



United States Department of Agriculture  
Broadband Initiatives Program | Awards Report

January 2011

# Advancing Broadband

A Foundation for Strong Rural Communities



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## Message from the Administrator

The U.S. Department of Agriculture's (USDA) Rural Utilities Service (RUS) is the Federal leader in delivering key utilities systems—telecommunications, electricity, water and wastewater, and now 21st century high-speed broadband services—to remote underserved and unserved communities in rural America. Now, in expanding 21st century high-speed broadband services to farms, schools, public safety facilities, and other institutions in rural communities, the impact of RUS initiatives will be experienced more broadly across the country.

Beginning in 1935, RUS's predecessor, the Rural Electrification Administration, helped bring electricity to rural America and was the driving force behind telephone service being introduced in the same remote areas, starting in 1949.

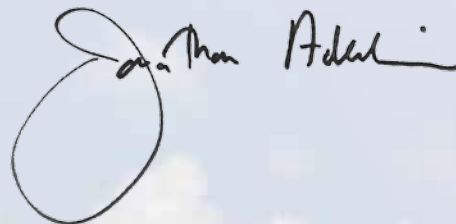
Since 1994, RUS required federally funded telecommunications projects to be broadband capable. In 2002, Congress created a broadband loan program to pave the way for an Internet infrastructure of the future. With the American Recovery and Reinvestment Act of 2009, RUS assumed a leading role in stimulating the economy, creating jobs, and bringing opportunity to rural Americans by investing more than \$3.5 billion to expand broadband networks that will close the digital divide between rural and urban communities. The Recovery Act also invested \$3.27 billion in rural water and waste disposal systems to further bolster rural infrastructure.

RUS is applying its extensive technical skills, program experience, and financial expertise gained over 75 years to the new challenge of deploying the most advanced broadband capability in rural communities. USDA Secretary

Tom Vilsack has recognized broadband as a pillar of his strategy to revitalize rural America. Since passage of the Recovery Act, in collaboration with the U.S. Department of Commerce and other Federal agencies, RUS has ensured valuable resources are distributed effectively and efficiently, as Congress intended.

In September 2010, RUS completed the awards phase of the Broadband Initiatives Program (BIP). This report summarizes the BIP awards made to advance congressional directives and confirms the Obama Administration's commitment to improving rural connectivity and enhancing the quality of life for rural families and businesses. These investments in broadband will connect nearly 7 million rural Americans, along with more than 360,000 businesses and more than 30,000 critical community institutions like schools, healthcare facilities, and public safety agencies, to new or improved service.

These investments not only will benefit rural areas, but also will contribute to our economic growth as a Nation. Through this program, RUS is generating urgently needed jobs to construct these new networks. Once built, they will provide the platform for economic development and job creation for years to come.



Jonathan Adelstein  
Administrator  
Rural Utilities Service

# Investing in Rural America

Rural areas with dispersed populations or demanding terrain generally have difficulty attracting broadband service providers because the fixed cost of delivering broadband service can be too high. Yet broadband is a key to economic growth. For rural businesses, broadband gives access to national and international markets and enables new, small, and home-based businesses to thrive. Broadband access provides rural residents with the connectivity they need to obtain healthcare, education, and many essential goods and services.

The Recovery Act authorized RUS to issue loans and grants to projects that extend broadband service to unserved and underserved rural areas. The funding provided by the Recovery Act is increasing

the availability of broadband and stimulating both short- and long-term economic progress.

RUS completed two BIP funding rounds, making a significant investment in projects that will enhance broadband infrastructure in scores of rural communities.

This represents a critical investment, designed to rebuild and revitalize rural communities. Without this funding, many communities could not cover the costs of providing broadband service to homes, schools, libraries, healthcare providers, colleges, and other anchor institutions.

Project Type	Number of Projects	Grants	Loans	Total Awards
Infrastructure	297	\$2,233,862,109	\$1,191,844,578	\$3,425,706,687
Satellite	4	\$100,000,000	\$0	\$100,000,000
Technical Assistance	19	\$3,384,202	\$0	\$3,384,202
<b>Total Awards</b>	<b>320</b>	<b>\$2,337,246,311</b>	<b>\$1,191,844,578</b>	<b>\$3,529,090,889</b>

# Infrastructure Awards

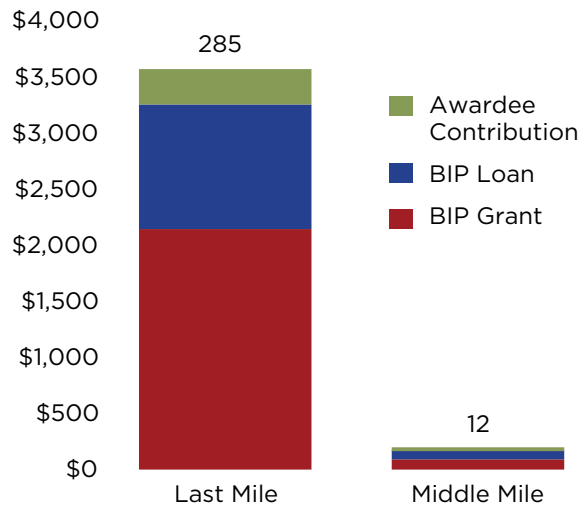
RUS awarded \$3.4 billion to 297 recipients in 45 States and 1 U.S. territory for infrastructure projects. Eighty-nine percent of the awards and 92 percent of the total dollars awarded are for 285 last-mile projects (\$3.25 billion), which will provide broadband service to households and other end users. Four percent of the awards and 5 percent of the total dollars awarded are for 12 middle-mile projects (\$173 million) that will provide necessary backbone services such as interoffice transport, backhaul, Internet connectivity, or special access to rural areas.

The projects funded will bring broadband service to 2.8 million households, reaching nearly 7 million people, 364,000 businesses, and 32,000 anchor institutions across more than 300,000 square miles. These projects also overlap with 31 tribal lands and 124 persistent poverty counties.

The projects will create more than 25,000 immediate and direct jobs. Although the long-term impact these projects will have on fostering job creation in these communities is difficult to estimate, the projects are expected to contribute to the long-term economic development opportunities in each rural community where a broadband project is launched. Data provided

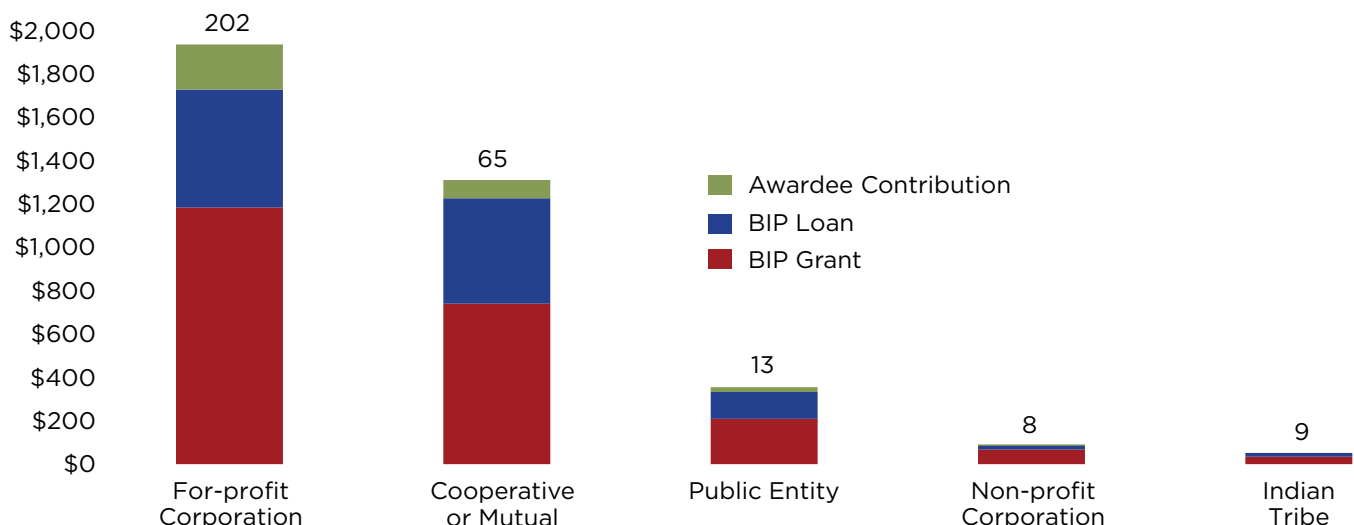
by the U.S. Department of Education show that more than 1 million K-12 students attend school within areas served by BIP awards. More than 100 colleges and technical schools are located in areas served by BIP awards. Data provided by the U.S. Department of Health and Human Services show that nearly 600 rural healthcare facilities are located in areas served by BIP awards. Sixty-five (11 percent) of these facilities will receive broadband for the first time as a result of BIP.

## BIP Awards and Awardee Contribution in millions



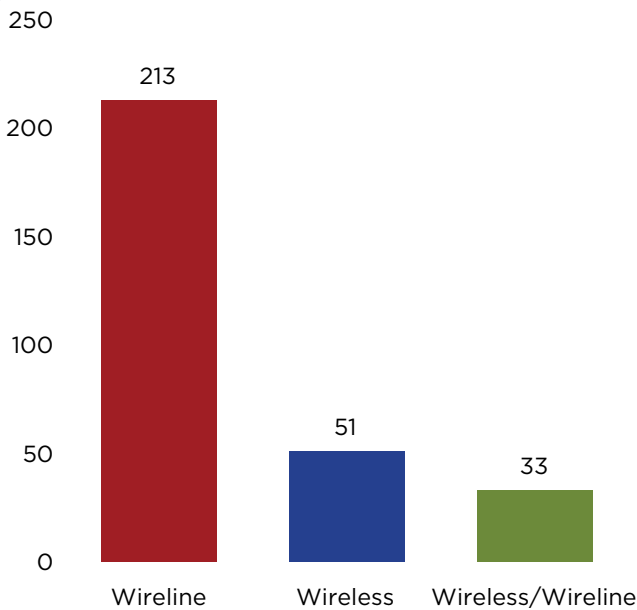
Numerical value represents number of awards.

## BIP Awards and Awardee Contribution by Entity Type in millions



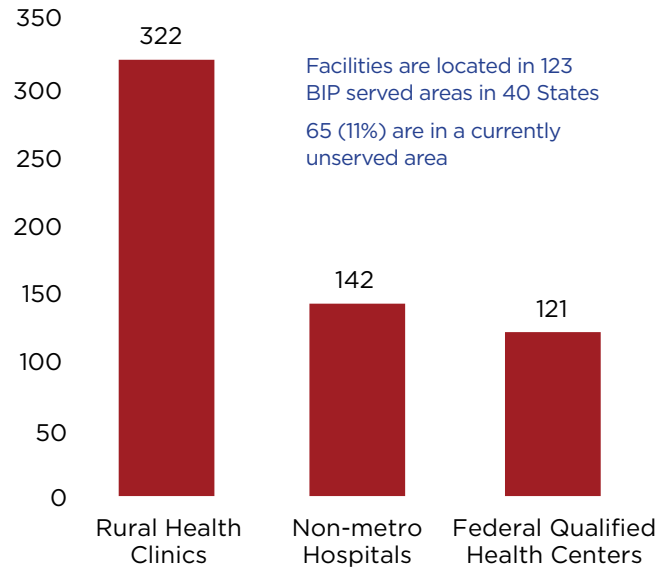
Numerical value represents number of awards.

## BIP Technology Type number of projects



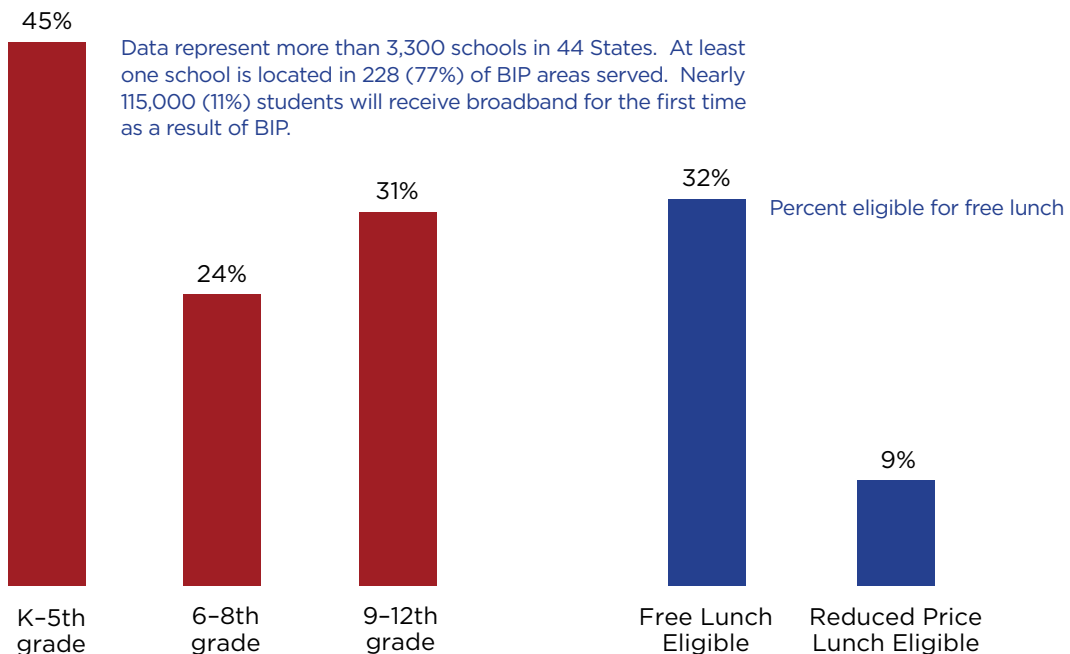
Numerical value represents number of awards.

## BIP Awards Serve Nearly 600 Rural Healthcare Facilities number of facilities



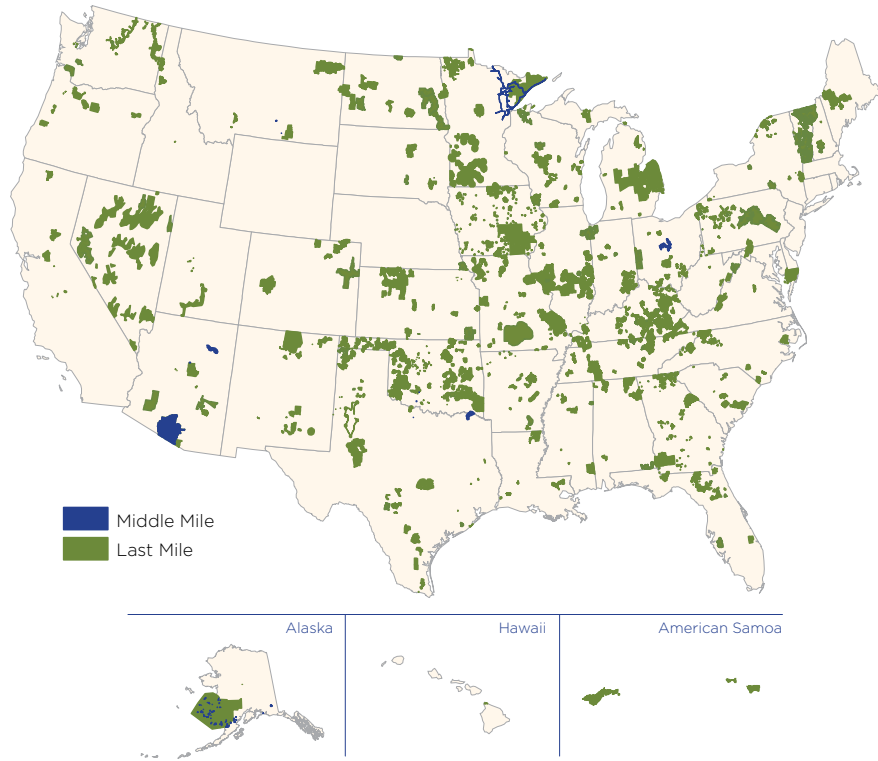
Numerical value represents number of awards.  
Source: U.S. Department of Health and Human Services

## More Than 1 Million K-12 Students Attend School Within Areas Served by BIP Awards percent of school children

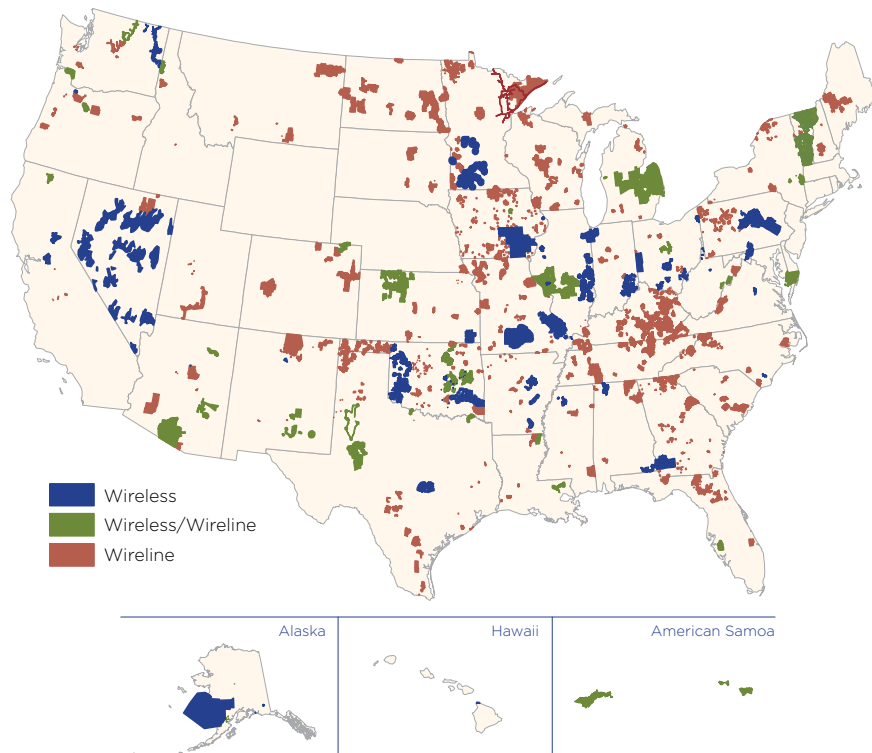


Source: U.S. Department of Education

## BIP Awards by Project Type



## BIP Awards by Technology Type



# Satellite Awards

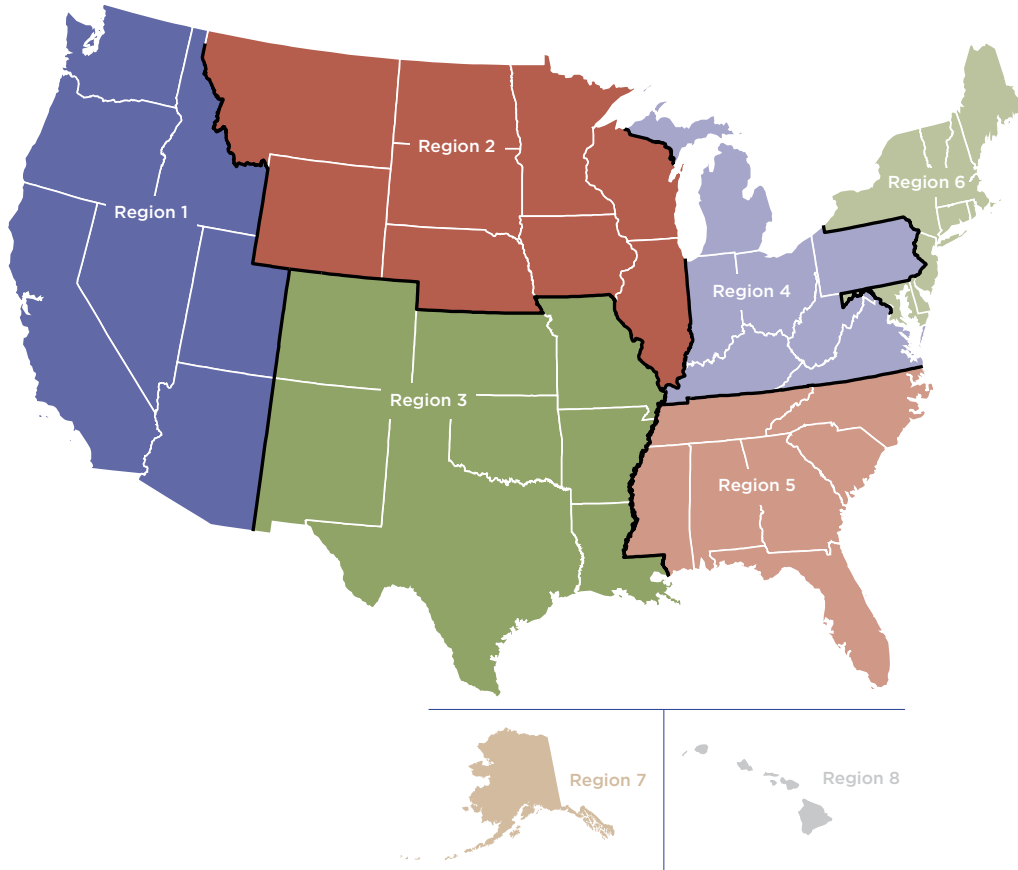
RUS funded additional BIP awards through the Satellite Grant Program.

The Satellite Grant Program made \$100 million available through four broadband satellite providers to connect rural premises left unserved by other technologies. These broadband satellite providers are expected to reach nearly 424,000 premises and 10,000 commercial subscribers across the country. Through this funding, these subscribers will receive broadband satellite premises equipment, installation, and activation at no cost to them, as well as discounted service for at least 1 year.

## Satellite Awardees

Awardee Name	Regions
EchoStar XI	Regions 4-6
Hughes Network Systems	Regions 1-8
Spacenet, Inc.	Regions 7-8
WildBlue Communications	Regions 1-3

## BIP Satellite Regions





## Technical Assistance Awards

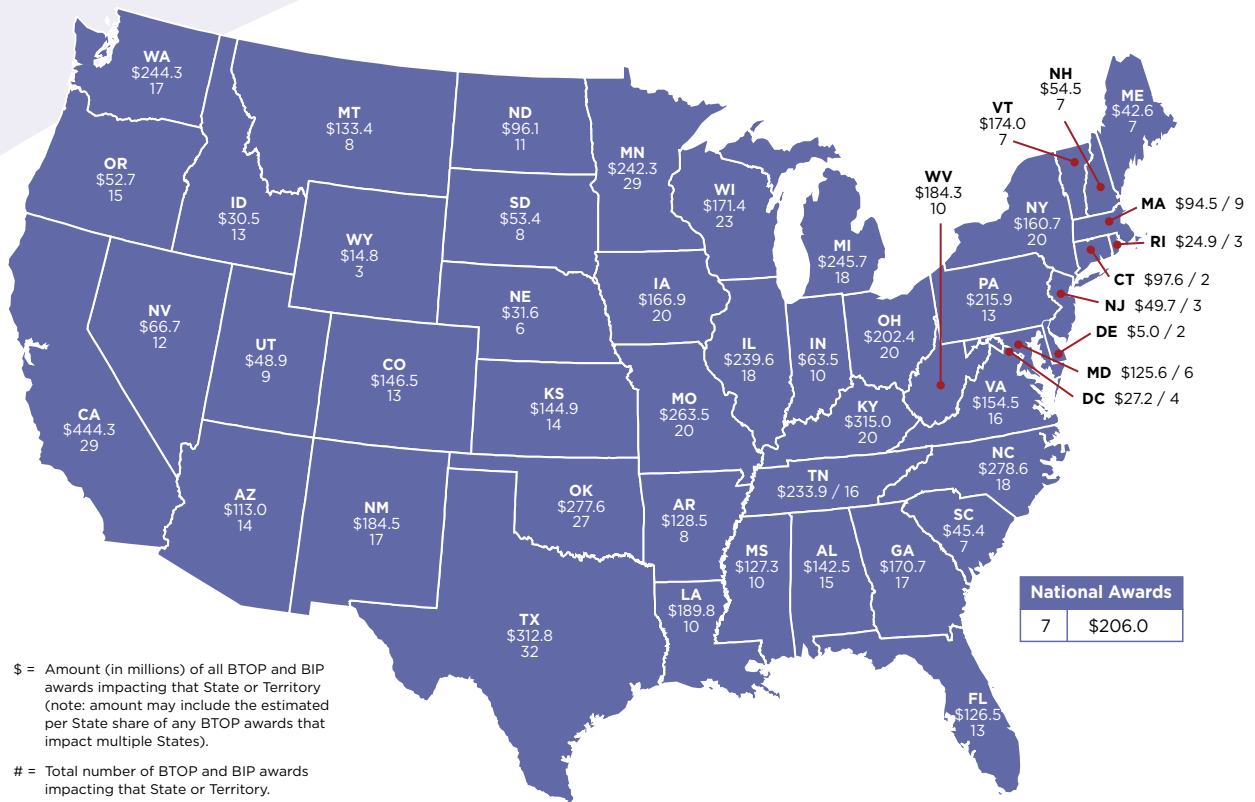
RUS funded additional BIP awards through the Technical Assistance Grant Program.

The Technical Assistance Grant Program provides \$3.4 million to 19 technical assistance projects to create regional broadband development plans in 13 States. Some of the projects will cross Native American tribal areas. The Technical Assistance

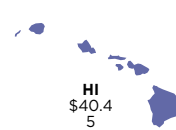
Grant Program will provide funding of up to \$200,000 to infrastructure award recipients and Indian tribes. These technical assistance grants will support planning efforts that will lay the groundwork for the future development of broadband infrastructure and increased broadband access in rural areas.

### Technical Assistance Awardees

Awardee Name	State
Central Council of the Tlingit & Haida Indian Tribes of Alaska	Alaska
Ute Mountain Ute Tribe	Colorado
Shoshone-Bannock Tribes	Idaho
Mille Lacs Band of Ojibwe	Minnesota
Northeast Service Cooperative	Minnesota
Arizona Nevada Tower Corporation	Nevada
Confederated Tribes of the Goshute Reservation	Nevada, Utah
Consolidated Electric Cooperative	Ohio
Benton Ridge Telephone Company	Ohio
Pioneer Long Distance, Inc.	Oklahoma
Cherokee Nation	Oklahoma
Kaw Nation-Kaw Enterprise Development Authority	Oklahoma
Warm Springs Telecommunications Company	Oregon
County of Orangeburg	South Carolina
Lower Brule Sioux Tribe	South Dakota
Sisseton Wahpeton Oyate	South Dakota
Scott County Telephone Cooperative	Virginia
Quinault Indian Nation	Washington
Jamestown S’Klallam Tribe	Washington



AS	GU	MP	PR	VI
\$92.9	\$7.5	\$3.4	\$41.1	\$67.5
2	2	2	3	4



The combined investments of USDA's BIP and the U.S. Department of Commerce's National Telecommunications and Information Administration Broadband Technology Opportunities Program (BTOP). The funds awarded in each State are the result of the two agency programs authorized by the Recovery Act of 2009.

For additional information on the BTOP awards, visit <http://www2.ntia.doc.gov>.

# Industry Standard Terms

<b>ADSL/ADSL2+</b>	Asymmetric Digital Subscriber Line	<b>ILEC</b>	Incumbent Local Exchange Carrier
<b>ASN-GW</b>	Access Service Network Gateway	<b>IP</b>	Internet Protocol
<b>BLC</b>	Broadband Loop Carrier	<b>IPTV</b>	Internet Protocol Television
<b>BPL</b>	Broadband Over Powerlines	<b>ITU</b>	International Telecommunication Union
<b>CLEC</b>	Competitive Local Exchange Carrier	<b>Kbps</b>	Kilobits Per Second
<b>CSN</b>	Connectivity Service Network	<b>LEC</b>	Local Exchange Carrier
<b>DLC</b>	Digital Loop Carrier	<b>LTE</b>	Long Term Evolution
<b>DOCSIS</b>	Data Over Cable Service Interface Specification	<b>Mbps</b>	Megabits Per Second
<b>DSL</b>	Digital Subscriber Line	<b>MIMO</b>	Multiple Input Multiple Output
<b>DSLAM</b>	Digital Subscriber Line Access Multiplexer	<b>OLT</b>	Optical Line Terminals
<b>DWDM</b>	Dense Wavelength Division Multiplexing	<b>OSN</b>	Optical Splitting Network
<b>FTTH</b>	Fiber-to-the-Home	<b>P2MP</b>	Point-to-Multipoint
<b>FTTN</b>	Fiber-to-the-Node	<b>PFSA</b>	Proposed Funded Service Area
<b>FTTP</b>	Fiber-to-the-Premise	<b>PON</b>	Passive Optical Network
<b>FTTT</b>	Fiber-to-the-Tower	<b>POP</b>	Point of Presence
<b>FTTx</b>	Fiber-to-the-x	<b>POTS</b>	Plain Old Telephone Service
<b>Gbps</b>	Gigabits Per Second	<b>PUD</b>	Public Utility District
<b>GHz</b>	Gigahertz	<b>RF</b>	Radio Frequency
<b>GigE</b>	Gigabit Ethernet	<b>RFoG</b>	Radio Frequency over Glass
<b>GPON</b>	Gigabit Passive Optical Network	<b>SIP</b>	Service Interface Point
<b>HFC</b>	Hybrid Fiber/Coaxial	<b>VDSL2</b>	Very-High-Speed Digital Subscriber Line 2
<b>Hz</b>	Hertz	<b>VoIP</b>	Voice over Internet Protocol
		<b>WiMAX</b>	Worldwide Interoperability for Microwave Access

# Infrastructure Project Summaries

Estimates of jobs created or saved are based on information provided by applicants.

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## ALABAMA

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### **Butler Telephone Company, Inc.**

#### **Butler Telephone Company, Inc., Project to Serve Rural, Remote, and Unserved Establishments**

##### **Last Mile Remote**

**\$3,892,920 Grant**

Butler Telephone Company, Inc., a subsidiary of TDS Telecommunications Corp. (TDS Telecom), will provide high-speed DSL broadband service to remote, unserved households within its rural service territory in Alabama. The network will make services available to 462 households, 23 businesses, and 1 anchor institution. The project will create or save an estimated 77 jobs.

### **National Telephone of Alabama, Inc.**

#### **Cherokee Broadband Initiatives Project**

##### **Last Mile**

**\$421,578 Loan**

**\$1,264,739 Grant**

National Telephone of Alabama, Inc., will deploy ADSL2+ technology to provide the infrastructure necessary for rural subscribers in the Colbert County communities of Barton, Cherokee, and Margerum to access advanced high-speed broadband service. The network will make services available to 1,294 households, 231 businesses, and 8 anchor institutions. The project will create four jobs.

### **North Alabama Electric Cooperative**

#### **North Alabama Remote Rural Broadband Economic Development Initiative**

##### **Last Mile**

**\$19,100,909 Grant**

North Alabama Electric Cooperative will provide a last-mile FTTH network for high-speed broadband in an underserved rural area in northeast Alabama. North Alabama Electric Cooperative and New Hope Telephone Cooperative, a service provider, are partnering to provide high-speed broadband access to more than 8,048 households, 1,442 businesses, and 53 anchor institutions. North Alabama Electric Cooperative will provide voice, video, and data services to customers over an active GPON using fiber-optic cable and passive and active components. Internet connections will be at 100 Mbps or higher. The project will create or save 51 jobs.

### **Peoples Telephone Company, Inc.**

#### **Peoples Telephone Company, Inc., Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$4,163,589 Grant**

Peoples Telephone Company, Inc. (Peoples Tel), a subsidiary of TDS Telecom, will build a project to bring high-speed broadband service to unserved premises within Peoples Tel's rural franchise service territory. Peoples Tel is the State-certified ILEC in Alabama. The project will serve 11 PFSA's located within its franchised service territory, which are 100 percent rural and include 11 communities. Within these PFSA's, there are 1,219 premises (1,199 households, 19 businesses, and 1 anchor institution) that have no access to broadband service. Peoples Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSA's. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded at a reasonable cost to meet future needs. The project will create or save 109 jobs.

## **Utopian Wireless Corporation**

### **Utopian Ashford WiMAX Project**

#### **Last Mile**

**\$396,525 Loan**

**\$1,189,575 Grant**

Utopian Wireless Corporation will make available advanced 4G wireless broadband service to underserved communities in and around the Ashford area. The PFSA includes the rural areas of Slocomb, Ashford, Hartford, Cottonwood, Webb, and Chancellor. The PFSA covers approximately 9,391 households, 3,848 businesses, and 219 anchor institutions. Using licensed 2.5 GHz spectrum, Utopian Wireless Corporation will deploy a broadband wireless system that features Motorola Mobile WiMAX technology, which offers several advantages over other wireless technologies, including a highly efficient air interface optimized for IP, built-in support for advanced antenna technologies like MIMO, and quality-of-service controls that enable differentiated services and open access. The project will create 10 full-time jobs.

## **Utopian Wireless Corporation**

### **Utopian Shoals WiMAX Project**

#### **Last Mile**

**\$569,679 Loan**

**\$1,709,039 Grant**

Utopian Wireless Corporation will make available advanced 4G wireless broadband service to underserved communities in and around the Shoals area. The rural PFSA includes the ZIP code areas of 35645 (Killen), 35652 (Rogersville), 35672 (Town Creek), 35646 (Leighton), and 35618 and covers approximately 11,885 households, 1,731 businesses, and 220 anchor institutions. Using licensed 2.5 GHz spectrum, Utopian Wireless Corporation will deploy a broadband wireless system that features Motorola Mobile WiMAX technology. The system solution includes WiMAX access points, wireless and wired backhaul, ASN-GW, CSN, and an IP core that supports authentication and routing of traffic to application servers and the Internet. The project will create 14 full-time jobs.

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## **ALASKA**

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### **Copper Valley Telephone Cooperative, Inc.**

#### **McCarthy Microwave Shot**

#### **Middle Mile**

**\$2,613,975 Loan**

**\$2,613,975 Grant**

Copper Valley Telephone Cooperative, Inc. (CVTC) will extend terrestrial wireless broadband connectivity to McCarthy, a remote rural community where CVTC is the serving LEC. The project will allow CVTC to transition from a low-bandwidth-capacity satellite link to the proposed high-capacity terrestrial microwave middle-mile service in an area that has no terrestrial connections to outside networks. Currently, all communications in and out of McCarthy utilize earth-orbiting satellites. The project will make services available to 26 households, 15 businesses, and 3 anchor institutions that are unserved, creating the potential for increased business growth, public services, public safety, and quality of life for the residents of McCarthy. The project will create 56 jobs.

### **Copper Valley Wireless, Inc.**

#### **Copper Valley Wireless - Cordova, AK, Microwave**

#### **Middle Mile**

**\$1,747,796 Loan**

**\$1,747,795 Grant**

Copper Valley Wireless, Inc., will extend terrestrial connectivity from Naked Island to Cordova, a remote rural community with voice service provided by the local cooperative. The project will provide access to the interexchange carrier to provide high-speed broadband to residents. The network will make services available to 1,077 households and 10 anchor institutions. The project will create five jobs.

### **Rivada Sea Lion, LLC**

#### **Southwestern Alaska Broadband Rural Expansion (SABRE)**

##### **Last Mile Remote**

**\$25,333,240 Grant**

Rivada Sea Lion, LLC will deliver low-cost, high-speed broadband and public safety interoperability to the inaccessible communities of southwestern Alaska. The project will dramatically enhance service to homes, businesses, community centers, schools, medical clinics, and public safety organizations. SABRE will use a unique combination of wireless technologies to deliver leading-edge connectivity to the proposed service area. The network will make services available to 8,136 households, 809 businesses, and 128 anchor institutions. The project will create an estimated 60 jobs.

### **Supervision, Inc.**

#### **Farther and Faster**

##### **Last Mile Remote**

**\$174,680 Grant**

Supervision, Inc.'s Farther and Faster project will provide last-mile cable to deliver broadband capability to homes, businesses, and community facilities in Tanana, a predominantly Alaska Native community located on the Yukon River. The network will make services available to 166 households, 14 businesses, and 5 anchor institutions.

### **United Utilities, Inc.**

#### **TERRA-SW: Terrestrial Broadband in Southwestern Alaska**

##### **Middle Mile**

**\$44,158,522 Loan**

**\$43,982,240 Grant**

United Utilities, Inc., will provide middle-mile connectivity to 65 communities in southwestern Alaska. These communities span the Bristol Bay and Yukon Kuskokwim regions, an area approximately the size of North Dakota. Connectivity is over a combination of undersea fiber, terrestrial fiber, and microwave links. United Utilities will leverage its DeltaNet network to reduce the total cost of deployment. The network will make services available to 9,100 households, 748 businesses, and 89 anchor institutions. The project will create or save 105 jobs.

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## **AMERICAN SAMOA**

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### **American Samoa Telecommunications Authority**

#### **Broadband Linking the American Samoa Territory (BLAST) Project**

##### **Last Mile Remote**

**\$10,000,000 Loan**

**\$81,034,763 Grant**

American Samoa Telecommunications Authority will replace its old, deteriorating legacy copper infrastructure with a more robust and weather-durable fiber-optic network that will link the main islands of American Samoa, making it possible to provide broadband services to every household, business, and anchor institution in the territory. The network will make services available to 9,735 households, 315 businesses, and 106 anchor institutions. The project will create an estimated 2,000 jobs.

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## **ARIZONA**

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### **Arizona Telephone Company**

#### **Arizona Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$4,014,808 Grant**

Arizona Telephone Company (Arizona Tel) will bring high-speed broadband service to unserved premises in its rural franchise service territory. Arizona Tel, a subsidiary of TDS Telecom, is the State-certified ILEC in Arizona. The project is designed to serve nine PFSAs in its franchised service territory, which is 100 percent rural and includes six communities. In these PFSAs, 608 premises (552 households, 54 businesses, and 2 anchor institutions) currently have no access to broadband service. Arizona Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSAs. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded at a reasonable cost to meet future needs. The project will create or save 106 jobs.

**Hopi Telecommunications, Inc.**

**HTI Jeddito Middle-Mile/Last-Mile Project**

**Middle Mile**

**\$1,090,471 Loan**

**\$2,544,432 Grant**

Hopi Telecommunications, Inc. (HTI) will deploy 61 miles of fiber-optic cable between the community of Jeddito in its service area and the Frontier Communications POP in Holbrook. In addition to this fiber build-out, a last-mile component will provide broadband service to currently unserved subscribers around the communities of Jeddito and Spider Mound. HTI will serve these subscribers using wireless P2MP WiMAX access equipment. As the middle-mile component is the predominant part of the proposed system, this project is classified as a middle-mile project. The network will make services available to 2,734 households, 26 businesses, and 22 anchor institutions. The project will create 18 jobs.

**J.C. Cullen, Inc.**

**Northern Arizona Data/Internet Network Extension (NADINE)**

**Middle Mile**

**\$2,204,230 Grant**

J.C. Cullen, Inc., will implement the NADINE project to provide broadband service speeds of up to 300 Mbps in rural areas of the Havasupai Reservation and two scientific research facilities. The project will use licensed microwave radios with hot stand-by units. The project also includes a monitoring system located at an existing operation center and the utilization of five existing mountain-top communications sites for backhaul repeater locations. The network will make services available to 2,330 households, 8 businesses, and 20 anchor institutions. The project will create or save 22 jobs.

**Midvale Telephone Exchange, Inc.**

**MTE Last Mile Broadband Connections Initiative Henderson Service Area**

**Last Mile**

**\$334,924 Loan**

**\$781,488 Grant**

Midvale Telephone Exchange, Inc., will offer last-mile broadband service speeds of at least 20 Mbps in the Prescott Prairie, Mingus Meadows, and Mingus Mountain areas of Henderson Valley using FTTH technology. The network will make services available to 117 households and 981 businesses. The project will create or save 10 jobs.

**Midvale Telephone Exchange, Inc.**

**MTE Last Mile Broadband Connections Initiative Young Service Area**

**Last Mile**

**\$644,045 Loan**

**\$1,502,769 Grant**

Midvale Telephone Exchange, Inc., will implement the Last Mile Broadband Connections Initiative Young Service Area project to provide service with a minimum of 20 Mbps in rural areas of the Young exchange. The project will use FTTH technology, and will facilitate public safety training, improved access to urban medical care centers, educational access, and expanded access to urban library services. The network will make services available to 236 households, 14 businesses, and 1 anchor institution. The project will create or save 10 jobs.

### **San Carlos Apache Telecommunications Utility, Inc.**

#### **San Carlos Apache Telecommunications, Inc. Broadband Offering**

##### **Last Mile**

**\$5,244,585 Loan**

**\$5,244,585 Grant**

San Carlos Apache Telecommunications Utility, Inc. (SCATUI) will provide FTTP services to two areas within its serving areas on the San Carlos Apache Reservation. In the Bylas PFSA, residents currently are being compelled to relocate their homes to a different area due to uncontrollable circumstances. This grant is crucial to providing these customers with broadband Internet and phone service. Within the San Carlos service area, FTTP services will be provided to five new communities, a hospital, and multiple doctor facilities that are currently unserved. In addition, SCATUI will build five new tower sites to provide broadband Internet service for residents and emergency services personnel in very remote areas of the reservation that are also unserved. The network will make services available to 2,377 households, 21 businesses, and 51 anchor institutions. The project will create 63 jobs.

### **Tohono O’odham Utility Authority**

#### **Tohono O’odham Fiber Route - Middle Mile**

##### **Middle Mile**

**\$3,565,900 Loan**

**\$3,565,900 Grant**

Tohono O’odham Utility Authority (TOUA) will enable high-speed DSL service throughout the entire Tohono O’odham Reservation, with FTTP and fixed wireless broadband in certain areas. This area includes the three telephone exchanges currently owned and operated by TOUA. The network will offer a range of plans, with the most common average broadband service speed supporting 2 Mbps downstream and 512 Kbps upstream. The network will make services available to 2,307 households and 480 businesses.

### **Tohono O’odham Utility Authority**

#### **Tohono O’odham Last-Mile FTTH and Broadband Wireless Network**

##### **Last Mile**

**\$2,576,750 Loan**

**\$7,730,250 Grant**

Tohono O’odham Utility Authority (TOUA) will further develop its communications network to improve current conditions in the Tohono O’odham Nation. TOUA was awarded a middle-mile BIP loan and grant (Easygrants ID 1767) in round one. This last-mile project is synergistic with the recently awarded project. Both the middle-mile and last-mile elements are integral to the total broadband solution for the TOUA service area. The middle-mile project allows TOUA to build a strong high-speed transport network that will interconnect all the last-mile nodes in this project. TOUA will leverage its current investment in broadband access BLC equipment to build an extensive FTTH network. In conjunction with the project defined in the middle-mile award, this project will extend broadband service to nearly all the unserved and underserved last-mile sections in the entire PFSA Tohono O’odham Reservation. The system will use a combination of fiber-optic technology along with DSL and broadband wireless and will enable service speeds beyond 20 Mbps. TOUA will also offer wireless services from each of its BLC locations. These Wi-Fi areas can be deployed quickly and economically. The project will make services available to 2,711 households, 1,329 businesses, and 60 anchor institutions. The project will create more than 100 jobs.

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## **ARKANSAS**

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### **Crystal Broadband Networks**

#### **Crystal Broadband Networks Southeast Arkansas WiMAX System**

##### **Last Mile**

**\$1,808,881 Loan**

**\$1,737,945 Grant**

Crystal Broadband Networks will provide last-mile broadband service to more than 600 square miles of rural Arkansas. The project will deploy a fixed wireless network utilizing WiMAX technology to offer broadband service speeds of at least 5 Mbps. The network will make services available to 2,399 households, 1,318 businesses, and 13 anchor institutions. The project will create or save 24 jobs.



### **Northern Arkansas Telephone Company**

#### **Northern Arkansas Broadband**

##### **Last Mile**

**\$2,569,636 Grant**

Northern Arkansas Telephone Company will substantially expand the provision of advanced FTTH and ADSL2+ services via a fiber-optic network with combined speeds exceeding 20 Mbps in Marion and Boone counties in rural north central Arkansas. The network will make services available to 725 households, 70 businesses, and 10 anchor institutions. The project will create 95 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Searcy WiMAX Project**

##### **Last Mile**

**\$744,165 Loan**

**\$2,232,496 Grant**

Utopian Wireless Corporation will provide wireless broadband service to two rural underserved communities near Searcy. These rural PFSA cover approximately 19,391 households, 2,050 businesses, and 111 anchor institutions. Using its licensed 2.5G Hz spectrum, Utopian will deploy a broadband wireless system that features Motorola Mobile WiMAX technology that will support 5.0 and 10 MHz channels. The system includes WiMAX access points, wireless and wired backhaul, ASN-GW, CSN, and an IP core that supports authentication and the routing of traffic to application servers and the Internet. Utopian will offer tiered services with an average minimum wireless downlink speed of at least 1.8 Mbps. The project will create 15 jobs.

### **Windstream Corporation**

#### **Windstream Arkansas, LLC**

##### **Last Mile**

**\$7,285,202 Grant**

Windstream Corporation will expand broadband service to unserved customers in rural areas of Arkansas. With this project, Windstream will extend the reach of its broadband network to make services available to 6,111 households, 339 businesses, and 33 anchor institutions. It will provide broadband to last-mile wireline telephone subscribers. Windstream will provide broadband service to community and public service facilities in the PFSA at discounted rate packages for at least 3 years. Windstream will deploy industry standard DSLAM protocols to provide a minimum of 6.0 Mbps downstream and 786 Kbps upstream data services. The DSLAM will be strategically deployed to reach the greatest number of unserved customers over its existing wireline copper plant. The project will create or save 122 jobs.

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## **CALIFORNIA**

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### **Audeamus**

#### **Westside Broadband Project for Rural Central California - San Joaquin, Tranquillity, and West Fresno**

##### **Last Mile Non-remote**

**\$2,741,505 Loan**

**\$2,741,505 Grant**

Audeamus will build a fiber-based broadband infrastructure for the unserved and underserved communities of San Joaquin and Tranquillity and for a portion of rural west Fresno County. This last-mile project will provide broadband access to approximately 1,352 households, 125 local businesses, and 24 anchor institutions. The project will create or save 93 jobs.

### **Calaveras Telephone Company**

#### **Calaveras Fiber-to-the-Home Broadband Deployment Project**

##### **Last Mile**

**\$1,226,093 Loan**

**\$2,860,883 Grant**

Calaveras Telephone Company will deploy FTTH technology to increase the availability of broadband service in Poker Flat, an area south of Copperopolis in Calaveras County. The company will bring a robust FTTH infrastructure to its existing customer footprint in Calaveras County. Deployment is based upon an overbuild and expansion of existing exchange areas as well as an increased transport route to the local Internet POP. The project's PFSA, which lies in the Sierra Nevada foothills, has a unique mixture of broadband users that includes remote workers from nearby economic centers like Stockton, Sacramento, and San Francisco. The project will make services available to 409 households and 4 businesses. It includes upgraded transport infrastructure to handle backhaul for existing and new construction areas and effectively expands the company's broadband footprint. To accommodate the varied demographics and subscriber profiles in the served areas, Calaveras will use several service offerings, ranging from 1.5 Mbps to 50 Mbps. The network will incorporate GPON and active fiber infrastructure with existing landline telephone switching. The project will create or save eight jobs.

### **Cal-Ore Communications, Inc.**

#### **North Siskiyou Wireless Broadband Last Mile**

**\$446,600 Loan**

**\$1,339,800 Grant**

Cal-Ore Communications, Inc., and Cal-Ore Telephone Company will cooperate to build and manage a last-mile wireless broadband project to serve north central Siskiyou County. The general mountainous terrain combined with dense stands of juniper trees makes wireless coverage difficult and requires additional radio sites to achieve coverage across the area. The project will also provide IP voice services over a wireless network. The PFSA includes 2,022 households and 365 businesses that are predominantly farms, ranches, and other agricultural entities, and 27 anchor institutions. The project will provide wireless broadband to unserved and underserved communities and enhanced backhaul capacity to neighboring blocks served by Cal-Ore Communications and Cal-Ore Telephone Company. The project will create five jobs.

### **Ponderosa Cablevision**

#### **Millerton Project**

##### **Last Mile Non-remote**

**\$1,926,431 Loan**

**\$1,926,431 Grant**

Ponderosa Cablevision will deploy FTTP in a 31-square-mile area adjacent to Ponderosa's current service territory. The project will make telemedicine and online education applications accessible, a true benefit in an area where reaching the closest medical and school facilities requires a 45-minute drive. The network will make services available to 693 households. The project will create or save 34 jobs.

## **Smarter Broadband**

### **Smarter Broadband Project**

#### **Last Mile**

**\$624,681 Loan**

**\$1,874,043 Grant**

Smarter Broadband will provide high-speed broadband access to western Nevada County over 435 square miles of rural, mountainous, and wooded territory. Smarter Broadband operates a network of wireless access points spanning multiple towers throughout the PFSA. The company will deliver speeds up to 6 Mbps and more to this largely underserved area. The project will make services available to 14,075 households, 3,581 businesses, and 298 anchor institutions. The project will create 10 jobs.

## **Softcom Internet Communications, Inc.**

### **Softcom Rural Broadband Expansion Project**

#### **Last Mile**

**\$1,689,710 Loan**

**\$5,069,125 Grant**

Softcom Internet Communications, Inc., will provide broadband service speeds of 3 Mbps downstream and 1 Mbps upstream to an underserved rural area in Sacramento and San Joaquin counties in north central California. The project will cover 378 square miles and will make services available to 6,001 households, 4,266 businesses, and 5 anchor institutions. The project network is based on Softcom's second-generation wireless platform, a proven platform that has been in operation more than 3 years. The project consists of augmenting and expanding the coverage of this network to provide 100 percent broadband availability throughout the entire service area. The project will create 38 jobs.

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## **COLORADO**

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## **Delta County Tele-Com, Inc.**

### **Delta County Tele-Com, Inc., Broadband Project to Serve Rural Unserved Establishments**

#### **Last Mile**

**\$1,826,979 Grant**

Delta County Tele-Com, Inc. (Delta County Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to three 100 percent rural PFSA's with four communities in its service territory. These PFSA's have 540 premises (495 households and 45 businesses) with no access to broadband service. Delta County Tel is the State-certified ILEC in Colorado. As engineered, the network will deploy Ethernet-over-copper technology to its fullest potential, provide VDSL2 access devices packaged in an FTTH configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. This project will create or save 48 jobs.

## **Nunn Telephone Company**

### **Nunn Rural Broadband Project**

#### **Last Mile**

**\$1,293,125 Loan**

**\$3,879,375 Grant**

Nunn Telephone Company will provide high-speed broadband service to rural residents and businesses in north central Colorado, utilizing FTTH technologies. The network will make services available to 373 households, 191 businesses, and 3 anchor institutions. The project will create 20 jobs.

### **Peetz Cooperative Telephone Co.**

#### **Peetz Last Mile**

#### **Last Mile Remote**

**\$756,925 Grant**

Peetz Cooperative Telephone Co., will deploy broadband infrastructure in and around the Peetz community using a combination of technologies. This deployment within the remote unserved ranching and agricultural community will create jobs and stimulate economic growth. Anchor institutions within the community will have connectivity to necessary distance learning and public safety applications. A portion of this project will also be implemented in Nebraska. The network will make services available to 254 households, 15 businesses, and 6 anchor institutions. The project will create five jobs.

### **Plains Cooperative Telephone Association, Inc.**

#### **Fiber on the Colorado Plains**

#### **Last Mile**

**\$9,475,120 Loan**

**\$1,672,080 Grant**

Plains Cooperative Telephone Association, Inc., will offer FTTH broadband service on the eastern plains of Colorado. The project will add 1,000 miles of fiber-optic cable over a 1,974 square-mile area. The network will make services available to 1,096 households, 272 businesses, and 42 anchor institutions. The project will create or save 24 jobs.

### **Stoneham Cooperative Telephone Corporation**

#### **Stoneham FTTH**

#### **Last Mile**

**\$234,541 Loan**

**\$1,407,244 Grant**

Stoneham Cooperative Telephone Corporation will offer FTTH broadband service in Weld, Logan, and Morgan counties, which consist of rural farming and ranching territory. The network will make services available to 62 households, 9 businesses, and 4 anchor institutions. The project will create or save two jobs.

### **Wiggins Telephone Association**

#### **Weldona-Orchard FTTP**

#### **Last Mile Non-remote**

**\$2,168,544 Loan**

**\$2,159,887 Grant**

Wiggins Telephone Association will deploy FTTP infrastructure in the Weldona-Orchard area of northeastern Colorado. The network will make services available to 446 households, 40 businesses, and 7 anchor institutions. The project will create nine jobs.

### **Willard Telephone Company**

#### **Willard Telephone Company FTTH**

#### **Last Mile**

**\$245,505 Loan**

**\$546,442 Grant**

Willard Telephone Company will upgrade its exchange facilities located in western Logan County to offer FTTH to the Willard Community, a non-designated community in northeastern Colorado. The PFSA, mainly farm and ranch land, is so remote that residents do not receive daily newspapers and some residents receive mail service only 3 days a week. The network will make services available to 76 households, 8 businesses, and 3 anchor institutions. The project is expected to create or save 11 jobs.

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## FLORIDA

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### **Litestream Holdings, LLC**

#### **Western St. Lucie County Broadband Expansion**

##### **Last Mile**

**\$5,053,427 Grant**

Litestream Holdings will extend its existing fiber trunk to serve more than 940 unserved locations in a rural portion of unincorporated St. Lucie County. The PFSA will have access to high-speed Internet, digital voice service, and analog and digital high-definition video services. The project will implement FTTH using RFoG technology that allows seamless end-to-end conversion of traditional coax RF signals over fiber-optic cable. RFoG technology will allow Litestream to leverage its existing 860 MHz RF head-end and DOCSIS-based Internet distribution framework, thus reducing cost. The project will be constructed in four phases across approximately 54 miles of trunk fiber to connect with the existing network infrastructure, 111 miles of lateral fiber, and 72 miles of community fiber. Maximum combined download and upload speeds will exceed 20 Mbps on the maximum tiered level of service offered. The project will create 52 jobs.

### **Myakka Communications, Inc.**

#### **Myakka Communications**

##### **Last Mile**

**\$1,963,930 Loan**

**\$5,891,796 Grant**

Myakka Communications will deploy a fiber overbuild and expansion of the wireless network of its sister company, Myakka Technologies. The project will serve a rural portion of Florida that has no cable, DSL, or fiber infrastructure. It will serve rural eastern portions of Manatee and Sarasota counties with speeds of up to 20 Mbps. The project will deploy approximately 150 miles of fiber-optic cable and will make services available to 4,150 premises. This overbuild will provide a hybrid, efficient, and economical system of fiber and wireless. The project will create 49 jobs.

### **Quincy Telephone Company**

#### **Quincy Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,145,379 Grant**

Quincy Telephone Company will offer broadband service speeds of up to 20 Mbps in Gadsden County, Florida and Decatur County, Georgia. As engineered, the network will deploy Ethernet-over-copper technology and will provide VDSL2 access via FTTN. The network will make services available to 346 households, 12 businesses, and 2 anchor institutions. The project will create or save 30 jobs.

### **Windstream Corporation**

#### **Windstream Florida, Inc.**

##### **Last Mile**

**\$38,288,349 Grant**

Windstream Corporation will expand broadband service to unserved customers in rural areas of Florida. The project will allow Windstream to extend the reach of its broadband network to make services available to 50,026 households, 4,765 businesses, and 149 anchor institutions. It will provide broadband to last-mile wireline telephone subscribers. Windstream will provide broadband service to community and public service facilities in the PFSAs at discounted rate packages for at least 3 years. Windstream will deploy industry-standard DSLAM protocols to provide a minimum of 6.0 Mbps downstream and 786 Kbps upstream data services. The DSLAM will be strategically deployed to reach the greatest number of unserved customers over its existing wireline copper plant. The project is expected to create an estimated 226 jobs.

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## GEORGIA

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### Blue Ridge Telephone Company

#### Blue Ridge Telephone Company: Broadband Project to Serve Rural Unserved Establishments

##### Last Mile

**\$853,768 Grant**

Blue Ridge Telephone Company (Blue Ridge Tel), a subsidiary of TDS Telecom, will build a high-speed broadband network in Georgia in two 100 percent rural PFSA with three communities. These PFSA have 368 premises (352 households and 16 businesses) with no access to broadband service. Blue Ridge Tel is the State-certified ILEC in Georgia. As engineered, the network will deploy Ethernet-over-copper technology, provide VDSL2 access devices packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow future PON upgrades without needing to rebuild the transport routes. The network's target speed is 20 Mbps (upstream and downstream combined) or more DSL service. The project will create or save 22 jobs.

### Bulldog Cable Georgia, Inc.

#### Bulldog Cable - Lake Sinclair System

##### Last Mile

**\$2,843,713 Loan**

**\$8,531,138 Grant**

Bulldog Cable Georgia, Inc., will offer advanced broadband service speeds of up to 5 Mbps in the area of Lake Sinclair. The project will upgrade 42 miles of cable with new 1 GHz cable and expand an additional 163 miles of new construction for a total of 205 miles of HFC cable. The network will make services available to 5,025 households and 1,369 businesses. The project will create or save 59 jobs.

### Darien Telephone Company, Inc.

#### Broadband Bridge to Sapelo Island

##### Last Mile

**\$223,996 Loan**

**\$223,997 Grant**

Darien Telephone Company, Inc., will expand high-speed broadband service to Sapelo Island, a barrier island off the coast of Georgia currently without access to high-speed broadband, using FTTH GPON technology. The network will make services available to 240 households, 10 businesses, and 10 anchor institutions and will help drive economic development in the community. The project will create 23 jobs.

### Flint Cable TV, Inc.

#### Flint Digital Wave

##### Last Mile Non-remote

**\$4,095,913 Loan**

**\$4,095,913 Grant**

Flint Cable TV, Inc., will provide an HFC network to homes in the underserved areas of Culloden, Friendship, and Yatesville in rural central Georgia. This HFC network will use the latest DOCSIS 3.0 cable standard, enabling channel bonding and speeds up to 100 Mbps. The network will make services available to 2,786 households, 22 businesses, and 19 anchor institutions. The project will create 20 jobs.

### Quincy Telephone Company

#### Quincy Telephone Company: Broadband Project to Serve Rural Unserved Establishments

##### Last Mile

**\$218,168 Grant**

Quincy Telephone Company will offer broadband service speeds of up to 20 Mbps in Gadsden County, Florida and Decatur County, Georgia. As engineered, the network will deploy Ethernet-over-copper technology and will provide VDSL2 access via FTTN. The network will make services available to 66 households and 2 businesses. The project will create or save six jobs.

**South Georgia Regional Information Technology Authority**

**SGRITA Rural Last Mile Infrastructure Project**

**Last Mile**

**\$6,663,515 Loan**

**\$6,663,515 Grant**

South Georgia Regional Information Technology Authority will offer 700 MHz and 2.5 GHz 4G mobile and fixed wireless broadband service in the rural southwest counties of Baker, Calhoun, Early, Miller, and Mitchell. The network will make services available to 21,033 households, 2,272 businesses, and 246 anchor institutions. The project will create or save eight jobs.

**Wilkes Telephone & Electric Company**

**Wilkes Telephone Company FTTH Build-Out**

**Last Mile**

**\$14,433,762 Loan**

**\$33,678,779 Grant**

Wilkes Telephone & Electric Company will provide state-of-the-art communication services while enhancing broadband communication options to the citizens of Lincoln, Taliaferro, and Wilkes counties. The network will make services available to 7,832 households, 802 businesses, and 58 anchor institutions, providing infrastructure for affordable bandwidth and services, and will integrate economic development, employment, education, public safety, public health, and other government services. The technology will be an FTTH wireline fiber-optic cable network, configured in PON architecture, able to support speeds in excess of 20 Gbps. The project will create 74 jobs.

**Windstream Corporation**

**Georgia Windstream, LLC**

**Last Mile**

**\$4,665,116 Grant**

Windstream Corporation will offer broadband service speeds of up to 12 Mbps in the counties of Appling, Charlton, Dodge, Early, Miller, Rabun, Seminole, Tattnall, Telfair, Upson, Walker, and Wayne by deploying DSLAMs using ADSL2+. The network will make services available to 4,033 households, 284 businesses, and 35 anchor institutions. The project will create or save 54 jobs.

**Windstream Corporation**

**Windstream Georgia Communications, LLC**

**Last Mile**

**\$5,129,575 Grant**

Windstream Corporation will provide last-mile broadband service to numerous unserved rural areas of Georgia. Windstream will deploy industry-standard DSLAMs using ADSL2+ protocols to provide a minimum of 6 Mbps downstream and 786 Kbps upstream data services. DSLAMs will be strategically deployed to reach the greatest number of unserved customers over the existing wireline copper plant. The project will make services available to 18,503 households, 2,037 businesses, and 119 anchor institutions. The project will create an estimated 55 jobs.

**Windstream Corporation**

**Windstream Standard, LLC**

**Last Mile**

**\$6,940,375 Grant**

Windstream Corporation will expand broadband service to unserved customers in rural areas of Georgia. The PFSA comprises the 21 communities of Baldwin, Blairsville, Clarkesville, Cleveland, Cornelia, Dahlonega, Dawsonville, Helen, Hiawassee, Ivylog, Juno, Macedonia, Mineral Bluff, Morganton, Notla, Suches, Three Sisters Mountains, Tiger, Toccoa, Turnerville, and Young Harris. The project will allow Windstream to extend the reach of its broadband network to make services available to 12,177 households, 743 businesses, and 58 anchor institutions and provide broadband to last-mile wireline telephone subscribers. The project also will allow Windstream to provide broadband service to 61 community and public safety facilities in the PFSA. The project will use industry standard ADSL2+ protocols that will allow customers to enjoy broadband at speeds of up to 12 Mbps. The project will create an estimated 73 jobs.

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## HAWAII

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### **Big Island Broadband/Aloha Broadband, Inc.**

#### **Aloha Broadband Kohala**

##### **Last Mile Remote**

**\$106,503 Loan**

Aloha Broadband will provide affordable terrestrial fixed wireless broadband service to the community of North Kohala on the Big Island of Hawaii. The area is not currently served by any broadband service provider. The network will make services available to 553 households, 35 businesses, and 9 anchor institutions. The project will create five jobs.

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## IDAHO

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### **Coeur d'Alene Tribe**

#### **Coeur d'Alene Reservation FTTH Project**

##### **Last Mile Non-remote**

**\$6,142,879 Loan**

**\$6,142,879 Grant**

The Coeur d'Alene Tribe will deploy an FTTH broadband system to provide improved broadband service to anchor institutions, critical community facilities, and approximately 3,770 unserved and underserved households in the communities of DeSmet, Plummer, Tensed, and Worley. The project will include service to isolated farms and rural home sites on the Coeur d'Alene Indian Reservation in northern Idaho. The network will make services available to 429 businesses and 21 anchor institutions and will create 30 jobs.

### **Midvale Telephone Exchange, Inc.**

#### **MTE Last Mile Broadband Connections Initiative Stanley Service Area**

##### **Last Mile**

**\$380,751 Loan**

**\$888,420 Grant**

Midvale Telephone Exchange, Inc., will offer last-mile broadband service speeds of at least 20 Mbps in the rural town of Stanley using FTTH technology. The network will make services available to 205 households, 31 businesses, and 6 anchor institutions. The project will create or save 10 jobs.

### **Potlatch Telephone Company**

#### **Potlatch Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$2,013,722 Grant**

Potlatch Telephone Company (Potlatch Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises in 100 percent rural Idaho. The project will serve five PFSA's with four communities. These PFSA's have 306 premises (296 households and 10 businesses) with no access to broadband service. Potlatch Tel is the State-certified ILEC in Idaho. As engineered, the network will deploy Ethernet-over-copper technology, provide VDSL2 access devices packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. This project will create or save 53 jobs.

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## ILLINOIS

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### **Cellular Properties, Inc.**

#### **Eastern Illinois Broadband Deployment**

##### **Last Mile**

**\$6,132,260 Loan**

**\$6,132,260 Grant**

Cellular Properties, Inc. (CPI) will upgrade an existing wireless network to 3G wireless to provide mobile and fixed wireless broadband to extremely rural and predominantly underserved areas of east central Illinois. The project will deploy FTTH where economically feasible to provide an eventual migration path to 4G/LTE. Initially, the 3G network will offer speeds of 7.2 Mbps downstream and 3.6 Mbps upstream. The three PFSA's are 99 percent rural and cover 11 counties and 36 communities. The communities include 26,605 households, 7,123 businesses, and 704 anchor institutions. CPI will upgrade to a 3G network through an overlay on existing cell sites, coupled with a build of new cell sites. The PFSA's constitute 48 of the 100 towers CPI plans to construct or upgrade to a 3G universal mobile telecommunications system. The project will create 267 jobs.



### **Convergence Technologies, Inc.**

#### **CTI Rural Open Access WiMAX Network**

##### **Last Mile**

**\$1,434,375 Loan**

**\$4,303,125 Grant**

Convergence Technologies, Inc., will offer last-mile wireless broadband and VoIP in Cook, Kankakee, and Will counties in Illinois and Lake, Newton, and Porter counties in Indiana. The project will utilize WiMAX technology as a platform to deliver broadband service speeds of up to 11 Mbps. The network will make services available to 43,755 households, 9,497 businesses, and 3 anchor institutions. The project will create or save 26 jobs.

### **Norlight, Inc.**

#### **Illinois VDB Network Expansion**

##### **Last Mile**

**\$3,311,324 Loan**

**\$7,726,423 Grant**

Norlight, Inc., will implement the Illinois VDB Network Expansion project to provide a wireless network to 13 unserved and underserved areas in central Illinois. This fixed wireless deployment will consist of a network of 72 towers providing high-speed broadband of greater than 5 Mbps. Counties covered include all or parts of Bond, Calhoun, Cass, Christian, Fayette, Greene, Jersey, Macoupin, Montgomery, Morgan, Pike, Scott, and Shelby. The network will make services available to 75,253 households, 9,737 businesses, and 804 anchor institutions. The project will create or save 36 jobs.

### **Shawnee Telephone Company**

#### **Shawnee's FTTH Project: Focused Economic Revitalization and Sustainable Transformation of Southern Illinois**

##### **Last Mile**

**\$6,249,989 Loan**

**\$1,102,940 Grant**

Shawnee Telephone Company will deploy an FTTH network capable of 1 Gbps broadband service speeds in PFSA that rank among the lowest in per household income and the highest in unemployment in southern Illinois. The network will make services available to 1,209 households, 438 businesses, and 35 anchor institutions. The project will create 91 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Bushnell WiMAX Project**

##### **Last Mile**

**\$66,091 Loan**

**\$198,271 Grant**

Utopian Wireless Corporation will provide 4G wireless broadband service to underserved communities near Bushnell. The PFSA is rural and covers approximately 1,481 households, 102 businesses, and 32 anchor institutions. Utopian will deploy a broadband wireless system that features Motorola Mobile WiMAX technology for efficient air interface optimized for IP, built-in support for advanced antenna technologies like MIMO, and quality-of-service controls that enable differentiated services and open access. The system includes WiMAX access points, wireless and wired backhaul, ASN-GW, CSN, and an IP core that supports authentication and traffic routing to application servers and the Internet. Utopian will offer tiered services with average minimum downlink speeds of at least 1.8 Mbps. The project will create 10 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Cairo WiMAX Project**

##### **Last Mile**

**\$68,686 Loan**

**\$206,055 Grant**

The Utopian Cairo WiMAX project will make available advanced 4G wireless broadband service to underserved communities in and around Cairo. The PFSA includes the 62914 ZIP code area in Alexander County, where Cairo is the county seat. The PFSA is rural and covers approximately 1,746 households, 87 businesses, and 43 anchor institutions. Using licensed 2.5 GHz spectrum, Utopian will deploy a broadband wireless system that features Motorola Mobile WiMAX technology, which offers several advantages over other wireless technologies, including a highly efficient air interface optimized for IP, built-in support for advanced antenna technologies like MIMO, and quality-of-service controls that enable differentiated services and open access. The project will create 10 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Flora WiMAX Project**

##### **Last Mile**

**\$129,714 Loan**

**\$389,141 Grant**

Utopian Wireless Corporation will provide 4G wireless broadband service to underserved communities near Flora. The rural PFSA covers approximately 2,791 households, 276 businesses, and 86 anchor institutions. Utopian will deploy a broadband wireless system that features Motorola Mobile WiMAX technology for efficient air interface optimized for IP, built-in support for advanced antenna technologies like MIMO, and quality-of-service controls that enable differentiated services and open access. The system includes WiMAX access points, wireless and wired backhaul, ASN-GW, CSN, and an IP core that supports traffic authentication and routing to application servers and the Internet. Utopian will offer tiered services with average minimum downlink speeds of at least 1.8 Mbps. Utopian will hire full-time local staff in the PFSA, including up to three sales people to prepare for launch. The project will create 10 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Monmouth WiMAX Project**

##### **Last Mile**

**\$150,063 Loan**

**\$450,189 Grant**

The Utopian Monmouth WiMAX project will make available advanced 4G wireless broadband service to underserved communities in the Monmouth area. The PFSA includes the 61462 ZIP code area in Warren County, where Monmouth is the county seat. The PFSA covers 4,419 households, 290 businesses, and 95 anchor institutions. Using licensed 2.5 GHz spectrum, Utopian Wireless Corporation will deploy a broadband wireless system that features Motorola Mobile WiMAX technology. The average minimum downlink speeds for Utopian Wireless subscribers will be at least 1.8 Mbps. The project will create 10 jobs.

### **Utopian Wireless Corporation**

#### **Utopian White Hall WiMAX Project**

##### **Last Mile**

**\$63,594 Loan**

**\$190,780 Grant**

The Utopian White Hall WiMAX project will make available advanced 4G wireless broadband service to underserved communities in and around White Hall. The PFSA includes the 62092 ZIP code area in Greene County. The PFSA is rural and covers 1,224 households, 147 businesses, and 36 anchor institutions. Utilizing licensed 2.5 GHz spectrum, Utopian will deploy a broadband wireless system that features Motorola Mobile WiMAX technology. WiMAX offers a number of advantages over other wireless technologies, including a highly efficient air interface optimized for IP, built-in support for advanced antenna technologies like MIMO, and quality-of-service controls that enable differentiated services and open access. The project will create 10 jobs.

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## INDIANA

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### **Camden Telephone Company, Inc.**

#### **Camden Telephone Company, Inc.: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,089,955 Grant**

Camden Telephone Company, Inc. (Camden Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. Camden Tel is the State-certified ILEC in Indiana. The project will serve five PFSAs, located within its franchise service territory, which are 100 percent rural and include three communities. This project will build a broadband network that will make services available to 326 rural unserved premises (309 households and 17 businesses) to provide them with access to high-speed broadband service (20 Mbps upstream and downstream combined). The project will provide DSL broadband capability to unserved premises and deliver broadband high-speed capabilities of 20 Mbps (upstream and downstream combined). The project will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, and upgrade access in the central office to support the extension of the broadband networks to these remote areas. The project will use PON FTTH where economically feasible and allow for future PON upgrades without needing to rebuild the transport routes. The project will create or save 29 jobs.

### **Convergence Technologies, Inc.**

#### **CTI Rural Open Access WiMAX Network**

##### **Last Mile**

**\$1,378,125 Loan**

**\$4,134,375 Grant**

Convergence Technologies, Inc., will offer last-mile wireless broadband and VoIP in Cook, Kankakee, and Will counties in Illinois and Lake, Newton, and Porter counties in Indiana. The project will utilize WiMAX technology as a platform to deliver broadband service speeds of up to 11 Mbps. The network will make services available to 42,039 households, 9,124 businesses, and 3 anchor institutions. The project will create or save more than 25 jobs.

### **DigitalBridge Communications Corp.**

#### **Round 2: IN-Franklin Last Mile**

##### **Last Mile**

**\$397,224 Loan**

**\$397,224 Grant**

DigitalBridge Communications Corp., will provide 4G broadband service to unserved and underserved portions of Franklin County. The project will utilize last-mile broadband access via fixed and mobile WiMAX technology. Service will include Internet access and VoIP service speeds of up to 4 Mbps. The network will make services available to 2,673 households, 266 businesses, and 41 anchor institutions. The project will create or save six jobs.

### **Home Telephone Company, Inc.**

#### **Home Telephone Company, Inc.: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$416,743 Grant**

Home Telephone Company, Inc. (Home Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. Home Tel is the State-certified ILEC in Indiana. The project will serve two 100 percent rural PFSAs, which have 178 premises (176 households and 2 businesses) with no access to broadband service. The project will build a network to provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The project will create or save 11 jobs.

### **Sunman Telecommunications, Inc.**

#### **Sunman 700-MHz WiMAX Wireless Broadband Plan Last Mile Non-remote**

**\$5,694,611 Loan**

**\$5,694,611 Grant**

Sunman Telecommunications will create a 700 MHz WiMAX build-out plan to serve rural communities within Indiana. This project will provide needed broadband service to households, businesses, and key community organizations in underserved rural communities. About 1 percent of this network will also serve a small area in Kentucky. The network will make services available to 52,657 households, 11,025 businesses, and 135 anchor institutions. The project will create 25 jobs.

### **Tipton Telephone Company, Inc.**

#### **Tipton Telephone Company, Inc.: Broadband Project to Serve Rural Unserved Establishments**

**Last Mile**

**\$1,011,971 Grant**

Tipton Telephone Company, Inc. (Tipton Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. Tipton Tel is the State-certified ILEC in Indiana. The project will serve three 100 percent rural PFSAs, which include two communities with 382 premises (332 households and 50 businesses) with no access to any broadband service. As engineered, the network will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. Target speed to unserved customers is at 20 Mbps (upstream and downstream combined). The project will create or save 27 jobs.

### **Tri-County Telephone Company, Inc.**

#### **Tri-County Telephone Company, Inc.: Broadband Project to Serve Rural Unserved Establishments**

**Last Mile**

**\$593,273 Grant**

Tri-County Telephone Company, Inc. (Tri-County Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. Tri-County Tel is the State-certified ILEC in Indiana. The project will serve three 100 percent rural PFSAs in its franchise service territory, which includes five communities. Within the PFSAs, there are 245 premises (234 households, 10 businesses, and 1 anchor institution) with no access to broadband service. The project will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed to unserved customers is 20 Mbps (upstream and downstream combined). The project will create or save 16 jobs.

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## **IOWA**

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### **Breda Telephone Corporation**

#### **Breda and Lidderdale Town and Rural Fiber-to-the- Premises Overbuild**

**Last Mile**

**\$783,572 Loan**

**\$1,828,337 Grant**

Breda Telephone Corporation will overbuild with FTTP two of its seven rural ILEC exchanges, which are adjacent to each other in west central Iowa. The overbuild would allow high-speed Internet and video services to reach all of the customers in the Breda and Lidderdale exchanges, supplementing their present landline phone services. The network will make services available to 609 households, 77 businesses, and 3 anchor institutions. The project will create 56 jobs.

### **Clear Lake Independent Telephone Company, Inc.**

#### **Clear Lake Independent Telephone Company: Fiber-to-the-Home Broadband Deployment Project**

##### **Last Mile**

**\$2,373,138 Loan**

**\$5,537,324 Grant**

Clear Lake Independent Telephone Company, Inc., will deploy FTTH broadband as a key part of the infrastructure development needed to drive and sustain economic growth and community vitality. The project will serve 3,991 households, 342 businesses, and 22 anchor institutions, with 893 households, 20 businesses, and 1 anchor institution in the PFSA. Service tiers will run from 3 to 20 Mbps. The network design uses PON infrastructure over existing Calix Networks systems. Existing systems for POTS, data, and video services will be integrated with the new fiber-optic network. The project will create two jobs.

### **C-M-L Telephone Cooperative Association**

#### **Meriden and Archer Fiber-to-the-Home Project**

##### **Last Mile Non-remote**

**\$1,519,225 Grant**

C-M-L Telephone Cooperative Association will deploy FTTH technology to provide broadband service via fiber-optic network to rural Iowa communities, including Archer and Meriden. The C-M-L Telephone Cooperative Association will offer services that include high-speed Internet exceeding 20 Mbps, digital television, and telephone service. The network will make services available to 285 households, 14 businesses, and 2 anchor institutions.

### **Eastlight, LLC**

#### **Southeast Iowa Rural Wireless Broadband**

##### **Last Mile Non-remote**

**\$3,836,926 Loan**

Eastlight, LLC will serve more than 80 small rural communities with high-speed, affordable Internet using wireless technology. The Southeast Iowa Rural Wireless Broadband project will extend high-speed broadband coverage into villages, towns, and unincorporated areas of 12 Iowa counties across 6,226 square miles with 144,000 residents in unserved and underserved areas. The network will make services available to 61,236 households, 31,014 businesses, and 370 anchor institutions. The project will create an estimated 40 jobs.

### **Ellsworth Cooperative Telephone Association**

#### **Ellsworth Fiber-to-the-Home Broadband Deployment Project**

##### **Last Mile**

**\$1,580,609 Loan**

**\$3,688,087 Grant**

Ellsworth Cooperative Telephone Association will provide high-speed Internet service in the communities of Ellsworth and Garden City and their surrounding rural areas via an FTTH network. The network will make services available to 502 households, 305 businesses, and 8 anchor institutions. The project will create one job.

### **F&B Communications, Inc.**

#### **F&B Communications FTTH Stimulus Project**

##### **Last Mile Non-remote**

**\$1,628,588 Loan**

**\$1,609,162 Grant**

F&B Communications will deploy FTTH technology to provide advanced broadband service via a high-speed fiber-optic network, with speeds exceeding 20 Mbps, to the rural areas surrounding the Iowa communities of Bennett, Delmar, and Lowden. The system will also allow for expansion at a future date. The network will make services available to 444 households. The project will create an estimated 25 jobs.

### **Farmers' Telephone Company**

#### **Farmers' Telephone Company Fiber-to-the-Premises Overbuild**

##### **Last Mile**

**\$9,367,926 Loan**

**\$9,367,927 Grant**

Farmers' Telephone Company will construct an FTTP network to provide greater than 20 Mbps broadband access to households and businesses in the exchange areas of Greene, Little Cedar, Marble Rock, New Haven, Plymouth, Riceville, St. Ansgar, and Stacyville. The network will make services available to 3,284 households, 148 businesses, and 22 anchor institutions. The project will create 255 jobs.

### **Grand River Mutual Telephone Corporation**

#### **Grand River Mutual Fiber-to-the-Home Broadband Deployment Project - Service Area 4**

##### **Last Mile**

**\$2,788,293 Loan**

**\$6,506,016 Grant**

Grand River Mutual Telephone Corporation will provide broadband service to the towns of Lorimor, Murray, and Thayer and their surrounding rural areas via an FTTH network. The network will make services available to 1,074 homes, 498 businesses, and 10 anchor institutions. The project will create 22 jobs.

### **Grand River Mutual Telephone Corporation**

#### **Grand River Mutual Fiber-to-the-Home Broadband Deployment Project - Service Area 5**

##### **Last Mile**

**\$5,108,257 Loan**

**\$11,919,267 Grant**

Grand River Mutual Telephone Corporation will provide broadband service to the towns of Allerton, Corydon, Lineville, and Millerton, Iowa and Powersville, Missouri and their surrounding rural areas. The network will make services available to 1,677 households, 285 businesses, and 30 anchor institutions along the Iowa-Missouri border. The project will create 34 jobs.

### **Hospers Telephone Exchange, Inc.**

#### **HTC Fiber-to-the-Home Broadband Deployment Project**

##### **Last Mile**

**\$2,497,621 Loan**

**\$5,827,781 Grant**

Hospers Telephone Exchange, Inc., will serve one PFSA in the town of Hospers and its surrounding rural areas in Lyon, O'Brien, Osceola, and Sioux counties. The network in this PFSA will make services available to 859 households, 168 businesses, and 9 anchor institutions. Hospers will provide voice or POTS, Internet access, and video services over a GPON FTTH. Hospers will use connections to FiberNet to provide high-bandwidth Internet connectivity. Customers will have an uninterruptible power supply and an optical network terminal installed on premises to convert the fiber-based access network to the copper-based systems used in the home. The Hospers Area Development Corporation currently finds it difficult to serve the needs of local businesses and attract new business development to the area, in part because it lacks an adequate broadband infrastructure. The project will aid economic development in the communities it serves by providing faster connections to businesses. The project will create or save an estimated eight jobs.

### **Iowa Telecommunications Services, Inc.**

#### **Connecting Rural Iowa: High-Speed Broadband Expansion 1**

##### **Last Mile**

**\$5,163,935 Grant**

Iowa Telecommunications Services, Inc. (Iowa Telecom), an ILEC, will provide an FTTN network to deliver broadband service using DSL technology. In the 42 PFSA's that comprise this last-mile network, Iowa Telecom will establish new DLC/DSL nodes to expand high-speed broadband capability to deliver broadband speeds of 3 Mbps up to 15 Mbps for residential and business customers. The project will make services available to approximately 2,908 households and 7,367 businesses. During the initial 5-year period, some of the FTTN fiber will be used for backhaul facilities for multiple wireless carriers as they expand more deeply into rural markets. The project will create 21 jobs.

### **Iowa Telecommunications Services, Inc.**

#### **Connecting Rural Iowa: High-Speed Broadband Expansion 2**

##### **Last Mile**

**\$12,236,836 Grant**

Iowa Telecommunications Services, Inc. (Iowa Telecom), an ILEC, will provide an FTTN network to deliver broadband service using DSL technology. Iowa Telecom will establish new DLC/DSL nodes to expand high-speed broadband capability to 80 PFSA's that comprise this last-mile network to deliver broadband speeds of 3 Mbps up to 15 Mbps for residential and business customers. This project will make services available to approximately 3,717 households and 14,291 businesses. During the initial 5-year period, some of the FTTN fiber will be used to provide backhaul facilities for multiple wireless carriers as they expand more deeply into rural markets. The project will create 21 jobs.

### **La Motte Telephone Company**

#### **Springbrook Wireless Internet Project**

##### **Last Mile Non-remote**

**\$187,815 Loan**

**\$187,815 Grant**

La Motte Telephone Company will provide wireless broadband service from a 300-foot tower and WiMAX installation. This project is expected to primarily serve homes in an underserved rural area. The network will make services available to 264 households, 6 businesses, and 2 anchor institutions. The project will create four jobs.

### **Municipal Communications Utility of the City of Cedar Falls (Cedar Falls Utilities)**

#### **CFU Broadband Expansion**

##### **Last Mile**

**\$873,433 Grant**

Cedar Falls Utilities will offer broadband service speeds of up to 50 Mbps in rural Black Hawk, Butler, and Grundy counties. The new broadband system will employ a combination of state-of-the-art broadband wireless and FTTP technologies in an area that is 90 percent unserved. The network will make services available to 701 households and 259 businesses. The project will create 11 jobs.

### **Southwest Telephone Exchange, Inc.**

#### **Southwest Iowa Fiber-to-the-Home Broadband Deployment Project**

##### **Last Mile**

**\$1,796,199 Loan**

**\$4,191,131 Grant**

Southwest Telephone Exchange, Inc., will provide broadband service to the towns of Emerson, Henderson, Imogene, and their surrounding rural areas. The network will make services available to 587 households, 55 businesses, and 9 anchor institutions in Fremont, Mills, Montgomery, Page, and Pottawattamie counties. The project will create six jobs.

### **Winnebago Cooperative Telecom Association**

#### **WCTA 2010 Broadband Initiative**

##### **Last Mile**

**\$8,245,610 Loan**

**\$8,245,610 Grant**

Winnebago Cooperative Telecom Association (WCTA) will provide last-mile high-speed wireline broadband FTTP to rural areas in north-central Iowa and south-central Minnesota. The infrastructure will support existing rural wireless tower facilities for future growth and bandwidth expansion to 3G and 4G networks and beyond. The project will build on a previously deployed FTTN system. The PFSA serves portions of 21 communities in 5 counties in Iowa and 2 counties in Minnesota. This project will make services available to 2,839 premises, including 138 mainly home businesses, and will offer broadband service at combined speeds ranging from 5 Mbps to 25 Mbps. WCTA will also offer digital video and unlimited local voice services. The project will create or save 40 jobs.

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## **KANSAS**

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### **H & B Communications, Inc.**

#### **FTTH - Rural Ellinwood and Claflin, Kansas**

##### **Last Mile**

**\$1,965,455 Loan**

**\$4,586,064 Grant**

H & B Communications, Inc., will provide high-speed broadband to the rural communities surrounding Claflin and Ellinwood. The network will serve 751 households, 91 businesses, and 23 anchor institutions. The project will create five jobs.

### **Home Communications, Inc.**

#### **Rural Canton FTTP**

##### **Last Mile**

**\$601,464 Loan**

**\$1,403,415 Grant**

Home Communications, Inc. (HCI) will upgrade its network, installing FTTP facilities to eliminate a last-mile bottleneck in rural areas of Canton. HCI provides broadband service to more than 1,200 customers in Kansas. This upgrade will provide access to higher bandwidth for its customers. HCI already offers FTTP service in the town portion of this exchange; therefore, the town of Canton is excluded from this PFSA. None of the premises in this PFSA has access to 5 Mbps service (upstream and downstream combined). The project will make services available to 253 premises (219 households, 24 businesses, and 10 anchor institutions). HCI will implement FTTP using GPON, International Telecommunication Union, and Full Service Access Networks G.984 standards. This project will create or save an estimated three jobs.

### **Iowa Tribe of Kansas and Nebraska**

#### **Iowa Tribe of Kansas and Nebraska Fiber-to-the-Premise**

##### **Last Mile**

**\$764,833 Grant**

The Iowa Tribe of Kansas and Nebraska will build an FTTP network on its federally recognized reservation. The network will be the first of its type in the area. The FTTP network will cover 100 percent of the PFSA and make services available to 68 households, 12 businesses, and 10 anchor institutions. Although the public service entities are under the jurisdiction of the Iowa Tribe of Kansas and Nebraska, they often provide services to the surrounding communities. The project will provide Internet access using a buried FTTP network for high reliability and exceptional capacity and speed. Broadband service speeds will be up to 20 Mbps (15 Mbps downstream and 5 Mbps upstream). The project will use a technological agnostic distribution system to increase the economic efficiency of its network. The project will create three jobs, and an advanced network will generate economic development and job opportunities in the area.

### **JBN Telephone Company, Inc.**

#### **JBN East Towns**

##### **Last Mile**

**\$1,000,568 Loan**

**\$2,323,576 Grant**

JBN Telephone Company, Inc., will deploy FTTP broadband throughout the towns of Corning, Goff, Havensville, Netawaka, Soldier, and Wetmore. The network will serve 427 households, 29 businesses, and 21 anchor institutions. The project will create three jobs.

### **Madison Telephone, LLC**

#### **Madison-Lamont FTTP**

##### **Last Mile Non-remote**

**\$3,519,750 Loan**

**\$3,519,750 Grant**

Madison Telephone, LLC will deploy FTTP technology throughout its certified service area, including the telephone exchanges of Madison and Lamont. The network will make services available to 601 households, 81 businesses, and 40 anchor institutions. The project will create nine jobs.

### **Peoples Telecommunications, LLC**

#### **Peoples Telecommunications Rural FTTP**

##### **Last Mile**

**\$3,891,062 Loan**

**\$3,891,061 Grant**

Peoples Telecommunications, LLC (PTL) will upgrade the LaCygne telephone exchange to eliminate the last-mile bottleneck in the rural area and provide access to high-speed broadband for premises with no broadband service. The project will make services available to 760 households, 50 businesses, and 7 anchor institutions in this rural area. PTL will offer high-speed data and voice services over FTTP facilities at speeds of 15 Mbps downstream and 5 Mbps upstream. PTL provides broadband service to more than 500 customers in the LaCygne exchange and extending coverage with this project will promote rural economic development. The project will create or save 10 jobs.



### **Rural Telephone Service Co., Inc.**

#### **Rural Opportunities Delivered**

##### **Last Mile Non-remote**

**\$51,612,842 Loan**

**\$49,588,807 Grant**

Rural Telephone Service Co., will provide service in a 4,600-square-mile area of western Kansas that is 99.5 percent unserved and underserved. The project will provide a rural infrastructure required for economic stability, education, and healthcare. Rural Telephone leads a team of seven companies with this shovel-ready project. A portion of this project will also be implemented in Nebraska. The network will make services available to 18,342 households, 4,372 businesses, and 335 anchor institutions. The project will create an estimated 179 jobs.

### **South Central Telephone Association, Inc.**

#### **Lake City & Sun City Rural FTTH**

##### **Last Mile Remote**

**\$871,200 Grant**

South Central Telephone Association, Inc., will bring FTTH broadband service to all unserved establishments in the exchanges of Lake City and Sun City. The network will make services available to 79 households, 8 businesses, and 1 anchor institution. The project will create seven jobs.

### **South Central Wireless, Inc.**

#### **South Central Wireless - Attica, Kansas Fiber-to-the-Premise**

##### **Last Mile**

**\$560,000 Loan**

**\$557,621 Grant**

South Central Wireless, Inc., will construct an FTTP infrastructure for Attica to offer voice and high-speed service ranging from 1.5 Mbps to 20 Mbps. The network will serve 314 households, 41 businesses, and 10 anchor institutions. The project will create nine jobs.

### **Totah Communications, Inc.**

#### **Totah Broadband Expansion Project**

##### **Last Mile Non-remote**

**\$2,426,053 Loan**

**\$1,830,180 Grant**

Totah Communications, Inc., will upgrade existing copper-fed DSL nodes to fiber-fed DSL nodes. This project will also install additional fiber-fed DSL nodes throughout the service area. The total route will cover approximately 152 miles and will serve approximately 800 new customers. A portion of this project will also be implemented in Oklahoma. The network will make services available to 422 households, 9 businesses, and 8 anchor institutions. The project will create an estimated 25 jobs.

### **Wave Wireless, LLC**

#### **Wave Wireless Southeast Kansas Broadband Expansion Project**

##### **Last Mile**

**\$619,147 Loan**

**\$1,857,441 Grant**

Wave Wireless will expand its high-speed broadband access to the rural unserved and underserved southeast Kansas PFSA. The project, covering 849 square miles, has an overall household density of 3.6 per square mile. The project will make services available to 2,890 households, 2,106 businesses, and 72 anchor institutions using a combination of WiMAX and 900 MHz systems. Wave Wireless will deliver significant upgrades using WiMAX technology and will build an additional 6 towers on its existing network of 19 towers and will lease 1 tower location. The upgraded equipment will provide higher service tiers at 2.5 Mbps and 768 Kbps. The project will create 12 jobs.

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## KENTUCKY

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### **Foothills Rural Telephone Cooperative Corporation, Inc.**

#### **Foothills Broadband Initiatives Project**

##### **Last Mile**

**\$6,291,744 Loan**

**\$14,680,738 Grant**

Foothills Rural Telephone Cooperative Corporation, Inc., will provide FTTH to portions of Lawrence and Magoffin counties in the Foothills service area. The PFSAs lack access to high-speed broadband data and quality video feeds that include local content. The PFSAs in this project will make services available to 2,247 households, 780 businesses, and 8 anchor institutions. The access network will use FTTH technology to deliver broadband and will use GPON standards with 2.48 Gigabit rates downstream and 1.2 Gigabit rates upstream. The project will create 326 jobs.

### **Highland Telephone Cooperative, Inc.**

#### **Highland Telephone Cooperative FTTH Build-Out**

##### **Last Mile**

**\$4,820,464 Loan**

**\$14,461,393 Grant**

Highland Telephone Cooperative, Inc. (HTC) will provide state-of-the-art communication services while enhancing broadband communication options to the citizens of McCreary, Morgan, and Scott counties in rural Tennessee and Kentucky. HTC will construct an FTTH wireline fiber-optic cable network, configured in PON architecture, able to support speeds in excess of 20 Gbps for all subscribers in its exchange boundaries. The network will make services available to 6,278 households, 532 businesses, and 31 anchor institutions, providing infrastructure for affordable bandwidth. The project will ensure HTC's ability to continue to operate as a major employer, provide high-speed broadband services critical to the economic growth of the region, and ensure the communications services for this rural community are as reliable and competitive as those in large cities in Tennessee and Kentucky. The project will create 21 jobs.

### **Leslie County Telephone Company**

#### **Leslie County Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$6,169,295 Grant**

Leslie County Telephone Company (Leslie County Tel) will bring high-speed broadband service to unserved premises in its rural franchise service territory. Leslie County Tel, a subsidiary of TDS Telecom, is the State-certified ILEC in Kentucky. The project is designed to serve nine PFSAs in its franchised service territory, which is rural and includes eight communities. These PFSAs have 1,591 premises (1,517 households, 38 businesses, and 36 anchor institutions) that currently have no access to broadband service. Leslie County Tel has built a broadband network that currently is capable of serving the majority of these premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSAs. This project will bring access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded at a reasonable cost to meet future needs. The project will create or save 162 jobs.

### **Mikrotec CATV, LLC**

#### **Connect Eolia, Oven Fork, and Partridge**

##### **Last Mile**

**\$829,813 Grant**

Mikrotec CATV, LLC will provide broadband Internet service to the small rural communities of Eolia, Oven Fork, and Partridge in Letcher County, tucked in a valley amidst rugged mountain terrain deep in the heart of the Appalachian coalfields. The project area covers 18 square miles and will serve 800 households, 15 businesses, and 5 anchor institutions. The system design uses wireline technology, both fiber-optic cable and coaxial cable. The hybrid system includes HFC, at least 750 MHz node + 6 actives to allow speeds of up to 6 Mbps downstream and 1 Mbps upstream. The project will create or save 14 jobs.

### **Mountain RTCC**

#### **Mountain RTCC ILEC Broadband**

##### **Last Mile Non-remote**

**\$39,843,535 Loan**

**\$38,281,044 Grant**

Mountain RTCC will deploy a fiber cable-based broadband network in Elliott, Menifee, Morgan, and Wolfe counties. This network will provide broadband service speeds above 20 Mbps. Affordable broadband access in these counties will enhance economic development and workforce training. The network will make services available to 13,013 households, 2,335 businesses, and 65 anchor institutions. The project will create an estimated 49 jobs.

### **Peoples Rural Telephone Cooperative Corp, Inc.**

#### **Broadband Infrastructure Investment in Persistent Poverty Counties: Jackson and Owsley Counties, KY**

##### **Last Mile**

**\$7,654,254 Loan**

**\$17,859,928 Grant**

The Peoples Rural Telephone Cooperative, Inc., will build FTTP facilities in Cow Creek, Jackson, and Owsley counties to provide residents, businesses, and critical community facilities with high-speed broadband service. The project will make services available to 4,747 households, 111 businesses, and 33 anchor institutions and will offer broadband service speeds ranging from 1.5 Mbps to 18 Mbps. The project design is an FTTP overlay, based on the use of Occam Network's GPON equipment and uses existing equipment cabinets and buildings to house the OLT and OSN equipment. The project will create 46 jobs.

### **Salem Telephone Company**

#### **Salem Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,934,474 Grant**

Salem Telephone Company (Salem Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. Salem Tel is the State-certified ILEC in Kentucky. The project will serve three PFSA that include five communities. This project will build a broadband network that will make services available to 551 rural unserved premises (529 households, 15 businesses, and 7 anchor institutions) that have no access to broadband service. Salem Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSA. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded at a reasonable cost to meet future needs. The project will create or save 51 jobs.

### **Thacker-Grigsby Telephone Company, Inc.**

#### **Breathitt County Broadband**

##### **Last Mile**

**\$2,222,542 Loan**

**\$5,185,932 Grant**

Thacker-Grigsby Telephone Company, Inc., will deploy a fiber-optic network in portions of Breathitt County. The network will serve 1,214 households, 60 businesses, and 34 anchor institutions. The project will create 61 jobs.

**West Kentucky Rural Telephone Cooperative Corporation, Inc.**

**West Kentucky and West Tennessee Broadband FTTH Initiative**

**Last Mile**

**\$42,711,001 Loan**

**\$42,710,999 Grant**

West Kentucky Rural Telephone Cooperative Corporation, Inc. (WK&T) will build a fiber-optic network to provide broadband infrastructure for rural southwest Kentucky in the counties of Calloway, Carlisle, Fulton, Graves, Hickman, and Marshall, and in the northwest Tennessee counties of Henry, Obion, and Weakley. The project will make services available to 11,980 households, 2,492 businesses, and 68 anchor institutions. By installing fiber throughout the service areas, broadband with speeds up to 20 Mbps will become more affordable. At the conclusion of the project, WK&T expects to double its data subscribers and have almost 90 percent of its customer base, more than 14,000 customers, on broadband, with data speeds averaging 1.5 Mbps or higher. The project will create 110 jobs.

**Windstream Corporation**

**Windstream Kentucky East, LLC 219**

**Last Mile**

**\$27,644,292 Grant**

Windstream Corporation will offer broadband service speeds at a minimum of 6 Mbps in more than 80 rural communities by deploying DSLAMs using standard ADSL2+. The network will make services available to 117,740 households, 10,329 businesses, and 574 anchor institutions. The project will create or save 397 jobs.

**Windstream Corporation**

**Windstream Kentucky East, LLC 220**

**Last Mile**

**\$31,118,534 Grant**

Windstream Corporation will offer broadband service speeds of up to 12 Mbps in more than 80 rural communities. The network will make services available to 101,009 households, 8,156 businesses, and 682 anchor institutions. The project will create or save 513 jobs.

**Windstream Corporation**

**Windstream Kentucky West, LLC**

**Last Mile**

**\$951,445 Grant**

Windstream Corporation will expand broadband service to unserved customers in the rural Kentucky communities of Coxs Creek, Fort Knox, Lebanon, Shepherdsville Northwest, and Shepherdsville Southeast. The project will allow Windstream to extend the reach of its broadband network to make services available to 3,490 households, 50 businesses, and 4 anchor institutions. It will provide broadband to last-mile wireline telephone subscribers. Windstream will provide broadband service to community public service facilities in the PFSAs at discounted rate packages for at least 3 years. Windstream will deploy industry-standard DSLAM protocols to provide a minimum of 6.0 Mbps downstream and 786 Kbps upstream data services. The DSLAMs will be strategically deployed to reach the greatest number of unserved customers over its existing wireline copper plant. The project will create an estimated 53 jobs.

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**LOUISIANA**

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**LBH, LLC**

**Rural Broadband Powered by Fiber**

**Last Mile Non-remote**

**\$16,693,439 Loan**

**\$16,691,939 Grant**

LBH, LLC, a subsidiary of Cameron Communications, LLC, will expand the existing FTTH system in Moss Bluff in the communities and surrounding rural areas of Oakdale and Vinton. The project will provide broadband, voice, and video services to unserved and underserved areas. The network will make services available to 8,232 households, 444 businesses, and 22 anchor institutions. The project will create or save an estimated 136 jobs.

### **Nexus Systems, Inc.**

#### **West Carroll Parish Infrastructure Project**

##### **Last Mile**

**\$724,256 Grant**

Nexus Systems, Inc., as part of a private-public partnership, will implement the West Carroll Parish Infrastructure project to provide fiber broadband service to unserved and underserved areas in northeastern Louisiana. The technology will be a combination of microwave and fiber connectivity. The network will tie into the middle-mile LA Broadband Alliance-Infrastructure project by the LA Board of Regents. The network will make services available to 4,427 households, 240 businesses, and 47 anchor institutions. The project will create or save 11 jobs.

### **Northeast Louisiana Telephone Company, Inc.**

#### **Northeast Louisiana Telephone Co. FTTH & Broadband Project**

##### **Last Mile Non-remote**

**\$8,124,600 Loan**

**\$4,359,000 Grant**

The Northeast Louisiana Telephone Company project will provide an active Ethernet system with symmetrical broadband service speeds of 20 Mbps. The system will use buried FTTH to serve the communities of Bonita and Collinston in Morehouse Parish. The network will make services available to 1,627 households, 74 businesses, and 15 anchor institutions. The project will create or save 22 jobs.

### **PRIDE Network, Inc.**

#### **North Shore Project**

##### **Last Mile**

**\$18,461,417 Loan**

**\$17,737,440 Grant**

PRIDE Network, Inc., will deploy FTTP infrastructure, with a wireless service-extension overlay, that will bring advanced broadband service to rural communities in St. Helena, Tangipahoa, and Washington parishes. The network will offer broadband service speeds between 20 and 100 Mbps. The network will make services available to 10,097 households, 2,978 businesses, and 172 anchor institutions. The project will create or save an estimated 1,316 jobs.

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## **MAINE**

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### **Hartland and St. Albans Telephone Company**

#### **Hartland and St. Albans Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$2,009,522 Grant**

The Hartland and St. Albans Telephone Company (Hartland and St. Albans Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises in its rural Maine service territory. The project will serve six 100 percent rural PFSAs that include five communities. These PFSAs have 599 premises (568 households, 28 businesses, and 3 anchor institutions) with no access to broadband service. Hartland and St. Albans Tel is the State-certified ILEC in Maine. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices packaged in an FTTH configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. The project will create or save 53 jobs.

### **Somerset Telephone Company, Inc.**

#### **Somerset Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$5,840,363 Grant**

Somerset Telephone Company (Somerset Tel), a subsidiary of TDS Telecom, will provide access to high-speed broadband service to unserved premises in its 100 percent rural service territory in Maine. The project will serve 20 PFSAs with 8 communities. These PFSAs have 1,468 premises (1,375 households, 73 businesses, and 20 anchor institutions) with no access to broadband service. Somerset Tel is the State-certified ILEC in Maine. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices packaged in an FTTH configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. The project will create or save 153 jobs.

### **West Penobscot Telephone and Telegraph Company**

#### **West Penobscot Telephone and Telegraph Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,554,981 Grant**

West Penobscot Telephone and Telegraph Company (West Penobscot Tel), a subsidiary of TDS Telecom, will build a project to bring high-speed broadband service to unserved premises in West Penobscot Tel's rural franchise service territory. West Penobscot Tel is the State-certified ILEC in Maine. The project will bring high-speed broadband service to four PFSAs in its franchised service territory, which are 100 percent rural and include three communities. These PFSAs have 440 premises (428 households and 12 businesses) that have no access to broadband service. West Penobscot Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSAs. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded to meet future needs. The project will create or save 41 jobs.

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## **MARYLAND**

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### **Bloosurf, LLC**

#### **Delmarva Wireless Broadband**

##### **Last Mile**

**\$1,600,000 Loan**

**\$1,600,000 Grant**

Bloosurf, LLC, in partnership with the University of Maryland Eastern Shore, a historically black college, will build a wireless last-mile network for the rural areas of Somerset, Wicomico, and Worcester counties, as well as Smith Island. This network will connect to the Maryland Broadband Cooperative optic fiber at four interconnection points. The network will make services available to 50,545 households, 6,292 businesses, and 351 anchor institutions. The project will create or save 22 jobs.

### **West Virginia PCS Alliance, LC**

#### **Rural Mobile Broadband Initiative - Maryland Last Mile**

**\$1,209,352 Grant**

West Virginia PCS Alliance, LC and NTELOS Licenses Inc., both subsidiaries of NTELOS Holdings Corporation, will expand West Virginia PCS Alliance's existing wireless services to provide 3G mobile broadband service in unserved rural portions of western Maryland and south-central Pennsylvania, north of Hagerstown. The PFSAs comprise eight communities, with more than 50 percent of the premises lacking high-speed broadband service. The network will make services available to 28,521 households, 3,306 businesses, and 704 anchor institutions. The project will create or save nine jobs.

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## **MASSACHUSETTS**

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### **Mid-Hudson Cablevision, Inc.**

#### **Last-Mile High Speed Broadband in Greene and Columbia Counties**

##### **Last Mile**

**\$486,349 Grant**

Mid-Hudson Cablevision, Inc., will provide high-speed broadband access to unserved and underserved PFSAs in the Hudson Valley and Catskill Mountain region between New York City and Albany. The network will make services available to 1,170 households, 421 businesses, and 16 anchor institutions and will complete part of the region's 911 public safety system. The last-mile extensions will require construction of 135 linear miles of FTTH on existing utility poles and connection for a network of five fire towers. Another 341-square-mile area will be reached by deploying 16 transmitting sites for wireless. The PFSAs also cover four underserved communities. The company will deploy 16 or more transmitting sites using Motorola Canopy equipment to provide access speeds of 10 Mbps in line-of-sight areas and 4 Mbps in dense foliage. The project will create or save 10 jobs.

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## MICHIGAN

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### **Air Advantage, LLC**

#### **Michigan Thumb Area Broadband Expansion Project II**

##### **Last Mile**

**\$32,300,000 Loan**

**\$31,950,000 Grant**

Air Advantage, LLC will offer broadband service to last-mile consumers in 13 counties that make up an area known as the Great Lakes Bay Region and Thumb Area. The project will use a hybrid system of fiber and wireless technologies to offer broadband service speeds in excess of 3 Mbps. The network will make services available to 279,306 households, 21,302 businesses, and 4,011 anchor institutions. The project will create or save an estimated 142 jobs.

### **Allband Communications Cooperative**

#### **Allband F.I.B.E.R. I: Federal Investment in Broadband for Economic Recovery I**

##### **Last Mile**

**\$8,622,754 Grant**

Allband Communications Cooperative serves the Robbs Creek exchange, an irregularly shaped 177-square-mile area southeast of Hillman and north of Curran in Michigan. The project will bring high-speed broadband and VoIP service to its members and customers in these unserved rural areas. The project covers Alpena County and the unincorporated communities of Lachine, Long Rapids, and Spratt, along with the surrounding townships of Green, Long Rapids, Ossineke, Wellington, and Wilson; a service area covering Alcona and Oscoda counties and the unincorporated community of Curran, along with the surrounding townships of Millen and Mitchell; and a service area covering Montmorency County in the east-central part of Rust Township. The network will make services available to 1,622 households, 95 businesses, and 9 anchor institutions and will offer broadband service speeds of up to 2.5 Gbps downstream and 1.25 Gbps upstream. Allband will deploy FTTH technology for its broadband system. The fiber-optic cable infrastructure is designed to accommodate a GPON and Active Ethernet network solutions. The project will create or save an estimated 100 jobs.

### **Allband Communications Cooperative**

#### **Allband F.I.B.E.R. II: Federal Investment in Broadband for Economic Recovery II**

##### **Last Mile**

**\$1,107,903 Grant**

Allband Communications Cooperative serves the Robbs Creek exchange, an irregularly shaped 177-square-mile area southeast of Hillman and north of Curran in Michigan. The project will bring high-speed broadband and VoIP services to its members and customers in these unserved rural areas. The project covers a service area that includes a rural area in Alcona County and takes in the unincorporated communities of Gustin and Mikado townships. The network will make services available to 206 households, 20 businesses, and 2 anchor institutions and will offer broadband service speeds of up to 2.5 Gbps downstream and 1.25 Gbps upstream. Allband will deploy FTTH technology for its broadband system. The fiber-optic cable infrastructure is designed to accommodate a GPON and Active Ethernet network solutions. The project will create or save 17 jobs.

### **Chatham Telephone Company**

#### **Last Mile Remote**

**\$8,605,935 Grant**

Chatham Telephone Company, a subsidiary of TDS Telecom, will bring high-speed DSL service to remote, unserved households within its rural service territory. The network is engineered to be easily upgraded to meet future needs. The network will make services available to 878 households, 38 businesses, and 2 anchor institutions. The project will create or save 170 jobs.

### **Climax Telephone Company**

#### **FTTx Broadband Service to Rural Climax, MI**

##### **Last Mile**

**\$1,072,501 Loan**

**\$2,144,998 Grant**

Climax Telephone Company (CTC) ILEC will build facilities to offer state-of-the-art triple-play services to the communities of Climax and Scotts. CTC will overbuild the rural and underserved ILEC service territory with FTTx and will build a new FTTP plant based on the GPON standard of 2.5 Mbps downstream and 1.25 Mbps upstream. The network will make services available to 781 households, 51 businesses, and 9 anchor institutions. This project will connect small underserved communities with the municipal government, public safety, education, and medical institutions. The project will create or save 47 jobs.

### **Communication Corporation of Michigan**

#### **Communication Corporation of Michigan: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,221,811 Grant**

Communication Corporation of Michigan (CCM), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in CCM's rural franchise service territory. CCM is the State-certified ILEC in Michigan. The project is designed to serve three rural PFSA's with two communities. These PFSA's have 288 premises (278 households and 10 businesses) that lack access to broadband service. This project will build a broadband network to deliver access to high-speed broadband service (20 Mbps upstream and downstream combined). The project will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTH configuration, and upgrade access in the central office to support the extension of the broadband networks to these remote areas. It will use PON FTTH where economically feasible and allow for future PON upgrades without needing to rebuild the transport routes. The project will create or save 32 jobs.

### **Crystal Automation Systems, Inc.**

#### **Mid-Michigan Broadband ARRA Project**

##### **Last Mile**

**\$7,949,227 Loan**

**\$18,548,197 Grant**

Crystal Automation Systems, Inc. (Casair) will provide broadband access in a large area of mid-Michigan. Casair will build this project by using 30 of its existing towers and backhauls and will install WiMAX wireless gear to provide access to rural households. Casair will lease 18 additional towers, build 14 towers where none are available, and add fiber-optic lines between towers to handle the extra bandwidth required. The network will make services available to 58,848 households, 4,970 businesses, and 706 anchor institutions in Casair's service areas 1 and 2. The project will create or save 144 jobs.

### **Island Telephone Company**

#### **Island Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$2,001,528 Grant**

Island Telephone Company (Island Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in Island Tel's rural franchise service territory. Island Tel is the State-certified incumbent ILEC in Michigan. The project is designed to serve one PFSA, which has two communities that have no access to broadband service. The network will make services available to 283 rural unserved premises (245 households, 35 businesses, and 3 anchor institutions). Island Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSA's. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded to meet future needs. The project will create or save 53 jobs.



### **Southwest Michigan Communications**

**Southwest Michigan Communications – Paw Paw and Antwerp, MI FTTP**

**Last Mile Non-remote**

**\$4,165,513 Loan**

**\$4,165,512 Grant**

Southwest Michigan Communications will construct an FTTP network that will cover the rural areas of its competitive LEC and provide advanced broadband service to the residents of the rural Paw Paw area. The network will make services available to 1,452 households. The project will create or save 14 jobs.

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## **MINNESOTA**

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### **Arrowhead Electric Cooperative, Inc.**

**Arrowhead Electric Cooperative Fiber-to-the-Home Project**

**Last Mile**

**\$4,841,245 Loan**

**\$11,296,239 Grant**

Arrowhead Electric Cooperative, Inc., will build a last-mile, open-access, FTTH network to serve northeastern Cook County. Because of the topography of the land and dense forestation, fixed wireless is not an option. The wireline passive fiber-optic network that the company will build will offer up to 100 Mbps symmetrical service. The network will make services available to 4,545 households, 138 businesses, and 63 anchor institutions. The project will create or save an estimated 87 jobs.

### **Arvig Telephone Company**

**Arvig Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

**Last Mile**

**\$5,048,168 Grant**

Arvig Telephone Company, a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. The project will serve 12 rural PFSA's that include 7 communities with 836 premises (768 households, 67 businesses, and 1 anchor institution) with no access to broadband service. The project will deliver broadband high-speed capabilities of 20 Mbps (upstream and downstream combined). The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The project will create or save an estimated 133 jobs.

### **City of Windom**

**Southwest Minnesota Broadband Group**

**Last Mile Non-remote**

**\$6,350,000 Loan**

**\$6,350,250 Grant**

The Southwest Minnesota Broadband Group project will deploy FTTP infrastructure to eight rural communities throughout southwestern Minnesota. The network will consist of a 125-mile fiber ring that will connect the 8 communities and an FTTP infrastructure within the communities that will support 3,649 households. The fiber network will also be open to other providers for provision of wireless services, dark fiber services, and competitive services. The network will make services available to 292 businesses and 50 anchor institutions. The project will create or save 52 jobs.

### **Farmers Mutual Telephone Company**

#### **Farmers Telephone-Lac qui Parle County FTTP Project**

##### **Last Mile**

**\$4,826,478 Loan**

**\$4,826,478 Grant**

Farmers Mutual Telephone Company and Lac qui Parle County will provide FTTP services to towns and townships in Lac qui Parle County. The two entities are working in partnership to give many residents their first opportunity to obtain high-speed Internet service and put in place the infrastructure to support economic development. The service area has two cities, Boyd and Dawson, and 15 townships over 339 square miles of unserved and underserved territory. The project will construct an FTTP network that will make services available to every home and business in the PFSA and utilize Calix GPON technology. The network will make services available to 1,561 households, 165 businesses, and 12 anchor institutions. The project will create or save 110 jobs.

### **Federated Telephone Cooperative**

#### **Rural Appleton, MN**

##### **Last Mile**

**\$630,289 Loan**

**\$630,289 Grant**

Federated Telephone Cooperative will build an FTTP system to deploy voice, video, and data services to the Rural Appleton exchange. The PFSA is primarily located in Swift County, with small portions in Big Stone and Chippewa counties. The PFSA includes 152 households, 7 businesses, and 1 anchor institution. The project will create or save one job.

### **Federated Telephone Cooperative**

#### **Rural Morris, MN**

##### **Last Mile**

**\$1,493,637 Loan**

**\$1,493,637 Grant**

Federated Telephone Cooperative (FTC) will provide services to the Rural Morris exchange, adjacent to its existing ILEC and CLEC service areas. The PFSA is primarily located in Stevens County, with a small portion in Grant County. The service area has 408 households, 20 businesses, and 2 anchor institutions. FTC will deploy voice service, data service over FTTP, and RF video service over its existing FTTP system. FTC will use Calix DSLAMs, which are standards based, to deploy GPON FTTP service capable of 1 Gig. The project will create or save two jobs.

### **Halstad Telephone Company**

#### **HTC Minnesota Exchanges FTTP**

##### **Last Mile Non-remote**

**\$3,277,500 Loan**

**\$3,277,500 Grant**

Halstad Telephone Company will deploy FTTP broadband in five towns and surrounding rural and farm areas in Norman and Polk counties. The project will use 320 miles of fiber-optic cable and provide those locations with broadband capability of up to 100 Mbps. Less than 5 percent of this network will also serve an area in North Dakota. The network will make services available to 1,015 households, 41 businesses, and 15 anchor institutions. The project will create or save 42 jobs.

### **Lake County**

#### **Lake County Fiber Network**

##### **Last Mile**

**\$56,413,705 Loan**

**\$9,955,359 Grant**

Lake County, in partnership with National Public Broadband, Inc., will implement the Lake County Fiber Network project to offer FTTP advanced voice, video, and data services to every home and business in Lake and eastern St. Louis counties. The network will make services available to 14,941 households, approximately 1,060 businesses, and 98 anchor institutions. The project will create or save 510 jobs.

**Minnesota Valley Television Improvement Corporation**

**Minnesota Wireless Expansion**

**Last Mile Non-remote**

**\$562,776 Loan**

**\$562,776 Grant**

Minnesota Valley Television Improvement Corporation will continue building out its two-way broadband Internet network to unserved and underserved areas of west-central and south-central Minnesota. The project will add 34 additional WiMAX access points in 34 unserved and underserved communities adjacent to its current service area. The network will make services available to 23,121 households, 479 businesses, and 200 anchor institutions. The project will create or save three jobs.

**Northeast Service Cooperative**

**Northeast Minnesota Middle Mile Project**

**Middle Mile**

**\$21,749,110 Loan**

**\$21,749,110 Grant**

The Northeast Service Cooperative will implement a middle-mile project to make dark fiber, wavelength services available to private-sector providers in rural areas of northeast Minnesota. The network will make services available to 105,904 households, 7,618 businesses, and 100 anchor institutions.

**Red River Rural Telephone Association, Inc.**

**RRT FTTP Broadband Upgrade Rural MN, ND, and SD Exchanges**

**Last Mile**

**\$181,769 Loan**

**\$181,769 Grant**

Red River Rural Telephone Association, Inc., will offer FTTP broadband service speeds of up to 100 Mbps. The project will install 690 miles of fiber-optic cable to serve rural exchanges in Ransom, Richland, and Sargent counties in North Dakota, as well as Wilkin County in Minnesota, and Marshall and Roberts counties in South Dakota. The network will make services available to 42 households and 9 businesses. The project will create or save four jobs.

**Sjoberg's, Inc.**

**Northwest Minnesota Fiber Project**

**Last Mile**

**\$216,516 Loan**

**\$649,544 Grant**

Sjoberg's, Inc., will offer FTTH broadband service in Roseau, Thief River Falls, and the hamlet of Fox. This project will benefit many small farms located in the "grain belt." Additional video, Internet, and telephone services will be delivered via RFoG technology, while current broadband service will be upgraded to deliver download speeds of 40 Mbps using DOCSIS 3.0. The network will make services available to 227 households, 15 businesses, and 3 anchor institutions. The project will create or save 11 jobs.

### **Wikstrom Telephone Company, Inc.**

#### **Wikstrom NW MN Broadband**

##### **Last Mile**

**\$2,219,581 Loan**

**\$5,179,019 Grant**

Wikstrom Telephone Company, Inc., will implement two distinct types of projects in rural, unserved, and underserved areas in northwest Minnesota. The first project will upgrade the backbone and distribution fiber-optic data networks for broadband in 16 of the rural telephone exchanges that Wikstrom serves. The network will make services available to an unserved area of 182 square miles with 150 households and 573 businesses. The FTTH ADSL2+ network, provisioned for 2,755 customers, will provide speeds of up to 48 Mbps. Key components of the upgrade include installation of 74 miles of fiber-optic cables with GigE service to remote DSLAM cabinets; installation of an upgraded 6 GHz, 150 megabits radio to serve Angle Inlet; and upgrade of microwave service to the northwest Angle/Angle Inlet community and the fiber-optic network to serve the islands in the northernmost part of the contiguous United States, of which most of the land mass is Red Lake Nation Reservation. Also included is an extension of fiber-optic cable to serve the Agassiz National Wildlife Refuge, in cooperation with American Recovery and Reinvestment Act funding for upgrades to its facilities. The second project is to install a GPON 2.4 Gbps FTTH system, with the installation of 414 miles of fiber-optic cable with GigE to 1,163 homes and businesses, in the exchanges of Greenbush and Karlstad, and the small cities of Kennedy, Lake Bronson, Lancaster, and Stephen. The network will make services available to 5,115 households, 1,499 businesses, and 83 anchor institutions. The project will create or save 26 jobs.

### **Winnebago Cooperative Telecom Association**

#### **WCTA 2010 Broadband Initiative**

##### **Last Mile**

**\$1,570,592 Loan**

**\$1,570,592 Grant**

Winnebago Cooperative Telecom Association (WCTA) will provide last-mile, high-speed wireline broadband FTTP to rural areas in north-central Iowa and south-central Minnesota. The infrastructure will support existing rural wireless tower facilities for future growth and bandwidth expansion to 3G and 4G networks and beyond. The project will build on a previously deployed FTTH system. The PFSA serves portions of 21 communities in 5 counties in Iowa and 2 counties in Minnesota. The network will make services available to 541 premises, which include households plus 138 home businesses, and will offer broadband service at combined speeds ranging from 5 Mbps to 25 Mbps. WCTA will also offer digital video and unlimited local voice service. The project will create or save eight jobs.

### **Woodstock Telephone Company, Inc.**

#### **WTC 2010 Broadband Initiative**

##### **Last Mile**

**\$4,555,328 Loan**

**\$10,629,096 Grant**

Woodstock Telephone Company, Inc. (WTC) will provide high-speed broadband service to rural areas in southwest Minnesota. WTC has the opportunity to incorporate and share some existing facilities to help provide feasible service in adjoining underserved areas. WTC will also serve farming areas near small towns. The PFSA covers parts of Lyon, Pipestone, and Rock counties. The PFSA has 15 communities with 3,677 establishments consisting of 3,447 households, 183 businesses, and 47 anchor institutions. WTC will offer a reduced service rate to anchor institutions and small disadvantaged businesses. The project will provide service speeds of 10 Mbps upstream and downstream as basic service and higher speed service at 30 Mbps and 80 Mbps. WTC will deploy a GPON-based FTTP system using a combination of nodes to cost-effectively build the system. An initial deployment of 16-way optical splitters will support an average bandwidth per subscriber of 150 Mbps. Each establishment will be served by a dedicated fiber from the central office or the remote huts housing local active electronic nodes. The project will create or save 41 jobs.

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## MISSISSIPPI

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### **Calhoun City Telephone Company, Inc.**

#### **Calhoun City Telephone Company, Inc.: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$2,962,169 Grant**

Calhoun City Telephone Company, Inc. (Calhoun City Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises in Calhoun City Tel's rural Mississippi service territory. The project will serve five rural PFSA's with six communities. These PFSA's have 586 premises (553 households, 25 businesses, and 8 anchor institutions) with no access to broadband service. Calhoun City Tel is the State-certified ILEC in Mississippi. As engineered, the network will deploy Ethernet-over-copper technology to its fullest potential, provide VDSL2 access devices packaged in an FTTH configuration, upgrade access in the central office to support extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed on the network is 20 Mbps (upstream and downstream combined) or more DSL service. The project will create or save 78 jobs.

### **DigitalBridge Communications Corporation**

#### **Round 2: MS-Panola Last Mile**

##### **Last Mile**

**\$657,833 Loan**

**\$1,973,499 Grant**

DigitalBridge Communications Corporation will offer 4G broadband service to Panola County. This project will deploy fixed and mobile WiMAX technologies to offer broadband service speeds of up to 5 Mbps. The network will make services available to 7,311 households, 1,379 businesses, and 87 anchor institutions. The project will create or save six jobs.

### **Smithville Telephone Company, Inc.**

#### **Smithville Telephone Broadband Program**

##### **Last Mile**

**\$7,110,886 Grant**

Smithville Telephone Company, Inc., the certified ILEC serving rural portions of Itawamba and Monroe counties in northeastern Mississippi, will bring high-speed fiber-optic broadband service to the area. The company's licensed telephone service area includes the town of Smithville, with a population of about 900, and almost 1,300 premises. The PFSA has 298 unserved households in the more remote parts of the rural area. As engineered, the project will build a combination of FTTH and advanced xDSL service. The project will provide GPON technology FTTP broadband service to all 298 unserved rural households and upgrade the existing network in the remaining part of the PFSA to the same capabilities available to all 738 premises in the PFSA. The project will replace the existing voice switch with a softswitch and build a network capable of 100 Mbps broadband speeds that later can be reconfigured to active Ethernet for much higher speeds. The project will create or save 30 jobs.

### **Southeast Mississippi Telephone Company, Inc.**

#### **Southeast Mississippi Telephone Company, Inc.: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,875,204 Grant**

Southeast Mississippi Telephone Company, Inc. (Southeast MS Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. Southeast MS Tel is the State-certified ILEC in Mississippi. The project is designed to serve 10 PFSA in its franchised service territory, which is 100 percent rural and includes 4 communities. These PFSA have 612 premises (595 households, 12 businesses, and 5 anchor institutions) that have no access to broadband service. Southeast MS Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSA. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded at a reasonable cost to meet future needs. The project will create or save 49 jobs.

### **Windstream Corporation**

#### **Windstream Mississippi, LLC**

##### **Last Mile**

**\$1,005,566 Grant**

Windstream Corporation will provide last-mile broadband service to unserved premises in the Prentiss and Rankin rural communities. Windstream will deploy industry-standard DSLAMs using ADSL2+ protocols to provide a minimum of 6 Mbps downstream and 786 Kbps upstream data services. DSLAMs will be strategically deployed to reach the greatest number of unserved customers over the existing wireline copper plant. The network will make services available to 1,153 households, 24 businesses, and 5 anchor institutions. The project will create or save an estimated 28 jobs.

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## **MISSOURI**

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### **Big River Broadband, LLC**

#### **Big River Broadband Project**

##### **Last Mile**

**\$12,191,271 Loan**

**\$12,190,784 Grant**

Big River Broadband, LLC will provide high-speed Internet access to an unserved area in southeast Missouri. The network, which covers 3,409 square miles in 7 counties, will make services available to 44,967 households, 7,511 businesses, and 311 anchor institutions. The project will provide high-speed Internet access (both fixed and mobile) at download speeds of up to 14.4 Mbps and upload speeds of 5.8 Mbps and will deploy a wireless broadband network using Advanced Wireless Services licensed spectrum and high-speed packet access technology. The project will create or save 1,370 jobs.

### **Cass County**

#### **Cass County, MO, Broadband Initiatives Fiber-to-the-Home Project**

##### **Last Mile**

**\$7,802,391 Loan**

**\$18,205,578 Grant**

Cass County will construct a last-mile FTTH network that will extend approximately 1,286 miles to enable broadband service speeds of up to 100 Mbps. The network will make services available to 10,360 households, 710 businesses, and 118 anchor institutions. The project will create or save an estimated 138 jobs.

### **Finally Broadband, LLC**

#### **Southwest Missouri Rural Broadband Initiative**

##### **Last Mile**

**\$499,000 Loan**

**\$499,000 Grant**

Finally Broadband, LLC will provide terrestrial fixed wireless technology to four rural counties in southwest Missouri, two of which are designated as persistent poverty counties. The network will make services available to 45,782 households, 7,484 businesses, and 404 anchor institutions in a 4,563-square-mile area. The project will deploy a Motorola Canopy platform to provide Internet bandwidth over three interconnection points for redundancy. The project will create or save seven jobs.

### **Grand River Mutual Telephone Corporation**

#### **Grand River Mutual Fiber-to-the-Home Broadband Deployment Project – Service Area 1**

##### **Last Mile**

**\$3,418,682 Loan**

**\$7,976,924 Grant**

The Grand River Mutual Telephone Corporation Service Area 1 project will provide broadband service to the town of Lathrop and the surrounding rural areas via an FTTH network. The network will make services available to 1,221 households, 47 businesses, and 12 anchor institutions in the Lathrop area. The project will create or save 21 jobs.

### **Grand River Mutual Telephone Corporation**

#### **Grand River Mutual Fiber-to-the-Home Broadband Deployment Project – Service Area 2**

##### **Last Mile**

**\$12,363,759 Grant**

The Grand River Mutual Telephone Corporation Service Area 2 project will provide broadband service to customers in the towns of Browning, Linneus, Meadville, and Purdin and the surrounding rural areas. The network will make services available to 1,185 households, 773 businesses, and 22 anchor institutions. The project will provide high-speed Internet access over an FTTH system to customers in the PFSAs that include Linn and Sullivan counties. The expanded network will upgrade 459 residential customers and 80 business customers to higher speed service. The project will create or save an estimated 28 jobs.

### **Grand River Mutual Telephone Corporation**

#### **Grand River Mutual Fiber-to-the-Home Broadband Deployment Project – Service Area 3**

##### **Last Mile**

**\$8,970,781 Grant**

The Grand River Mutual Telephone Corporation Service Area 3 project will provide high-speed Internet access over an FTTH system to customers in the PFSAs that include the towns of Denver, Gentry, and New Hampton, and their surrounding rural areas. The network will make services available to 641 households, 371 businesses, and 8 anchor institutions. Active Ethernet or GPON are planned as the access delivery technology and are deployed in other locations in Grand River Mutual's ILEC service area. The company will use connections to the Missouri Network Alliance to provide high-bandwidth Internet connectivity. The project will create or save an estimated 20 jobs.

### **Grand River Mutual Telephone Corporation**

#### **Grand River Mutual Fiber-to-the-Home Broadband Deployment Project – Service Area 5**

##### **Last Mile**

**\$973,001 Loan**

**\$2,270,336 Grant**

The Grand River Mutual Telephone Corporation Service Area 5 project will provide broadband service to the towns of Allerton, Corydon, Lineville, and Millerton, Iowa, and Powersville, Missouri, and their surrounding rural areas. The network will make services available to 320 households, 54 businesses, and 6 anchor institutions along the Iowa-Missouri border. The project will create or save six jobs.

### **Northeast Missouri Rural Telephone Company**

#### **Green City, MO, Fiber-to-the-Premises**

##### **Last Mile**

**\$3,595,810 Loan**

**\$3,595,810 Grant**

Northeast Missouri Rural Telephone Company will construct an FTTP network. This FTTP overbuild will provide greater than 20 Mbps broadband access to households, businesses, and anchor institutions in the Green City telephone exchange. The network will make services available to 972 households, 49 businesses, and 20 anchor institutions. The project will create or save 78 jobs.

### **Northeast Missouri Rural Telephone Company**

#### **Unionville, MO, FTTP Project**

##### **Last Mile Non-remote**

**\$5,140,458 Loan**

**\$5,140,458 Grant**

Northeast Missouri Rural Telephone Company will deploy FTTP infrastructure to provide needed broadband service to households, businesses, and anchor institutions that are underserved in the Unionville Exchange. The network will make services available to 1,437 households, 157 businesses, and 8 anchor institutions. The project will create or save 37 jobs.

### **Orchard Farm Telephone Company**

#### **Orchard Farm Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$604,794 Grant**

Orchard Farm Telephone Company (Orchard Farm Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. Orchard Farm Tel is the State-certified ILEC in Missouri. The project will serve one PFSA in its franchised service territory, which is rural and includes three communities. This PFSA has 142 premises (92 households, 47 businesses, and 3 anchor institutions) that have no access to broadband service. Orchard Farm Tel has already built a broadband network that is capable of serving the majority of the premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSAs. The project will deliver high-speed broadband capabilities of 20 Mbps (upstream and downstream combined). The project will create or save 16 jobs.

### **Ralls County Electric Cooperative**

#### **Ralls County Electric Fiber-to-the-Home Project**

##### **Last Mile Non-remote**

**\$9,548,909 Loan**

**\$9,548,908 Grant**

Ralls County Electric Cooperative will provide a fiber-optic network to residential and commercial members and the underserved anchor institutions in the service area. This is a State of Missouri demonstration project. The network will make services available to 4,594 households, 311 businesses, and 58 anchor institutions. The project will create or save 35 jobs.

### **Socket Telecom, LLC**

#### **Rural Mid-Missouri Fiber-to-the-Premise Project**

##### **Last Mile**

**\$7,120,345 Loan**

**\$16,614,137 Grant**

Socket Telecom, LLC will provide high-speed broadband access to rural mid-Missouri over a fiber-optic network. The PFSA consists of 117 square miles in parts of Fulton City and Callaway County. The network will make services available to 2,728 households, 269 businesses, and 36 anchor institutions. The project is designed as an FTTH broadband infrastructure to provide subscribers with access to telephone, video, and broadband Internet. Broadband service speeds will include 6.0 Mbps and 20 Mbps options. The broadband-over-fiber network will deploy a GPON-based system that will use passive splitters to deliver concurrent signals to multiple users within 20 kilometers of cable footage. The project will create or save 525 jobs.



### **United Electric Cooperative, Inc.**

#### **United Electric Fiber Initiative**

##### **Last Mile**

**\$6,363,933 Loan**

**\$14,849,173 Grant**

United Electric Cooperative will build an advanced last-mile FTTH network capable of delivering high-speed broadband at 100 Mbps to 21 rural communities in northwest Missouri. The cooperative will also add fiber strands to create a dedicated 1G education network to provide rural schools and libraries with increased broadband access. This education intranet, the Cooperative Network for Rural Education Advancement, will open the door to advanced education options through the use of video and shared resources. The network will be an open network model with competing Internet, video, and voice providers offering advanced broadband applications to 4,224 households, 58 businesses, and 150 anchor institutions. The network spans 1,370 miles. Through its partner, Pulse Broadband, United Electric Cooperative will build a passive optical FTTH network on the existing electric distribution right-of-way. Service providers will enter the United Electric Cooperative fiber network through a central SIP controlled by the cooperative. The project will create or save an estimated 113 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Benton WiMAX Project**

##### **Last Mile**

**\$62,433 Loan**

**\$187,298 Grant**

The Utopian Benton WiMAX project will make available advanced 4G wireless broadband service to underserved communities around the Benton area. The PFSA covers approximately 1,105 households, 56 businesses, and 30 anchor institutions. Using licensed 2.5 GHz spectrum, Utopian Wireless Corporation will deploy a broadband wireless system that features Motorola Mobile WiMAX technology. The average minimum downlink speeds for wireless Utopian subscribers will be at least 1.8 Mbps. The project will create or save 11 jobs.

### **Windstream Corporation**

#### **Windstream Missouri, Inc.**

##### **Last Mile**

**\$10,328,319 Grant**

Windstream Corporation will provide last-mile broadband service to numerous unserved rural areas of Missouri. Windstream will deploy industry-standard DSLAMs using ADSL2+ protocols to provide a minimum of 6 Mbps downstream and 786 Kbps upstream data services. DSLAMs will be strategically deployed to reach the greatest number of unserved customers over the existing wireline copper plant. The network will make services available to 4,350 households, 201 businesses, and 39 anchor institutions. The project will create or save an estimated 229 jobs.

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## **MONTANA**

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### **Montana Opticom, LLC**

#### **Gallatin Gateway Broadband Project**

##### **Last Mile**

**\$32,127,322 Loan**

**\$32,000,000 Grant**

Montana Opticom, LLC will build a gateway broadband project to expand high-speed broadband to the rural communities of Belgrade, Bozeman, Gallatin Gateway, Manhattan, and a portion of West Yellowstone. The project is an FTTP infrastructure overbuild that will deploy fiber to a rural area with a population of 18,844, where it has been cost prohibitive to deploy FTTP. The PFSA has 7,746 households, 4,118 businesses, and 58 anchor institutions. The project will offer voice, video, and data services at speeds of up to 100 Mbps. The project will create or save 697 jobs.

### **Nemont Telephone Cooperative, Inc.**

#### **Ft. Peck Reservation FTTP**

##### **Last Mile**

**\$2,599,390 Loan**

**\$23,394,510 Grant**

Nemont Telephone Cooperative, Inc., will deploy an FTTP network to the exchanges of Brockton, Frazer, Froid Rural, North Poplar, North Wolf Point, and Poplar in northeast Montana. The PFSA, entirely in the Ft. Peck Indian Reservation, includes the communities of Brockton, Frazer, Fort Kipp, Homestead, Lustre, Oswego, Poplar, and Volt. This service area is a remote, rural, underserved, and severely economically challenged area. The network will make services available to 3,279 premises. It will also connect 42 anchor institutions, of which 19 are tribal entities, 6 medical and healthcare centers, 7 educational institutions, 4 emergency services, 2 libraries, 11 government facilities, and 12 community support organizations. The project will provide up to 100 Mbps service to all locations and the future capability of up to 1 Gbps service at cost-effective pricing. The project will provide a 100 percent fiber-optic network using Calix GPON equipment. The project will create or save an estimated 283 jobs.

### **Project Telephone Company**

#### **Crow Agency/Lodge Grass FTTP**

##### **Last Mile**

**\$3,887,370 Loan**

**\$11,662,109 Grant**

Project Telephone Company will provide FTTP to all locations within the Crow Reservation exchanges of Crow Agency and Lodge Grass, where more than 50 percent of the locations do not have access to 5 Mbps (upstream and downstream combined). This project will also bring FTTP to all anchor institutions, including the headquarters of the Crow Tribe in Crow Agency. The service will be accessible by each location and delivered by GPON and/or active Ethernet topologies. The network will make services available to 1,495 households, 191 businesses, and 26 anchor institutions. The project will create or save an estimated 169 jobs.

### **Project Telephone Company**

#### **Scott St. Pryor Middle Mile**

##### **Middle Mile**

**\$962,672 Loan**

**\$2,888,015 Grant**

Project Telephone Company will create a fiber-optic transport network that connects the Crow Indian Reservation communities of Fort Smith, Pryor, and Saint Xavier to existing fiber-transport networks in Lockwood, near Billings. This project will also bring FTTP-type services to 26 anchor institutions, including tribal, State, and Federal entities. The infrastructure will allow Project Telephone to link to other backbone providers. This project will promote rural economic development and provide interconnection points to underserved areas. It will also stimulate broadband growth by providing interoffice transport, backhaul, Internet connectivity, and/or special access using fiber. This redundant network is vital in the event of a network outage, such as a fiber cut, in order to keep critical services like public safety operational. The network will make services available to 1,765 households and 493 businesses. The project will create or save 42 jobs.

### **Reservation Telephone Cooperative**

#### **Last Mile Broadband to Rural ND and MT**

##### **Last Mile Non-remote**

**\$2,190,000 Loan**

**\$2,190,000 Grant**

Reservation Telephone Cooperative will deploy FTTH technology to bring affordable and reliable broadband access and video service to underserved rural areas in western North Dakota and eastern Montana communities in and around the Fort Berthold Indian Reservation. These areas include the remote Squaw Gap service area and the partially remote Mandaree, New Town, Parshall, and Roseglen service areas. The network will make services available to 281 households, 8 businesses, and 4 anchor institutions. The project will create or save eight jobs.

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## NEBRASKA

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### Peetz Cooperative Telephone Co.

#### Peetz Last Mile

#### Last Mile Remote

**\$756,925 Grant**

Peetz Cooperative Telephone Co., will deploy broadband infrastructure in and around the Peetz community using a combination of technologies. Anchor institutions within the community will have the connectivity necessary for distance learning and public safety applications. The network will make services available to 254 households, 15 businesses, and 6 anchor institutions. The project will create or save five jobs.

### Southeast Nebraska Communications, Inc.

#### Southeast Nebraska Communications Rural FTTH

#### Last Mile

**\$3,396,895 Loan**

**\$7,888,472 Grant**

Southeast Nebraska Communications, Inc. (SNC) will upgrade its network to alleviate a last-mile bottleneck in its service area in Nebraska and Kansas. The current technology limits average customer throughput and is distance sensitive, which results in the most rural subscribers having less bandwidth access than those closer to town. The PFSA for this project is SNC's entire certificated telephone company service territory. The network will make services available to 1,215 households, 51 businesses, and 22 anchor institutions. The project will upgrade these areas from copper-based facilities and technologies to FTTH and will offer broadband service speeds of a minimum of 3 Mbps downstream and a minimum of 1 Mbps upstream. The FTTH equipment will be standards-based active Ethernet. The project will create or save nine jobs.

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## NEVADA

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### Arizona Nevada Tower Corporation

#### Central Nevada Community Anchor Wireless Backhaul Solution

#### Middle Mile

**\$2,276,650 Loan**

**\$5,312,182 Grant**

Arizona Nevada Tower Corporation will provide middle-mile broadband to enhance existing but limited fiber-optic cable and provide transport where fiber-optic cable is unavailable by using LTE/WiMAX-ready technology. This project will provide microwave radio backbone and a middle-mile system to provide significant bandwidth in 15 areas of Nevada and California. The network will make services available to 12,933 households, 3,422 businesses, and 186 anchor institutions. The project will create or save eight jobs.

### KeyOn Communications, Inc.

#### KeyOn WiMAX Nevada

#### Last Mile

**\$3,054,989 Loan**

**\$7,106,233 Grant**

KeyOn Communications, Inc., will offer 4G last-mile wireless broadband and VoIP in 39 of the most rural communities in Nevada. Using KeyOn's nationwide 3.65 GHz license and the standards-based WiMAX protocol, the network will offer broadband service speeds of up to 8 Mbps. The network will make services available to 37,569 households, 5,522 businesses, and 849 anchor institutions. The project will create or save 30 jobs.

### Reno-Sparks Indian Colony, Inc.

#### Hungry Valley Broadband Initiative

#### Last Mile

**\$400,000 Grant**

Reno-Sparks Indian Colony, Inc., will offer wireless broadband service speeds at a minimum of 5 Mbps to communities in a rural reservation in Hungry Valley. The network will make services available to 162 households, 1 business, and 4 anchor institutions. The project will create or save one job.

### **Rural Telephone Company**

#### **North Fork, Tuscarora, and Jarbidge Service Area Broadband Service Implementation**

##### **Last Mile**

**\$728,700 Loan**

**\$1,700,300 Grant**

Rural Telephone Company will extend ADSL2+ high-speed broadband service to existing and new customers in the Jarbidge, North Fork, and Tuscarora service areas. The network will make services available to 272 households, 104 businesses, and 10 anchor institutions. The project will create or save two jobs.

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## **NEW HAMPSHIRE**

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### **Bretton Woods Telephone Company, Inc.**

#### **Last Mile Remote Area - Bretton Woods, NH**

##### **Last Mile Remote**

**\$985,000 Grant**

The Bretton Woods area lacks broadband service sufficient for the community's needs and commercial applications. Bretton Woods FTTP will provide nearly 40 times faster service than is currently available. Tourism is the primary industry supporting jobs and economic development in the region and broadband access will help keep this industry strong. The network will make services available to 386 households, 19 businesses, and 6 anchor institutions. The project will create or save 11 jobs.

### **Kearsarge Telephone Company**

#### **Kearsarge Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$372,532 Grant**

Kearsarge Telephone Company (Kearsarge Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises in its rural New Hampshire service territory. The project will serve three rural PFSA's. These PFSA's have 116 premises (107 households and 9 businesses) with no access to broadband service. Kearsarge Tel is the State-certified ILEC in New Hampshire. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices packaged in an FTTH configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. The project will create or save 10 jobs.

### **Merrimack County Telephone Company**

#### **Merrimack County Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$2,021,197 Grant**

Merrimack County Telephone Company (Merrimack County Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises in its rural New Hampshire service territory. The project will serve eight rural PFSA's with five communities. These PFSA's have 832 premises (770 households and 62 businesses) with no access to broadband service. Merrimack County Tel is the State-certified ILEC in New Hampshire. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices packaged in an FTTH configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. The project will create or save 53 jobs.

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## NEW MEXICO

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### **Baca Valley Telephone Company, Inc.**

#### **Baca Valley Telephone Last Mile DSL Project**

##### **Last Mile Non-remote**

**\$1,651,000 Loan**

**\$1,586,000 Grant**

Baca Valley Telephone Company, Inc., will deploy a fiber-optic last-mile access system to provide ADSL2+ broadband service to households and businesses in two separate PFSA located in northeast New Mexico. This project will serve subscribers located in Union and Colfax counties, and consists of two service areas: Des Moines and Maxwell. The network will make services available to 373 households, 71 businesses and rural establishments (including farms and ranches), and 20 anchor institutions. The project will create or save 10 jobs.

### **Dell Telephone Cooperative, Inc.**

#### **Dell Telephone Last-Mile DSL project**

##### **Last Mile**

**\$435,500 Grant**

Dell Telephone Cooperative, Inc., will provide high-speed broadband access to subscribers in Bug Scuffle. This rural PFSA is a residential community in southeast New Mexico. The network expansion will use copper-based ADSL2+ technology to provide broadband data and voice service to the 44 households in the PFSA. The project will replace existing legacy Tellabs DLC equipment with next-generation, fiber-fed Occam BLC equipment that is capable of providing service speeds of 4.5 Mbps downstream and 768 Kbps upstream. The project will create or save 18 jobs.

### **Kit Carson Electric Education Foundation, Inc.**

#### **Kit Carson Electric Cooperative Fiber-to-the-Home Project**

##### **Last Mile**

**\$19,130,601 Loan**

**\$44,638,070 Grant**

Kit Carson Electric Cooperative (KCEC) will build an open-access FTTH fiber-optic network in the unserved and underserved counties of Colfax, Rio Arriba, and Taos in northern New Mexico. Two of the counties are among New Mexico's 12 designated persistent poverty counties. The PFSA include 29 communities comprising an estimated 20,458 households, 3,647 businesses, 183 anchor institutions, and 2 Native American pueblos in a 2,951-square-mile rural underserved area. The network spans 2,400 miles. KCEC will build and operate an FTTH network capable of at least 100 Mbps for residential service and 1 Gbps broadband service for anchor institutions. KCEC will use this project to build an FTTH network along the existing electric distribution right-of-way to enable smart grid/green grid technologies. The smart-grid functionality can handle intermittent power from renewable energy sources and help customers track and manage their real-time energy consumption. The fiber network will provide the backbone for deploying smart meters at residential and commercial sites so consumers can use broadband to set up home area networks capable of supporting smart appliances and time-shifting peak-demand strategies. The investment in the fiber network will be leveraged to tie together regional power substations and the operations center. KCEC is also working with the Taos Pueblo tribal government to build fiber into that community to provide affordable broadband access for tribal anchors and members. The project will create or save an estimated 333 jobs.

### **La Jicarita Rural Telephone Cooperative**

#### **Broadband Services to Mora County, NM**

##### **Last Mile**

**\$3,557,050 Loan**

**\$8,299,782 Grant**

La Jicarita Rural Telephone Cooperative will offer full fiber capabilities to rural establishments with broadband service speeds of up to 18 Mbps. This last-mile project, along with a middle-mile component, will allow the company to provide affordable higher speed last-mile service to a majority of its subscriber base who otherwise would go underserved. The network will make services available to 1,384 households, 41 businesses, and 8 anchor institutions. The project will create or save 48 jobs.

### **Peñasco Valley Telephone Cooperative, Inc.**

#### **PVT ILEC**

##### **Last Mile Non-remote**

**\$4,818,607 Loan**

**\$4,770,660 Grant**

Peñasco Valley Telephone Cooperative, Inc., will deliver high-speed broadband service to unserved areas in its ILEC territory. The project will deploy fiber and electronics to allow for broadband service offerings to customers who are unable to access DSL, include wireless capabilities for difficult-to-reach areas, and provide for additional fiber capacity. The network will make services available to 1,871 households and 6 businesses.

### **Pueblo de San Ildefonso**

#### **TewaCom Broadband Initiative (TBI), Phase 1 - Upper Rio Grande Valley**

##### **Last Mile Non-remote**

**\$632,225 Loan**

**\$632,225 Grant**

San Ildefonso Pueblo is a partner in the Northern New Mexico Regional Economic Development Initiative, which will deploy a regional open network. The network will support the multiple purposes of economic development, education, healthcare, and sustainable energy development, and will make services available to 2,405 households, 35 businesses, and 23 anchor institutions. The project will create or save 10 jobs.

### **Windstream Corporation**

#### **Valor Telecommunications of Texas 310**

##### **Last Mile**

**\$2,273,847 Grant**

Windstream Corporation will extend its broadband network to provide service to unserved homes and businesses in the areas of Chimayo, Dixon, Peñasco, Rio Chama, Ruidoso, South Rio Arriba, Tierra Amarilla, Truth or Consequences, and Vallecitas. The project will use industry-standard ADSL2+ protocols that will offer broadband service speeds of up to 12 Mbps. The network will make services available to 3,999 households, 56 businesses, and 2 anchor institutions. The project will create or save an estimated 29 jobs.

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## **NEW YORK**

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### **Castle Cable TV, Inc.**

#### **Castle Cable TV Broadband Project**

##### **Last Mile**

**\$3,584,280 Loan**

**\$3,584,279 Grant**

Castle Cable TV, Inc., will extend broadband and other advanced telecommunications services through several communities in Jefferson and St. Lawrence counties, making services available to 2,321 households, 217 businesses, and 12 anchor institutions. The project will deploy FTTH wireline technology, update access in the head-end necessary to support the extension of the broadband network to these areas, and utilize a configuration that will allow for future PON upgrades without having to rebuild the transport routes. In addition, through its subsidiary Citizens Cablevision, Castle Cable TV will provide the same service to Morristown and the community of Brier Hill in rural Morristown Township along the St. Lawrence River. The project will create or save 11 jobs.

### **Deposit Telephone Company, Inc.**

#### **Deposit Telephone Company, Inc.: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$3,018,085 Grant**

Deposit Telephone Company, Inc. (Deposit Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in Deposit Tel's rural franchise service territory. Deposit Tel is the State-certified ILEC in New York. The project will serve six PFSA in its franchised service territory, which is 100 percent rural and includes six communities. These PFSA have 1,140 premises (1,069 households and 71 businesses) that have no access to broadband service. Deposit Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area, much of which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSA. This project will bring access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded at a reasonable cost to meet future needs. The project will create or save 80 jobs.

### **Mid-Hudson Cablevision, Inc.**

#### **Last-Mile High Speed Broadband in Greene and Columbia Counties**

##### **Last Mile**

**\$2,987,570 Grant**

Mid-Hudson Cablevision, Inc., will provide high-speed broadband access to seven unserved and underserved PFSA in the Hudson Valley and Catskill Mountain region between New York City and Albany. The network will make services available to 7,186 households, 2,586 businesses, and 97 anchor institutions and will complete part of the region's 911 public safety infrastructure. The last-mile extensions will require construction of 135 linear miles of FTTH on existing utility poles and connection for a network of five fire towers. Another 341-square-mile area will be reached by deploying 16 transmitting sites for wireless. The PFSA also cover four underserved communities, including Greene County. Mid-Hudson will deploy more than 16 transmitting sites using Motorola Canopy equipment to provide access speeds of 10 Mbps in line-of-sight areas and 4 Mbps in dense foliage. The project will create or save 59 jobs.

### **Port Byron Telephone Company, Inc.**

#### **Port Byron Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$639,218 Grant**

Port Byron Telephone Company, Inc. (Port Byron Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in Port Byron Tel's rural franchise service territory. Port Byron Tel is the State-certified ILEC in New York. The project is designed to serve three PFSA in its franchised service territory, which is 100 percent rural and includes two communities. These PFSA have 166 premises (160 households and 6 businesses) that have no access to broadband service. Port Byron Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area, which is sparsely populated, lacks broadband access due to the high cost of building such a network. In addition, facilities-based terrestrial broadband service is unavailable to the premises in the PFSA. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded at a reasonable cost to meet future needs. The project will create or save 17 jobs.

### **St. Regis Mohawk Tribe**

#### **St. Regis Mohawk Tribe Connect (Economic Development for the 21st Century)**

##### **Last Mile**

**\$528,125 Loan**

**\$10,034,392 Grant**

The St. Regis Mohawk Tribe will bring a last-mile fiber-optic network to its tribal lands in north-central New York. This project will link 68 miles of fiber network to the Open Access Telecommunications Network of the Development Authority of North Country, to ION Incorporated Network, and to Nicholville's network. The network will make services available to 1,500 households, 200 businesses, and 42 anchor institutions. The project will create or save an estimated 784 jobs.

### **Slic Network Solutions, Inc.**

#### **Franklin County, NY, Broadband Initiative**

##### **Last Mile Remote**

**\$1,066,000 Loan**

**\$4,262,642 Grant**

Slic Network Solutions, Inc., will construct 136 miles of fiber-optic cable to deliver advanced broadband service in western Franklin County. The network will provide voice and IPTV services over the same facilities. The network will make services available to 6,508 households, 29 businesses, and 10 anchor institutions. The project will create or save 10 jobs.

### **Slic Network Solutions, Inc.**

#### **St. Lawrence Broadband Initiative**

##### **Last Mile**

**\$6,958,193 Loan**

**\$20,874,574 Grant**

Slic Network Solutions, Inc., will construct 660 miles of fiber-optic cable in 10 PFSAs to make services available to 5,856 households, 112 businesses, and 30 anchor institutions in St. Lawrence County. The PFSAs can be separated into two groups: the northern and southern serving areas. The northern group consists of Flackville, Knapps Station, Pierrepont, Slab City-Crary Mills, Southville, and St. Lawrence North. These service areas in the northern part of the county cover 414 square miles of primarily agricultural areas. The southern group includes communities along the New York State Route 3 corridor, including Star Lake, Wanakena, Cranberry Lake, and Piercefield, which are in the towns of Fine, Clifton, and Piercefield. All have been chronically unserved because of their isolated location in the foothills of the Adirondacks. Broadband service is currently unavailable to the residents of these communities. Slic Network Solutions will deploy a 100 percent fiber-optic network using Occam GPON equipment. The company will use infrastructure obtained through its round one BIP award. The project will create or save 67 jobs.

### **Windstream Corporation**

#### **Windstream New York, Inc. 26**

##### **Last Mile**

**\$855,901 Grant**

Windstream Corporation will offer broadband service speeds of up to 12 Mbps in Clymer, Columbus, Ellery, French Creek, Mina, and Sherman by deploying industry-standard DSLAMs with ADSL2+. The network will make services available to 571 households, 8 businesses, and 8 anchor institutions. The project will create or save 53 jobs.

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## **NORTH CAROLINA**

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### **Atlantic Telephone Membership Corporation**

#### **Columbus County ACCESS (Advanced Connectivity for Communities, Education, Safety and Support)**

##### **Last Mile**

**\$4,801,025 Loan**

**\$11,202,393 Grant**

Atlantic Telephone Membership Corporation (ATMC) will implement the Columbus County ACCESS project to deploy FTTH to all premises in the PFSA. The project will serve a rural, 185-square-mile area near the eastern boundary of Columbus and Brunswick counties in the southeastern part of the State. The network will make services available to 3,641 households, 274 small businesses, and 35 anchor institutions to provide them with access to high-speed broadband service with speeds from 1.5 Mbps to 5.0 Mbps. The project will leverage ATMC's existing 10 GigE core backbone, backhaul, and IP connections through interconnection to a GigE fiber ring to be deployed in the PFSA. The FTTP network will use GPON network gear. The project will create or save 87 jobs.



### **Country Cablevision, Inc.**

#### **Yancey Mitchell Rural Broadband**

##### **Last Mile**

**\$6,324,250 Loan**

**\$18,972,750 Grant**

Country Cablevision, Inc., will deliver digital TV, data, and VoIP to all customers in Mitchell and Yancey counties. The PFSA's lie in the Appalachian Mountains of western North Carolina, bordering the Tennessee line. The project will install an FTTH broadband system delivering RFoG. The project will update and expand the company's operating system to enable high-speed broadband access at speeds of up to 20 Mbps to make services available to 14,029 households, 1,963 businesses, and 123 anchor institutions. The project will create or save 22 jobs.

### **French Broad Electric Membership Corporation**

#### **French Broad Electric BPL Project**

##### **Last Mile**

**\$621,492 Loan**

**\$1,154,200 Grant**

French Broad Electric Membership Corporation (FBEMC) will provide broadband Internet access to Beech Glenn, Laurel, and Spring Creek, and the areas of Marshall and Mars Hill. The technology used in this project includes fiber-optic communications as the middle-mile backhaul link and BPL as the last-mile medium to provide service to subscribers. FBEMC chose this technological combination because it can use existing infrastructure to deploy the system and minimize project cost. The network will make services available to 1,016 households, 699 businesses, and 6 anchor institutions. The project will create or save 33 jobs.

### **Lumbee River Electric Membership Corporation**

#### **Lumbee River EMC Broadband Economic Development Initiative**

##### **Last Mile**

**\$4,986,935 Loan**

**\$14,960,804 Grant**

Lumbee River Electric Membership Corporation will provide high-speed broadband access in southern North Carolina. The project will offer voice, video, and data services on an active GPON network using fiber-optic cable and passive and active components. The FTTH last-mile project will provide broadband service speeds of 100 Mbps or higher and will make services available to 11,384 households, 1,634 businesses, and 95 anchor institutions. The company will own and operate the fiber network while partnering with Innovative Communications, Inc., to provide all customer service functions. The project will create or save 51 jobs.

### **Skyline Telephone Membership Corporation**

#### **High Country Fiber**

##### **Last Mile**

**\$7,739,073 Loan**

**\$18,057,838 Grant**

Skyline Telephone Membership Corporation will substantially expand the provision of advanced FTTH services via a fiber-optic network with combined speeds exceeding 20 Mbps to 6,019 households, 521 businesses, and 84 anchor institutions in Alleghany and Ashe counties in rural northwestern North Carolina. The project will create or save 85 jobs.

### **Tri-County Telephone Membership Corporation**

#### **TriCounty Telecom FTTP Project**

##### **Last Mile**

**\$3,536,805 Loan**

**\$10,610,410 Grant**

Tri-County Telephone Membership Corporation will offer broadband service using FTTP technology in northeast Beaufort County and parts of Hyde and Washington counties. This project will deploy a GPON network with the inherent capability to deliver broadband service speeds of 80 Mbps. The network will make services available to 4,312 households, 889 businesses, and 32 anchor institutions. The project will create or save 77 jobs.

## Utopian Wireless Corporation

### Utopian Riegelwood WiMAX Project

#### Last Mile

**\$115,249 Loan**

**\$345,744 Grant**

The Utopian Riegelwood WiMAX project will make available advanced 4G wireless broadband service to underserved communities in and around Riegelwood. The rural PFSA includes part of Columbus County, and covers an estimated 1,255 households, 452 businesses, and 32 anchor institutions. Using 2.5 GHz spectrum, Utopian will deploy a broadband wireless system that features Motorola Mobile WiMAX technology. The project will create or save 10 jobs.

## Wilkes Telecommunications, Inc.

### Wilkes Stimulus Project

#### Last Mile

**\$6,483,300 Loan**

**\$15,127,700 Grant**

Wilkes Telephone Membership Corporation, Inc., will provide last-mile, high-speed broadband to rural portions of Wilkes County in 10 underserved PFSAs. The PFSAs comprise 630 square miles. The fiber-optic upgrade will provide higher speed broadband service to many households, businesses, and anchor institutions, plus voice and video services. The network will make services available to 3,680 households, 3,358 businesses, and 45 anchor institutions. The project will create or save 160 jobs.

## Yadkin Valley Telephone Membership Corporation

### Yadkin Valley Rural FTTH

#### Last Mile

**\$10,834,116 Loan**

**\$10,834,116 Grant**

Yadkin Valley Telephone Membership Corporation will deploy 496 miles of high-capacity, last-mile FTTH service in rural North Carolina. The seven PFSAs comprise small, sparsely populated communities with no high-speed access that are in critical need of sustained economic development and support for anchor institutions. The network will make services available to 5,121 households, 606 businesses, and 56 anchor institutions. The project will deploy GPON FTTH to provide 65 Mbps of bandwidth per premise, with up to 1 Gbps of Ethernet service. The area has the potential to become a medical records processing hub. The project will create or save 57 jobs.

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## NORTH DAKOTA

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## BEK Communications Cooperative

### Rural Burleigh County, ND, FTTP

#### Last Mile Non-remote

**\$2,016,571 Loan**

**\$1,986,473 Grant**

BEK Communications Cooperative will deploy last-mile technology to provide FTTP broadband service to underserved homes and anchor institutions in rural Burleigh County. This will aid business growth and support public safety facilities in rural areas. The network will make services available to 542 households and 2 anchor institutions. The project will create or save nine jobs.

## Consolidated Enterprises, Inc.

### CEI Broadband Infrastructure Project

#### Last Mile

**\$5,782,361 Loan**

**\$5,782,361 Grant**

Consolidated Enterprises, Inc. (CEI) will serve two PFSAs in rural Belfield and Dickinson, western North Dakota. The project is an FTTH expansion to CEI's existing fixed-wireless data system in those areas. CEI will build fiber to the least populated areas of those communities where it has been cost-prohibitive to deploy FTTH and DSL. CEI will build out its facilities to make services available to 1,421 households in the PFSAs and 231 businesses and will provide voice and video, as well as data services at speeds of up to 100 Mbps. The project will create or save 25 jobs.

## Dakota Central Telecom I – Streeter and Gackle

### Dakota Central Telecom I – Streeter and Gackle

#### Last Mile Remote

**\$2,252,250 Grant**

Dakota Central Telecom I will provide FTTP broadband service to households, businesses, and anchor institutions in portions of the Streeter and Gackle exchanges that are remote, rural, and unserved. The network will make services available to 221 households, 5 businesses, and 4 anchor institutions. The project will create or save nine jobs.

### **Griggs County Telephone Co.**

#### **Griggs County/Moore & Liberty Broadband Development**

##### **Last Mile**

**\$5,524,010 Loan**

**\$16,572,031 Grant**

Griggs County Telephone Co. will provide last-mile FTTH technology for broadband access and voice, video, and data services to underserved rural areas in eastern North Dakota. The area is a designated Griggs-Steele Empowerment Zone because of the out-migration, poverty, and unemployment rates. This project will build facilities to extend video and data services at speeds of up to 100 Mbps. The two Griggs County PFSAs encompass four communities and portions of five rural counties. Griggs County will also provide service to the rural portions of two exchanges in other counties. The Moore & Liberty PFSA includes two communities and portions of three counties. The network will make services available to 1,787 households, 406 businesses, and 17 anchor institutions. The project will create or save 248 jobs.

### **Halstad Telephone Company**

#### **HTC Hillsboro ND Rural FTTP**

##### **Last Mile Non-remote**

**\$2,027,600 Loan**

**\$2,027,600 Grant**

The Halstad Telephone Company will deploy FTTP broadband Internet and video service to 410 locations in rural Hillsboro, North Dakota, utilizing 283 miles of fiber-optic cable and providing those locations with a broadband capability of 100 Mbps. The network will make services available to 399 households, 10 businesses, and 1 anchor institution. The project will create or save one job.

### **Halstad Telephone Company**

#### **HTC Hillsboro ND Town Broadband**

##### **Last Mile Non-remote**

**\$246,500 Loan**

**\$246,500 Grant**

The Halstad Telephone Company project will install electronic enhancements to existing DSL service to increase broadband capability to 100 Mbps for Internet and video service in the town of Hillsboro, North Dakota. The network will make services available to 736 households, 75 businesses, and 25 anchor institutions. The project will create or save three jobs.

### **Inter-Community Telephone Company, Inc.**

#### **ICTC FTTH Upgrade**

##### **Last Mile**

**\$713,289 Loan**

**\$1,625,362 Grant**

Inter-Community Telephone Company, a local exchange carrier based in Nome, will implement a last-mile fiber project to make broadband available in three small, underserved rural communities—Hope, Sanborn, and Tower City—in the counties of Barnes, Cass, and Steele, respectively, in east-central North Dakota. The network will make services available to an estimated 412 premises. This project includes improvement and connectivity for businesses and anchor institutions. The project will implement broadband through FTTH with speeds of up to 100 Mbps. The project will create or save 32 jobs.

### **Red River Rural Telephone Association, Inc.**

#### **RRT FTTP Broadband Upgrade Rural MN, ND, and SD Exchanges**

##### **Last Mile**

**\$4,362,450 Loan**

**\$4,362,450 Grant**

Red River Rural Telephone Association, Inc., will offer FTTP broadband service speeds of up to 100 Mbps. The project will install 690 miles of fiber-optic cable to serve six rural exchanges in Ransom, Richland, and Sargent counties in North Dakota, as well as Wilkin County in Minnesota, and Marshall and Roberts counties in South Dakota. The network will make services available to 996 households, 219 businesses, and 6 anchor institutions. The project will create or save 106 jobs.

### **Reservation Telephone Cooperative**

#### **Last Mile Broadband to Rural ND and MT**

##### **Last Mile Non-remote**

**\$8,760,000 Loan**

**\$8,760,000 Grant**

Reservation Telephone Cooperative will deploy FTTH technology to bring affordable and reliable broadband access and video service to underserved rural areas in western North Dakota and eastern Montana, including the Fort Berthold Indian Reservation. These areas include the Squaw Gap service area and the Mandaree, New Town, Parshall, and Roseglen service areas. The network will make services available to 1,124 households, 31 businesses, and 18 anchor institutions. The project will create or save 33 jobs.

### **SRT Communications, Inc.**

#### **FTTP for the Rural North Dakota Community of Metigoshe**

##### **Last Mile**

**\$2,214,758 Loan**

**\$2,214,758 Grant**

SRT Communications, Inc., will provide broadband to subscribers served by the Metigoshe exchange. The project will provide broadband service to towns and rural subscribers within the PFSA. Utilizing fiber-optic cable, the project will allow SRT to provide more than 20 Mbps broadband access to 445 households, 2 businesses, and 218 anchor institutions. The project will create or save 72 jobs.

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## **OHIO**

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### **Benton Ridge Telephone Company**

#### **Benton Ridge Telephone Company Broadband Expansion Project - Benton Ridge**

##### **Last Mile Non-remote**

**\$1,611,124 Loan**

**\$1,547,942 Grant**

The Benton Ridge Telephone Company will deploy an FTTH system in the Benton Ridge exchange of south central Ohio. The system will provide a dedicated fiber-optic connection for each customer. The network will make services available to 510 households, 19 businesses, and 1 anchor institution. The project is expected to create or save 34 jobs.

### **Consolidated Electric Cooperative, Inc.**

#### **North Central Ohio Rural Fiber Optic Network**

##### **Middle Mile**

**\$1,399,499 Loan**

**\$1,034,413 Grant**

Consolidated Electric Cooperative, Inc., will construct an open-connectivity fiber-optic backbone network. This middle-mile project is integral to a smart grid initiative and broadband service that will bring urban connectivity to rural Ohio. The network will make services available to 35,708 households, 2,002 businesses, and 49 anchor institutions.

### **Hometown Cable Company, LLC**

#### **Unincorporated Areas of Darke/Preble County Network**

##### **Last Mile**

**\$2,359,926 Loan**

**\$2,267,380 Grant**

Hometown Cable Company, LLC will deploy a wireless wide area network with fixed and mobile broadband service throughout Darke and Preble counties. The network will make services available to 19,664 households, 522 businesses, and 206 anchor institutions. The project will create or save 31 jobs.

### **Intelliwave, LLC**

#### **The Athens, Fairfield, and Pickaway County, Ohio, Rural Broadband Initiative**

##### **Last Mile Non-remote**

**\$1,162,599 Loan**

**\$1,116,997 Grant**

Intelliwave, LLC will leverage Recovery Act funds to deliver wireless broadband and VoIP phone service to underserved rural communities in Athens, Fairfield, and Pickaway counties. The network will make services available to 11,428 households, 431 businesses, and 73 anchor institutions. The project will create or save seven jobs.

### **Nelsonville TV Cable, Inc.**

#### **Nelsonville TV Cable HFC Broadband Addition**

##### **Last Mile**

**\$1,391,452 Loan**

**\$3,246,721 Grant**

Nelsonville TV Cable, Inc., will expand its HFC broadband to reach approximately 1,500 unserved rural homes in a persistent poverty area of southeastern Ohio. The project will expand the company's network into 14 unserved, noncontiguous, and isolated communities. The PFSAs range from less than 1 square mile up to 12 square miles each. The PFSAs include parts of 10 communities in 3 counties. The network will pass 1,461 households, 3,295 businesses, and 44 anchor institutions. The project will add a digital HFC network that provides high-speed Internet access speeds of 5.5 Mbps downstream and 650 Kbps upstream. The project will expand the network from its head-end to area nodes, requiring new equipment in addition to 120 new miles of fiber and 80 miles of coax cable. The new cable will be 100 percent aerial, using existing rights-of-way and utility poles. The project will create or save 20 jobs.

### **New Era Broadband, LLC**

#### **Meigs County Broadband Infrastructure Project for Advancement of Rural Economic Development**

##### **Last Mile**

**\$738,733 Loan**

**\$2,216,196 Grant**

New Era Broadband, LLC will provide last-mile infrastructure to provide fixed P2MP wireless broadband service in Meigs County in Appalachia. Forty-four percent of the households in the State that are unserved by broadband are in Appalachian Ohio, which is a contributing factor in the ranking of Meigs County as one of the five poorest counties in the State. The project will provide broadband Internet service to a PFSA of approximately 266 square miles, comprising 3,386 unserved households, 165 unserved businesses, and 6 unserved anchor institutions. New Era will offer wireless broadband and VoIP, with minimum network speeds of 768 Kbps downstream and 200 Kbps upstream, as well as 3 Mbps combined speeds in qualified areas. The project will create or save 200 jobs.

### **Southern Ohio Communication Services, Inc.**

#### **Southern Ohio Underserved Rural Broadband Build**

##### **Last Mile**

**\$738,705 Loan**

**\$709,736 Grant**

Southern Ohio Communication Services, Inc., will build a project in Appalachia. It will make broadband Internet and VoIP services available to 6,126 premises, the majority of which have no broadband service available. Adams and Pike counties will be served. In addition, the project will offer 3 Mbps upstream and 2 Mbps downstream service to the entire population in the company's service areas. The company will offer voice services through a wireless signal along with broadband data service to residential, business, and anchor institution customers. The company will add tower locations to the current network and upgrade some backhaul links to higher capacity service. The project will create or save 400 jobs.

### **Sycamore Telephone Company, Inc.**

#### **Sycamore FTTH**

##### **Last Mile**

**\$1,452,310 Loan**

**\$2,697,145 Grant**

Sycamore Telephone Company, Inc., will build a fiber network in a rural PFSA to provide high-speed Internet service in the community of Sycamore Village and the villages of McCutchenville and Melmore. The technology will be over dark fiber to households and splitters will be in the central and two remote offices to implement GPON technology. The remaining remote locations will be upgraded with fiber feeds to allow bandwidth upgrade to GigE. This will provide DSL speeds from 8 to 20 Mbps. The project will serve 1,769 households, 450 businesses, and 14 anchor institutions. In the areas outside the villages, fiber will be placed to the existing DSL terminals, allowing the company to provide broadband speeds of over 5 Mbps to the subscribers throughout its exchange. The project will create or save 24 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Kinsman WiMAX Project**

##### **Last Mile**

**\$348,926 Loan**

**\$1,046,778 Grant**

The Utopian Kinsman WiMAX project will make available advanced 4G wireless broadband service to underserved communities in and around the Kinsman area. The rural PFSA covers approximately 2,909 households, 543 businesses, and 27 anchor institutions. Using licensed 2.5 GHz spectrum, Utopian will deploy a broadband wireless system that features Motorola Mobile WiMAX technology. The system solution includes WiMAX access points, wireless and wired backhaul, ASN-GW, CSN, and an IP core that supports authentication and routing of traffic to application servers and the Internet. The project will create or save 12 jobs.

### **Wabash Mutual Telephone Company**

#### **Wabash Mutual Telephone Company, Fort Recovery Area FTTH Project**

##### **Last Mile Non-remote**

**\$2,201,042 Loan**

**\$2,174,787 Grant**

The Wabash Mutual Telephone Company will install an optical fiber network in its service area and will provide an advanced technology, allowing digital television, high-speed Internet at speeds in excess of 3 Mbps, and telephone services. The network will make services available to 938 households, 103 businesses, and 7 anchor institutions. The project will create or save six jobs.

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## **OKLAHOMA**

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### **Atlink**

#### **Last Mile Broadband Infrastructure for Unserved, Rural Oklahoma Communities**

##### **Last Mile**

**\$2,649,681 Loan**

**\$5,897,676 Grant**

Atlink will connect 14 Oklahoma towns that are chronically unserved and suffering from persistent poverty and unemployment. The project will deliver advanced tornado warnings and provide options for Federal and State assistance. The project includes infrastructure for high-speed access up to 10 Mbps to 1,660 households, 1,404 businesses, and 6 anchor institutions. The project will deploy a wireless architecture using equipment in multiple frequencies to reach the maximum number of unserved households. The project is expected to create or save 53 jobs.

### **Cimarron Telephone Company**

#### **Operation Slingshot Cimarron Telephone Company**

##### **Last Mile**

**\$21,189,659 Loan**

**\$21,189,658 Grant**

Cimarron Telephone Company will implement an FTTH project to bring wireless broadband service to underserved rural portions of Creek, Osage, and Pawnee counties to serve 15 Oklahoma communities and surrounding rural areas. Portions of the project will serve Native American tribal lands, including the Creek, Osage, and Seminole Nations, and Pawnee Tribe of Oklahoma. The project will make services available to 8,966 households, 933 businesses, and 35 anchor institutions. The broadband system will include a portion of the network for FTTH based on the ITU-T G.984 Gigabit PON standard. The project will create or save 65 jobs.

### **Cross Telephone Co.**

#### **OBI-2 (Oklahoma Broadband Initiative-Area 2)**

##### **Last Mile**

**\$8,796,980 Loan**

**\$8,796,980 Grant**

Cross Telephone Co., will offer FTTH and wireless broadband service speeds of up to 11 Mbps to underserved areas of 6 counties in Oklahoma. The network will serve portions of 3 Native American tribal lands, as well as 20,771 households, 4,183 businesses, and 111 anchor institutions. The project will create or save an estimated 63 jobs.

### **Medicine Park Telephone Company**

#### **Fiber-to-the-Home Project in the Rural Area of Meers in Comanche County, Oklahoma**

##### **Last Mile**

**\$101,218 Loan**

**\$303,488 Grant**

Medicine Park Telephone Company will offer broadband service using a GPON FTTH network in the Meers community in rural and remote areas of Comanche County. This project will provide broadband service speeds of 2.4 Gbps downstream and 1.2 Gbps upstream. The network will make services available to 114 households, 3 businesses, and 6 anchor institutions. The project will create or save seven jobs.

### **Medicine Park Telephone Company**

#### **Sterling Oklahoma to Scotland Texas Rural Fiber Optic Route**

##### **Middle Mile**

**\$1,198,587 Loan**

**\$1,193,802 Grant**

Medicine Park Telephone Company will offer broadband service using an FTTP network between Sterling, Oklahoma, and Scotland, Texas, with service speeds between 155 Mbps and 10 Gbps. The network will make services available to 1,524 households and 22 anchor institutions. The project will create or save 30 jobs.

### **Mid-America Telephone, Inc.**

#### **Mid-America Telephone, Inc.: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,143,784 Grant**

Mid-America Telephone Company, Inc. (Mid-America Tel), a subsidiary of TDS Telecom, will deliver high-speed broadband service to unserved premises in its rural Oklahoma service territory. Mid-America Tel is the State-certified ILEC in Oklahoma. The project will reach 4 PFSA's that include 2 communities with 310 premises (286 households and 24 businesses) with no access to broadband service. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow future PON upgrades without needing to rebuild the transport routes. The network will provide 20 Mbps (upstream and downstream combined) or more DSL service. This project will create or save 30 jobs.

### **Oklahoma Communication Systems, Inc.**

#### **Oklahoma Communication Systems, Inc.: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$3,570,745 Grant**

Oklahoma Communication Systems, Inc. (OCSI), a subsidiary of TDS Telecom, will provide high-speed broadband service to 11 PFSA's that include 8 communities. These PFSA's have 912 premises (877 households, 34 businesses, and 1 anchor institution) with no access to broadband service. OCSI is the State-certified ILEC in Oklahoma. The project will provide DSL broadband capability to unserved rural premises and deliver broadband high-speed capabilities of 20 Mbps (upstream and downstream combined). The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without having to rebuild the transport routes. The project will create or save 94 jobs.

**Panhandle Telephone Cooperative, Inc.**

**Western OK BB Infrastructure Development**

**Last Mile Non-remote**

**\$3,366,188 Loan**

**\$10,098,562 Grant**

Panhandle Telephone Cooperative, Inc., will build out broadband infrastructure for rural areas within the western Oklahoma panhandle. A portion of this project will also be implemented in Texas. The network will make services available to 1,289 households, 76 businesses, and 16 anchor institutions. The project is expected to create or save 55 jobs.

**Pine Telephone Company, Inc.**

**Broadband Grant for Isolated Southeastern Oklahoma/Choctaw Nation - Rural/Remote Areas**

**Last Mile Remote**

**\$9,482,316 Grant**

Pine Telephone Company, Inc., will use innovative wireless technology to deliver broadband service to rural, remote, and economically disadvantaged areas of southeastern Oklahoma—within the Choctaw Nation—to create economic growth and jobs, enhance education and healthcare, and improve public safety. The network will make broadband services available to 4,996 households, 84 businesses, and 31 anchor institutions. The project will create or save 159 jobs.

**Pine Telephone Company, Inc.**

**Last Mile Broadband for Isolated Rural Southeastern Oklahoma/Choctaw Nation - Area 2**

**Last Mile**

**\$2,926,329 Loan**

**\$6,828,101 Grant**

Pine Telephone Company, Inc., will offer 3G universal mobile broadband service in Coal, Latimer, Le Flore, and Pittsburg counties, within the Choctaw Nation, in southeast Oklahoma. The network will make broadband services available to 2,968 households, 107 businesses, and 26 anchor institutions. The project will create or save 20 jobs.

**Pine Telephone Company, Inc.**

**Last-Mile ILEC Fiber-to-the-Home for Isolated Rural Southeastern Oklahoma/Choctaw Nation**

**Last Mile**

**\$15,081,959 Loan**

**\$15,081,958 Grant**

Pine Telephone Company, Inc., will provide rural Oklahoma subscribers with services typically available in only the most urban areas of the country. In addition to enabling data rates of up to 40 Mbps, the network will enable video delivery via affiliate head-end facilities. Wireless microwave backhaul will be used in some extremely rugged portions of the network. A soft switch will enable the company to convert subscribers to VoIP, further enhancing network utilization. In addition, the network will provide backhaul for the wireless network of Easygrants 1257 awarded in round one. The network will make services available to 5,414 households, 544 businesses, and 80 anchor institutions. The project will create or save 83 jobs.

**Pioneer Long Distance, Inc.**

**WOW Western Oklahoma Wireless**

**Last Mile Non-remote**

**\$1,819,349 Loan**

**\$1,783,322 Grant**

Pioneer Long Distance, Inc., will provide wireless broadband service to unserved and underserved rural areas of western Oklahoma. The network will make services available to 21,472 households, 2,063 businesses, and 291 anchor institutions. The project will create or save 14 jobs.

**Pioneer Telephone Cooperative, Inc.**

**Pioneer Tel FTTH Rural Broadband Initiative**

**Last Mile**

**\$10,958,906 Loan**

**\$24,971,934 Grant**

Pioneer Telephone Cooperative, Inc., will offer FTTH broadband service speeds of up to 20 Mbps to remote areas within 76 western Oklahoma telephone exchange boundaries. The network will make services available to 3,952 households, 160 businesses, and 5 anchor institutions. The project will create or save 204 jobs.



### **Totah Communications, Inc.**

#### **Totah Broadband Expansion Project**

##### **Last Mile Non-remote**

**\$2,426,053 Loan**

**\$1,830,180 Grant**

Totah Communications, Inc., will upgrade existing copper-fed DSL nodes to fiber-fed DSL nodes. This project will also install additional fiber-fed DSL nodes throughout the service area. The route will cover 152 miles and will serve approximately 800 new customers. The network will make services available to 422 households, 9 businesses, and 8 anchor institutions. The project is expected to create or save 25 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Prague WiMAX Project**

##### **Last Mile**

**\$66,139 Loan**

**\$198,418 Grant**

Utopian Wireless Corporation will provide wireless broadband service to the rural, underserved communities near Prague, Oklahoma. The rural PFSA includes an area in Lincoln County and covers approximately 1,547 households, 106 businesses, and 33 anchor institutions. Utopian will deploy a broadband wireless system that features Motorola Mobile WiMAX technology. The system includes WiMAX access points, wireless and wired backhaul, ASN-GW, CSN, and an IP core that supports authentication and routing of traffic to application servers and the Internet. The project will create or save 10 jobs.

### **Windstream Corporation**

#### **Oklahoma Windstream, LLC**

##### **Last Mile**

**\$2,279,598 Grant**

Windstream Corporation will expand broadband service to unserved customers in the PFSA comprising the communities of East Cherokee, Stilwell East, and Stilwell West. The project will allow Windstream Corporation to extend the reach of its broadband network to make services available to 1,667 households and 7 businesses, and provide broadband to last-mile wireline telephone subscribers. The project also will provide broadband service to 14 anchor institutions. Windstream Corporation will deploy industry standard DSLAMs using industry standard ADSL2+ protocols to provide a minimum of 6 Mbps downstream and 786 Kbps upstream data service. The project will create or save an estimated 41 jobs.

### **Wyandotte Telephone Company**

#### **Wyandotte Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$702,933 Grant**

Wyandotte Telephone Company (Wyandotte Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises in two rural Oklahoma PFSAs that include three communities. The project will make services available to 226 premises (192 households and 34 businesses) that have no access to broadband service. Wyandotte Tel is the State-certified ILEC in Oklahoma. The network will deploy Ethernet-over-copper technology to its fullest potential, provide VDSL2 access devices in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future upgrades without needing to rebuild the transport routes. Target speed of the expanded network will be at 20 Mbps (upstream and downstream combined) or more DSL service. This project will create or save 18 jobs.

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## OREGON

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### **Cascade Networks, Inc.**

#### **Rural Clatskanie Broadband Initiative**

##### **Last Mile**

**\$578,316 Loan**

**\$578,316 Grant**

Cascade Networks, Inc., in cooperation with Clatskanie People's Utility District in Columbia County, will build a last-mile project in rural Clatskanie to provide broadband service to 410 households, 72 businesses, and 2 anchor institutions. The key business area to be served is the Port Westward light industrial development, an industrial park on the Columbia River. The infrastructure buildout includes extending fiber to the Clatskanie People's Utility District substations to allow more efficient management of the power grid. The project will provide broadband to support data, voice, and IPTV services over a hybrid system of fiber-optic and wireless equipment. The system will be primarily FTTH, with wireless micronodes at points on the edge of the service area where fiber is not a practical option. The project will create or save two jobs.

### **Cascade Utilities, Inc.**

#### **Cascade Utilities Broadband Project**

##### **Last Mile**

**\$1,299,433 Loan**

**\$3,898,299 Grant**

Cascade Utilities, Inc., will lay 127 miles of fiber-optic cable and install or replace 21 DSLAMs in rural areas in Oregon that do not have high-speed broadband access. The network will make services available to 5,814 households, 1,104 businesses, and 19 anchor institutions. The project will create or save 12 jobs.

### **City of Sandy**

#### **Sandy Broadband Infrastructure Project**

##### **Last Mile Non-remote**

**\$374,548 Loan**

**\$374,537 Grant**

The Sandy Broadband Infrastructure Project will improve and expand wireless Internet service provided by SandyNet, a municipal Internet service provider operated by the City of Sandy, Oregon. The project will add new antenna towers to upgrade equipment to 8 Mbps capacity and provide fiber backhaul. The network will make services available to 3,908 households, 150 businesses, and 20 anchor institutions. The project will create or save 10 jobs.

### **Gervais Telephone Company**

#### **Marion County Broadband Buildout**

##### **Last Mile Non-remote**

**\$314,430 Loan**

**\$314,430 Grant**

Gervais Telephone Company will expand an existing fiber network. The project will provide broadband connectivity to 121 households, 24 businesses, and 4 anchor institutions in rural Marion County. The project will create or save nine jobs.

### **Monroe Telephone Company**

#### **Monroe Telephone Cheshire & Greenberry Buildout Project**

##### **Last Mile**

**\$1,413,684 Loan**

**\$4,241,050 Grant**

Monroe Telephone Company will extend broadband services using FTTP to three remote, sparsely populated, mostly agricultural areas. The PFSA are unserved. The project will construct a small middle-mile fiber-optic connection to an interconnection point in Junction City. The network will make services available to 959 households, 29 businesses, and 7 anchor institutions. The project's backhaul will also make fiber connectivity available to six anchor institutions in the Junction City area. The broadband system is GPON standard FTTP architecture with fiber-fed remote cabinets in the field to interconnect the end users with the Internet. This last-mile network will provide the residents, businesses, and anchor institutions with access to broadband service at minimum speeds up to 20 Mbps at affordable rates, with broadband speeds up to 100 Mbps. Discounts will be offered for service to critical community institutions and socially and economically disadvantaged small business concerns. The project will create or save four jobs.

### **Trans-Cascades Telephone Company**

#### **Trans-Cascades Broadband Project**

##### **Last Mile**

**\$590,099 Loan**

**\$1,770,294 Grant**

Trans-Cascades Telephone Company will offer broadband service at a minimum speed of 10 Mbps in remote eastern Oregon, in Jefferson, Wasco, and Wheeler counties. The network will make services available to 136 households, 46 businesses, and 3 anchor institutions. The project will create or save 10 jobs.

### **Warm Springs Telecommunications Company**

#### **The Confederated Tribes of Warm Springs Reservation Broadband Network**

##### **Last Mile**

**\$2,722,960 Loan**

**\$2,722,960 Grant**

Warm Springs Telecommunications Company, representing the Tribal Council of the Confederated Tribes of Warm Springs in central Oregon, will implement phase I of a long-range plan to provide advanced telecommunications service to all homes, businesses, and critical facilities on this 1,000-square-mile reservation. The PFSA has three main communities. The project will make services available to 755 households, 22 businesses, and 233 anchor institutions. The company will construct a hybrid broadband network with fiber backbone and a mix of fiber and wireless links. The network will connect all government agencies, businesses, critical and emergency facilities, and most homes on the reservation with either fiber or wireless to provide broadband Internet access with speeds of up to 5 Mbps and basic telephone service. The project will create or save 33 jobs.

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## **PENNSYLVANIA**

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### **Deposit Telephone Company, Inc.**

#### **Deposit Telephone Company, Inc.: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$125,754 Grant**

Deposit Telephone Company, Inc. (Deposit Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises. Deposit Tel is the State-certified ILEC in New York. The project will serve six PFSA that include six communities. These PFSA have 48 premises that have no access to broadband service. This project will bring access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is engineered so that it can be easily upgraded to meet future needs. The project will create or save three jobs.

## **Keystone Wireless, LLC**

### **Keystone Wireless Broadband Initiative**

#### **Last Mile**

**\$11,096,780 Loan**

**\$25,286,105 Grant**

Keystone Wireless, LLC will offer 3G broadband service in Berks, Centre, Clinton, Lycoming, Mountour, Northumberland, Schuylkill, Snyder, and Union counties in central Pennsylvania. Keystone will upgrade its core network infrastructure and 162 base stations with 3G wireless broadband technology to bring high-speed Internet service throughout the PFSAs. The network will make services available to 368,028 households, 26,882 businesses, and 9,035 anchor institutions. The project will create or save 56 jobs.

## **West Virginia PCS Alliance, LC**

### **Rural Mobile Broadband Initiative - Maryland**

#### **Last Mile**

**\$1,503,518 Grant**

West Virginia PCS Alliance LC and NTELOS Licenses Inc., both subsidiaries of NTELOS Holdings Corp., will expand West Virginia PCS Alliance's wireless services to provide 3G mobile broadband service in unserved rural portions of western Maryland and south-central Pennsylvania north of Hagerstown. The PFSAs comprise 8 communities with more than 50 percent of the premises lacking high-speed broadband service. The project will make services available to 35,459 households, 4,110 businesses, and 876 anchor institutions. The project will create or save 11 jobs.

## **Windstream Corporation**

### **Windstream Pennsylvania, LLC**

#### **Last Mile**

**\$20,497,604 Grant**

Windstream Corporation will offer broadband service to a large number of communities in Pennsylvania. The project will use industry standard ADSL2+ protocols that will offer broadband speeds of up to 12 Mbps. The network will make services available to 31,684 households, 1,793 businesses, and 105 anchor institutions. The project will create or save more than 345 jobs.

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## **SOUTH CAROLINA**

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## **Home Telephone Company, Inc.**

### **Low Country Broadband Last-Mile Project**

#### **Last Mile**

**\$1,000,000 Loan**

**\$2,979,868 Grant**

Home Telephone Company, Inc., will provide broadband service to unserved or underserved rural areas in portions of Berkeley, Dorchester, and Orangeburg counties and the Cross and Harleyville areas. The project will deliver voice services, high-speed Internet access (up to 20 Mbps), and RF video service to customers through an ITU GPON standards-based Calix C7 GPON system. The company will install single-mode fiber-optic cable for voice and data. The network will make services available to 1,143 households, 1 business, and 7 anchor institutions. The project will create or save 14 jobs.

## **Orangeburg County**

### **Southeastern Orangeburg County FTTP**

#### **Last Mile**

**\$4,662,501 Loan**

**\$13,987,499 Grant**

Orangeburg County will offer FTTP technology to residents in the communities of Bethel Forest, Canaan, Cattle Creek, Homestead, Lambrick, McAlhany, Pea Ridge, Rowesville, and Sixty Six. The network will cover 278 square miles and will make services available to 3,631 households, 90 businesses, and 12 anchor institutions. The project will create or save an estimated 70 jobs.

## **Windstream Corporation**

### **Windstream South Carolina, LLC**

#### **Last Mile**

**\$3,050,160 Grant**

Windstream Corporation will offer broadband service to the communities of Cameron, Fort Motte-Lone Star, Highland, Kershaw, Landrun, Lexington, Mount Pisgah, North, Orangeburg, Sandy Run-Staley, St. Matthews, and Westville. The project will use industry standard ADSL2+ protocols that will offer broadband service speeds of up to 12 Mbps. The network will make services available to 3,543 households, 286 businesses, and 40 anchor institutions. The project will create or save 40 jobs.

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## **SOUTH DAKOTA**

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### **Midstate Communications, Inc.**

#### **Chamberlain/Oacoma Fiber-to-the-Home Last Mile**

**\$2,728,118 Loan**

**\$6,365,610 Grant**

Midstate Communications, Inc., will offer FTTH access in the Chamberlain/Oacoma exchange with broadband service speeds of up to 1 Gbps. The network will make services available to 1,486 households, 176 businesses, and 28 anchor institutions. The project will create or save 99 jobs.

### **TrioTel Communications, Inc.**

#### **TrioTel Fiber-to-the-Home Broadband Deployment Project**

##### **Last Mile**

**\$3,704,212 Loan**

**\$8,643,163 Grant**

TrioTel Communications, Inc., will provide high-speed Internet service in the communities of Alexandria, Canova, Emery, Farmer, Salem, and Spencer and the surrounding rural areas via an FTTH network. The network will provide service to 1,654 households, 986 businesses, and 127 anchor institutions. The project will create or save 15 jobs.

### **Venture Communications Cooperative Cresbard, Orient, and Faulkton Exchanges**

##### **Last Mile**

**\$2,614,957 Loan**

**\$2,614,956 Grant**

Venture Communications Cooperative will provide broadband service to households, businesses, and key community organizations that are underserved in the Cresbard, Faulkton, and Orient exchanges. The network will make services available to 749 households, 108 businesses, and 15 anchor institutions. The project will create or save 76 jobs.

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## **TENNESSEE**

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### **Bledsoe Telephone Cooperative Corporation**

#### **Nine Mile and College Station Broadband Upgrade Last Mile**

**\$1,527,352 Loan**

**\$3,563,821 Grant**

Bledsoe Telephone Cooperative Corporation (BTC) will extend high-speed broadband service to two PFSAs in eastern middle Tennessee. The project will upgrade facilities in two telephone exchanges, College Station and Nine Mile. BTC will establish 36 new aggregation points connected to the main exchange offices by fiber-optic cable. Existing copper cable facilities will be reconfigured between the new aggregation points and subscriber locations. BTC will provide ADSL service speeds of up to 10 Mbps downstream and 1 Mbps upstream. The premises remaining beyond the reconfiguration will be designed customer-by-customer to provide them with a minimum of 19 Mbps downstream and 1 Mbps upstream. The network will make services available to 2,675 households, 148 businesses, and 9 anchor institutions. The project will create or save 40 jobs.

### **Highland Telephone Cooperative, Inc.**

#### **Highland Telephone Cooperative FTTH Build-Out Last Mile**

**\$11,801,827 Loan**

**\$35,405,478 Grant**

Highland Telephone Cooperative (HTC) will enhance broadband communication options for the residents of McCreary, Morgan, and Scott counties in rural Tennessee and Kentucky. HTC will construct an FTTH wireline fiber-optic cable network, configured in PON architecture, able to support speeds in excess of 20 Gbps for all subscribers in its exchange boundaries. The network will make services available to 15,371 households, 1,301 businesses, and 75 anchor institutions. The project will create or save 52 jobs.

**Millington Telephone Company, Inc.**  
**Mason/Stanton Broadband Expansion**  
**Last Mile**  
**\$1,141,987 Loan**  
**\$2,664,635 Grant**

Millington Telephone Company, Inc., will expand access to high-speed broadband service to customers, businesses, and anchor institutions in areas where 75 percent of the premises lack high-speed access and 20 percent of the households are unserved by basic broadband. The PFSA comprises 166 square miles in rural western Tennessee in portions of Fayette, Haywood, and Tipton counties. Communities in the PFSA are Asbury, Braden, Danceyville, Fredonia, Keeling, Longtown, and Stanton. The project will make services available to 1,603 households, 53 businesses, and 16 anchor institutions. The company will offer community and public safety facilities a discount on broadband services. The project will use an FTTN system and broadband loop carrier equipment as the standard for the ADSL2+ aggregation design. The fiber-optic cable design is laid out using three 1 GigE rings to backhaul the broadband data from the major aggregation points to the main data collection and switching center. The major aggregation points are the existing central offices in the five current telephone exchanges in Millington's network. Broadband speeds of up to 10 Mbps downstream and 2.0 Mbps upstream for residential subscribers and up to 15 Mbps downstream and 2.0 Mbps upstream for businesses will be provided. The project will create or save 84 jobs.

**North Central Telephone Cooperative, Inc.**  
**Broadband Infrastructure Investment Program**  
**Last Mile Non-remote**  
**\$24,964,000 Loan**  
**\$24,715,709 Grant**

North Central Telephone Cooperative will provide the infrastructure to offer advanced voice, video, and data services exceeding 20 Mbps to remote and rural communities in the service area of northern Tennessee. The network will make services available to 14,824 households, 951 businesses, and 48 anchor institutions. The project is expected to create or save 150 jobs.

**Scott County Telephone Cooperative**  
**FTTP South Scott County**  
**Last Mile**  
**\$447,300 Loan**  
**\$1,043,700 Grant**

Scott County Telephone Cooperative will deploy FTTP technology in south Scott County and a small portion of Russell County. The network will be an active Ethernet system and will provide broadband service speeds of up to 10 Gbps. The network will make services available to 292 households, 5 businesses, and 1 anchor institution. The project will create or save nine jobs.

**Skyline Telephone Membership Corporation**  
**High Country Fiber**  
**Last Mile**  
**\$956,515 Loan**  
**\$2,231,868 Grant**

Skyline Telephone Membership Corporation will substantially expand advanced FTTH service via a fiber-optic network with combined speeds exceeding 20 Mbps to 744 households, 64 businesses, and 10 anchor institutions in Alleghany and Ashe counties in rural, northwestern North Carolina. The project will create or save 10 jobs.

**Sunset Digital Communications, Inc.**  
**TRANSFORM Tennessee**  
**Last Mile**  
**\$2,452,939 Loan**  
**\$22,076,454 Grant**

Sunset Digital Communications, Inc., will offer broadband service speeds of up to 1 Gbps. The network will use DWDM to also provide bandwidths up to 1.6 Tbps. The PFSA is located in the Appalachians of northeast Tennessee and includes two persistent poverty counties. Sunset Digital Communications plans to partner with three funded middle-mile projects and has synergistic operations planned with two other last-mile applications. The network will make services available to 11,021 households, 471 businesses, and 65 anchor institutions. The project will create or save 73 jobs.

### **Tennessee Telephone Company, Inc.**

#### **Tennessee Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$5,150,691 Grant**

Tennessee Telephone Company (Tennessee Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise service territory. Tennessee Tel is the State-certified ILEC in Tennessee. The project will serve 11 rural PFSAAs that include 9 communities. Within the PFSAAs, there are 1,576 premises (1,499 households, 46 businesses, and 31 anchor institutions) with no access to broadband service. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTH configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed to unserved customers is at 20 Mbps (upstream and downstream combined). The project will create or save 135 jobs.

### **Twin Lakes Telephone Cooperative Corporation**

#### **Twin Lakes Telephone Cooperative Corp.: Fiber-to-the-Home Broadband Project**

##### **Last Mile**

**\$16,076,833 Loan**

**\$16,076,834 Grant**

Twin Lakes Telephone Cooperative Corporation will provide broadband service to the rural exchanges of Byrdstown, Celina, Clarkrange, and Moss. The network will make services available to 3,956 households, 1,328 businesses, and 84 anchor institutions. The project will promote economic development in rural areas that have consistently higher than average unemployment rates and areas that are in persistent poverty counties. The project will create or save an estimated 349 jobs.

### **West Kentucky Rural Telephone Cooperative Corporation, Inc.**

#### **West Kentucky and West Tennessee Broadband FTTH Initiative**

##### **Last Mile**

**\$19,189,000 Loan**

**\$19,189,000 Grant**

West Kentucky Rural Telephone Cooperative Corporation, Inc. (WK&T) will build a fiber-optic construction project to provide broadband infrastructure to rural southwest Kentucky in the counties of Calloway, Carlisle, Fulton, Graves, Hickman, and Marshall, and in the northwest Tennessee counties of Henry, Obion, and Weakley. The network will make services available to 5,382 households, 1,119 businesses, and 31 anchor institutions. At the conclusion of the project, WK&T expects to double its data subscribers and have almost 90 percent of its customer base, more than 14,000 customers, on broadband, with data speeds averaging 1.5 Mbps or higher. In addition, fiber broadband will be available to 99 public facilities. The project will create or save 50 jobs.

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## **TEXAS**

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### **ATSI Communications, Inc.**

#### **South Texas Broadband Technology Progreso TX**

##### **Last Mile**

**\$416,588 Loan**

**\$416,588 Grant**

ATSI Communications, Inc., will build a wireline broadband network infrastructure to provide last-mile service speeds of up to 6 Mbps in Progreso. The company will install a point-to-point microwave transponder solution with a capacity of 250 Mbps connecting its Internet POP to its cable network head-end in Progreso. The network will make services available to 1,010 households, 852 businesses, and 14 anchor institutions. The project will create or save 24 jobs.

### **Blossom Telephone Company**

#### **Red River Broadband Expansion Project Middle Mile**

**\$833,303 Loan**

**\$1,944,373 Grant**

Blossom Telephone Company (BTC) will provide middle-mile fiber and transmission facilities that will make available broadband service to unserved and underserved customers in rural areas in northeast Texas. The project will provide FTTH in the Blossom exchange. The 26.5-mile route of middle-mile fiber facilities will enable the FTTH facilities to deliver significantly greater bandwidth. By leveraging the middle-mile fiber with wireless last-mile facilities, the project will enable BTC to provide broadband service to customers. Broadband service speeds will exceed 5 Mbps to all Blossom wireline customers upon completion. Wireless customers will be offered packages up to 3 Mbps along the middle-mile route that is unserved. The network will make services available to 1,887 households, 91 businesses, and 11 anchor institutions. The project will create or save 72 jobs.

### **Electronic Corporate Pages, Inc.**

#### **Central Texas Rural Wireless Expansion Project Last Mile**

**\$586,922 Loan**

**\$1,306,376 Grant**

Electronic Corporate Pages, Inc. (ECPI) will provide wireless broadband coverage to a 1,226-square-mile area of rural central Texas. This wireless expansion project will offer over 3 Mbps combined broadband service speeds (upstream and downstream) using Motorola's Canopy technology. Over the four counties covered in this project, the network will make services available to 12,677 households, 6,083 businesses, and 11 anchor institutions. ECPI serves 1,850 customers on 18 towers, which will be expanded to 24 towers under this project. Using backhaul technology and proven network management systems, ECPI will upgrade its core equipment and deploy a WiMAX system. The network is supported by ECPI's two network operations centers, each of which can be upgraded to full gigabit capacity. The project will create or save nine jobs.

### **Five Area Telephone Cooperative, Inc.**

#### **West Texas Broadband Infrastructure Development to Support Internet Adoption**

**Last Mile**

**\$2,454,223 Grant**

Five Area Telephone Cooperative will implement the West Texas Broadband Infrastructure Development to Support Internet Adoption project. The company will offer high-speed broadband service to the towns of Bledsoe, Bula, Clays Corner, Lazbuddie, Maple, and Needmore in rural west Texas via an FTTP network. The network will make services available to 199 households, 235 businesses, and 1 anchor institution. The project will create or save 16 jobs.

### **Hill Country Telephone Cooperative, Inc.**

#### **Project Rural Connect**

**Last Mile**

**\$3,670,265 Loan**

**\$8,563,952 Grant**

Hill Country Telephone Cooperative, Inc., will offer broadband service speeds of up to 20 Mbps (copper) and up to 100 Mbps (fiber). The project will deploy 560 miles of fiber-optic cable, 280 digital loop carriers, and soft switches throughout a substantial portion of its service area. The network will make services available to 1,685 households. The project will create or save 448 jobs.

### **Medicine Park Telephone Company**

#### **Sterling Oklahoma to Scotland Texas Rural Fiber Optic Route**

**Middle Mile**

**\$133,176 Loan**

**\$132,645 Grant**

Medicine Park Telephone Company will offer broadband service using an FTTP network between Sterling, Oklahoma, and Scotland, Texas, with service speeds between 155 Mbps and 10 Gbps. The network will make services available to 169 households and 2 anchor institutions. The project will create or save three jobs.



**Mid-Plains Rural Telephone Cooperative, Inc.**

**Rural Texas Panhandle Mid-Plains**

**Last Mile**

**\$1,421,000 Loan**

**\$1,388,000 Grant**

Mid-Plains Rural Telephone Cooperative will extend a current project in the rural Texas Panhandle to provide high-speed broadband service to six underserved PFSA's. Through a USDA Telecommunications Loan, Mid-Plains is installing fiber-optic cable to electronic equipment, FTTH, and fiber between central offices. This project will extend FTTH facilities to additional areas. Equipment is being updated in congested areas to improve service and reliability. The 6 newly served PFSA's cover 227 square miles and the project will make services available to 295 premises, of which 145 are without high-speed access. This project will serve 281 rural establishments, including farms and ranches, and an additional 14 businesses. This project will create or save 39 jobs.

**PRIDE Network**

**Burkburnett & Iowa Park, TX**

**Last Mile Non-remote**

**\$12,811,071 Loan**

**\$6,309,931 Grant**

PRIDE Network will construct an FTTP telecommunications infrastructure with a WiMAX service-extension overlay that will bring advanced broadband service to the rural communities of Burkburnett and Iowa Park. In addition, less than 5 percent of this network will serve an area in Oklahoma. The network will make services available to 7,804 households, 501 businesses, and 31 anchor institutions. This project will create or save 400 jobs.

**PRIDE Network, Inc.**

**PRIDE Network**

**Last Mile Non-remote**

**\$22,720,551 Loan**

**\$21,829,549 Grant**

PRIDE Network will construct an FTTP telecommunications infrastructure with a WiMAX service-extension overlay that will bring advanced broadband service to rural communities in the Texas South Plains region. The network will make services available to 19,777 households, 2,201 businesses, and 139 anchor institutions. This project will create or save 890 jobs.

**Telecom Cable, LLC**

**Last Mile Remote/Rural Telecom Cable**

**Last Mile**

**\$634,050 Grant**

Telecom Cable, LLC will offer high-speed broadband access via two-way HFC wireline transmission in the rural areas of Corrigan, Fulshear, and Weston Lakes. This project will provide broadband service speeds of at least 5 Mbps. The network will make services available to 1,854 households, 59 businesses, and 22 anchor institutions. The project will create or save 20 jobs.

**Valley Telephone Cooperative, Inc.**

**Southern Texas Broadband Infrastructure Development and Adoption Project**

**Last Mile Non-remote**

**\$40,093,153 Loan**

**\$38,520,868 Grant**

Valley Telephone Cooperative, Inc., will develop broadband infrastructure in 11 unserved and underserved rural areas of the South Texas Plains. The network will make services available to 19,494 households, 778 businesses, and 196 anchor institutions. The project will create or save 160 jobs.

**Wes-Tex Telephone Cooperative, Inc.**

**Western Texas Broadband Infrastructure Development**

**Last Mile Non-remote**

**\$16,891,875 Loan**

**\$16,891,875 Grant**

Wes-Tex Telephone Cooperative, Inc., will develop broadband infrastructure to increase Internet availability and access speeds in rural areas of western Texas. The network will make services available to 3,298 households, 132 businesses, and 35 anchor institutions.

## **Windstream Corporation**

### **Windstream Sugar Land, Inc.**

#### **Last Mile**

**\$1,613,509 Grant**

Windstream Corporation will provide last-mile broadband service to unserved premises in four communities in rural Texas. Windstream will deploy industry standard DSLAMs using ADSL2+ protocols to provide a minimum of 6 Mbps downstream and 786 Kbps upstream data service. DSLAMs will be strategically deployed to reach the greatest number of unserved customers over the existing wireline copper plant. The project will make services available to 1,255 households, 139 businesses, and 4 anchor institutions. This project will create or save an estimated 31 jobs.

## **XIT Rural Telephone Cooperative, Inc.**

### **XIT Rural Telephone Cooperative - wFTTP & VDSL2 Combination Application**

#### **Last Mile Non-remote**

**\$3,065,440 Grant**

XIT Rural Telephone Cooperative, Inc., will deploy a combination of FTTP and FTTN VDSL2 technology within two separate service areas in and around the communities of Dalhart and Stratford. The network will make services available to 4,195 households, 396 businesses, and 36 anchor institutions. The project will create or save 10 jobs.

## **XIT Rural Telephone Cooperative, Inc.**

### **XIT Rural Telephone Cooperative, Inc. - Round 2 Rural FTTP Application**

#### **Last Mile**

**\$2,112,950 Grant**

XIT Rural Telephone Cooperative will replace a copper telephone plant with fiber to serve three rural PFSA. Using standards-based GPON technology, XIT will provide 100 Mbps to subscribers in the three PFSA of Coldwater, Kerrick, and Middlewater. The project will make services available to 227 households and 56 businesses. The project will create or save 82 jobs.

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## **UTAH**

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## **Central Utah Telephone, Inc.**

### **Basin Broadband Project**

#### **Last Mile**

**\$620,724 Loan**

**\$1,862,070 Grant**

Central Utah Telephone, Inc., will install 71.1 miles of middle-mile underground fiber-optic cable in Juab and Millard Counties and 60 miles of HFC last-mile cable and electronics and operating systems in the communities of Delta, Fillmore, Hinckley, Holden, and Lynndyl. The network will make services available to 2,107 households, 217 businesses, and 137 anchor institutions. The project will create or save seven jobs.

## **South Central Utah Telephone Association, Inc.**

### **Grand Staircase High-Speed Access Broadband Initiative**

#### **Last Mile**

**\$9,187,244 Grant**

South Central Utah Telephone Association, Inc. (SCUTA) will bring high-speed broadband service to State parks, national parks, and national monuments in the PFSA. The PFSA is a 1,416-square-mile area in south central Utah that includes Bryce Canyon National Park, Capital Reef National Park, Kodachrome State Park, Anasazi State Park, and Grand Staircase-Escalante National Monument, plus their attendant operation centers or headquarters. The area includes 18 communities in Garfield, Kane, and Wayne counties. The Grand Staircase PFSA includes 3,020 households, 212 businesses, and 47 anchor institutions. SCUTA will offer broadband data service at speeds ranging from 1.0 Mbps to 15 Mbps. The project will include both FTTH and high-speed copper networks connected through a fiber backbone to deliver service to residences, businesses, community organizations, and government facilities. The project will create or save an estimated 25 jobs.

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## VERMONT

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### **VTel Wireless, Inc.**

#### **Wireless Open World (WOW) by VTel Wireless, Inc.**

##### **Last Mile**

**\$35,166,081 Loan**

**\$81,664,754 Grant**

VTel Wireless, Inc., will provide Tri-Band 4G LTE wireless broadband to virtually every unserved anchor institution, unserved home, and unserved business throughout Vermont and parts of New York State and New Hampshire. VTel Wireless will reach 57,008 households, 3,775 businesses, and 714 anchor institutions. These include all the 33,165 unserved households and anchor institutions in Vermont. The area to be served includes 14 towns and villages in the most rural region of Vermont. Part of the project will upgrade every home served by Vermont Telephone Company to include GigE over active fiber. In another part of the project, VTel will work with Central Vermont Public Service, Green Mountain Power, and the affiliate of Vermont's electric companies, VELCO, on a smart grid initiative. The companies will use VTel's WiMAX wireless licenses for one of the Nation's first two tests of GE's WiMAX Smart Meters. The project will create or save 1,870 jobs.

### **Waitsfield-Fayston Telephone Co., Inc.**

#### **Rural Vermont Broadband Advancement Project**

##### **Last Mile**

**\$1,667,993 Loan**

**\$3,891,982 Grant**

Waitsfield-Fayston Telephone Co., will offer FTTH broadband service in the counties of Addison, Chittenden, and Washington. The network will make services available to 682 households, 56 businesses, and 2 anchor institutions. The project will create or save 16 jobs.

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## VIRGINIA

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### **Lenowisco Planning District Commission**

#### **ADVANCE Virginia**

##### **Last Mile**

**\$6,067,863 Loan**

**\$14,158,344 Grant**

Lenowisco Planning District Commission will offer high-speed fiber-optic broadband service in the Appalachians of southwest Virginia, a PFSA that is underserved and includes one persistent poverty county. The project will provide broadband service speeds of 1 Gbps. The network will make services available to 26,768 households, 1,553 businesses, and 109 anchor institutions. The project will create or save 73 jobs.

### **New Castle Telephone Company**

#### **New Castle Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,066,321 Grant**

New Castle Telephone Company (New Castle Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its service territory. New Castle Tel is the State-certified ILEC in Virginia. The project is designed to serve two PFSAs. These PFSAs have 300 premises (295 households, 4 businesses, and 1 anchor institution) that have no access to broadband service. New Castle Tel has built a broadband network that is capable of serving the majority of these premises in several of the core communities, but the surrounding area lacks broadband access. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is engineered so that it can be easily upgraded. The project will create or save 28 jobs.

### **NTELOS Telephone, Inc.**

#### **Alleghany Broadband Now Initiative**

##### **Last Mile Non-remote**

**\$8,062,088 Grant**

NTELOS Telephone, Inc., will provide broadband infrastructure to unserved and underserved homes, businesses, and anchor institutions in rural Alleghany County. The network will make services available to 4,216 households, 233 businesses, and 36 anchor institutions. The project will create or save an estimated 40 jobs.

### **Scott County Telephone Cooperative**

#### **FTTP South Scott County**

##### **Last Mile**

**\$7,007,700 Loan**

**\$16,351,300 Grant**

Scott County Telephone Cooperative will deploy FTTP technology in south Scott County and a small portion of Russell County. The network will be an active Ethernet system and will provide broadband service speeds of up to 10 Gbps. The network will make services available to 4,581 households, 79 businesses, and 15 anchor institutions. The project will create or save 141 jobs.

### **Utopian Wireless Corporation**

#### **Utopian Mineral WiMAX Project**

##### **Last Mile**

**\$117,034 Loan**

**\$351,099 Grant**

Utopian Wireless Corporation will make available advanced 4G wireless broadband service to underserved communities in and around the Mineral area. The service area includes an estimated 1,864 households, 411 businesses, and 50 anchor institutions. Using licensed 2.5 GHz spectrum, Utopian will deploy a broadband wireless system. The project will create or save 11 jobs.

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## **WASHINGTON**

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### **Cascade Networks, Inc.**

#### **Rural Clatskanie Broadband Initiative**

##### **Last Mile**

**\$1,287,219 Loan**

**\$1,287,218 Grant**

Cascade Networks, Inc., in cooperation with Clatskanie People's Utility District in Columbia County, will undertake a last-mile project in rural Clatskanie, Oregon, to provide broadband service to 912 households, 159 businesses, and 4 anchor institutions. The project will provide broadband to support data, voice, and IPTV services over a hybrid system of fiber-optic and wireless equipment. The system will be primarily FTTH, with wireless micronodes at points on the edges of the service area where fiber is not a practical option. The project will create or save four jobs.

### **EcliptixNet Broadband, Inc.**

#### **Northeast Washington Rural Broadband Access Network (NWRBAN)**

##### **Last Mile**

**\$6,137,496 Loan**

**\$14,320,824 Grant**

EcliptixNet Broadband, Inc., will offer 4G high-speed broadband service through fixed and mobile wireless connections to more than 90 percent of the rural premises across the counties of Ferry, Spokane, and Stevens. The network will make services available to 27,363 households, 3,627 businesses, and 303 anchor institutions. The project will create or save an estimated 236 jobs.

### **Hood Canal Telephone Co., Inc.**

#### **Mason County Connect**

##### **Last Mile**

**\$904,000 Loan**

**\$2,712,000 Grant**

Hood Canal Telephone Co., Inc., will expand broadband service throughout rural Mason County in western Washington. The area includes two tribal reservations, the Skokomish and Squaxin tribes. The company has partnered with the Squaxin Reservation to extend service to residents living on tribal lands. In addition, the Catfish Lake, Dayton Trails, and Pioneer areas of Mason County will receive funding for broadband services. The project will establish a redundant telecommunications route for Mason County's Emergency Management headquarters and extend broadband, phone, and cable TV service to an additional 51.8 miles in the county. The project will deliver broadband through cable modems over an HFC system. This project will make services available to 700 permanent residents and 37 businesses, 132 seasonal residents, and 6 anchor institutions. The project will create or save 26 jobs.

### **McDaniel Telephone Company**

#### **McDaniel Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,192,951 Grant**

McDaniel Telephone Company (McDaniel Tel), a subsidiary of TDS Telecom, will build a project to bring high-speed broadband service to unserved premises in its rural franchise service territory. McDaniel Tel is the State-certified ILEC in Washington. The project will serve six PFSAs that include two communities. These PFSAs have 596 premises (574 households and 22 businesses) that have no access to broadband service. The project will build a broadband network to provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is engineered so that it can be easily upgraded. The project will create or save 31 jobs.

### **Public Utility District No. 1 of Chelan County**

#### **Public Utility District No. 1 of Chelan County FTTX Rural Expansion**

##### **Last Mile**

**\$24,963,089 Grant**

Public Utility District No. 1 of Chelan County will complete the fiber-based, high-speed broadband system it operates in Washington State. The expanded network will make services available to 6,811 predominantly rural residential customers in 13 PFSAs. Operating in a public-private partnership, Public Utility District provides open-access wholesale telecommunication service to 12 local retail service providers over an FTTH standards-based fiber-optic PON. The network will offer speeds up to 100 Mbps to homes and small businesses, and up to 10 Gbps to education, healthcare, large businesses, and government institutions. This project will create or save 79 construction and 7 network jobs.

### **Public Utility District No. 1 of Okanogan County**

#### **Okanogan County PUD Last-Mile Project**

##### **Last Mile**

**\$3,667,855 Loan**

**\$5,501,782 Grant**

Public Utility District No. 1 of Okanogan County will expand its high-speed broadband service to an additional 6,543 premises in Okanogan County. The county is home to the largest Indian reservation in Washington, the Confederated Tribes of the Colville Reservation, which is concurrently undertaking a broadband infrastructure project. The Public Utility District's network focuses on the premises along the existing fiber route where high-speed broadband service is unavailable. The project will make services available to 5,401 households, 1,107 businesses, and 35 anchor institutions. The project will support high-speed broadband service to 35 anchor institutions. The core backbone will initially provide a single-threaded connection to the Internet and function as an aggregation and transport medium throughout the county. The optical system will be upgraded to account for the expected increase in consumption using Ethernet transport and core IP switching technologies. The network design calls for placement of 170 access nodes along the existing fiber backbone route and extending the fiber backbone 179 miles to provide necessary redundancy to the last-mile network. The project will create or save 28 jobs.

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## WEST VIRGINIA

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### Gateway Telecom, LLC

#### Gateway Telecom LLC West Virginia Last Mile Project Last Mile Non-remote

**\$1,475,459 Loan**

**\$1,417,597 Grant**

Gateway Telecom, LLC will deploy wireless last-mile broadband infrastructure to serve residences and anchor institutions in unserved rural areas of West Virginia. The network will make services available to 1,095 households. The project will create or save four jobs.

### Hardy Telecommunications, Inc.

#### Hardy OneNet Fiber to the Home Project Last Mile

**\$9,494,483 Loan**

**\$22,153,791 Grant**

Hardy Telecommunications, Inc., will serve residents in underserved, rural, mountain communities in Hardy County. The company will deploy an FTTH network to provide reliable ultra-high-speed Internet access, VoIP, and video service to underserved areas. The network will make services available to 5,595 households, 200 businesses, and 106 anchor institutions. The project will create or save 120 jobs.

### Spruce Knob Seneca Rocks Telephone, Inc.

#### SKSRT Rural Broadband Project

##### Last Mile

**\$8,529,310 Grant**

Spruce Knob Seneca Rocks Telephone, Inc., will offer FTTP fiber-optic capacity, with associated wireless capability, to provide last-mile broadband service in Pendleton and Pocahontas counties. Fiber-optic cables will be placed on existing power and telephone pole structures along the main arteries and on existing laterals to reach customers with broadband service speeds of up to 1 Gbps. The network will make services available to 2,551 households, 207 businesses, and 23 anchor institutions. The project will create or save 125 jobs.

### West Virginia PCS Alliance, LC

#### Rural Mobile Broadband Initiative - Maryland Last Mile

**\$555,648 Grant**

West Virginia PCS Alliance LC and NTELOS Licenses Inc., both subsidiaries of NTELOS Holdings Corp., will expand West Virginia PCS Alliance's existing wireless service to provide 3G mobile broadband service in unserved rural portions of western Maryland and south-central Pennsylvania north of Hagerstown. The PFSA's comprise 8 communities with more than 50 percent of the premises lacking high-speed broadband service. The project will make services available to 13,104 households, 1,519 businesses, and 324 anchor institutions. The project will create or save four jobs.

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## WISCONSIN

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### Badger Telecom, LLC

#### Badger Telecom, LLC: Broadband Project to Serve Rural Unserved Establishments

##### Last Mile

**\$4,080,773 Grant**

Badger Telecom, LLC (Badger Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises in its service territory. Badger Tel is the State-certified ILEC in Wisconsin. The project will serve five rural PFSA's that include six communities. These PFSA's have 867 premises (816 households, 35 businesses, and 16 anchor institutions) with no access to broadband service. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without the need to rebuild the transport routes. The project will create or save 107 jobs.

### **Baldwin Telecom, Inc.**

#### **Town of Troy FTTP Network-BTI**

##### **Last Mile**

**\$4,533,949 Loan**

**\$4,533,949 Grant**

Baldwin Telecom, Inc. (BTI) will provide FTTP service to the Town of Troy, on the Wisconsin-Minnesota border. BTI is working in partnership with the town to bring high-speed data, voice, and video service to this underserved and unserved market in western Wisconsin. The project will make services available to 1,538 households, 30 businesses, and 2 anchor institutions. The network will provide many residents with their first opportunity to obtain high-speed Internet service and put in place the infrastructure to support planned business development along the Highway 35 corridor. The project will deploy an FTTP network to make services available to every home and business in the PFSA and will utilize Calix GPON technology. The project will create or save 99 jobs.

### **Central State Telephone Company, LLC**

#### **Central State Telephone Company, LLC: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$3,855,976 Grant**

Central State Telephone Company, Inc. (Central State Tel), a subsidiary of TDS Telecom, will deliver high-speed broadband service to 9 rural PFSAs that include 10 communities in Wisconsin. These PFSAs have 1,384 premises (1,295 households, 76 businesses, and 13 anchor institutions) with no access to broadband service. Central State Tel is the State-certified ILEC in Wisconsin. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The network target speed is 20 Mbps (upstream and downstream combined) or more DSL service. The project will create or save 101 jobs.

### **Chequamegon Communications Cooperative, Inc.**

#### **Chequamegon Fiber-to-the-Home**

##### **Last Mile**

**\$15,549,091 Loan**

**\$15,549,093 Grant**

Chequamegon Communications Cooperative, Inc. (CCC) will update its facilities to offer FTTH in 3 PFSAs with 31 rural communities in northern Wisconsin. CCC's network will make services available to 5,332 premises, providing high-speed Internet access to 3,226 new customers, including several anchor institutions. As part of CCC's effort to bring high-speed broadband service to this area, the company partnered with the State of Wisconsin Office of Administration on a funded round one project to bring high-speed Internet to schools and libraries in its area. The project will create or save 66 jobs.

### **EastCoast Telecom of Wisconsin, LLC**

#### **EastCoast Telecom of Wisconsin, LLC: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,669,255 Grant**

EastCoast Telecom of Wisconsin, LLC (EastCoast Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises. EastCoast Tel is the State-certified ILEC in Wisconsin. The project will serve four rural PFSAs in its franchise service territory. These PFSAs have 511 premises (478 households, 27 businesses, and 6 anchor institutions) in 5 communities with no access to broadband service. The network will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without the need to rebuild the transport routes. This project will build a broadband network that will allow access to high-speed broadband service (20 Mbps upstream and downstream combined). The project will create or save 44 jobs.

### **Farmers Telephone Company, LLC**

#### **The Farmers Telephone Company, LLC: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,440,570 Grant**

Farmers Telephone Company, LLC (Farmers Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises. Farmers Tel is the State-certified ILEC in Wisconsin. The project will serve four rural PFSA. These PFSA include 6 communities and have 489 premises (456 households, 30 businesses, and 3 anchor institutions) that have no access to broadband service. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is also engineered so that it can be easily upgraded at a reasonable cost to meet future needs. The project will create or save 38 jobs.

### **Grantland Telecom, LLC**

#### **Grantland Telecom, LLC: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,655,504 Grant**

Grantland Telecom, LLC (Grantland Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises. Grantland Tel is the State-certified ILEC in Wisconsin. The project will serve six rural PFSA that include seven communities in the franchise service territory. These PFSA have 346 premises (332 households, 12 businesses, and 2 anchor institutions) with no access to broadband service. The project will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without the need to rebuild the transport routes. The project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The project will create or save 44 jobs.

### **Marquette-Adams Telephone Cooperative, Inc.**

#### **Broadband Edge Out Marquette-Adams Telephone Cooperative**

##### **Last Mile**

**\$6,202,326 Loan**

**\$13,805,175 Grant**

Marquette-Adams Telephone Cooperative, Inc., will extend fiber-optic service from the existing telephone cooperative service area to surrounding unserved rural areas in central Wisconsin. The network will make services available to 4,488 households, 144 businesses, and 12 anchor institutions. The project will create or save three jobs.

### **Midway Telephone Company**

#### **Midway Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$4,680,738 Grant**

Midway Telephone Company (Midway Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises. Midway Tel is the State-certified ILEC in Wisconsin. The project will serve seven PFSA that include seven communities. These PFSA have 1,201 premises (1,129 households, 52 businesses, and 20 anchor institutions) that have no access to broadband service. This project will provide access to high-speed broadband service (20 Mbps upstream and downstream combined). The network is engineered so that it can be easily upgraded. The project will create or save 123 jobs.



### **Reedsburg Utility Commission, Inc.**

#### **Reedsburg Utility Commission Fiber Network Expansion**

##### **Last Mile**

**\$5,239,168 Grant**

Reedsburg Utility Commission, Inc., will extend an existing municipal FTTP network, operated by the City of Reedsburg acting through the Reedsburg Utility Commission, to the surrounding rural area to provide affordable advanced broadband service to residents and businesses that receive dial-up service, wireless, and satellite services. This rural area of southwestern Wisconsin has been well documented as deficient in broadband service due to the hilly terrain and numerous valleys that severely limit wireless and satellite service coverage. The network will make services available to 2,438 households, 145 businesses, and 12 anchor institutions. The project will create or save 45 jobs.

### **Riverside Telecom, LLC**

#### **Riverside Telecom, LLC: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$818,687 Grant**

Riverside Telecom, LLC (Riverside Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises. Riverside Tel is the State-certified ILEC in Wisconsin. The project will serve three rural PFSA's. These PFSA's have 2 communities with 219 premises (208 households, 6 businesses, and 5 anchor institutions) with no access to broadband service. The project will build a broadband network to offer speeds of up to 20 Mbps upstream and downstream combined or DSL service. The project will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support the extension of broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The project will create or save 22 jobs.

### **Scandinavia Telephone Company, LLC**

#### **Scandinavia Telephone Company, LLC: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$1,238,809 Grant**

Scandinavia Telephone Company, LLC (Scandinavia Tel), a subsidiary of TDS Telecom, will bring high-speed broadband service to unserved premises in its rural franchise territory. Scandinavia Tel is the State-certified ILEC in Wisconsin. The project will serve two rural PFSA's that include four communities. Within the PFSA's, there are 462 premises (446 households, 11 businesses, and 5 anchor institutions) that have no broadband service. The project will deploy Ethernet-over-copper technology, provide VDSL2 access devices that are packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without having to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined). The project will create or save 33 jobs.

### **Southeast Telephone Co. of Wisconsin, LLC**

#### **Southeast Telephone Co. of Wisconsin, LLC: Broadband Project to Serve Rural Unserved Establishments**

##### **Last Mile**

**\$947,555 Grant**

Southeast Telephone Co., of Wisconsin, LLC (Southeast Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises. Southeast Tel is the State-certified ILEC in Wisconsin. The project will serve three PFSA's with three communities in Southeast Tel's service territory. These PFSA's have 554 premises (534 households, 19 businesses, and 1 anchor institution) with no access to broadband service. The network will deploy Ethernet-over-copper technology to its fullest potential, provide VDSL2 access devices packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. The project will create or save 25 jobs.

## **Stockbridge & Sherwood Telephone Company, LLC**

### **Stockbridge & Sherwood Telephone Company: Broadband Project to Serve Rural Unserved Establishments**

#### **Last Mile**

**\$1,837,421 Grant**

Stockbridge & Sherwood Telephone Company, LLC (Stockbridge & Sherwood Tel), a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises. Stockbridge & Sherwood Tel is the State-certified ILEC in Wisconsin. The project will serve four PFSAAs that include six communities. These PFSAAs have 629 premises (592 households, 32 businesses, and 5 anchor institutions) with no access to broadband service. The network will deploy Ethernet-over-copper technology to its fullest potential, provide VDSL2 access devices packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. This project will create or save 48 jobs.

## **UTELCO, LLC**

### **UTELCO, LLC: Broadband Project to Serve Rural Unserved Establishments**

#### **Last Mile**

**\$2,823,526 Grant**

UTELCO, LLC, a subsidiary of TDS Telecom, will provide high-speed broadband service to unserved premises in its rural service territory. The project will serve eight PFSAAs that include six communities. These PFSAAs have 844 premises (786 households, 50 businesses, and 8 anchor institutions) with no access to broadband service. UTELCO is the State-certified ILEC in Wisconsin. The network will deploy Ethernet-over-copper technology to its fullest potential, provide VDSL2 access devices packaged in an FTTN configuration, upgrade access in the central office to support the extension of the broadband networks to these remote areas, use PON FTTH where economically feasible, and allow for future PON upgrades without needing to rebuild the transport routes. The target speed is 20 Mbps (upstream and downstream combined) or more DSL service. This project will create or save 74 jobs.





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