



March 9, 2023

Program Officer  
United States Department of Energy (DOE)  
Grid Deployment Office (GDO)

**Re: Letter of Commitment in Support of Application to Office of Clean Energy Demonstrations (DE-FOA-0002740)**

Proposal Title: Self-Healing Underground Lateral Project  
Lead Organization: Florida Power & Light Company  
Period of Performance: 01/01/2024 – 12/31/2026  
Request Amount: \$5,100,000.00

Dear Program Officer,

On behalf of the Florida International University Board of Trustees for the benefit of Florida International University and Dr. Arif Sarwat, I am pleased to support the enclosed proposal for your consideration. The proposal has been reviewed and approved by our office.

Florida International University is a public university of the State of Florida and as an instrumentality of the State reserves the right to negotiate the terms of any resulting agreement in regard to this submission in the event that an award is received for the proposed project. The terms of any resulting award will need to be in compliance with legal requirements applicable to Florida International University as a State of Florida governmental entity.

Please note that any notice of award or required negotiations should be directed to our awards team at [doraward@fiu.edu](mailto:doraward@fiu.edu) with a copy to Roberto M. Gutierrez, Assistant Vice President for Research at [gutierrr@fiu.edu](mailto:gutierrr@fiu.edu).

If you have any questions about this submission please reach out to the undersigned at 305-348-2494.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in blue ink that reads "Ludmilla Champagne".

Ludmilla Champagne  
Director, Proposal Services  
LC/JE  
Attachments

Proprietary & Confidential

March 1 2023

The Honorable Jennifer M. Granholm, Secretary of Energy  
U.S. Department of Energy  
1000 Independence Avenue, SW  
Washington, DC 20585

Re: Commitment to Florida Power and Light's Grid Resiliency and Innovation Partnerships Project

Dear Secretary Granholm:

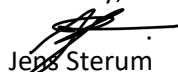
CNIguard LLC is pleased to provide this letter of commitment to Florida Power and Light's (FPL) application to *BIL – Grid Resilience and Innovation Partnerships (GRIP)* (DE-FOA-0002740), titled Underground Fault Current Indication and Overground Transformer Vaults. CNIguard will deliver an industry-leading and proven solution for underground and above-ground site monitoring and has agreed to provide products in the form of the Sentir SX2.1 main device built with sensor arrays designated to meet the requirements of FPL as well as hosted dashboard services and data analytics in support the Project.

CNIguard LLC is a US-based company delivering US-manufactured hardware products and associated information systems designed to remotely monitor critical electric and gas distribution infrastructure for electric and gas utilities in the United States. CNIguard is a National Grid Venture Partner company and is located in New York City, NY. CNIguard has worked extensively with Florida Power & Light and through this engagement, as well as performing field-pilots proving the efficacy of the solutions specifically for FPL, has a deep understanding of requirements and needs at it relates to solving critical-path infrastructure monitoring and delivery overall safety and enhanced grid resiliency to Florida Power and Light.

Monitoring underground and above-ground infrastructure in inherently harsh environments is a core component to utilities desiring to enhance their grid resilience posture. CNIguard's solutions enable remote conditions-based monitoring, delivering preventative information, as well as location-specific, actionable data, allowing the utility to resolve any operational issues promptly and accurately, thereby enhancing the overall efficient electricity distribution to the benefit of their customers.

As Vice President of Business Development at CNIguard LLC, I am authorized to commit CNIguard to support Florida Power and Light as described in this letter. Further, I commit that CNIguard will provide Florida Power and Light with products, technical support, and services required for Florida Power and Light to successfully enhance its electric grid network resilience and optimization for the direct benefit of their end-users and thereby meeting the program objectives for the Department of Energy.

Sincerely,



Jeff Sterum  
VP Business Development





March 9, 2023

The Honorable Jennifer M. Granholm, Secretary of Energy  
U.S. Department of Energy  
1000 Independence Avenue, SW  
Washington, DC 20585

RE: Letter in Support of Florida Power and Light's for a Grid Resilience Grant

Dear Secretary Granholm:

Eaton Corporation writes in support of Florida Power & Light's application to *BIL – Grid Resilience and Innovation Partnerships (GRIP)* (DE-FOA-0002740), vault monitoring project.

Eaton is a leader in Network Vault applications, as well as software for remote monitoring and control of distribution networks.

Eaton understands Florida Power & Light seeks to establish a cellular based remote vault monitoring network to enhance grid reliability and resiliency. This fault monitoring project includes:

1. Addition of sensors and data collection hardware to each vault
2. Cellular based communication
3. Cloud based software for monitoring and annunciation

Eaton would seek to participate in this project by offering design and engineering support as well as electrical hardware, software, and communications intended to enable Florida Power & Light to collect and analyze performance and other data for the project deliverables required by the Department of Energy.

Sincerely,

*Clarke Clingenpeel*

Clarke Clingenpeel  
Regional VP, UT Sales



February 23, 2023

The Honorable Jennifer M. Granholm, Secretary of Energy  
U.S. Department of Energy  
1000 Independence Avenue, SW  
Washington, DC 20585

Sub: Commitment for FPL's Grid Resiliency and Innovation Partnerships Project

Dear Secretary Granholm:

Sentient Energy, Inc. is pleased to provide a letter of commitment for FPL's application to *BIL – Grid Resilience and Innovation Partnerships (GRIP)* (DE-FOA-0002740), titled "*Smart Grid Manholes and Vault Monitoring*." We will provide equipment, installation, and commissioning services to Florida Power and Light (FPL) including UM3+ vault style line sensor, Sentient Ample™ Grid Analytics System, technical/analytical expertise and project support in the form of equipment, services, materials, tasks, and analytics.

Founded in 2009, Sentient Energy is a US company that employs 97 people, is headquartered in Frisco, TX with an additional office in Milpitas, CA. Our 10+ year partnership with FPL has delivered multiple grid reliability innovations. Sentient Energy's underground solution will provide fault indication on dense, urban circuits. The UM3+ monitors multiple feeders continuously and provides geospatially accurate real-time fault and pre-failure transient event detection to help minimize restoration times, reducing Customer Minutes of Interruption (CMI) and Operation and Maintenance (O&M) expense. In this project, 600-1000 vault locations will be deployed over a period of 3-5 years.

Our participation will enable new job creation for diverse roles in areas like planning, engineering, manufacturing, and line workers. Sentient Energy is not participating in any cost-share arrangement with FPL. I commit that Sentient Energy will provide FPL with all necessary equipment, skilled resources and performance data required for successful demonstration of improved grid resiliency for UG circuits.

Sincerely,

A handwritten signature in black ink, appearing to read "Bob Karschnia".

Bob Karschnia  
Chief Executive Officer

Cc: Rick Teigland- [Rick.Teigland@fpl.com](mailto:Rick.Teigland@fpl.com), Monzon, William [William.Monzon@fpl.com](mailto:William.Monzon@fpl.com)