



ENGINEERING & PROCUREMENT CONFERENCE & EXHIBITION

Leveraging Technology and Process Innovation with Enhanced Procurement:
Solutions for a More Resilient Caribbean Power Sector

JULY 21ST - 25TH, 2024

VENUE | ST. MAARTEN

2024 FOCUS: RESILIENCE AND SUSTAINABILITY; CONTRIBUTING TO ECOLOGICAL HARMONY



Theme Synopsis

The Caribbean power sector is witnessing a steady transformation in its energy transition endeavours, marked by an increased focus on grid resilience initiatives and infrastructure development. As secure, clean, and affordable solutions and technologies continue to evolve in the power sector, there is an increasing demand for competitive, cost-effective, and timely procurement practices, coupled with innovative processes.

The level of resilience, and adaptability of the Caribbean power sector in the face of climate change and natural hazards, depend on delivering timely and effective solutions that are based on cutting-edge engineering technologies, efficient procurement practices and process innovations. Effective operations and consistent maintenance of transmission and distribution systems are essential for the reliable functioning of the power grid. As initiatives continue towards the decarbonization of power and transport sectors, new energy services are necessary to provide concrete concepts and solutions that incentivise and target e-mobility, decentralized RE, energy efficiency and demand-response management.

Enhanced procurement has become a key success factor for power sector modernization within recent years. Challenges in procurement need to be addressed in relation to matching engineering requirements to functional requirements from a financial perspective, time-sensitiveness, operational issues, planning and competing interests, internationally, for time, resources and spare parts, to name a few. Having an appropriate procurement framework at the heart of pricing is key, considering how critical each point of the supply chain is.

The design of new and resilient energy infrastructure, procurement of works, services and equipment are expected to increase in complexity, thus requiring more holistic approaches and inclusive perspectives. Cost-efficiency, environmental and social implementation criteria are aspects which should be considered when procuring energy infrastructure. Through cooperation among sector and non-sector stakeholders, sharpening of innovative processes focused on technology, infrastructure and resilience, significant contributions can be made to power the energy transition within the Caribbean region.

In our CARILEC Engineering and Procurement Conference 2024, we will therefore examine and distil best-practices and experiences, as well as new solutions and innovative approaches for Leveraging solutions focused on Technology and Process Innovation with Enhanced Procurement for a more Resilient Caribbean Power Sector.

All interested persons are invited to submit abstracts of approximately 100 words with titles, for preliminary consideration, as presentations for CARILEC 2024 Engineering & Procurement Conference & Exhibition and Articles for the [CARILEC CE Industry Journal](#).

Presentation Topics

Topics of interest to the CARILEC Conference audience should incorporate the theme of the conference and focus on sub-topics listed below:

Panel Discussion

Leveraging Technology and Process Innovation with Enhanced Procurement: Solutions for a more Resilient Caribbean Power Sector

Key Topics

- **Energy Modelling Approaches** - Technologies and solutions for planning and simulating future power generation and grid capacities in the Caribbean.
- **Cybersecurity** - Operational safety for Energy Security: tailored protection for the daily utility business.
- **Flexible generation** - Technologies and Solutions for more complex grid operation requirements.
- **Advanced Metering Infrastructure (AMI)** - how to prepare the Customers for Energy Transition.
- **The Prosumer model** – Technologies, Technical Standards, Contract Templates and Financial Programmes to safely increase Customer Ownership for Energy Transition.
- **Electric vehicle (EV) charging:** Standards and Technologies and how they differ.
- Similar topics speaking to innovation and solutions for Power Sector Engineering and Procurement

Procurement Track

General

RFP and Procurement procedures: Ways to boost procurement efficiency and effectiveness - strong specifications, distinct evaluation criteria and extensive outreach to ensure best-available technology at competitive market prices.

EPC-Contracts (for grid infrastructure, generation or storage capacities) - Considerations and Success Factors for a long-term and mutually beneficial partnership.

Utility Case Studies: Presentations on experiences and practices which are relevant to the Region and the Conference theme.

Presenters Guidelines

1. All completed Abstract Submissions Forms must be submitted by **May 31st, 2024**.
2. Selected presenters will be informed by **June 7th, 2024**.
3. Subsequent to notification, a full presentation must be submitted by **July 15th, 2024**, based on the selection committee's allotted time for your presentation:

Option 1 - Power Point slides, for an approximate 35–60-minute presentation/ working session (inclusive of 15 minutes Q & A)

Option 2 - Power Point slides, for an approximate 20 - 35 minutes presentation (inclusive of 5 - 10 minutes Q & A)

Option 3 - Power Point slides, for an approximate 15–20-minute presentation (inclusive of 5 minutes Q & A)

* A Written Article (Optional) to be considered for publication in the CARILEC's CE Industry Journal. For more information on the Journal email caribbeanelectric@carilec.org

Please send all Submissions to: Member Services Department, at events@carilec.org (Early Submissions are highly encouraged). Receipt of your submission will be acknowledged within two days.

General: CARILEC has appointed a selection committee to determine the presentations to be delivered at its conferences. The number of presentations accepted for a conference depends on program size (the number of sessions), technical coverage (the topics to be covered), focused on the subtopics and the number and quality of presentations. The selection committee identifies the best contributions for the agenda.

Awards

Presenters will:

1. Have an opportunity to be published in [CARILEC CE Industry Journal](#).
2. Have their bio, photo and company name published on the CARILEC website.
3. Present to Caribbean Regional Utility Managers and an audience of over 60 delegates.

Criteria for Selection: Your abstract should demonstrate clearly that your presentation:

1. Will focus on the specified theme and general topics;
2. Will be of interest particularly to the target audience of the conference;
3. Will present information that is theoretically sound and accurate;
4. Will present new knowledge or experience, the substance of which has not been previously presented at a CARILEC conference (unless otherwise advised);
5. Will not be commercial in nature and will not promote specific companies, products, or services.

Full Disclosure: Third Party Compensation

All instructors and presenters are required to disclose proprietary interest in any product, instrument, device, service, or material discussed in the experience, event, or program, as well as the source of any compensation related to the presentation.

[CLICK TO ACCESS ABSTRACT SUBMISSION AND AUTHORIZATION TO PUBLISH FORM](#)

***ONLY SIGNED FORMS WILL BE ACCEPTED.**