

SELECTED APPLICATIONS FOR DE-FOA-0003580

“Speed to Power through Accelerated Reconductoring and Other Key Advanced Transmission Technology Upgrades (SPARK)”

September 2026

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Topic Area 1: Small Utilities

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3580-1677

Prime Applicant:	Arizona Electric Power Cooperative, Inc.
Project Title:	Accelerated Advanced Reconductoring
Prime Location (City, State):	Benson, AZ
Federal Funds Requested:	\$ 29,147,210
Total Project Value:	\$ 38,863,969

Project Narrative

The proposed project includes replacing transmission lines and upgrading substation equipment to provide additional power transmission capacity. The added capacity enables additional power generation to be added to the grid, which can mitigate supply cost increases and benefits customers in Arizona with improved reliability and maintenance flexibility.

3580-1633

Prime Applicant:	Farmers' Electric Cooperative, Inc. of New Mexico
Project Title:	Eastern New Mexico Capacity Expansion for Energy Project - Farmers' Electric Cooperative of New Mexico
Prime Location (City, State):	Clovis, NM
Federal Funds Requested:	\$ 19,474,202
Total Project Value:	\$ 25,965,596

Project Narrative

The proposed project will replace transmission lines to provide additional power transmission capacity that will address electricity demand growth at a reduced cost for customer households and businesses. The project will also replace aging wooden transmission line structures with modern steel structures and deploy advanced communication and control technologies, which will reduce outages and mitigate wildfire risks.

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3580-1544

Prime Applicant:	Four County Electric Membership Corporation
Project Title:	Line Infrastructure for Tomorrow (LIFT)
Prime Location (City, State):	Burgaw, NC
Federal Funds Requested:	\$ 23,230,549
Total Project Value:	\$ 30,974,065

Project Narrative

The proposed project will upgrade transmission lines and electrical substation equipment to increase the capacity of the transmission system, which will address electricity demand growth. The project will also replace aging wooden transmission line structures with more resilient steel structures to improve overall transmission system reliability.

3580-1743

Prime Applicant:	Kit Carson Electric Cooperative, Inc.
Project Title:	Kit Carson Electric Cooperative: Accelerated Reconductoring and Dynamic Line Rating for Grid Resilience and Transfer Capability Expansion — Questa–Taos 69kV Corridor, Northern New Mexico
Prime Location (City, State):	Taos, NM
Federal Funds Requested:	\$ 38,134,678
Total Project Value:	\$ 50,848,435

Project Narrative

The proposed project will increase transmission system capacity by upgrading transmission lines and implementing a cutting-edge transmission line rating system using advanced sensors and data analytics. The project is expected to both increase transmission system capacity and improve reliability and efficiency for New Mexico customers.

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Topic Area 1: Large Utilities

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3580-1607

Prime Applicant:	Basin Electric Power Cooperative
Project Title:	Unified Vision for Energy Resilience
Prime Location (City, State):	Bismarck, ND
Federal Funds Requested:	\$ 87,339,723
Total Project Value:	\$ 174,679,448

Project Narrative

The proposed project is a group of five transmission system upgrade subprojects that will improve the capacity of critical rural transmission corridors in Arkansas, Florida, Missouri, Mississippi, North Dakota, and Wisconsin. These upgrades will deliver cost savings through reduced transmission system congestion, increase the ability to transfer power from low-cost generation, and offset transmission system upgrades.

3580-1887

Prime Applicant:	PPL Electric Utilities Corporation
Project Title:	Montour Advanced Reconductoring Project
Prime Location (City, State):	Allentown, PA
Federal Funds Requested:	\$ 71,464,967
Total Project Value:	\$ 142,929,934

Project Narrative

The proposed project will implement a deployment-ready rebuild of an existing transmission corridor to address aging infrastructure risks while delivering measurable improvements in system performance. The project will modernize the existing Montour-Glen Brook-Susquehanna corridor, significantly reducing siting complexity, community impacts, and schedule risk compared to new transmission line development.

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3580-1653

Prime Applicant:	Puget Sound Energy, Inc.
Project Title:	Project Pulse: Puget Upgrades for Line Capacity, System Flexibility, and Energy Resilience
Prime Location (City, State):	Bellevue, WA
Federal Funds Requested:	\$ 40,204,314
Total Project Value:	\$ 80,408,630

Project Narrative

The proposed project would upgrade existing transmission infrastructure to deliver transmission system capacity gains in a fraction of the time and cost it would take to pursue brand new infrastructure. The transmission system upgrades support long-term energy security, regional economic vitality, and cost-savings for consumers by upgrading existing infrastructure instead of building costly new infrastructure.

3580-1684

Prime Applicant:	Rocky Mountain Power
Project Title:	UNLOCK – Upgrading Network Lines for Optimized Capacity and Knowledge
Prime Location (City, State):	Salt Lake City, UT
Federal Funds Requested:	\$ 87,532,789
Total Project Value:	\$ 175,065,578

Project Narrative

The proposed project will upgrade existing transmission system lines and deploy cutting-edge wire rating technology to increase capacity and alleviate system constraints in Utah, Idaho, and Wyoming. By increasing the area's capacity and enabling additional power transfer capability, the project relieves chronic congestion and power rerouting costs.

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3580-1680

Prime Applicant:	Tennessee Valley Authority
Project Title:	Rebuilding the Transmission Backbone for Energy and AI Dominance
Prime Location (City, State):	Knoxville, TN
Federal Funds Requested:	\$ 79,844,529
Total Project Value:	\$ 159,689,058

Project Narrative

The proposed project expands transmission capacity and improves grid resiliency by upgrading existing transmission lines and deploying cutting-edge line rating technologies to replace capacity-limiting legacy rating approaches. By relying on existing transmission corridors, structures, and substations, the project delivers faster, cost-effective transmission upgrades that support growth across the region.

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Topic Area 2

The project details summarized in this document are derived from application materials and are subject to change pending finalization of formal financial assistance agreements.

3580-1797

Prime Applicant:	1803 Electric Cooperative, Inc.
Project Title:	1803 Integrated Smart Grid Program: Advanced Transmission Technology Deployment for Transmission Capacity Expansion and Load Growth Support in Louisiana
Prime Location (City, State):	Baton Rouge, LA
Federal Funds Requested:	\$ 21,127,000
Total Project Value:	\$ 42,254,000

Project Narrative

The proposed project includes a smart grid modernization program to deploy Advanced Transmission Technologies (ATT) across transmission lines and infrastructure. Technologies include advanced modeling, system optimization, wire replacement, and advanced monitoring and control. This project will benefit consumers across southwest, southeast, central, and north-central Louisiana by increasing transmission capacity and system reliability.

3580-1705

Prime Applicant:	Alabama Power Company
Project Title:	Northeast Alabama Smart Grid Deployment
Prime Location (City, State):	Birmingham, AL
Federal Funds Requested:	\$ 50,000,000
Total Project Value:	\$ 183,867,957

Project Narrative

The proposed project will unlock substantial transmission system capacity, giving Northeast Alabama the power needed for large-scale data centers, industrial manufacturers, and major commercial facilities to locate in the area and benefit the region. This project will upgrade transmission lines and deploy Advanced Transmission Technologies (ATT) to get power to where it needs to go.

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3580-1591

Prime Applicant:	American Electric Power Service Corporation
Project Title:	Next-Generation Optical Transport Network for Smart Grid Modernization
Prime Location (City, State):	Columbus, OH
Federal Funds Requested:	\$ 50,000,000
Total Project Value:	\$ 151,732,228

Project Narrative

The proposed project includes deployment of Advanced Transmission Technologies (ATT) to improve the delivery of power and enable next-generation grid capabilities. The project includes the installation of communication-enhancing technologies and a cutting-edge transmission capacity rating system to allow for better system monitoring and data analytics to predict potential power capabilities under extreme conditions.

3580-1685

Prime Applicant:	Centerpoint Energy Houston Electric, LLC
Project Title:	Project TALON (Transmission Area Load Optimization Node)
Prime Location (City, State):	Houston, TX
Federal Funds Requested:	\$ 50,000,000
Total Project Value:	\$ 176,694,221

Project Narrative

The proposed project would deploy an advanced transmission system stabilization device to allow the grid to quickly respond to power fluctuations and better deliver consistent, continuous power. The project would increase the transmission system capacity and allow it to operate more reliably under high-loading situations.

The project details summarized in this document are derived from application materials and are subject to change pending finalization of formal financial assistance agreements.

3580-1546

Prime Applicant:	Duke Energy Carolinas, LLC
Project Title:	Unlocking Networked Line Operations for Capacity & Knowledge in Carolinas (UNLOCK Carolinas)
Prime Location (City, State):	Charlotte, NC
Federal Funds Requested:	\$ 50,000,000
Total Project Value:	\$ 201,437,390

Project Narrative

The proposed project will deploy various Advanced Transmission Technologies (ATT) and upgrade transmission lines to unlock transmission system capacity in areas that were significantly impacted by Hurricane Helene and other targeted areas. The project will reduce utility operational costs and customer outage costs due to enhanced grid resilience and improved service availability.

3580-1790

Prime Applicant:	Duquesne Light Company
Project Title:	GRID-SURGE: Grid Reinforcement through Intelligent Dynamic control and Strategic Upgrades to enable Robust Growth and Expansion
Prime Location (City, State):	Pittsburgh, PA
Federal Funds Requested:	\$ 22,216,396
Total Project Value:	\$ 44,881,609

Project Narrative

Duquesne Light Company (DLC) proposes deploying advanced transmission system stabilization devices and upgrading transmission lines to enable interconnection of new customers that the existing system cannot accommodate using a non-traditional, lower-cost approach that would be difficult to fund without Federal support.

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3580-1612

Prime Applicant:	Electric Power Research Institute, Inc.
Project Title:	ATREES: Advanced Transmission Technologies for Reliable and Efficient Energy Supply
Prime Location (City, State):	Palo Alto, CA
Federal Funds Requested:	\$ 20,852,041
Total Project Value:	\$ 41,704,082

Project Narrative

This project proposes deployment of Advanced Transmission Technologies (ATTs) within the FirstEnergy (FE) and Salt River Project (SRP) transmission systems to maximize existing transmission system infrastructure, increase system ratings, and enhance reliability and energy deliverability.

3580-1808

Prime Applicant:	Entergy Mississippi, LLC
Project Title:	Entergy Mississippi, LLC (EML) - Unlocking Grid Capacity for the Southeast's Next Wave of Data Center & Industrial Growth
Prime Location (City, State):	Jackson, MS
Federal Funds Requested:	\$ 13,718,850
Total Project Value:	\$ 27,437,700

Project Narrative

The Entergy Project Team is proposing a three-state, transmission-level smart-grid Advanced Transmission Technology (ATT) deployment designed to unlock significant transmission system capacity across Arkansas, Louisiana, and Mississippi. To achieve these gains, this project combines the deployment of cutting-edge transmission line rating technology, substation upgrades, and advanced monitoring and controls.

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3580-1785

Prime Applicant:	Eversource Energy Service Corporation d/b/a Eversource Energy
Project Title:	Dynamic Rating Enhancement Advancements & Modernization
Prime Location (City, State):	Hartford, CT
Federal Funds Requested:	\$ 47,727,336
Total Project Value:	\$ 95,454,674

Project Narrative

The proposed project includes deployment of a cutting-edge transmission line rating system and advanced data analytics to increase the capacity of Eversource's transmission system in Connecticut, Massachusetts, and New Hampshire. This project could lead to customer savings through reduced outage frequency and duration, reducing congestion costs, and avoiding new transmission infrastructure construction costs.

3580-1558

Prime Applicant:	Guam Power Authority
Project Title:	Guam Real-Time Intelligence for Transmission (GRIT)
Prime Location (City, State):	Mangilao, GU
Federal Funds Requested:	\$ 10,619,597
Total Project Value:	\$ 21,239,194

Project Narrative

The proposed project will move existing overhead transmission lines underground, deploy measurement and automation technologies for real-time monitoring, and implement Artificial Intelligence (AI)-enabled operational tools. These upgrades will improve resilience for critical civilian and military infrastructure and increase transmission system capacity without constructing new transmission corridors.

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3580-1630

Prime Applicant:	Orlando Utilities Commission
Project Title:	Improving Transmission Operations at OUC through Demonstration of Advanced Transmission Technologies
Prime Location (City, State):	Orlando, FL
Federal Funds Requested:	\$ 12,965,844
Total Project Value:	\$ 25,937,404

Project Narrative

The proposed project will implement advanced transmission technologies, like high-temperature/low-sag conductors and dynamic line rating (DLR), to increase overhead transmission ampacity and demonstrate their improvement to operations and lower costs. Artificial Intelligence (AI) tools will be developed to enhance the sensor grid, reducing the number of sensors needed to operate DLR.

3580-1663

Prime Applicant:	New England Power Company
Project Title:	Dynamic Rating Enhancement Advancements & Modernization
Prime Location (City, State):	Waltham, MA
Federal Funds Requested:	\$ 49,685,297
Total Project Value:	\$ 99,735,607

Project Narrative

This project proposes deployment of a real-time power capacity adjustment tool integrated with cutting-edge, automated transmission system operations software across the entirety of New England Power Company's transmission network. This project will unlock transmission system capacity by leveraging advanced modeling software and targeted field sensors to better capture local conditions that drive transmission system operational limitations.

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3580-1700

Prime Applicant:	New York Power Authority
Project Title:	Marcy STATCOM PowerBoost
Prime Location (City, State):	White Plains, NY
Federal Funds Requested:	\$ 50,000,000
Total Project Value:	\$ 270,000,000

Project Narrative

The New York Power Authority has proposed a significant upgrade to improve the reliability of the transmission system by replacing old equipment at a key transmission site with Advanced Transmission Technology (ATT). The project deploys innovative and market-ready technologies to improve system reliability, flexibility, and resilience to increase transmission system capacity, reduce system congestion costs, and reduce system outage costs.

3580-1717

Prime Applicant:	NorthWestern Energy
Project Title:	Enhancing Inter-State Transfer Capability Between Montana and Wyoming through Advanced Power Flow Control and Dynamic Line Rating
Prime Location (City, State):	Butte, MT
Federal Funds Requested:	\$ 26,500,000
Total Project Value:	\$ 53,000,000

Project Narrative

The proposed project will deploy Advanced Transmission Technology (ATT) to eliminate transmission system bottlenecks and increase transmission corridor capacity. This technology deployment achieves these gains without the significant cost and time required for new powerline construction or major substation rebuilds.

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3580-1679

Prime Applicant:	Pacific Power
Project Title:	Coordinated Advanced Smart-grid Control and Dynamic Enablement (CASCADE)
Prime Location (City, State):	Portland, OR
Federal Funds Requested:	\$ 50,000,000
Total Project Value:	\$ 105,486,597

Project Narrative

The proposed project will deploy Advanced Transmission Technologies (ATTs) at substation locations across Washington and Oregon. The project will deliver additional transmission system capacity, enable new large power-load interconnections, reduce the risk of large outages, avoid costly conventional transmission system costs, and result in transmission system congestion cost savings.

3580-1765

Prime Applicant:	Pitch Aeronautics Inc.
Project Title:	Weather-Centric Dynamic Line Ratings and Targeted Reconductoring for Accelerated Transmission Capacity
Prime Location (City, State):	Boise, ID
Federal Funds Requested:	\$ 37,034,911
Total Project Value:	\$ 75,565,842

Project Narrative

The proposed project will deploy cutting-edge, weather-based transmission line rating software at the electric power utilities Ameren Missouri, Ameren Illinois, and Farmington Electric Utility System. The project also includes targeted transmission wire upgrades. These efforts will enable increased transmission line capacity, enable new large load and power generation interconnections, and can reduce transmission system congestion costs.

The project details summarized in this document are derived from application materials and are subject to change pending finalization of formal financial assistance agreements.

3580-1628

Prime Applicant:	Powder River Energy Corporation
Project Title:	PRISM - PRECorp Resilient Infrastructure and Smart-grid Modernization
Prime Location (City, State):	Sundance, WY
Federal Funds Requested:	\$ 14,652,310
Total Project Value:	\$ 29,752,310

Project Narrative

The proposed project is an integrated smart grid deployment that transforms electric infrastructure by upgrading transmission lines, adding new real-time measurement sensors, automating operations, and adding Artificial Intelligence (AI) models for operations planning and predictive maintenance. The project increases transmission system capacity, provides energy savings, and avoids costly new transmission system construction.

3580-1878

Prime Applicant:	Public Service Company of New Mexico
Project Title:	Operational Resilience & Balanced Intelligent Transmission (ORBIT): Closed-Loop Grid Optimization for Real-Time Control and Capacity Expansion
Prime Location (City, State):	Albuquerque, NM
Federal Funds Requested:	\$ 29,372,844
Total Project Value:	\$ 65,771,885

Project Narrative

The proposed project includes upgrading transmission lines, deployment of cutting-edge transmission line rating software, and targeted transmission support structure upgrades to unlock capacity increases and improve operational flexibility.

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Topic Area 3

The project details summarized in this document are derived from application materials and are subject to change pending finalization of formal financial assistance agreements.

3580-1860

Prime Applicant:	Colorado Energy Office
Project Title:	CO to TX Western-Eastern Intertie Modernization Initiative
Prime Location (City, State):	Denver, CO
Federal Funds Requested:	\$ 250,000,000
Total Project Value:	\$ 1,206,553,696

Project Narrative

The proposed project will modernize a critical interconnection point between the Western and Eastern interconnections through deployment of Advanced Transmission Technologies (ATTs) and targeted transmission line upgrades. The project will expand interregional transfer capability, improve system reliability, enhance operational flexibility, and strengthen grid resilience across Colorado, Texas, and neighboring regions.

3580-1847

Prime Applicant:	Oklahoma Office of Management and Enterprise Services
Project Title:	Three Corners Connector
Prime Location (City, State):	Oklahoma City, OK
Federal Funds Requested:	\$ 250,000,000
Total Project Value:	\$ 832,174,719

Project Narrative

The proposed project will create a high-capacity transmission system link between the Southwest Power Pool (SPP) in Oklahoma and the Western Electricity Coordinating Council (WECC) in Colorado. This project directly addresses the need for increased transfer capability between the Eastern and Western Interconnections.

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3580-1695

Prime Applicant:	Public Utilities Commission of Ohio
Project Title:	Ohio SPARK - System Performance, Affordability, and Reliability through Key Advanced Transmission Technologies
Prime Location (City, State):	Columbus, OH
Federal Funds Requested:	\$ 135,982,043
Total Project Value:	\$ 272,959,926

Project Narrative

The Ohio SPARK program proposes a suite of rapidly deployable, large-scale, grid-modernization subprojects that will expand transmission system capacity through the deployment of Advanced Transmission Technologies (ATTs) and upgraded transmission lines. These projects will deliver fast, cost-effective capacity increases that improve reliability, reduce congestion, accelerate interconnection of new load and generation, and enhance operational flexibility.

3580-1669

Prime Applicant:	State of Indiana - Office of Energy Development
Project Title:	Expanding Cross-Regional Transfer Capability Across the PJM–MISO Seam Through Accelerated Reconductoring and Advanced Transmission Technologies
Prime Location (City, State):	Indianapolis, IN
Federal Funds Requested:	\$ 174,413,876
Total Project Value:	\$ 348,827,754

Project Narrative

The proposed project will upgrade transmission lines and deploy advanced technologies to provide additional transmission system capacity. The project advances energy affordability and reliability, facilitates economic development by reducing costs typically passed onto ratepayers, enables interconnection of new dispatchable generation, and enables interconnection of new large-load customers.

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