Anterix

The Bipartisan Infrastructure Law

PRIVATE WIRELESS BROADBAND NETWORKS

Energy companies have a unique opportunity to innovate and partner with their communities to improve America's infrastructure.



ENERGY & BROADBAND INVESTMENT

will be invested* into America's energy and broadband infrastructure over the next 5 years through the BIL.

*selected programs

WHAT IS THE BIL?

The BIL is an investment in our nation's infrastructure and communities. This bill allocates **\$1.2T** to be invested over **5 years** into many key areas including those specific to energy companies such as:

- Upgrading the power infrastructure
- Deploying new private communications capabilities
- Building networks of electric vehicle (EV) charging
- Creating resiliency within the power system
- Enhancing cyber security of the grid
- Enabling broadband infrastructure

WHY PRIVATE WIRELESS BROADBAND?

Private Wireless Broadband is a strategic asset for many use cases including:



- Distribution automation
- Renewables
- EV infrastructure
- Metering
- Transmission system
- Wildfire mitigation

Providing a secure, dedicated, territory-wide, and interoperable private wireless broadband platform is foundational for the transformation of the electric grid to address new utility realities and support next generation technologies.

Many of the programs outlined in the BIL will require this type of connectivity in a uniquely private and secure manner.

A private wireless broadband network strategy fits across a wide range of use cases to support the grid.

HOW SHOULD I POSITION A PRIVATE LTE NETWORK?

Private LTE is a transformational technology that can be used for the communication and orchestration of a resilient and secure electric grid.



TECHNOLOGY

- based on worldwide wireless standards with ecosystem of interoperable vendors
- provides utilities with ultimate control of their private network, which results in a more reliable, resilient and secure grid
- designed as a dedicated network for the electric utility independent of the Internet
- supports all grid applications on a single network vs many individual networks
- enables regional coordination and sharing of services between utilities

POLICY

- supports modernization of the electric grid
- generates community benefit
- advances decarbonization
- positions energy workforce for growth and inclusion
- enhances the cyber-physical security of nation's infrastructure
- helps to build stakeholder consensus and can be measured
- promotes collaboration amongst partners and utilities for regional and/or nationwide platforms

FUNDING OPPORTUNITIES

The BIL has numerous sections that can be utilized to support the investigation and introduction of private wireless broadband networks. Selected sections include:

SECTION	FUNDING	BILL SECTION RELEVANT TO PRIVATE NETWORKS
40101	\$5B	 <i>"PREVENTING OUTAGES AND ENHANCING THE RESILIENCE OF THE ELECTRIC GRID"</i> "activities, technologies, equipment, and hardening measures to reduce the likelihood and consequences of disruptive events"
40103	\$6B	**ELECTRIC GRID RELIABILITY AND RESILIENCE RESEARCH, DEVELOPMENT & DEMONSTRATION • Energy Infrastructure Federal Assistance Program
		§1B • Energy Improvement in Rural or Remote Areas
40107	\$3B	 "DEPLOYMENT OF TECHNOLOGIES TO ENHANCE GRID FLEXIBILITY" expansion of the Smart Grid Investment Matching Grant Program established in 2007



"ENHANCED GRID SECURITY"

• "advance the security of field devices and third party control systems"

"ENABLING MIDDLE MILE BROADBAND INFRASTRUCTURE"

 "to encourage the expansion and extension of middle mile infrastructure to reduce the cost of connecting unserved and underserved areas to the backbone of the internet"

Private wireless broadband may be applicable to additional programs of the bill.

TIMING

- Funding provided over a 5 year period 2022 2026
- Initial solicitations Q2-Q4 2022
- Some multiyear funding

WHO CAN APPLY?

The matching grant funding will be awarded either directly to eligible entities or flow through eligible applicants (ie States and Indian Tribes) to be sub-awarded. Recipients for both types of awards include:

- electric grid operators/generators
- storage operators
- distribution providers
- others determined by the appropriate government agency

STEPS FOR PURSUING FUNDING

The BIL has passed into law and is now in the early stages of various agencies identifying the application and distribution processes. Each agency will be issuing official notices around each specific funding opportunity.



HOW CAN WE HELP?

Anterix works closely with utilities across the country to strengthen the nation's grid by enabling secure private wireless broadband networks. Anterix is positioned to support utilities and utility stakeholders as they plan and implement the necessary broadband communications component of their grid modernization efforts. Anterix offers overarching services in various phases by providing the following:



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Learn more about the transformative power of private wireless broadband to enable the modernization of critical infrastructure.

For more information contact BIL@Anterix.com

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