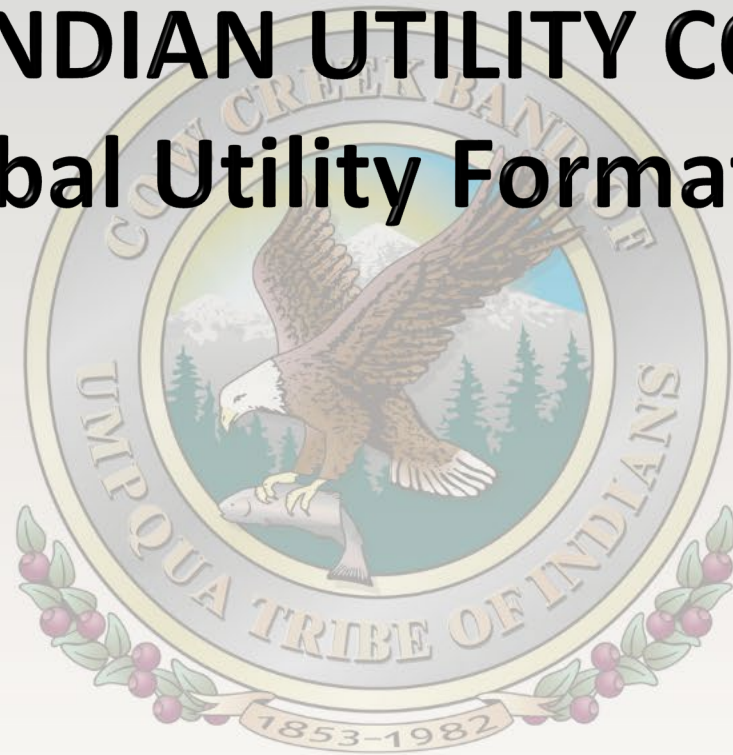


UMPQUA INDIAN UTILITY COOPERATIVE

Tribal Utility Formation



What is the Umpqua Indian Utility Cooperative (UIUC)?



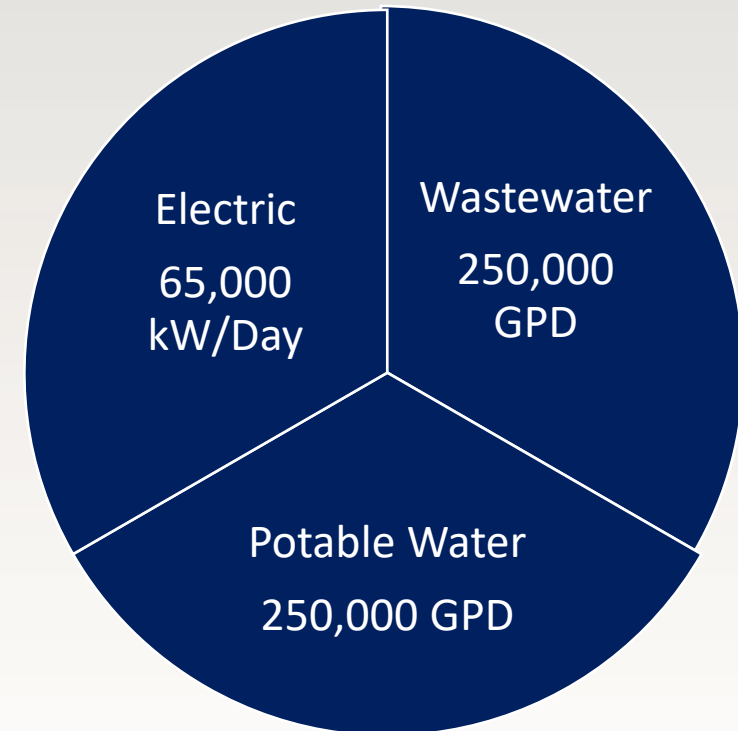
Tribally Owned & Operated

The Cow Creek Band of Umpqua Tribe of Indians is one of nine federally recognized Indian Tribal Governments in the State of Oregon. The Cow Creek Tribe has a rich history in southern Oregon that reflects hard work, perseverance and the desire to be self-reliant. The Cow Creek Tribe never received the reservation that their Treaty had promised. Today, the Tribe is buying back its land and operating various business enterprises for the economic development of the Cow Creek Tribe and the communities in which they live.

On October 1, 2001, the Umpqua Indian Utility Cooperative, UIUC, began serving wholesale electrical loads to the Cow Creek Band of Umpqua Tribe of Indians. Following its inception, UIUC's services expanded substantially in the years that followed:

- 2001 – Electric Services
- 2006 – Sewer Services
- 2007 – Water Services
- 2008 – Irrigation Services
- 2010 – Pumping Services

These developments made it so the tribe could continue to keep its costs down, while protecting and exercising its sovereign status. The Umpqua Indian Utility Cooperative is the first utility in the Northwest both owned and operated by an Indian tribe.



UIUC



UIUC Board

- 5 person board, 4 tribal members and 1 non-tribal member

Employees

- 22 full time employees
 - Journeyman Electricians, Licensed Water/Wastewater Operators, Equipment Operators
- 1 Signing Supervisor
- 1 Electrical Apprentice
- 1 Water/Wastewater Apprentice

Support

- Mike Beanland PE, Willamette Power Engineering
- Margaret Schaff & Associates

Associations

- NWPPA
- ORECA
- ATNI



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Tribal Sovereignty

Ensures full management and control of our resources

- Increased revenue
- Infrastructure self-sufficiency and rate control
- Reduced energy costs associated with electric distribution
- Diversification of tribal assets
- Ability to provide directed rate relief to disadvantaged tribal members
- Create workforce development opportunities
- Development of renewable energy resources for long term price certainty and sustainability

EXHIBIT A

COW CREEK BAND OF UMPQUA TRIBE OF INDIANS
TRIBAL LEGAL CODE

TITLE 300
UMPQUA INDIAN UTILITY CO-OPERATIVE

300-10 PURPOSE AND AUTHORITY

300-10-010 Authorization and Repeal of Inconsistent Legislation.

The Cow Creek Band of Umpqua Tribe of Indians (the "Tribe") is organized under the Indian Reorganization Act of June 18, 1934 (48 Stat. 984), the provisions of the Cow Creek Band of Umpqua Tribe of Indians Recognition Act of December 29, 1982 (P.L. 97-391), as amended by the Cow Creek Band of Umpqua Tribe of Indians Distribution of Judgement Funds Act of October 26, 1987 (P.L. 101-139), and the Cow Creek Tribal Constitution, duly adopted pursuant to a federally-supervised constitutional ballot, on July 8, 1991.

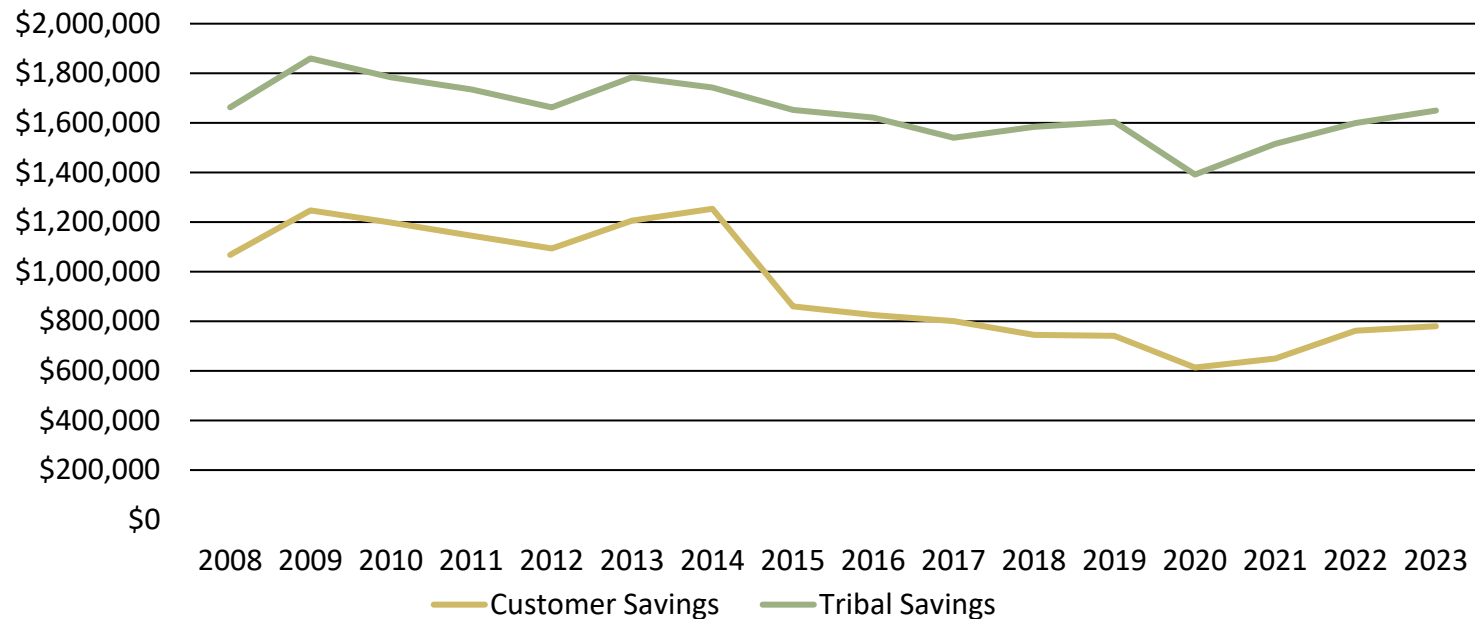
Pursuant to Article III, Section 1 of the Tribal Constitution, the Cow Creek Tribal Board of Directors (the "Board") is the governing body of the Tribe. Pursuant to Article VII, Section I (d) of the Tribal Constitution, the Board has the authority to "administer the affairs and assets of the Tribe . . ." Pursuant to Article VII, Section I (e) of the Tribal Constitution, the Board has the authority to "administer . . . all federal funds . . . and . . . all funds from tribal business enterprises . . ." Pursuant to Article VII, Section I (f) of the Tribal Constitution, the Board has the power to "provide for taxes, assessments, permits, and license fees upon members and non-members within the trust lands under the jurisdiction of the Tribe" Pursuant to Article VII, Section I (g) of the Tribe's Constitution, the Board has the power to "manage all economic affairs and enterprises of the Tribe or to assign such responsibility to such persons, committees or companies (including tribally chartered corporations) as it designates" Pursuant to Article VII, Section I (l) of the Tribal Constitution, the Board has the power to "enact ordinances and laws governing the conduct of all persons on tribal-owned land; to maintain order and protect the safety, health, and welfare of all persons within the jurisdiction of the Tribe; and to enact any ordinances or laws necessary to govern the administration of justice, and the enforcement of all laws, ordinances or regulation . . ." Pursuant to Article VII, Section I (t) of the Tribe's Constitution, the Board has "such other powers and authority necessary to meet its obligations, responsibilities, objectives, and purposes as the governing body of the Tribe."

Pursuant to the foregoing and the Tribe's retention of the full spectrum of sovereign powers, the Board has the authority, desires to and does hereby establish this Title 300 and the Umpqua Indian Utility Co-Operative as an entity of tribal government in order to further the best interest of the Tribe, its members and their communities and for the purposes of acting as a tribal



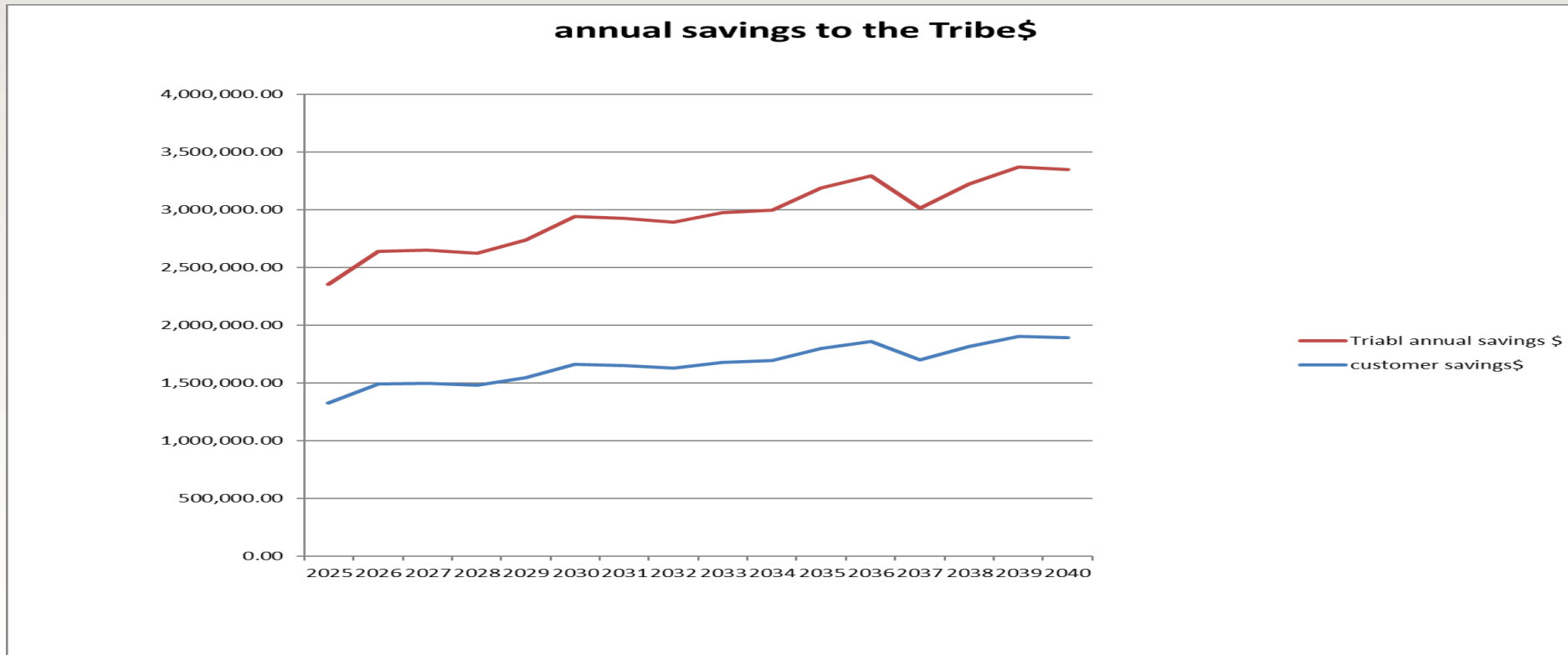
Utility Savings

- Since 2008 the Tribe has saved \$26,387,611 by operating its internal utility vs utilizing public utility services
- \$1,649,255 annual savings



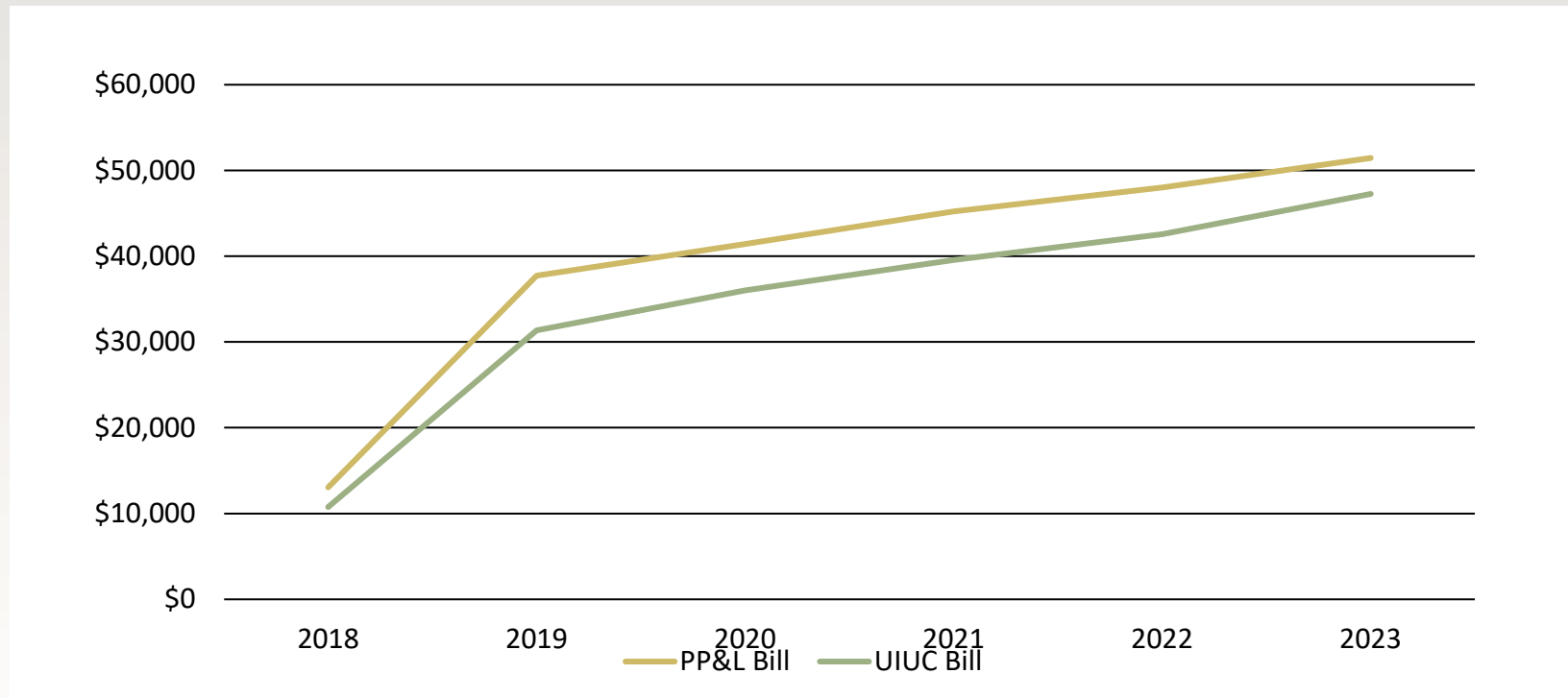
Utility Savings

- In 2025 Pacific Power is proposing a 16.9% rate increase to the Oregon PUC commission.
- In this scenario the Tribe could save \$47,188,124 over the next 16 years by operating its internal utility vs utilizing public utility services that's a \$2,950,000 annual savings



Tribal Housing Electrical Savings

Since August 2018, Tribal members in Tribal housing have saved \$29,234 by using UIUC power. That's an annual average savings of \$706 per household.



2003-2007 CREEKSIDE SITE



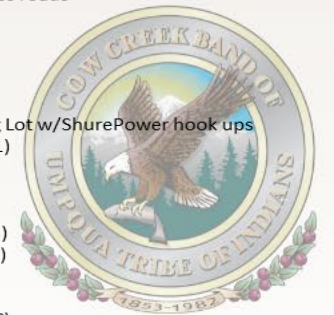
Construction of Potable Water, Waste Water and Electrical Infrastructure and Facilities on 600 Acres from 2003 -2008

Infrastructure

- 27,575 LF of sewer piping
- 16,000 LF of Raw water distribution piping
- 8,000 LF of potable water distribution piping
- 15,000 LF of irrigation distribution piping
- 18,000 LF of electrical distribution (includes high and low voltage)
- Installation of 40 transformers transforming 12,000 volts down to 480/240/120
- 18,000 LF of communication distribution piping
- Construction of 1 mile of paved public road ways
- 3 bridges to cross Jordan Creek
- Construction of 6 miles of maintenance roads

Facilities

- 192 space RV Park
- Rest Stop with a Travel Center
- Expansion of Truck and Travel Parking Lot w/ShurePower hook ups
- Potable Water Dam/Reservoir(Dam#1)
- Potable Water Plant
- Million gallon storage tank
- 4 Raw Water Pump Stations(RWPS)
- Waste Water Dams/Reservoir(Dam#3)
- Waste Water Treatment Plant(WWTP)
- Waste Water Lagoon
- Surge Pond
- 7 Waste Water Pump Stations(WWPS)
- 2 Irrigation Water Pump Stations(IWPS)



WATER SYSTEM



- 9 Customers
 - Served First Customers Nov, 07
 - Average annual load is 60,000,000 gallons
- 376 Acre Ft(123,000,000 gal.) Potable Water Dam/Reservoir
 - Web base 24/7 monitoring system
 - Completed First Fill Summer 08
 - Report Dam operations to BIA Dam safety
- Potable Water Surface Treatment Plant can treat up to 500,000 GPD

- Operated by UIUC, requires level 2 operator
- Treatment via sand filtration
- Report Operations to EPA

Million Gallon Storage Tank

4 RWPS

Tie into City Of Canyonville

Benefits

- Tribal Enterprises can expand with ease
- We create and control water rates
- Tribal Apprentice program
- Creates quality trade jobs in the community



WATER SYSTEM

The Importance of Safe Drinking Water Access to safe drinking water is a fundamental human right and a critical factor in promoting public health. Our essential goal is to ensure the supply of clean and safe drinking water to our communities.

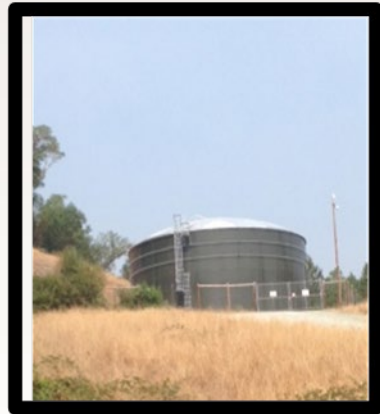
Identifying Water Sources for Treatment Drinking water can be sourced from various reservoirs, including rivers, lakes, and underground aquifers. However, the quality of these sources can differ significantly. Understanding the specific characteristics and potential contaminants of each water source is fundamental in designing effective treatment strategies.

Common Contaminants Found in Water Sources Water sources are susceptible to various contaminants, pathogens like bacteria, viruses, and protozoa can cause waterborne diseases. Organic matter, suspended particles, heavy metals, and chemical pollutants can also be present.



WATER SYSTEM

- ▣ Pre-Treatment Process: Screening removing large debris
- ▣ Coagulation and Flocculation: Binding and settling of impurities
- ▣ Sedimentation: Separating Settled particle
- ▣ Primary Treatment Filtration: Removes Fine suspended particles
- ▣ Disinfection Eliminating Pathogens
- ▣ Ph adjustment: Balancing Acidity and Alkalinity
- ▣ Advanced Treatment
 - UV disinfection: Inactivating Microorganism
 - Powder Activated Carbon, Granular Activated Carbon: Absorbs organic contaminants removes taste and odor compounds



WATER SYSTEM IMPROVEMENTS



Since going online in 2007 UIUC has had to continue to make upgrades to our system to ensure our product is the best it possibly can be

- Implemented a supervisory control and data acquisition (SCADA) system
 - UIUC monitors and controls all pumps and plants via the SCADA system
 - Allows for our operators to address issues quickly
- Hypolimnetic system in our potable water reservoir
 - This eliminates algae bloom that we have seen in our source water the South Umqua river
- In house Geism lab. We can take frequent water samples through out our system to ensure we no algae growth in our water.
- Granular Activated Carbon and Powder Activated Carbon in our water



Importance of Energy Independence



Seven Pillars for Seven Generations

2023 Strategic Vision

Strategic Vision Pillar 3:

We are becoming energy independent.



Key Focus Areas:

1. Determine economic feasibility
2. Consider environmental impact



Energy Independence

- Tribal energy sovereignty
- Energy efficiency and conservation
- Renewable energy development
- Microgrids and energy storage
- Partnership and collaboration
- Tribal Energy Resource Agreements (TERA)
- Energy planning and education



What is the future for UIUC?

Continuing to invest in the utility

- **Continue to provide affordable power**
- **Continue our Apprentice programs**
- **EV car charging**
 - T&T is installing a 12-space level 3 rapid charging station(June-24)
- **Implement renewable projects**
 - UIUC has been awarded federal funds through USDA, DOE and IRA to implement a 15-million-dollar 4 MW solar, 2 MW battery storage and new sub station project . (Winter 24)
- **Ozone generation for water treatment**
 - To continue to provide the best water in the changing climate of our source water we are constructing a 2-million-dollar ozone generation plant for our water system.(Fall24)
- **Covert our WWTP plant to solids handling**
 - This 3.9-million-dollar project will eliminate the frequent, expensive and aesthetically displeasing septic pumping at all our properties. (Fall 25)



QUESTIONS/COMMENTS?



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