



2021 PROJECTS UPDATE #2

NTUA Continues Building, Extending, and Connecting Utilities

With Navajo Nation CARES Act funds, the Navajo Tribal Utility Authority (NTUA) completed an unprecedented number of electric connections, water extensions, off-grid residential solar unit placements, and broadband/internet installations work in a mere 4.5 months.

In anticipation of the Navajo Nation allocating funds from its American Rescue Plan Act allocation to NTUA, NTUA continues to identify utility projects to serve the Navajo people. This high-level report provides an update in nine utility categories on the number of identified projects and the current status of those identified projects.

These projects are included within NTUA's Proposed Prioritized 36-month American Rescue Plan Act 2021 (ARPA) project listing, which has been provided to the Navajo Nation. To ensure the Navajo Nation's ARPA program is a success, NTUA is advancing projects to shovel ready status, identifying, and completing feasibility studies on Navajo family homes, and even constructing certain projects. NTUA is self-funding this work in anticipation of receiving ARPA funding from the Navajo Nation.

Toward the end of this report, there is information for Chapters and Chapter residents on how to apply for new utility services, including information for broadband/internet customers about a payment assistance program.

NTUA Residential Electric Connections

The Project Stage 1 titled Completed Applications are applications for Light Up Navajo III. When NTUA receives ARPA funding, these projects will be automatically converted to ARPA projects. ARPA projects include funding to complete: House wiring, meter loops and service poles. These numbers do not include the projects identified by neighboring utilities - JMEC, CDEC, SEC, or APS. NTUA's 36-month ARPA request does include funding for projects to be built by JMEC, CDEC, SEC, and APS.



Project Stages		Total No. of Projects
1	Completed Applications	295
2	Projects that are in the Engineering Stage	119
3	Projects that are at the ROW Stage	152
4	Projects with Approved ROW	65
5	Projects that are in Construction	47
6	Projects that are Constructed and In Service	30
Total		708

NTUA Off the Grid Proposed ARPA Solar Projects

300 off-grid residential solar units were installed and commissioned using CARES Act funding. These solar units were offered to homes when connecting to the electric grid was not feasible because of location, cost, or other determinations. There is a carryover of 700 completed solar applications from NTUA's CARES Act projects. Please note in the chart below "Completed Applications" shows zero because NTUA will begin taking new solar unit applications on July 19, 2021. There will be a public campaign encouraging people to submit applications. If applicants already applied during the CARES Act funding, it is not necessary for them to reapply. NTUA will contact those 700 applicants to update their status as needed.

Project Stages		Total No. of Projects
1	Completed Applications	0
2	Projects that are in the Engineering Stage	584
3	Projects that are Found to be Feasible	115
4	Projects that are in Construction	1
5	Projects that are Constructed and In Service	0
Total		700



NTUA Residential Water / Wastewater Services

This section describes the two types of residential water/wastewater services that NTUA provides. Section A describes water lines and wastewater systems. The wastewater systems can either be a sewer line extension or a septic system. Section B describes cistern/septic system projects. Please note that NTUA began taking on this work when CARES Act funding became available, and the Indian Health Service said it could not construct water projects before December 30, 2020. NTUA understood that families needed this service and assigned crews to construct and extend these services to homes.

A. NTUA Residential Water/Wastewater System Projects

As of June 24, 2021, 1,330 water applications were received. In the first quarter of 2021, NTUA invited Navajo Nation residents living ½ mile away from the nearest NTUA waterline to apply for waterline extension. Please know that NTUA is constructing waterlines/septic systems to 6 homes with funding provided by the Centers for Disease Control (CDC).

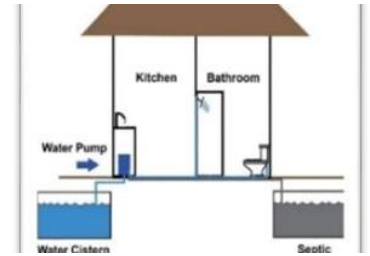
These services are normally provided by IHS, however because of the time restraint for the CARES Act projects, IHS reported it would not be constructing any projects. NTUA and NECA constructed 30 waterlines/septic systems with CARES Act Funding

Project Stages	Total No. of Projects
Applications under Review	914
Projects that are in the Engineering Stage	372
Projects at the Right of Way Stage	32
Projects with Approved ROW*	12
Projects that are in Construction	0
Projects that are Constructed and in Service	0
Total	1,330

* NTUA has secured grant funding from CDC to construct 6 projects.

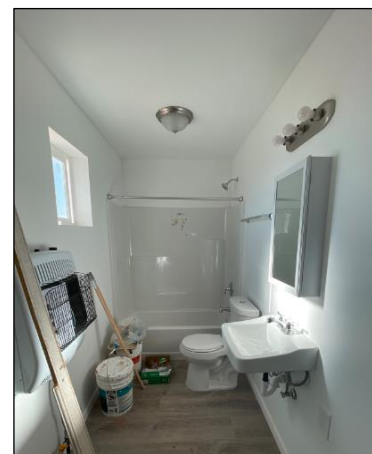
B. NTUA Residential Cistern/Septic System Projects

The CARES Act provided funding for cistern water systems where there is no water available for household water use and the home is located beyond feasible extension of the existing water distribution system. These services are normally provided by IHS, however because of the time restraint for the CARES Act projects, IHS reported it would not be constructing any projects. NTUA and NECA were able to complete 105 cistern/septic systems.



The image above shows how a cistern/septic system is designed. These projects not only include the cistern/septic system, but also require drain field, electric, solar, or generator service, in addition they may also require bathroom construction, plumbing, and house-wiring. Funding is required in advance for these projects.

Project Stages		Total No. of Projects
1	IHS or NN Referrals	388
2	Projects that are in the Engineering Stage	87
3	Projects that were Found to be Infeasible	34
4	Projects pending a NN EPA Permit	0
5	Projects that are in Construction	0
6	Projects that are Constructed and In Service	0
Total		509



NTUAW Residential Broadband/Internet to Home Projects

Residential and Small Business Broadband services will be delivered through two primary technology approaches: Fixed Wireless Broadband and Fiber to the Home. Broad coverage will be delivered through a commercial grade fixed wireless broadband system for delivering broadband service to homes and businesses at download speeds of up to 25Mbps to 100Mbps. Customer connections to this fixed wireless broadband system are accomplished by installing an outdoor antenna as well as an indoor router for Wi-Fi connectivity. For denser housing areas, a Fiber to the Home (FTTH) system will be deployed, which will deliver a fiber connection to customers. Customer connected to this FTTH system will be capable of receiving download speeds of up to 100Mbps to 1Gbps. With the ARPA funding, we anticipate 11,000 new or upgraded fixed wireless broadband connections and 5,000 new fiber connections to the home. To date, NTUAW has installed approximately 1,300 new and 700 upgraded fixed wireless broadband services.

Project Stages		Total No. of Projects
1	Awaiting Applications	8,850
2	Projects that are in the Engineering Stage	4,978
3	Projects that are at the ROW Stage	22
4	Projects with Approved ROW	0
5	Projects that are in Construction	150
6	Projects that are Constructed and In Service	2,000
Total		16,000



Outdoor Unit Customer Premises Equipment (CPE)

NTUA Electric Capacity Proposed ARPA Projects

Capacity projects are required to strengthen the electric system's reliability and increase the electric system's capacity. Enhancing and expanding the electric capacity provides a multitude of benefits to the community members. In addition to serving additional homes that have been connected and will be connected to the electric grid, the enhanced electric capacity is necessary to power water, wastewater, and broadband connections to homes. Also, electric capacity additions are required to power all the new and upgraded water, wastewater and broadband capacity projects. These will help further help to combat the pandemic. The numbers are projects that are ARPA prepared projects. Additionally, these numbers may change once discussions with JMEC, CDEC, SEC, and APS are finalized.

Project Stages		Total No. of Projects
1	Projects in Pre-Engineering Stage	47
2	Projects that are in the Engineering Stage	22
3	Projects that are at the ROW Stage	20
4	Projects with Approved ROW	19
5	Projects that are in Construction	5
6	Projects that are Constructed and In Service	11
Proposed ARPA Electric Capacity Projects (05/28/2021)		Total
		124

NTUA Water Capacity Proposed ARPA Projects

Capacity projects are necessary to strengthen the water system's reliability and are necessary to add additional water services (homes) to the water distribution systems. The numbers are projects that are ARPA prepared projects. Park Estates phase III is a carry-over project from CARES Act projects that we have secured funding from the Wend Foundation so that we can complete this project.

Project Stages		Total No. of Projects
1	Projects in Pre-Engineering Stage	35
2	Projects that are in the Engineering Stage	156
3	Projects that are at the ROW Stage	2
4	Projects with Approved ROW	30
5	Projects that are in Construction*	3
6	Projects that are Constructed and in Service	18
Proposed ARPA Water Capacity Projects (5/25/2021)		Total
		244

*Park Estates

NTUA Wastewater Capacity Proposed ARPA Projects

Wastewater capacity projects are necessary to strengthen the wastewater system's reliability and create the ability connect additional projects to the wastewater system.

Project Stages		Total No. of Projects
1	Projects in Pre-Engineering Stage	61
2	Projects that are in the Engineering Stage	287
3	Projects that are at the ROW Stage	1
4	Projects with Approved ROW	9
5	Projects that are in Construction	0
6	Projects that are Constructed and In Service	0
Proposed ARPA Wastewater Projects (05/25/21)		358
Total		358

NTUA Broadband Capacity Proposed ARPA Projects

Broadband capacity projects are necessary to provide service to unserved and underserved communities and to handle the increased usage of our existing and new customers. This additional capacity will allow NTUAW to increase the speed of our existing customers' broadband service. NTUAW's existing Broadband plans offer speeds of up to 6Mbps and of up to 9Mbps and our future plans will offer speeds of up to 25Mbps to 100Mbps. NTUAW will also be offering a new Fiber to the Home service where customers will be able to enjoy speeds of up to 100Mbps to 1Gbps. As internet usage continues to grow, additional capacity will be critical for a stable network and as discussed previously in the residential broadband section, NTUAW anticipates a dramatic increase in internet usage. We have planned for 16,000 new or upgraded Broadband customers. NTUA must be prepared to handle the additional capacity needs for all the internet and mobile service providers including NTUAW, AT&T, Cellular One, Verizon, and others.

Capacity Project Stage		Total No. of Projects
1	Projects in Pre-Engineering Stage	0
2	Projects that are in the Engineering Stage	168
3	Projects that are at the ROW Stage	27
4	Projects with Approved ROW	141
5	Projects that are in Construction	0
6	Projects that are Constructed and In Service	1
Proposed ARPA Broadband Projects (05/27/21)		337
Total		337

Information for Navajo Nation Elected Officials to Share with Chapters and Community Residents Seeking New Utility Services

1. **Chapter Powerline Projects**: If your Chapter is interested in seeking funding from the ARPA for a chapter powerline project, please refer to NTUA's website under "ARPA Projects" to see if the Chapter's powerline project is already on NTUA's ARPA list. If the proposed projects are not on the list or if your chapter needs further assistance, please contact Arash Moalemi at arashm@ntua.com.
2. **Seeking Residential Electric Connection**: If community members need residential electric service and believe they are within two miles of an NTUA Electric distribution line, please encourage community members to visit their local NTUA District Office and apply for Light Up Navajo III (LUN III). Please understand it is not guaranteed that the applicant will qualify or receive electric connection through LUN III. If and when NTUA receives ARPA funding, LUN III applications will automatically convert to ARPA funded projects.



3. **Seeking Residential Waterline Extensions**: If Community members need water service to their homes and they believe they are within ½ mile from an NTUA water line, please encourage community members to visit their local NTUA District Office and apply for the ARPA Water Service Project. Please understand it is not guaranteed that the applicant will qualify or receive water service.
4. **Seeking Off-Grid Solar**: If community members need residential electric service and cannot be connected to a powerline, they may qualify for an off grid solar unit. Please encourage community members to visit a local NTUA District Office after July 19, 2021, to submit application for an off grid solar unit. The off grid solar program is available in all 110 chapters.

5. **Seeking Broadband Service:** If a Chapter is seeking additional or expanded Broadband service for their communities, please contact Monroe Keedo at monroek@ntua.com. Mr. Keedo will provide information on existing and proposed new service locations including new towers and fiber optic buildouts.

Community members and small businesses seeking broadband services can contact NTUA/NTUAW for information on new residential and small business services. NTUA/NTUAW also offers Wireless Hotspots free of charge in key locations to assist with combatting the pandemic.

6. **Seeking Information about the Emergency Broadband Benefit Program:**

NTUA Wireless launched the Emergency Broadband Benefit (EBB) on May 17, 2021, for customers struggling to afford internet service during the COVID-19 pandemic. EBB is a Federal Communications Commission program that provides up to \$50 per month towards broadband services for eligible households and up to \$75 per month for households on qualifying tribal lands. Households can utilize the EBB if they have an income that is at or below 135 percent of federal poverty guidelines or participate in certain assistance programs such as SNAP, Medicaid or Lifeline; if they are approved to receive benefits under the free and reduced-price school lunch program or the school breakfast program, including the USDA Community Eligibility Provision in the 2019-2020 or 2020-2021 school year.

Please let your constitutions know about this program. Interested parties may visit www.choice-wireless.com, call 928-730-2273 or visit your local Choice NTUA Wireless store to find out more about this program and apply for it.

The EBB benefit is temporary and will expire when funding is depleted or six months after the U.S. Department of Health and Human Services declares an end to the Covid-19 emergency. In the first month of the EBB program, 398 families are already receiving the benefits of this program.

NTUA Wireless has waived the installation fee and qualifying customers will receive free service for a minimum of six months and longer if the federal funding allows. Please know that qualifying customers for the EBB benefit will receive broadband service at their home, as opposed to only EBB hotspot.

Customers will have the opportunity to sign a contract with NTUA Wireless to continue service at the end of the six months free period or terminate the service without penalty. Please encourage other families to inquire about this program.