11:30am	Speaker: Michael Demeter, Stephen Chasko, Landis+Gyr
	Title: Attack Tree Analysis of Advanced Metering Systems moderated by Kelly Dietz, Landis+Gyr
11:30am - 12:15pm	Speaker: Mike Hopkins, CEO, Ice Energy
	Title: Transforming Residential AC Load into a Flexible Grid Resource: An Ice Bear moderated by
12:15pm - 1:30pm	Lunch
1:30pm - 2:15pm	Speaker: Dr. Chuck Wells, PXiSE Energy Solutions & Kevin Walsh, OSIsoft, LLC
	Title: Solutions for today's grid challenges moderated by
2:15pm - 3:00 pm	Speaker: Tim Spearing, Lucy Electric Ltd
	Title : Developments in active network management application moderated by
3:30pm - 4:00pm	Speaker: Ricky Case, Jamaica Public Services Ltd
	Title:
4:00pm - 5:00pm	Smart Grid working group Panel Discussion moderated by Panelists:

Tuesday - October 24, 2017

8:00am - 8:30am	Registration
8:30am - 9:15am	Panel Discussion: Challenges of Managing very high levels (50% or greater) of Distributed Energy Resources
	moderated by
9:15am - 10:00am	Speaker: Kelly Dietz, Landis+Gyr
	Title: How Big Data is Driving the Convergence of Engineering and Operations moderated by
10:00am - 10:30am	Speaker: VIWAPA
	Title: AMI Solutions moderated by
10:30am - 11:00am	Coffee Break & Booth Visitation
11:00am - 11:45am	Speaker: Vani Dantam/Dayanna Palacios, Landis+Gyr
	Title: Enabling Renewables on Island Grids: Applying lessons from projects on the Mainland moderated by
11:45am - 12:15pm	Speaker: Javid Samuel, NCC Group
	Topic: How is your Smart Grid Secure? moderated by
12:30pm - 1:30pm	Lunch
1:30pm - 2:00pm	Book signing: Pramod Jain
2:00pm - 2:30pm	Speaker: IBM
	Topic: Smart Grid Analytics moderated
2:30pm - 3:00pm	Speaker: Siana Teelucksingh & BEL
	Topic: Micro grids: Joint presentation with Belize Electricity moderated by
3:00pm - 3:15pm	Break
3:15pm - 3:45pm	Speaker:
	Topic: IOT for Utilities Moderated by
3:45pm - 5:00pm	Utility updates moderated by Laurena Primus (MEMBERS ONLY)

Post Symposium Training FREE for Symposium Participants

Wednesday 25th October, 2017
Grid Integration and Energy Storage

Thursday 26th October, 2017
Grid Security: Confronting the Challenge



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ICT:OT: Smart Grid/Technologies Symposium

Theme: "Digital Transformation: The Modern Utility"

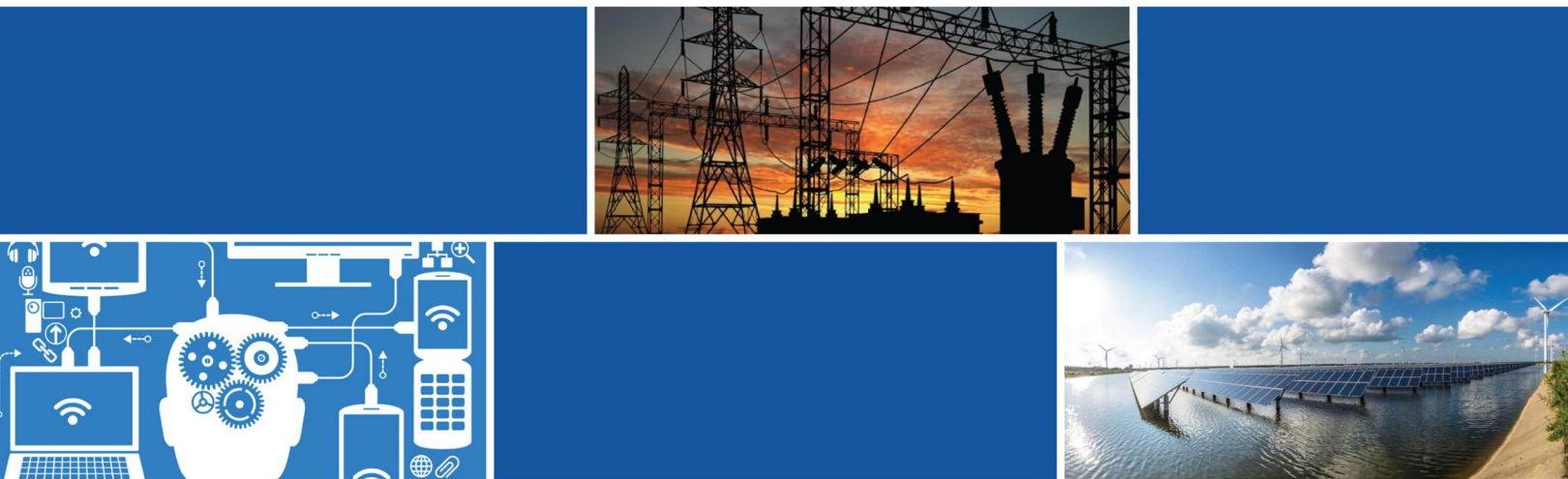
Date: October 23-26, 2017

Venue: Trinidad



KEYNOTE SPEAKER: Jain Paramod

Pramod is a leading expert in Wind Power, Energy Storage and Internet of Things. He is a consultant to private developers, the Asian Development Bank, USAID, US Department of Energy, United Nations Development Program, Inter-American Development Bank and others. One of his areas of focus is improving the operations of wind and other power plants. He designs sensors and data analytics methods for operations and maintenance of wind power plants. He also develops solutions on IT cloud platforms for IOT. Pramod has provided consulting in the USA, Bangladesh, Brazil, Guyana, Jamaica, Mexico, Mongolia, India, Indonesia, Lebanon, Philippines, Sri Lanka, St. Kitts, Vietnam. He is the author of a book Wind Energy Engineering, McGraw-Hill, NY, published in April 2016. He holds a B. Tech from Indian Institute of Technology, Bombay and Ph.D. from University of California, Berkeley.



Laurena Primus

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Grid Security: Confronting the challenge

26 October, 2017

Trinidad

Course Overview

This training course will examine common smart grid security concerns with a focus on application, infrastructure and cryptography vulnerabilities. A review of recommended methodologies for secure design and threat modelling for building and deploying secure smart grids will be addressed. This training workshop will cover material discussed in the various Smart Grid industry regulatory standards such as NIST, NERC, ISO and ENSIA.

Course Description

Introduction to Cybersecurity on SmartGrids

Secure Design

Building and Deploying Secure SmartGrids

Threat Modeling

Threats and Recent Attacks

Smart Grid Security concerns

Applications

Infrastructure

Cryptographic

SmartGrid Regulatory Standards

NISTIR-7628

NERC (CIP) Critical Infrastructure Protection

ISO-27002; ISO-27019

Presenter



Javed Samuel is currently a technical director at NCC Group, an information assurance firm headquartered in Manchester, United Kingdom, offering services in: software escrow and verification, cyber security consulting and managed services, website performance, software testing and domain services. NCC Group has 35 offices across four continents, employs more than 2000 people and is a trusted advisor to over 15,000 clients worldwide. His current responsibilities are both technical and business, including technical account management of clients, understanding their security needs and software and systems development process and ensuring that the final product or application is aligned with their requirements. He has conducted gap analysis between design and industry best practices and recommends solutions for addressing various weaknesses. He is also a lead member of the specialized

Cryptography Services practice that specializes on novel and complicated cryptographic assessments. He has also delivered numerous customized training engagements covering web security, mobile security, cloud security or cryptography for multiple clients across a range of industries including the electric sector. Javed Samuel obtained a Masters in Engineering (MEng) and BSc in Computer Science at the Massachusetts Institute of Technology (MIT) where he completed a number of computer security and cryptography classes. He also has a BSc in Management Science with a concentration in Operations Research and minors in Economics and Mathematics from MIT. He was the recipient of the prestigious Rhodes Scholarship in 2005 and completed a Masters in Science (MSc) in Applied and Computational Mathematics at Oxford University.

Course Fee:

FREE (for persons registered to participate in the 2 day Symposium: Oct. 23-24)

Time:

8:30am - 4:30pm

For Registration or further information contact:

Training Department * CARILEC * Tel. 758-452-0140 Fax. 758-452-0142

Email: training@carilec.org

www.carilec.org