

IOWA TRIBE OF KANSAS AND NEBRASKA
EXECUTIVE COMMITTEE
July 10, 2024

- WHEREAS, The Iowa Tribe of Kansas and Nebraska Executive Committee being duly organized met in Special Session this 10th Day of July 2024; and,
- WHEREAS, The Iowa Tribe Executive Committee has authority to act for the Iowa Tribe under the present Constitutional authority, as provided in Sec. 2, Article - Governing Bodies, and,
- WHEREAS, The Iowa Tribe of Kansas and Nebraska being organized and powered by their Constitution and Bylaws (approved November 6, 1978, and ended August 27, 1980); and,
- WHEREAS, The Iowa Tribe of Kansas and Nebraska authorizes the submission of the Department of Interior Tribal Electrification Program grant application, and hereby commits to the activities, milestones, and timelines described in the accompanying application; and
- WHEREAS, Mr. Peter Gregory has been selected as the Tribal project manager and is hereby authorized to act on behalf of the Iowa Tribe of Kansas and Nebraska for the duration of the grant period; and
- WHEREAS, Mr. Artees Vannett has been selected as the Organization Point of Contact and is authorized to act on behalf of the Iowa Tribe of Kansas and Nebraska for the duration of the grant period; and
- WHEREAS, The Iowa Tribe of Kansas and Nebraska hereby affirms that the proposed project will be carried out on Tribal Land as that term is defined in Sec. 40601 a)(6); and
- WHEREAS, The Iowa Tribe of Kansas and Nebraska hereby commits the use necessary Tribal Land and/or Tribal Buildings for the proposed project as described in the accompanying application;
- WHEREAS, The Iowa Tribe of Kansas and Nebraska hereby commits to support to move forward with non-construction contract for materials and equipment procurement; and
- WHEREAS, The Iowa Tribe of Kansas and Nebraska hereby affirms that the proposed project will follow the procurement standards; and
- WHEREAS, The Iowa Tribe of Kansas and Nebraska hereby agrees to enter into a 638 contract with the Bureau of Indian Affairs; and
- WHEREAS, The Iowa Tribe of Kansas and Nebraska hereby committed to support implementation of the scope of work included herein as Attachment A and the budget herein included as Attachment B; and

NOW THEREFORE BE IT RESOLVED, Timothy N. Rhodd, Chairman; Brandon Roberts, Vice Chairman; Anthony Fee, Secretary; Robert Hullman, Treasurer; and Brad Campbell,

Member approve of this resolution.

CERTIFICATION

The foregoing Resolution was duly adopted this date, July 0 2024, in Executive Committee, at which _Y_ members of the Executive constituting a quorum, by a vote for, against. Regular Session of the e were present,



Timothy N. Rhodd, Chairman

ATTEST:

Anthony J. Fee, Secretary
Iowa Tribe Executive Committee

Attachment A

Updated Scope of Work

1) Tribal Affiliation/Organization Contact Information

- Project Owner. Iowa Tribe of Kansas and Nebraska, 3345 B White Cloud, KS 66094,
- Organization Point of Contact: Artees Vannett, Director of avannett@iowas.org, 541-225-8316
- Tribal Project Manager: Peter Gregory, Grey Snow Solutions' pgregory@greysnow.com, 541-654-77

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2) Project Title: Iowa Tribe of Kansas and Nebraska Community-Residential Microgrids

Scale

3) Project Location

The proposed project will consist of two project sites located in White Cloud, KS 66094. The project sites include the:

C oud, KS 66094.

- Iowa Tribe Housing Authority Complex (ITHAC) located at 11 T St, White Cloud, KS 66094. This site is located in Doniphan County in the Iowa Township, and
- White Cloud Community and Residential Complex (WCCRC) located in the Iowa Tribe of Kansas and Nebraska reservation in White Cloud, KS 6094. This site is located in Brown County, KS in the Irving Township.

The Iowa Tribe of Kansas and Nebraska (ITKN or the "Tribe) is excited to present our project proposal for clean energy residential electrification. With the aim of enhancing energy resilience, reducing costs, and empowering and protecting our community, we have partnered with Grey Snow Sovereign Solutions, a subsidiary of the Tribe, and established the Solar Technology Acceleration Center (SolarTAC) and GridNXT. Through these strategic collaborations, we are committed to developing a skilled and enduring workforce within our community, ensuring that the benefits of renewable energy projects extend across generations.

Our proposed green energy system includes solar power, energy storage, back-up generation, and the distribution infrastructure to support robust power delivery and long-term security for the residents. The estimated lifespan of the microgrid is 30 years, and the system is designed to be cost-effectively upgradeable to last for many decades after that. The project will have a direct impact on 100 total households: 48 households located on the IKN reservation and an additional

52 residences in the Iowa Tribe Housing Authority Complex (White Cloud, KS). Currently, these households experience numerous electric outages on a regular basis and, looking ahead, they are severely threatened by continued rising costs and unpredictable availability of power. By enhancing the electrification of these homes, we will improve the quality of life for our community members, while reducing our carbon footprint and promoting environmental stewardship.

This project is a zero-emissions initiative, aligned with our commitment to sustainability and environmental responsibility. By implementing microgrid technology, we are taking a significant step towards achieving energy sovereignty and security. Microgrids empower our community to

take control of our energy future by generating and storing energy locally, reducing reliance on external sources and mitigating vulnerabilities associated with centralized energy grids. This not only enhances energy security but also significantly reduces our carbon footprint, contributing to a healthier environment.

To ensure the success of our project, we will be interconnected with an external grid for emergency purposes. This connection will provide a reliable backup system, ensuring uninterrupted power supply during unforeseen circumstances. To date, significant progress has already been made in conducting site analysis, energy audits, system design and modeling, and selection of appropriate technology.

Moving forward, next steps involve securing grant approval, ensuring compliance with the National Environmental Policy Act (NEPA), engaging with stakeholders to obtain necessary permits, and ultimately realizing our vision of comprehensive residential electrification powered by clean energy. We are committed to going beyond environmental compliance and will adhere to NEPA regulations throughout the project, conducting thorough assessments of potential environmental impacts and implementing appropriate mitigation measures.

Furthermore, we have developed a comprehensive plan for the continued operations and maintenance (O&M) of our microgrid sites integrated with community-based workforce development programs. If awarded, we will sign a five-year O&M contract with Grey Snow Sovereign Solutions, who will train tribal members in the necessary skills to operate and maintain the systems. In addition to creating job opportunities for our community, this partnership will also ensure the long-term sustainability and efficiency of our clean energy infrastructure.

In addition to the O&M program, we will further support local workforce development by recruiting, training and hiring tribal members and/or local workers as installers for the project. The workforce will then be extended to our Grey Snow Sovereign Solutions subsidiary to deploy similar microgrid systems to other Native American tribes throughout North America. Sandia Labs conducted a social impact study between 2022-2023 on behalf of the Iowa Tribe of Kansas and Nebraska, which concluded that the overall social burden on the community will be significantly improved by this Microgrid. According to the study, the Microgrid project has the potential to reduce the social burden on the community by five to ten times. This means that the project will have a profound positive impact on the lives of community members, addressing key challenges and improving their overall well-being. This study further validates the importance and urgency of implementing the Microgrid project, as it will significantly alleviate the social burdens faced by the Iowa Tribe of Kansas and Nebraska. By providing reliable and clean electricity, the Microgrid as proposed herein will enhance the quality of life for community

members, promote economic stability, and contribute to the overall for our Tribe.

soci I development

In line with the Justice40 Initiative, this project will direct 100% of disadvantaged community (DAC). These communities have underinvestment and environmental challenges. As such, our clean electrification project households that are most in need. Every aspect benefits, such as access to clean energy, job creation, and improvements, are directed towards these areas. This commitment Federal goal of uplifting marginalized communities through sustainable Furthermore, to ensure meaningful engagement with our community the principles of the Justice40 Initiative, we have planned a series of feedback mechanisms. These engagements will be integral to our execution, ensuring that the voice and needs of our community are at our forefront. By doing so, we aim to not only meet, but exceed Justice40 demonstrating our dedication to equitable and sustainable development within the Iowa Tribe of Kansas and Nebraska.

its est fication success war run benefited historically faced energy residential of the overall environmental aligns with the investments. and adherence to consultations and project design and the forefront of requirements,

Through technical assistance from GRID Alternatives, the Department of Energy (DOE) C-LEAP program (including analysis and modeling from the National Renewable Energy Lab (NREL) and Sandia Labs), and the FEMA BRIC program, the Iowa Tribe of Kansas and Nebraska has been able to assess and document and understand the needs of each community location and design project specifications to meet the communities' specific requirements.

The proposed project sites have a preliminary cost estimate of \$19,977,970. This estimate was determined following an on-site analysis of each project site location, energy use audit, and cost estimates provided by the companies which will provide the various technologies to be deployed. We are requesting Federal funding of \$9,400,000 from the TEP grant and we are eligible for ITC and Bonus Adder "direct pay" incentives from the Inflation Reduction Act of 2022. The funding request as detailed in the revised budget represents only long-lead time materials and equipment purchases as this helps to ensure we are completing the project in a timely manner. The Tribe will contribute the remaining non-Federal funds, for construction and ITC gap financing from participating lenders, RE-involvement and Collective Support (Letters of Support included). Our finance team is negotiating financing structures to select the most favorable terms and Debt Service Coverage Ratios to maximize positive returns. The end result of the funding package is to set the cost of energy to the residents to a rate that is affordable today and is fixed for the

future.

In summary, two Microgrids will be installed in two neighborhoods to include the following:

- New Underground High-Voltage Distribution Infrastructure to every home
- Solar PV Power Distribution
- Battery Energy Storage System
- Data Monitoring & Control Systems
- Operations & Maintenance Infrastructure

Overall, the Iowa Tribe of Kansas and Nebraska's Tribal program for electrification, planning, retrofitting, and upgrading demonstrates its readiness to carry out the proposed activities. Through partnerships, legal authorities, systematic processes, and workforce development initiatives, the Tribe is well-prepared to utilize the proposed funding to improve access to clean energy, transition to zero-emissions energy systems, upgrade electrical distribution infrastructure, and provide valuable workforce development opportunities. The funding received from the TEP grant will allow our proposed timeline to be expedited with the purpose of only materials and equipment needed to accomplish the above goals.

With the help of the TEP grant, we are able to create a robust, clean energy infrastructure for our residents, who today experience poor quality of service. Without this microgrid enhancement, the power residents will continue to worsen and the cost to our residents will increase, resulting in an untenable and insecure future. With this enhancement, our residents will receive virtually "perfect" power — now and for generations to come.

By securing grant approval, ensuring NEPA compliance, and engaging stakeholders, we will create a more sustainable and resilient future for Kansas and Nebraska. Through the development of a skilled workforce and implementation of state-of-the-art technology, in addition to improving our community members we are also contributing to the wider renewable energy industry and the economic vitality of Indigenous communities nationwide.

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Attachment B

Workplan Task	Equipment		Unit Cost		Basis of Cost Estimate		Justification of Need
2.3. 3.4	Batteries for solar storage (EXAMPLE)		\$15,000	\$15,000	Vendor Quotes -Attached	30 kW of backup battery	ge required for proposed system operations
	Long-Lead AC and DC Equipment		\$317,500	\$546,000	Vendor Information along with Historical Project Data	AC and DC power equipment Long-Lead items.	for energy management Of the microgrid system.
1	Energy Storage Equipment	1			Vendor Information along with Historical Project Data	Energy Storage equipment	for the microgrid system. Long-Lead item.
1	Distribution Infrastructure		952,500	SI	Vendor Information along with Historical Project Data	Costs associated with addin distribution to all homes on	in the necessary distribution equipment for solar power Tribal Land. Long-Lead items.

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