

Meeting the Needs of the Navajo Nation



NTUA Update of Navajo Nation Fiscal Recovery Funds (NNFRF)
American Rescue Plan Act 2021 & Refunded Defunded CARES Act Projects

NTUA Defunded Projects Update #21 – Status of Utility Projects as of August 23, 2024 Navajo Nation Legislation CJY-41-21

This document reports on the progress of the refunded Defunded Navajo Nation CARES Act Projects which was approved through CJY-41-21. These utility projects were initially funded under the Navajo Nation CARES Act Fund but were later defunded as the Navajo Nation's deadline for the completion of these projects neared, prompting the Navajo Nation to recall the funds and reallocate the unspent funds to the Navajo Nation Hardship Assistance Expenditure Plan.

NTUA NNFRF Defunded CARES Act Projects

Utility Construction Update #21 Data as of August 23, 2024

2.18 – HOUSING SUPPORT: OTHER HOUSING ASSISTANCE

The Navajo Nation approved NNFRF funding for projects that will provide a source of power and when necessary to provide funds to have the house wired for Navajo family homes which reside on the Navajo Nation. There are three sections: NTUA electric connections, off-grid residential solar units, and NTUA & neighboring utilities connections.

NTUA Electric Connections:

With the funds designated for NTUA electric connections, NTUA estimates it can fund the extension of NTUA's existing electric distribution lines to 404 Navajo family homes. This plan includes funds, as needed, to complete interior house wiring, pole mounted meter loops, certification and recertification of house wiring, and inspections.

As of this Update #21, 360 Navajo families have been connected to the grid under the Defunded CARES Act (DCA)

*** Please note previous updates included projects under the Defunded CARES Act projects and projects listed in CJN-29-22. A separate report labeled ARPA II Report – highlights those specific projects. In this Update, only projects under the Defunded CARES Act project listing will be reflected in the reporting table below.

Table 1: NTUA Electric Connections: Staging of 404 Homes

	DCA Community Powerline Projects	DCA Short Line Extensions	DCA Total
1. Preliminary	1	0	1
2. Engineering	0	0	0
3. In ROW	0	6	6
4. Rights of Way Approved	2	17	19
5. Release for Construction	0	0	0
6. Construction Complete & In Service	48	304	360
Total	51	327	378

Table 1 above shows the various stages of completed electric service applications. Stages 1 through 4 are completed applications that are under review, but some may never be constructed for a variety of reasons.

Delegate	Chapter	Count of No. of Families
Honorable Delegate Amber Kanazbah Crotty	Cove	3
	Cudeii (Gadii ahi/To' Koi)	1
	Red Valley	3
	Sanostee (Tse Alnaozt'ii)	4
	Two Grey Hills/Toadlena	2
Delegate Crotty Total		13
Honorable DelegateDr. Andy Nez	Crystal	1
	Fort Defiance	7
	Sawmill	8
Delegate Dr. Nez Total		16
Honorable Delegate Brenda Jesus	St. Michaels	14
Delegate Jesus Total		14
Honorable Delegate Carl Roessel Slater	Lukachukai	12
	Rock Point	4
	Rough Rock (Tse Ch' Izhi)	4
	Round Rock	6
	Tsaile-Wheatfields	14
Delegate Slater Total		40
Honorable Delegate Casey Allen Johnson	Birdsprings (Tsidii To'ii)	1
	Coalmine Canyon	1
	Leupp	3
	Tolani Lake	1
Delegate Johnson Total		6
Honorable Delegate Cherilyn Yazzie	Dilkon	5
	Greasewood Springs	1
	Indian Wells	2
	Teesto	3
	Whitecone	1
Delegate Yazzie Total		12
Honorable Madam Speaker Crystalyn Curley	Blue Gap-Tachee	8
	Many Farms	10
	Nazlini	6
	Tselani-Cottonwood	13
Speaker Curley Total		39

Honorable Delegate Curtis Yanito	Aneth	9
	Mexican Water	5
	Red Mesa	12
	Teec Nos Pos	8
	To'likan (Sweetwater)	1
Delegate Yanito Total		35
Honorable Delegate Danny Simpson	Nahodishgish	2
	Standing Rock (Tse'li'Ahi')	1
Delegate Simpson Total		3
Honorable Delegate Eugenia Charles-Newton	Shiprock	15
Delegate Charles-Newton Total		15
Honorable Delegate Germaine Simonson	Hardrock	1
	Pinon	7
	Whippoorwill	3
Delegate Simonson Total		11
Honorable Delegate Helena Nez Begay	Bodaway-Gap	1
	Coppermine	4
	Kaibeto (Kai' Bii To)	2
	LeChee	1
	Tonalea/Red Lake	13
Delegate Nez Begay Total		21
Honorable Delegate Herman Daniels Jr.	Inscription House (Ts'ahBiiKin)	3
	Navajo Mountain	4
	Oljato	6
	Shonto	23
Delegate Daniels Jr. Total		36
Honorable Delegate Lomardo Aseret	Houck	2
	Klagetoh	1
	Lupton (Tse Si Ani)	2
	Nahata Dziil	3
	Wide Ruins	5
Delegate Aseret Total		13
Honorable Delegate Nathan Notah	Coyote Canyon	4
	Mexican Springs	1
	Naschitti	6
	Tohatchi	2
	Twin Lakes (Bahastl' ah')	10
Delegate Notah Total		23

Honorable Delegate Otto Tso	Tuba City (To' Nanees'Dizi')	5
Delegate Tso Total		5
Honorable Delegate Rickie Nez	Burnham (T'iis Toh Sikaad)	1
	Hogback (Tse'Daa Kaan)	2
	Upper Fruitland	4
Delegate Nez Total		7
Honorable Delegate Shaandiin Parrish	Dennehotso	5
	Kayenta	9
Delegate Parrish Total		14
Honorable Delegate Shawna Ann Claw	Chinle	21
Delegate Claw Total		21
Honorable Delegate Vince R. James	Cornfields	4
	Ganado	2
	Jeddito	3
	Kinlichee (Kin Dah Lichii)	4
	Steamboat	3
Delegate James Total		16
Grand Total		360

The table above shows completed projects only

Off-Grid Residential Solar Units:

With the funds designated for the off-grid residential solar projects, NTUA estimates it can fund the installation of 150 off-grid solar systems. The 150 off-grid residential solar systems comprise of a skid mounted solar unit, battery system, and an energy efficient refrigerator.

This funding also covers, as needed, basic interior house wiring, certification and re-certification of house wiring, inspection, and a generator with an automatic transfer switch (if medically necessary). NTUA has selected Industrial Solar Consulting, out of Gilbert, AZ to manufacture and install these solar units. NTUA has completed the installation of 150 solar units. See table at the end of the document for a Chapter specific table.

Table 2: Off-Grid Residential Solar Units: Staging of 150 Solar Projects

Off-Grid Residential Solar Project Stage		Status
1	Completed Applications	0
2	Projects that are in the Engineering Stage	0
3	Projects that are Found to be Feasible	0
4	Projects that are in Construction	0
5	Projects that are Constructed and In Service (Project complete)	150
Total		150

Table 2:

Council Delegate	Chapter	Count of Solar Site Commissioned
Hon. Amber K. Crotty	Red Valley	1
	Sanostee	1
	Sheep Springs	1
Hon. Amber K. Crotty Total		3
Hon. Andy Nez	Sawmill	3
Hon. Andy Nez Total		3
Hon. Brenda Jesus	Oak Springs	1
	St. Michaels	4
Hon. Brenda Jesus Total		5
Hon. Carl Slater	Round Rock	1
	Tsaile	2
Hon. Carl Slater Total		3
Hon. Casey Allen Johnson	Cameron	13
	Leupp	3
Hon. Casey Allen Johnson Total		16
Hon. Madam Speaker Crystalyne Curley	Blue Gap	1
	Cottonwood	8
	Low Mountain	5
	Many Farms	1
	Nazlini	2
	Pinon	1
Hon. Speaker Curley Total		18
Hon. Danny Simpson	Crownpoint	1
	Nageezi	2
Hon. Danny Simpson Total		3
Hon. George H. Tolth	Baca	5
	Casamero Lake	1
	Counselor	1
	Ojo Encino	2
	Pueblo Pintado	1
Hon. George H. Tolth Total		10
Hon. Germaine Simonson	Black Mesa	1
Hon. Germaine Simonson Total		1
Hon. Helena Nez Begay	Bodaway Gap	1
	Tonalea	5
Hon. Helena Nez Begay Total		6
Hon. Herman M. Daniels	Inscription House	1
	Oljato	9
	Shonto	9
Hon. Herman M. Daniels Total		19
Hon. Lomardo Aseret	Houck	1
Hon. Lomardo Aseret Total		1

Hon. Nathan Notah	Mexican Springs	2
	Naschitti	2
	Twin Lakes	4
Hon. Nathan Notah Total		8
Hon. Norman M. Begay	Ramah	1
Hon. Norman M. Begay Total		1
Hon. Otto Tso	Tuba City	4
Hon. Otto Tso Total		4
Hon. Lester Yazzie	Bread Springs	2
	Chichiltah	2
	Red Rock	3
	Rock Springs	4
	Tseyatoh	1
Hon. Lester Yazzie Total		12
Hon. Shaandiin Parrish	Chilchinbeto	4
	Dennehotso	2
	Kayenta	11
Hon. Shaandiin Parrish Total		17
Hon. Shawna Ann Claw	Chinle	6
Hon. Shawna Ann Claw Total		6
Hon. Steven R. Arviso	Church Rock	1
	Pinedale	4
	Smith Lake	1
	Thoreau	1
Hon. Steven R. Arviso Total		7
Hon. Vince R. James	Ganado	1
	Kinlichee	4
	Steamboat	2
Hon. Vince R. James Total		7
Grand Total		150

The table above shows completed projects only.

Staging of 425 Homes Connected to Electric Grid (Neighboring Utilities connections)

This plan includes funding, as needed, to complete the interior house wiring, pole mounted meter loops, certification and recertification of house wiring, and inspections.

Usually, these costs are the responsibility of the homeowner, but now that these costs are covered the residents no longer worry about this.

Depending on the location of the homes to existing power lines, electric grid connections may be provided by NTUA or neighboring non-NTUA electric providers such as: Arizona Public Service (APS), Continental Divide Electric Cooperative (CDEC), the City of Farmington, the City of Gallup, Jemez Mountains Electric Cooperative (JMEC), or Socorro Electric.

To date, 139 families living outside NTUA service territory have been connected by neighboring utilities.

Table 3: Staging of 425 Homes Connected to Electric Grid Defunded CARES Act (DCA) – Neighboring Utilities Connection Staging

Electric Connections Stage (425)		Status
1	Completed Applications	1
2	Projects that are in the Engineering Stage	17
3	Projects that are at the Right-of-Way Stage	8
4	Projects with Approved Right of Way	2
5	Projects that are in Construction	3
6	Projects that are Constructed and In Service	139
Proposed DCA Neighboring Utility Projects Total		169

NTUA is working with APS, CDEC, and JMEC on several projects in each of their service territories to connect customers to the electric grid. See tables below. To date, 130 homes have been connected to the Grid by neighboring utilities.

Arizona Public Service Customers (APS)

Project Stages		Total No. of Projects
1	Completed Applications	0
2	Projects that are in the Engineering Stage	0
3	Projects that are at the ROW Stage	3
4	Projects with Approved ROW	1
5	Projects that are in Construction	0
6	Projects that are Constructed and In Service	6
Proposed DCA Neighboring Utility (APS) Projects Total		10

Continental Divide Electric Cooperative (CDEC) – New Mexico

		Total No. of Projects
1	Completed Applications	0
2	Projects that are in the Engineering Stage	10
3	Projects that are at the ROW Stage	5
4	Projects with Approved ROW	0
5	Projects that are in Construction	1
6	Projects that are Constructed and In Service	97
Proposed DCA Neighboring Utility (CDEC) Projects Total		113

Jemez Mountains Electric Cooperative (JMEC) – New Mexico

		Total No. of Projects
1	Completed Applications	0
2	Projects that are in the Engineering Stage	7
3	Projects that are at the ROW Stage	0
4	Projects with Approved ROW	0
5	Projects that are in Construction	3
6	Projects that are Constructed and In Service	36
Proposed DCA Neighboring Utility (JMEC) Projects		Total
		46

Council Delegate Region	Utility Provider	Chapter	Completed
Hon. Otto Tso	APS	Tuba City	6
Hon. George H. Tolth	CDEC	Baca/Prewitt	7
Hon. Danny Simpson	CDEC	Becenti	1
Hon. Lester Yazzie	CDEC	Breadsprings	4
Hon. Lester Yazzie	CDEC	Chichiltah	9
Hon. Steven R. Arviso	CDEC	Churchrock	7
Hon. Danny Simpson	CDEC	Crownpoint	3
Hon. Steven R. Arviso	CDEC	Iyanbito	7
Hon. George H. Tolth	CDEC	Littlewater	1
Hon. Lester Yazzie	CDEC	Manuelito	13
Hon. Steven R. Arviso	CDEC	Mariano Lake	3
Hon. Steven R. Arviso	CDEC	Pinedale	2
Hon. Norman M. Begay	CDEC	Ramah	5
Hon. Lester Yazzie	CDEC	Red Rock	4
Hon. Lester Yazzie	CDEC	Rock Springs	10
Hon. Steven R. Arviso	CDEC	Smith Lake	6
Hon. Steven R. Arviso	CDEC	Thoreau	6
Hon. Lester Yazzie	CDEC	Tsayatoh	7
Hon. George H. Tolth	CDEC	Whitehorse Lake	1
Hon. Norman M. Begay	CDEC	Tohajiilee	1
Hon. George H. Tolth	JEMEZ MTN	Counselor	7
Hon. Danny Simpson	JEMEZ MTN	Huerfano	2
Hon. Danny Simpson	JEMEZ MTN	Lake Valley	2
Hon. Danny Simpson	JEMEZ MTN	Nageezi	9
Hon. George H. Tolth	JEMEZ MTN	Ojo Encino	4
Hon. George H. Tolth	JEMEZ MTN	Pueblo Pintado	4
Hon. George H. Tolth	JEMEZ MTN	Torreon/Star Lake	8
Total			139

5.2 – CLEAN WATER: CENTRALIZED WASTEWATER COLLECTION & CONVEYANCE

The Navajo Nation authorized NNFRF for NTUA's refunded Defunded Navajo Nation CARES Act Projects related to wastewater collection systems. With this funding NTUA estimates it can complete 9 projects. The projects will include rehabilitation and/or upgrades for lift stations. A lift station pumps wastewater from a lower elevation to a higher elevation and allows the wastewater to flow into a lagoon or other wastewater treatment plants. NTUA has identified 6 lift stations in Arizona and 3 in New Mexico that may be funded from this expenditure category. The Shonto, AZ Lift Station was completed and is in service as of October 19, 2023.

Table 4: NTUA Centralized W/W Collection and Conveyance System Projects Stage

Projects Stage		Status
1	Design and Engineering	8
2	Right of Way	0
3	In Procurement Process	0
4	Release Construction	0
5	Construction Complete and In Service	1
Total		9

Table 4 provides a status update of the nine projects. NTUA will move forward with project development in design and engineering. To advance these projects to the construction phase, NTUA will need to receive funds from the NNFRF.

5.2 Clean Water: Centralized Wastewater Collection and Conveyance

Delegate/Region	Chapter	Project Description	Total Projects
Hon. Crystalyne Curley	Low Mountain	Many Farms Lift Station Rehab (In Progress)	1
Hon. Helena Nez Begay	Teesto	Lechee Lift Station Rehab (In Progress)	1
Hon. Herman Daniels Jr.	Upper Fruitland	Shonto Lift Station Rehab (Completed)	1
Hon. Nathan Notah	Sanders (Nahatahdzil)	Coyote Canyon Lift Station Rehab (In Progress)	1
Hon. Andy Nez	Teec Nos Pos	Sawmill Lift Station Rehab (In Progress)	1
Hon. Andy Nez	Aneth	Red Lake Lift Station Rehab (In Progress)	1
Hon. Shawna Ann Claw	Red Mesa	Chinle Lift Station Rehab (In Progress)	1
Hon. Casey Allen Johnson	St. Michael	Coalmine Canyon Mesa Lift Station Rehab (In Progress)	1
Hon. Steven Arviso	Hardrock	Iyanbito Lift Station Rehab (In Progress)	1
Total			9

5.3 CLEAN WATER: DECENTRALIZED WASTEWATER and 5.15– DRINKING WATER: OTHER WATER INFRASTRUCTURE

The Navajo Nation authorized NNFRF for NTUA's Defunded Navajo Nation CARES Act decentralized wastewater projects. With this funding, project projections indicate NTUA can complete (78) septic disposal system projects connected to homes located on the Navajo Nation that are located too far from a centralized wastewater collection system for economical connection.

These projects include the cost to construct a fully functioning septic system which includes a septic tank, a drain field, plumbing (if necessary), sink (if necessary), hot water heater system (if necessary), bathroom addition (if necessary), an energy efficient refrigerator, house wiring (if necessary), all required inspections, and the installation of any other necessary components for a functional system.

For each septic system to properly operate, a power source is required. Each project includes funding for either a solar system, connection to the electric grid or a small gas- powered electric generator. It should be noted that each project in this category has a companion project under expenditure category 5.15 which provides a water cistern system connection to the home.

NTUA will move forward with project engineering development. To advance these projects to the construction phase, NTUA will need to receive funds from the NNFRF. Once NTUA has exhausted all the funds in expenditure category 5.3, all remaining unfinished projects will be eligible to be moved to a future funding source.

This chart shows the projects which have been completed and the Chapter where they were installed.

Delegate	Chapter	Completed
Hon. Brenda Jesus	St. Michaels	1
Hon. Carl R. Slater	Rock Point	1
Hon. Carl R. Slater	Round Rock	3
Hon. Carl R. Slater	Tsaile	1
Hon. Casey Allen Johnson	Bird Springs	5
Hon. Casey Allen Johnson	Leupp	3
Hon. Cherilyn Yazzie	Dilkon	2
Hon. Cherilyn Yazzie	Greasewood Springs	2
Hon. Cherilyn Yazzie	Indian Wells	1
Hon. Cherilyn Yazzie	White Cone	2
Hon. Germaine Simonson	Black Mesa	1
Hon. Germaine Simonson	Forest Lake	2
Hon. Herman M. Daniels	Oljato	3
Hon. Lomardo Aseret	Klagetoh	2
Hon. Lomardo Aseret	Houck	1
Hon. Lomardo Aseret	Wide Ruins	4
Hon. Nathan Notah	Naschitti	1
Hon. Otto Tso	Tuba City	1
Hon. Lester Yazzie	Chilchiltah	1
Hon. Shaandiin Parrish	Chilchinbeto	2
Hon. Shaandiin Parrish	Kayenta	2
Hon. Vince R. James	Ganado	2
Hon. Vince R. James	Kinlichee	2
Total		45

Table 5: Septic Systems Referral Stage: The table shows that 45 were completed of the 78 that have been funded. NTUA continues to leverage other funding sources to complete more projects.

5.11 – DRINKING WATER: TRANSMISSION AND DISTRIBUTION

The Navajo Nation approved NTUA’s refunded Defunded Navajo Nation CARES Act drinking water transmission and distribution projects. With this funding NTUA estimates it can complete 16 transmission and distribution water projects.

This funding category provides funds to replace 7 compromised water distribution lines and 6 compromised Pressure Reducing Valves (PRV) and provides funding to upgrade 3 existing electric distribution lines to provide power to 3 water transmission line projects.

Table 6: Stage of NTUA Drinking Water: Transmission and Distribution Projects

Stage of NTUA Drinking Water: Transmission and Distribution Projects		Status
1	Design and Engineering	0
2	Right-of-Way	0
3	In Procurement Process	0
4	Release Construction	8
5	Construction Complete and In-Service	8
Total		16

Table 6: Of these 16 projects, NTUA has completed the construction of 8 projects.

Delegate/Region	Chapter	Project Description	Total Projects
Hon. Crystalyne Curley	Low Mountain	Smoke signal – Bore (Completed)	1
Hon. Cherilyn Yazzie	Teesto	Seba Dalkai – Bore (Completed)	1
Hon. Rickie Nez	Upper Fruitland	Upper Fruitland – Bore (Completed)	1
Hon. Lomardo Aseret	Sanders (Nahatahdzil)	Park Estates Phase IV (Completed)	1
Hon. Curtis Yanito	Teec Nos Pos	Teec Nos Pos - PRV Replacements (Completed)	1
Hon. Curtis Yanito	Aneth	Aneth- PRV Replacements (Completed)	1
Hon. Curtis Yanito	Red Mesa	Red Mesa - Bore	1
Hon. Brenda Jesus	St. Michael	St. Michael - Bore	1
Hon. Germaine Simonson	Hardrock	Hardrock - Four (4) PRV Replacements	4
Hon. Germaine Simonson	Black Mesa	Kitsillie – Bore (Completed)	1
Hon. Amber KanazbahCrotty	Sheep Springs	**NGWP PP#4, 0.21 MILES 3PHASE LINE	1
Hon. Nathan Notah	Coyote Canyon	**NGWP PP#7, NEW 3-PHASE LINE	1
Hon. Rickie Nez	Tse Daa K’aan	**SR EAST HOGBACK To PUMPING STATION, 3-PH ENERGIZED WORK (Completed)	1
Total			16
** Three projects are electric upgrades to water systems, not included in total			

5.14 DRINKING WATER STORAGE COMPLETED PROJECTS

The Navajo Nation approved funds from the NNFRF for NTUA's drinking water storage projects. Water storage tanks serve as the main water supply for Navajo communities. It is important to keep water storage tanks maintained to provide safe and reliable drinking water for community members. The original legislation funded the rehabilitation of 2 existing NTUA water storage tanks, located in Gap/Bodaway and Dennehotso AZ communities. However, NTUA was able to complete the two projects significantly under budget. NTUA received approval by the Navajo Nation to use the savings from the two completed projects to fund the rehabilitation of two additional water tanks. NTUA has also completed the two water storage tanks in Casamero Lake (NM), Dennehotso (AZ), and Cedar Ridge (AZ). Construction on the tank in Smith Lake (NM) is in progress.

5.14 Drinking Water: Storage Completed Projects

Delegate/Region	Chapter	Project Description	Total Projects
Hon. Helena Nez Begay	Gap/Bodaway	Cedar Ridge Storage Tank Renovation #2 (Completed)	1
Hon. Shaandiin Parrish	Dennehotso	Dennehotso Storage Tank Renovations #3 (Completed)	1
Hon. George Tolth	Casamero Lake	Casamero Lake Storage Tank Renovation (Completed)	1
Hon. Steven Arviso	Smith Lake	Smith Lake Storage Tank Renovation (In Progress)	1
		TOTAL	4

5.19 BROADBAND – LAST MILE PROJECTS

The Navajo Nation approved NNFRF for NTUA's refunded Defunded Navajo Nation CARES Act Projects related to last mile broadband projects. With this funding NTUA Wireless estimates it can complete 20 broadcast station uplifts that will provide wireless broadband services to unserved and underserved Navajo communities and will provide operation and maintenance expenses to continue the operation of 41 student/teacher Wi-Fi hotspots that are located throughout the Navajo Nation to support equitable and remote learning. This funding provided ongoing operating expenses necessary to keep the sites running from March 2021 through May 2022. **Since the grant funding expired, nine of the chapter/schools/entities have opted to keep the Wi-Fi hotspot equipment. They are highlighted in yellow.**

Project Description	Chapter	Delegate Region	Total Projects
Hon. Cherilyn Yazzie	Dilkon	Dilkon NTUA D.O. Wi-Fi Student Hotspots	1
Hon. Crystalyne Curley	Many Farms	Many Farms Elementary School Wi-Fi Student Hotspots	1
Hon. Helena Nez Begay	Lechee	Lechee Chapter House Wi-Fi Student Hotspots	1
Hon. Helena Nez Begay	Tonalea/Red Lake	Tonalea Chapter House Wi-Fi Student Hotspots	1
Hon. Helena Nez Begay	Coppermine	Coppermine Chapter House Wi-Fi Student Hotspots	1
Hon. Helena Nez Begay	Kaibeto	Kaibeto Chapter House Wi-Fi Student Hotspots	1
Hon. Helena Nez Begay	Bodaway Gap	Bodaway Gap Wi-Fi Student Hotspots	1
Hon. Shaandiin Parrish	Kayenta	Kayenta High School Wi-Fi Student Hotspots	1
Hon. Shaandiin Parrish	Kayenta	Kayenta Elementary School Wi-Fi Student Hotspots	1
Hon. Shaandiin Parrish	Dennehotso	Dennehotso Market Wi-Fi Student Hotspots	1
Hon. Eugenia Charles-Newton	Shiprock	Shiprock Fairgrounds Wi-Fi Student Hotspots	1
Hon. Amber Kanazbah Crotty	Sheep Springs	Sheep Springs Chapter House Wi-Fi Student Hotspots	1
Hon. Amber Kanazbah Crotty	Red Valley	Red Valley Chapter House Wi-Fi Student Hotspots	1
Hon. Danny Simpson	Crownpoint	Navajo Technical University Wi-Fi Student Hotspots	1
Hon. Nathan Notah	Tohatchi	Tohatchi Chapter House Wi-Fi Student Hotspots	1
Hon. Vince James	Ganado	Ganado Middle School Wi-Fi Student Hotspots	1

Hon. Vince James	Ganado	Ganado High School Wi-Fi Student Hotspots	1
Hon. Vince James	Kindalichii	Kin Dah Lichii Wi-Fi Student Hotspots	1
Hon. Crystalyne Curley	Low Mountain	Low Mountain Chapter House Wi-Fi Student Hotspots	1
Hon. Crystalyne Curley	Tachee/Blue Gap	Blue Gap Chapter House Wi-Fi Student Hotspots	1
Hon. Carl Slater	Tsaile/Wheatfields	Tsaile Elementary School Wi-Fi Student Hotspots	1
Hon. Carl Slater	Rock Point	Rock Point Community School Wi-Fi Student Hotspots	1
Hon. Carl Slater	Tsaile/Wheatfields	Dine' College Wi-Fi Student Hotspots	1
Hon. Lomardo Aseret	Houck	Houck Chapter House Wi-Fi Student Hotspots	1
Hon. Andy Nez	Red Lake	DEAP School Wi-Fi Student Hotspots	1
Hon. Andy Nez	Ft. Defiance	Ft. Defiance NTUA HQ Wi-Fi Student Hotspots	1
Hon. Curtis Yanito	Mexican Water	Mexican Water Chapter House Wi-Fi Student Hotspots	1
Hon. Curtis Yanito	Aneth	Aneth Chapter House Wi-Fi Student Hotspots	1
Hon. Shawna Ann Claw	Chinle	Chinle NTUA D.O. Wi-Fi Student Hotspots	1
Hon. Otto Tso	Tuba City	Tuba City Fairgrounds Wi-Fi Student Hotspots	1
Hon. Otto Tso	Tuba City	Tuba City Pavilion Wi-Fi Student Hotspots	1
Hon. Casey Allen Johnson	Cameron	Cameron Elementary School Wi-Fi Student Hotspots	1
Hon. Casey Allen Johnson	Birdsprings	Birdsprings Chapter House Wi-Fi Student Hotspots	1
Hon. Casey Allen Johnson	Coalmine Canyon	Coalmine Canyon Chapter House Wi-Fi Student Hotspots	1
Hon. Casey Allen Johnson	Birdsprings	Little Singer Community School Wi-Fi Student Hotspots	1
Hon. Casey Allen Johnson	Leupp	Leupp Chapter House Wi-Fi Student Hotspots	1
Hon. Brenda Jesus	St. Michaels	Window Rock Fairgrounds Wi-Fi Student Hotspots	1
Hon. Brenda Jesus	Oak Springs	Oak Springs Wi-Fi Student Hotspots	1
Hon. Germaine Simonson	Pinon	Pinon Chapter House Wi-Fi Student Hotspots	1
Hon. Germaine Simonson	Forest Lake	Forest Lake Chapter House Wi-Fi Student Hotspots	1
Hon. Germaine Simonson	Hard Rock	Hard Rock Chapter House Wi-Fi Student Hotspots	1
Total			41

NTUA Wireless Broadcast Stations

The 20 broadband broadcast stations will include the cost of equipment, installation, operation, and maintenance to deliver broadband internet services to 20 Navajo communities. To provide broadband services to these Navajo communities, NTUA Wireless will deploy the following technologies: 600 MHz and Fixed Wireless Broadband (EBS/2.5GHz). The projects are designed to deliver 100 Mbps download and 20 Mbps upload speeds (scalable to 100Mbps download/upload) for users that are within a 3-mile radius of the EBS and CBRS sites assuming no interference with topography.

For users within 9 miles with line of site to the tower with CBRS and EBS mid-band spectrum, the projects are also leverage and overlay 600 MHz licensed spectrum on the sites to provide additional reach to homes beyond 9 miles (up to approximately 15 miles with speeds of 10 Mbps/1Mbps or higher). All three technologies, EBS, CBRS, and 600 MHz licensed spectrum, work in conjunction to maximize the range and speed for customers.

NTUA has submitted a request to modify the deployment of fixed wireless equipment for 8 tower sites. However, the request has not been approved. **The proposed projects remain under review with the NN Department of Justice for review and approval. The projects are:** 1) Oljato is the substitution/replacement for Page/Lechee 2) Sanders is the substitution/replacement for Huerfano Mountain, 3) Ojo Encino is the substitution/replacement for Nageezi, 4) Tuba City North is the substitution/replacement for Tuba City, 5) Tuba City East is the substitution/replacement for View Hotel 6) Cornfields is a substitution/replacement for Low Mountain South 7) Torreon is the substitution/replacement for Counselor 8) Steamboat East is the substitution/replacement for Dezza Bluff.

NTUA Wireless has completed eight (8) installations at the following sites: Hard Rock, Monument Valley Campground, Aneth, Tolani Lake, Rough Rock, Steamboat, Crownpoint and Teesto. Two towers that are slated for installation are Navajo Mountain and Grey Mountain.

Table 8: Status of NTUAW Broadcast Station Installations

Stage	NTUA Broadband Last Mile Projects	Count
1	Engineering Design Stage	0
2	Right-of-Way Stage	1
3	Procurement Stage	1
4	Released for Construction Stage	1
5	Testing and Commissioning Stage	0
6	Constructed and In Service Stage	9
On Hold	Pending Navajo Nation Approval	8
	Total	20

Delegate Region	Chapter	Project Description	Total Projects	Status
Hon. Carl. R. Slater	Rough Rock	Rough Rock - WISP Overlay	1	Complete
Hon. Casey Allen Johnson	Cameron	Gray Mountain - WISP Overlay	1	Complete
Hon. Casey Allen Johnson	Tolani Lake	Tolani Lake - WISP Overlay (completed)	1	Complete
Hon. Cherilyn Yazzie	Teesto	Teesto WISP – Overlay (completed)	1	Complete
Hon. Curtis Yanito	Aneth	Aneth - WISP Overlay on TCB Sites (completed)	1	Complete
Hon. Danny Simpson	Crownpoint	Crownpoint - WISP Overlay (completed)	1	Complete
Hon. Germaine Simonson	Hard Rock	Hard Rock - WISP Overlay (completed)	1	Complete
Hon. Herman M. Daniels	Oljato	Monument Valley Campground - WISP Overlay	1	Complete
Hon. Vince James	Steamboat	Steamboat - WISP Overlay (completed)	1	Complete
Hon. Shaandiin Parrish	Kayenta	Marsh Pass - WISP Overlay on TBC Sites	1	Rights of Way
Hon. Herman. M. Daniels	Navajo Mountain	Navajo Mountain - WISP Overlay on TBC Sites	1	Released for Construction
Hon. Crystalyne Curley	Low Mountain	Jeedeez'ah - WISP Overlay	1	Procurement Stage
Hon. Crystalyne Curley	Low Mountain	Low Mountain South - WISP Overlay	1	Pending Navajo Nation Approval
Hon. Danny Simpson	Nageezi	Nageezi - WISP Overlay	1	Pending Navajo Nation Approval

Hon. Danny Simpson	Huerfano	Huerfano Mountain - WISP Overlay	1	Pending Navajo Nation Approval
Hon. George Tolth	Counselor	Counselor - WISP Overlay	1	Pending Navajo Nation Approval
Hon. Helena Nez- Begay	Lechee	Page - WISP Overlay	1	Pending Navajo Nation Approval
Hon. Herman M. Daniels	Oljato	View Hotel - WISP Overlay	1	Pending Navajo Nation Approval
Hon. Nathan Notah	Tohatchi	Dezza Bluff - WISP Overlay on TBC Sites	1	Pending Navajo Nation Approval
Hon. Otto Tso	Tuba City	Tuba City - WISP Overlay	1	Pending Navajo Nation Approval
Navajo Nation	Navajo Nation	Prorated OPEX for new WISP Buildouts/Overlays (Listed Above)	LOT	
		Total	20	

5.20 BROADBAND: OTHER PROJECTS

The Navajo Nation approved NNFRF for NTUA's refunded Defunded Navajo Nation CARES Act middle mile projects completing mid-section infrastructure to enable internet connectivity in communities. With this funding and the approval for new projects, NTUA estimates it can complete sixteen (16) middle mile projects, which include 1 new tower, 9 fiber lines, and 6 fiber line make-ready projects. The fiber lines provide transport for the NTUA Wireless broadcast stations, enabling them to provide wireless broadband services.

The towers and associated microwave links as well as the fiber optic lines will provide transport at gigabit speeds which meet and exceed the 100 Mbps download and 100 Mbps upload speeds that are required by the U.S. Department of Treasury.

Without the middle mile projects, the last mile projects for users cannot work. NTUA's 6 fiber line make-ready projects will upgrade the electrical infrastructure to enable fiber line attachments which provides broadband services. Of these 16 projects, NTUA has completed the construction of 9 projects.

There are 6 projects in the right-of-way stage. NTUA is currently in the process of obtaining 6 Tribal Authorization Access (TAA) for the deployment of overhead fiber optic cable on NTUA's existing electric distribution lines from the Navajo Land Department. We are pleased to receive a Telecommunications Tower Site Lease (TTSL) from the Navajo Land Department to construct the Jedeezah Tower, which is now complete.

Once the TAAs are finalized, NTUA can begin construction of the fiber optic system. Furthermore, NTUA Communications Dept. is waiting on a new line construction to finish the Lechee fiber build.

Table #9: Broadband

Stage	NTUA Broadband Middle Mile Projects Stage	Count
1	Engineering Design Stage	0
2	Right-of-Way Stage	6
3	Procurement Stage	0
4	Pending Electric Make Ready / New Electric Line Construction	1
5	Released for Construction Stage	0
6	Constructed and In Service Stage	9
	Total	16

Delegate Region	Chapter	Project Description	Total Projects	Status
Hon. Helena Nez- Begay	Nazlini	NAZLINI COMM. SCHOOL MAKE-READY	1	Complete
Hon. Shaandiin Parrish	Kayenta	KAYENTA NORTH FIBER MAKE-READY SEGMENT 2	1	Complete
Hon. Herman. M. Daniels	Kayenta	KY TOWNSITE SUB TO JUNCT. 3PH UPG	1	Complete
Hon. Carl. R. Slater	Gadii'ahi/To'Koi (Cudeii)	CUDEII TO TEECNOSPOS MAKE-READY SEG. 2	1	Complete
Hon. Herman M. Daniels	Shonto	SHONTO TO NAATSISAAN SCHOOL MAKE-READY SEGMENT 1, 2, AND 3	1	Complete

Hon. Herman M. Daniels	Rough Rock	ROUGH ROCK COMM. SCHOOL MAKE-READY SEG2	1	Complete
Hon. Danny Simpson	Kayenta/Shonto/Tsah Bii Kin	Fiber Build to Black Mesa NTUA Tower and Zelnez Mesa NTUA Tower	1	Complete
Hon. Curtis Yanito	Low Mountain	Jeedeez'ah - New Communications Tower	1	Complete
Hon. Crystalyne Curley	Monument Valley	Fiber to Monument Valley School	1	Complete
Hon. Danny Simpson	Lechee	Internet Distribution - Fiber Build Lechee Meet Point to Lechee Tower	1	Pending New Electric Line Construction
Hon. Casey Allen Johnson	Piney Hill	Fiber to Piney Hill Tower	1	Pending ROW
Hon. Crystalyne Curley	Rough Rock	Fiber to Rough Rock Tower	1	Pending ROW
Hon. Casey Allen Johnson	Nahatee Mesa	Fiber to Na Ha Tee Mesa Tower	1	Pending ROW
Hon. Germaine Simonson	Tolani Lake	Fiber to Tolani Lake Tower	1	Pending ROW
Hon. Vince James	Tuba City	Fiber to Tuba City North Tuba	1	Pending ROW
Hon. Danny Simpson	Leupp	Fiber to Leupp Tower	1	Pending ROW
Total			16	