

March 17, 2023

U.S. Department of Energy, Grid Deployment Office  
Office of Clean Energy Demonstrations  
1000 Independence Ave SW  
Washington, DC 20585

RE: Bipartisan Infrastructure Law (BIL) - Grid Resilience and Innovation Partnerships (GRIP) -  
DE-FOA-0002740  
Letter of Commitment - Portland General Electric

To Whom It May Concern,


This letter confirms the partnership of Oregon Tradeswomen Inc and Portland General Electric ("PGE" or the "Applicant") in support of PGE's "Accelerating and Deploying Grid Edge Computing" project ("the Project"). PGE's proposal is to deploy Utilidata's scalable, distributed artificial intelligence (AI) platform, the smart grid chip.

Oregon Tradeswomen helps transform lives by building community and economic independence through empowerment, training, career education, advocacy, and leadership development in the skilled trades. Our state-certified apprenticeship-readiness program supports female/non-binary underserved populations within the construction sector including formerly incarcerated, veterans, and women of color. Participants are offered skills training and education as well as exposure to registered apprenticeship programs at no cost. Our career counselors help graduates with applications to apprenticeship training programs and employers as well as providing individualized support throughout the entire career of a graduate.

The IJA grant support and partnership with PGE would provide for additional capacity building for our organization, allowing us to reach more underrepresented populations within the construction sector. The partnership would also provide career exposure opportunities for our program participants as they explore their future career paths.

We are excited about this opportunity and urge your support of this application. Please contact me if you have any questions regarding our continuing support of the Project.

Sincerely,

  
\_\_\_\_\_

By: \_\_\_\_\_  
Interim Executive Director  
[TITLE]

March 17, 2023

U.S. Department of Energy, Grid Deployment Office  
Office of Clean Energy Demonstrations  
1000 Independence Ave SW  
Washington, DC 20585

RE: Bipartisan Infrastructure Law (BIL) - Grid Resilience and Innovation  
Partnerships (GRIP) - DE-FOA-0002740  
Letter of Commitment/[Portland General Electric]

To Whom It May Concern,


This letter confirms the partnership of Saturday Academy (SA) and Portland General Electric ("PGE" or the "Applicant") in support of PGE's "Accelerating and Deploying Grid Edge Computing" project ("the Project"). PGE's proposal to deploy Utilidata's scalable, distributed artificial intelligence (AI) platform, the smart grid chip.

Saturday Academy is a leading educational non-profit providing transformative experiences for K-12 grade students throughout Oregon and SW Washington through hands-on, student-centered, STEAM-driven education (Science, Technology, Engineering, Arts, and Mathematics). **We accomplish this through dynamic Classes For All Ages, Summer Camps, School Residencies, and Career Prep Programs such as STEAM Career Tracks and our signature, Apprenticeships in Science and Engineering (ASE) Program. Through these efforts we currently serve over 2,000 students annually with a focus on supporting communities that have been historically and/or systemically excluded from STEAM industries.**

**The IIJA grant support would ensure we are able to develop and deepen an AI Program that mirrors our learning pathways established in our current programs. From individual class experiences to immersive school residencies, summer camps to intensive high school internships, our programs are designed to take an individual student on a learning journey intersecting critical life skills with workforce development across lifespan.**

Please contact me if you have any questions regarding SA's continuing support of the Project.

Sincerely,

A handwritten signature in black ink, appearing to read "Brianna McCoy", written over a horizontal line.

By: Executive Director  
[TITLE -- Officer preferred]

March 17, 2023

U.S. Department of Energy, Grid Deployment Office  
Office of Clean Energy Demonstrations  
1000 Independence Ave SW  
Washington, DC 20585

RE: Bipartisan Infrastructure Law (BIL) - Grid Resilience and Innovation  
Partnerships (GRIP) - DE-FOA-0002740  
Letter of Commitment/Portland General Electric

To Whom It May Concern,

This Letter of Commitment confirms the support and involvement of Utilidata, having offices in Providence, Rhode Island and Ann Arbor, Michigan, and NVIDIA Corporation ("NVIDIA"), in its sole discretion, having offices in Santa Clara, California, in the development of Portland General Electric's ("PGE") "Accelerating and Deploying Grid Edge Computing" project ("the Project"). The project proposes to deploy Utilidata's scalable, distributed artificial intelligence (AI) platform, the smart grid chip, which is being co-developed with NVIDIA. The deployment of this technology will accelerate grid-edge computing capabilities and enhance distributed energy resource (DER) integration.

PGE has brought together an extremely well-qualified, diverse, and enthusiastic team for the Project which will help transform electric utility infrastructure and support the delivery of community benefits to historically underserved communities by enhancing and enabling programs that utilize grid edge data.

Utilidata is pleased to support PGE in its application under DOE's BIL Grid Resilience and Innovation Partnerships FOA for Topic Area 2. We understand that DOE seeks to deploy and catalyze technology solutions that increase the flexibility, efficiency, and resilience of the electric power system. The Project will advance and facilitate the integration of variable renewable energy resources at the distribution level and the aggregation and integration (edge-computing) of electric vehicles (EVs) and other grid-edge electrified loads.

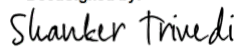
Please contact me if you have any questions on the contents of this letter or with respect to Utilidata's continuing support of the Project.  
Sincerely,

Jess Melanson



President & Chief Operating Officer  
Utilidata

Shanker Trivedi

DocuSigned by:  
  
624783D7A4B3482

Senior Vice President - Enterprise Business  
NVIDIA Corporation



March 10, 2023

U.S. Department of Energy, Grid Deployment Office  
Office of Clean Energy Demonstrations  
1000 Independence Ave SW  
Washington, DC 20585

RE: Bipartisan Infrastructure Law (BIL) - Grid Resilience and Innovation Partnerships  
(GRIP) - DE-FOA-0002740  
Letter of Commitment/Portland General Electric

To Whom It May Concern,

This Letter of Commitment confirms the support and involvement of VertueLab in the development of Portland General Electric's ("PGE" or the "Applicant") "Accelerating and Deploying Grid Edge Computing" project ("the Project"). If awarded, PGE plans to install approximately 100,000 smart grid chips throughout its service area beginning in 2024 to more than 10% of customers. The "smart grid chip" is a new utility-specific electric grid computer chip developed by Utilidata and NVIDIA that uses software to collect and analyze data. The chip will help PGE operate the grid more efficiently by providing real-time information and data.

PGE has brought together an extremely well-qualified, diverse, and enthusiastic team for the Project, in partnership with Utilidata, Nvidia, Oregon State University, and Saturday Academy.

VertueLab is pleased to support PGE in its application under DOE's BIL Grid Resilience and Innovation Partnerships FOA for Topic Area 2. We understand that DOE seeks to deploy and catalyze technology solutions that increase the flexibility, efficiency, and resilience of the electric power system.

Please contact me if you have any questions on the contents of this letter or with respect to VertueLab's continuing support of the Project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Johanna Brickman', is written over a light blue diagonal background element.

By: Johanna Brickman  
Deputy Director, VertueLab



**Electrical Engineering &  
Computer Science**

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March 17, 2023

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1000 Independence Ave SW  
Washington, DC 20585

RE: Bipartisan Infrastructure Law (BIL) - Grid Resilience and Innovation Partnerships (GRIP) - DE-FOA-0002740

Letter of Commitment from Oregon State University

To Whom It May Concern,

This letter confirms the partnership of Oregon State University (OSU) and Portland General Electric ("PGE" or the "Applicant") in support of PGE's "Accelerating and Deploying Grid Edge Computing" project ("the Project"). PGE's proposal to deploy Utilidata's scalable, distributed artificial intelligence (AI) platform, the smart grid chip, aligns with OSU's AI work, bolstered by NVIDIA CEO's \$50 million donation to OSU's AI supercomputer and innovation complex in 2022.

OSU graduate research students will support PGE's work to develop computational power system models that will interface with high performance computing environments and with planning and operations simulations, accelerated by physics-based machine learning techniques. This work will be critical to realizing DOE's objective of facilitating the aggregation and integration of electric vehicles and other grid-edge electrified loads. OSU supports the project's goal of enhancing and enabling programs that utilize grid edge data to deliver benefits to historically underserved communities.

Additionally, NVIDIA, PGE, Utilidata, and OSU will partner to expand equitable access to workforce development opportunities for internships, research opportunities, and jobs at the intersection of energy and AI. These partners will build off of lessons learned from NVIDIA's many higher education engagements to support the development of energy industry and AI-specific courses at OSU. The partners will establish an advisory group to build a roadmap in support of program development and expanding access to these opportunities for OSU students and underserved students from local community colleges.

Please contact me if you have any questions regarding OSU's continuing support of the Project.

Sincerely,

Thomas Weller, Ph.D.  
Gaulke Professor and Head  
School of Electrical Engineering and Computer Science



March 17, 2023

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1000 Independence Ave SW  
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RE: Bipartisan Infrastructure Law (BIL) - Grid Resilience and Innovation Partnerships (GRIP) - DE-FOA-0002740 \_Letter of Commitment/Portland General Electric

To Whom It May Concern,

This Letter of Commitment confirms the commitment of Brooks Utility Products, having offices at Novi, Michigan, to deliver Smart Grid Chip Parts to Utilidata (b) (4) to enable Portland General Electric's ("PGE") "Accelerating and Deploying Grid Edge Computing" project ("the Project"),

Utilidata has contracted with Brooks to supply utility grade hardware, design support, and final assembly of Utilidata's artificial intelligence (AI) platform, the smart grid chip, into utility grade Brooks supplied hardware. With a 150-year history in the design, manufacture and assembly of hardened electrical utility-grade devices, Brooks' products are engineered to meet or exceed ANSI standards. Our manufacturing facility is ISO 9001certified and UL registered.

We understand that Portland General Electric will be pursuing DOE's BIL Grid Resilience and Innovation Partnerships FOA for Topic Area 2 and look forward to its successful implementation. It is our understanding that the Project will advance DOE's objectives by facilitating the integration of distribution level variable renewable energy resources and the edge-computing of electric vehicles (EVs) and other grid-edge electrified loads to accelerate the transition to a more flexible, efficient, and resilient electric grid. We understand from Utilidata, that its intelligent powerful solution at the electric grid's edge has the potential to transform the way utilities manage the complexities of the proliferation of distributed energy.

Please contact me if you have any questions on the contents of this letter or with respect to Brooks products and continuing support of the Project. March 17, 2023

Sincerely,

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By: ?tvr-/3 Lf(d

43045 West Nine Mile Road  
Novi, MI 48375  
248.477.0250 | Fax: 248.477.2583  
brooksutility.com