

# 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.

\$145B



### ENERGY & BROADBAND INVESTMENT

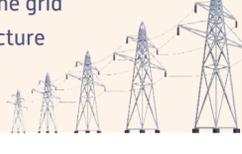
will be invested\* into America's energy and broadband infrastructure over the next 5 years through the BIL.

\*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

**"PREVENTING OUTAGES AND ENHANCING THE RESILIENCE OF THE ELECTRIC GRID"**  
 • "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"**  
 • \$5B • 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

40125

\$250M

**"ENHANCED GRID SECURITY"**  
 • "advance the security of field devices and third party control systems"

60401

\$1B

**"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:

- PRIVATE NETWORK STRATEGY • End to end private network planning to support multiple use cases for a secure, resilient and clean grid
- WIRELESS SPECTRUM • Flexible commercial models for providing dedicated licensed spectrum to utilities
- ACTIVE ECOSYSTEM • Over 80 technology leaders enabling a vibrant interoperable ecosystem for private networks, creating scale, lowering risk and driving innovation
- POLICY ADVISEMENT • Resources to support engagement at the federal, state and local agency levels and to support internal stakeholders within the utility organization

