



Acciona Energy USA Global LLC
55 E. Monroe Street, Suite 1925
Chicago, IL 60603
www.acciona.us

March 15, 2023

To: Department of Energy (DOE), Grid Deployment Office (GDO)

Re: Letter of Commitment for Grid Resilience and Innovation Partnerships (GRIP) DE-FOA-0002740

Acciona Energy USA Global LLC (AEUG) is pleased to support Algonquin Power Fund (America) and SmartWires' *Enabling the Clean Energy Transition by Enhancing Grid Stability Using SmartValve Technology* proposal to the Department of Energy's Grid Deployment Office. AEUG is an upstream owner and operator of approximately 440 MW of renewable generating assets in the LRGV region of South Texas.

AEUG belongs to the ACCIONA Energia Group, which is a global reference in sustainable development and a key player in the low carbon transition (carbon neutral since 2016). ACCIONA Energia is one of the world's largest operators of renewable energy. With 30 years' experience in the sector, it has 10.7 GW under its ownership (of which 1,130 MW are operating in the United States), distributed in 16 countries on the five continents.

If awarded, this project could help reduce GTC induced generation curtailments and nodal pricing risks associated with AEUG's renewable generation facilities, among other facilities. AEUG is eager to work with Algonquin, SmartWires, AEP and community-based organizations and labor on this exciting project.

Sincerely,

A handwritten signature in black ink that reads "Tracy Stoddard".

Tracy Stoddard
VP Business Development

March 14, 2023

To: Department of Energy (DOE), Grid Deployment Office (GDO)

Re: Letter of Support for Grid Resilience and Innovation Partnerships (GRIP) DE-FOA-0002740

AEP is pleased to support technical assessment of Algonquin Power Fund (America) and SmartWires' *Enabling the Clean Energy Transition by Enhancing Grid Stability Using SmartValve Technology* proposal to the Department of Energy's Grid Deployment Office. AEP is a transmission facility owner in the region of South Texas that is currently subject to the Valley Export and Import Generic Transmission Constraints (GTCs) which limit power flows out of and in to the region. AEP is interested in finding solutions to reduce these constraints which will benefit the grid and connected customers in the region by improving reliability and economics.

In addition to ERCOT, AEP has the experience of planning, designing, operating, and maintaining the grid in PJM, SPP, and MISO Regional Transmission Organizations (RTO). AEP believes that evaluation of emerging technologies is necessary to enable the grid of the future.

AEP is pleased to be part of the technical evaluation that will enable a cost-effective and reliable mitigation to the GTC constraints in South Texas.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kamran Ali".

Kamran Ali, P.E.

Vice President Transmission Planning

American Electric Power



139 EAST FOURTH STREET
CINCINNATI, OHIO 45202
512-698-6914

March 10, 2023

To: Department of Energy (DOE), Grid Deployment Office (GDO)

Re: Letter of Commitment for Grid Resilience and Innovation Partnerships (GRIP) DE-FOA-0002740

Duke Energy Sustainable Solutions (“DESS”) is pleased support Algonquin Power Fund (America) and SmartWires’ *Enabling the Clean Energy Transition by Enhancing Grid Stability Using SmartValve Technology* proposal to the Department of Energy’s Grid Deployment Office. DESS is an owner and operator of over 700 MW of renewable generating assets in the LRGV region of South Texas.

DESS is a leader in sustainable energy, helping large enterprises reduce power costs, lower emissions and increase resiliency. The team provides wind, solar, resilient backup power and managed energy services to over 1,000 projects across the U.S., with a total electric capacity of more than 5,100 megawatts of nonregulated renewable energy.

DESS is a nonregulated commercial brand of Duke Energy (NYSE: DUK), a Fortune 150 company and one of the largest energy holding companies in the U.S., headquartered in Charlotte, N.C.

If awarded, this project will help reduce GTC induced generation curtailments and nodal pricing risks associated with DESS’ renewable generation facilities. Duke Energy Sustainable Solutions is eager to work with Algonquin, SmartWires, AEP and community-based organizations and labor on this exciting project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew W. Dickson".

Andrew W. Dickson
Managing Director - Business Development



March 13, 2023

To: Department of Energy (DOE), Grid Deployment Office (GDO)

Re: Letter of Commitment for Grid Resilience and Innovation Partnerships (GRIP) DE-FOA-0002740

EDF Renewables is pleased to support Algonquin Power Fund (America) and SmartWires' *Enabling the Clean Energy Transition by Enhancing Grid Stability Using SmartValve Technology* proposal to the Department of Energy's Grid Deployment Office. EDF Renewables is an owner and operator of 272.6MW Las Majadas Wind project located in the LRGV region of South Texas.

EDF Renewables North America is a market leading independent power producer and service provider with over 35 years of experience. The Company delivers grid-scale power: wind (onshore and offshore), solar photovoltaic, and storage projects; distribution-scale power: solar and storage; asset optimization: technical, operational, and commercial expertise to maximize performance of generating projects, and onsite solutions, through the Company's PowerFlex affiliate, offering a full suite of onsite energy solutions for commercial and industrial customers: solar, storage, EV charging, energy management systems, and microgrids.

If awarded, this project will help reduce GTC induced generation curtailments and nodal pricing risks associated with EDF Renewables' renewable generation facility. EDF Renewables is eager to work with Algonquin, SmartWires, AEP and community-based organizations and labor on this exciting project.

Sincerely,

Rodica Donaldson

Rodica Donaldson

Sr. Director, Transmission Analytics

EDF Renewables



David W. Weaver
Vice President, Transmission Strategy
2301 Market Street, S8-1
Philadelphia, PA 19103

March 10th, 2023

Ted Bloch-Rubin
Director of Business Development
Americas Smart Wires
1035 Swabia Court
Suite 130
Durham, NC 27703

Dear Ted,

Thank you for the opportunity to provide the views of Exelon and its operating utilities regarding grid enhancing technologies (GETS), such as, the potential use of Smart Wires Smart Valve technology.

Exelon Corporation and its utility affiliates continuously work to ensure the reliability of the transmission grid in a cost-effective manner for its customers. As part of that work, we consider new transmission technologies and, where supported by analysis, work to deploy them. We analyze the appropriateness those new technologies based on several factors, including level of readiness, cost, and impact on rates and customer affordability, as well as the ability of the technology to support compliance with regional reliability, NERC, and other applicable reliability standards.

As stated in our comments to the FERC Notice of Proposed Rulemaking on Transmission Planning and Cost Allocation (docket no. RM21-17), Exelon is supportive of transmission owners having the flexibility to implement grid enhancing technologies in order to improve operations, enhance market efficiency, and otherwise benefit customers. When appropriately considered and deployed, grid enhancing technologies have the potential to improve reliability and/or reduce costs to customers. In light of these potential benefits, Exelon has been a proponent of deployment of advanced transmission technologies.

In conjunction with PJM, Exelon provides generators reliable, non-discriminatory access to the electric transmission system. Exelon is actively engaged in the generation interconnection queue process in PJM and continues to support reforms that improve the process for the customers it serves and other participating stakeholders. Exelon and its utility affiliates work through the PJM interconnection process to support the connection of new generation resources to the transmission system. Exelon has considered use of the Smart Valve technology and other GETs as part of this interconnection process and may recommend their use to PJM, particularly where such technologies facilitate interconnection and assists with grid reliability.

Accordingly, Exelon supports exploring the Smart Valve technology to the extent it continues to show potential to facilitate cost-effective and reliable generator interconnection and transmission service. If an application of the technology is employed, as this pilot program progresses and additional analysis is conducted, Exelon will develop a better understanding of the technology, its operational impacts, and, most importantly, the impact it has on our ability to ensure the reliability of the grid. Pending those learnings, Exelon's current support for this new technology will be assessed on a project-by-project basis and does not currently indicate support for broad proliferation of the technology across the Exelon transmission system now or in the future.

Regards,

David Weaver

David W. Weaver
Vice President, Transmission Strategy

xc: A. L. Blauman
 D. J. Dale
 T. W. Leeming
 S. M. Midgley
 J. S. Park
 G. E. Rippie
 P. Shah
 H. Sun
 J. E. Svachula



NORTHERN ILLINOIS UNIVERSITY

Sponsored Programs Administration

Division of Research and Innovation Partnerships

LETTER OF COMMITMENT

To: Department of Energy (DOE), Grid Deployment Office (GDO)

Re: Letter of Commitment for Grid Resilience and Innovation Partnerships (GRIP) DE-FOA-0002740

March 15, 2023

Northern Illinois University (NIU) is pleased to partner with Algonquin Power Fund America (Algonquin) on the *Enabling the Clean Energy Transition by Enhancing Grid Stability Using SmartValve Technology* proposal to the Department of Energy Grid Deployment Office. If awarded, this grant will provide valuable opportunities to our students, further empowering them to be the next generation of smart grid leaders.

NIU College of Engineering and Engineering Technology serves over 1,000 undergraduate students and 200 graduate students. The Department of Electrical Engineering serves 200 undergraduate students. As of Fall 2022, approximately 44% of the College's students are considered low-income (determined by Pell grant eligibility) and approximately 49% of the students in the Department of Electrical Engineering are low income. NIU's overall percentage of low-income students based on Pell grant eligibility was 56% as of Fall 2020.

The Department of Electrical Engineering has 10 full-time faculty, 35 teaching and research labs, is internationally recognized and has earned approval from the Accreditation Board for Engineering and Technology and the National Association of Industrial Technology.

The College also offers 17 professional organizations, including:

- Society for Hispanic Professional Engineers (SHPE)
- National Society for Black Engineers (NSBE)
- Society of Women Engineers (SWE)
- Engineers without Borders (EWB)
- Institute of Electrical and Electronics Engineers (IEEE)
- American Society of Safety Engineers (ASSE)

Its core values include initiatives that focus on diversity, inclusion and ethics, such as:

- Building on transparency and shared governance.
- Promoting equity, participation and belonging.
- Promoting professional ethical conduct.

1425 W Lincoln Hwy DeKalb, Illinois 60115-2828 Tel 815-753-1581 Fax 815-753-6081

Learning Today, Leading Tomorrow

Northern Illinois University is an Equal Opportunity/Affirmative Action Institution.

NIU commits to serving as a subrecipient and using the grant award to recruit and support a cohort of 10 low-income, academically talented electrical engineering or computer engineering students as part of a Smart Grid Leaders initiative. The students will receive scholarships throughout their four years, along with field work opportunities at SmartValve installation sites, mentorships from industry leaders, internships, access to a seminar series and stipends for industry conferences. NIU faculty will work with Algonquin and Smart Wires to integrate developments on recent advances in Smart Grid technologies and industry challenges in coursework and training.

Sincerely,



Donna Martin
Associate Director, Pre-Award
Sponsored Programs Administration

#23-412

1425 W Lincoln Hwy DeKalb, Illinois 60115-2828 Tel 815-753-1581 Fax 815-753-6081

Learning Today, Leading Tomorrow

Northern Illinois University is an Equal Opportunity/Affirmative Action Institution.

March 15, 2023

To: Department of Energy (DOE), Grid Deployment Office (GDO)

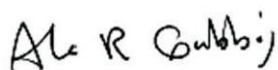
Re: Letter of Commitment for Grid Resilience and Innovation Partnerships (GRIP) DE-FOA-0002740

The University of Texas Rio Grande Valley (UTRGV) is pleased to partner with Algonquin Power Fund America (Algonquin) on the *Enabling the Clean Energy Transition by Enhancing Grid Stability Using SmartValve Technology* proposal to the Department of Energy Grid Deployment Office. If awarded, this grant will provide valuable opportunities to our students, further empowering them to be the next generation of smart grid leaders.

UTRGV is a federally designated Hispanic Serving Institution. 93 percent (21,848) of its undergraduate students are Hispanic. 64 percent of undergraduate students receive Pell Grants, which are awarded students with demonstrated financial need. The Department of Electrical and Computer Engineering serves over 370 electrical engineering undergraduate students and 420 computer engineering undergraduate students. The Department has 19 full-time faculty, 12 teaching and research labs, and accreditation by the Engineering Accreditation Commission of ABET.

UTRGV commits to serving as a subrecipient and using the grant award to recruit and support a cohort of 10 low-income, academically talented electrical engineering or computer engineering students as part of a Smart Grid Leaders initiative. The students will receive scholarships throughout their four years, along with field work opportunities at SmartValve installation sites, mentorships from industry leaders, internships, and access to a seminar series. UTRGV faculty will work with Algonquin and Smart Wires to integrate developments on recent advances in Smart Grid technologies and industry challenges in coursework and training.

Sincerely,



Ala Qubbaj, PhD
Dean, College of Engineering and Computer Science



RWE Clean Energy, LLC
353 N. Clark Street, 30th Floor
Chicago, IL 60654

15 March 2023

To: Department of Energy (DOE), Grid Deployment Office (GDO)

Re: Letter of Commitment for Grid Resilience and Innovation Partnerships (GRIP) DE-FOA-0002740

To whom it may concern,

RWE Clean Energy, LLC is pleased support Algonquin Power Fund (America) and SmartWires' "Enabling the Clean Energy Transition by Enhancing Grid Stability Using SmartValve Technology" proposal to the Department of Energy's Grid Deployment Office.

RWE Clean Energy, LLC, a subsidiary of RWE Group, is a top tier renewable energy company in the United States. With more than 15 years in the U.S. renewables business, the company has an outstanding track record in developing, constructing and operating renewable energy facilities with a currently installed capacity of 8 gigawatts (GW) of onshore wind, solar, and battery storage. In the U.S., RWE employs around 1,500 people and plays a key role in RWE Group's strategy to become carbon neutral by 2040.

RWE Clean Energy, LLC's subsidiaries are an owner and operator of more than 2 GW of renewable generating assets in the Lower Rio Grande Valley (LRGV) region of South Texas. If awarded, this project may reduce the risk of Generic Transmission Constraint (GTC) stability issues for renewable generation facilities located in the LRGV region. RWE Clean Energy, LLC is supportive of moving forward with more detailed technical evaluation to understand the true benefit to the LRGV region, and is eager to work with Algonquin, SmartWires, AEP, and community-based organizations and labor on this exciting project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Noyes", is written over a light blue circular stamp.

Mark Noyes
CEO & President
RWE Clean Energy, LLC

March 10, 2023

Brenda Marshall
Senior Vice President, Renewable Generation
Algonquin Power Fund (America), Inc.

Subject: Letter of Commitment for the Smart Wires Inc. Proposal in Response to DE-FOA-0002740 “Bipartisan Infrastructure Law Section 40107. Grid Resilience and Innovation Partnerships (GRIP)” Topic Area 2 – Deployment of Technologies to Enhance Grid Flexibility (Smart Grid Grants)


Dear Ms. Marshall:

Smart Wires Inc. is pleased to offer this letter of commitment for the Algonquin Power proposal titled “Enabling the Clean Energy Transition by Enhancing Grid Stability Using SmartValve Technology”. Smart Wires Inc. supports the goals of this proposal to deploy Advanced Power Flow Control (APFC) to optimize transmission grid reliability and transfer capacity.

As a contractor for this proposed program, Smart Wires Inc. will manufacture and support the installation of the APFC devices, as described in this application. The anticipated scope of Smart Wires Inc.’s work would be performed in approximately 24 months.

The mission of the proposed project is consistent with Smart Wires Inc.’s interest in digitizing and optimizing the transmission grid to accelerate the energy transition. Any other potential support provided by Smart Wires Inc. is conditional upon the successful negotiation of mutually acceptable contractual arrangements that may be required. Smart Wires Inc. looks forward to participating with the Algonquin Power team in this effort. If you have any questions, please feel free to contact me at +1-240-778-8351 or ted.blochrubin@smartwires.com.

Sincerely,



Ted Bloch-Rubin
Director of Business Development, Americas
1035 Swabia Court
Suite 130
Durham, NC 27703