

Integrating Climate Risk into Caribbean Energy Planning

CARILEC's Support & Utility Case Studies

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Extreme Weather & Energy Vulnerability

- Increasing frequency of hurricanes, floods, and droughts the Caribbean energy infrastructure is highly exposed.
- Urgent need for climate-resilient planning and investment

CARILEC's Multi-Pronged Strategy

- Focused on
 - **Resilience,**
 - **Capacity Building,** and
 - **Regional/International Collaboration**
 - **Advocacy & Policy Support**
- Empowering member utilities to navigate climate and energy transitions



Regional Collaboration

- Cross-border cooperation among utilities and regulators
- Exposure to global standards and innovations
- Shared best practices in climate adaptation

Climate-Resilient Energy Planning

Integrated Resource and Resilience Plans (IRRPs) to:

- Identify infrastructure vulnerabilities
- Prioritize resilient technologies
- Align with CARICOM's climate adaptation goals



LUCELEC – Saint Lucia

Strategic Evolution Toward Resilience

- 2035 goal: 40% of energy from non-diesel sources
- Community-driven planning: energy efficiency, education, internet access
- Cultural shift toward innovation and agility
- Stakeholder in RREIF for climate-proof infrastructure

JPS – Jamaica

Infrastructure Hardening & Renewable Expansion

- J\$17B investment in grid modernization (2025)
- Post-Hurricane Beryl mutual-aid mobilization
- 133 MW solar + 170 MW battery storage planned
- Tariff reform and EV adoption initiatives