Build Kansas Fund | Fiscal Year 2024 Application Package | Memo

To: Senator Ty Masterson, Chair, Build Kansas Advisory Committee
Murl Riedel, Kansas Legislative Research Department
Shauna Wake, Office of the Kansas State Treasurer

From: Matthew Volz, Executive Director, Kansas Infrastructure Hub

RE: Build Kansas Fund Application #2024-036-40101d-Attica

Date: April 12, 2024

Attached, please find an application made to the Build Kansas Fund by the City of Attica. The application packet includes the following items:

- Coversheet – provides a high-level overview of the application including a unique identification number, page 1 of 25 of the Build Kansas Fund Application Package.
- Build Kansas Fund Application – includes information submitted with the Build Kansas Fund Application, pages 2-7. Page 7 provides the table of funding sources.
- Attachments – copy of BIL application, pages 8-25.

Project Overview
Under the Preventing Outages and Enhancing the Resilience of the Electric Grid - Section 40101(d), the U.S. Department of Energy (DOE) provides grants to States to improve the resilience of their electric grid against disruptive events. The Kansas Corporation Commission (KCC) received more than $13.3M from the DOE for fiscal years 2022 and 2023. During the application period, KCC received 31 submissions, with more than $40.1M in project funding requests. Ultimately, the agency selected 11 applicants across Kansas with Build Kansas Fund requests totaling $5.84M, unlocking $12.08M in federal funding.

The City of Attica seeks funding from the Kansas Corporation Commission (KCC) through the 40101d program. The City's 34.5 Feeder Line Project will leverage strategically placed, Supervisory Control and Data Acquisition (SCADA)-controlled reclosers to enhance electric reliability in Linn County.

This opportunity is a pass-through discretionary BIL program with a local match requirement of 48.33%. The entity is requesting $143,370.78 from the Build Kansas Fund. This request has the potential to unlock $296,629.22 in federal funds.

The State's internal deadline for 40101d applications to Kansas Corporation Commission was December 29, 2023. This is an ongoing Federal program; however, it would be advantageous for the State to submit its application package as soon as possible. This Build Kansas Fund application was received on March 14, 2024, and subsequently deemed acceptable for this program.

Build Kansas Fund Steering Committee Recommendation
The Build Kansas Fund Steering Committee reviewed this application on April 3, 2024, following a successful completeness check. The Steering Committee **RECOMMENDS APPROVAL** of Build Kansas Funding to the Build Kansas Advisory Committee for final advice.

Build Kansas Fund | Fiscal Year 2024 Application Package | Coversheet

Build Kansas Fund Application Number	2024-036-40101d-Attica	
Project Name	34.5 Feeder Line Project	
Entity Type	Local Government	
Economic Development District (EDD) Planning Commission	South Central Kansas Economic Development District	
Infrastructure Sector(s)	Energy	
BIL Program	Preventing Outages and Enhancing the Resilience of the Electric Grid – 40101(d)	
BIL Program Type	Discretionary (State Pass-Through)	
BIL Application Deadline	12/29/2023	
Build Kansas Fund Request	$143,370.78	
Technical Assistance Received	General	No
	BIL Application	No
	Build Kansas Fund Application	Yes
	Other (Brief Description): Support on application and budget submission	
Application Notes	Build Kansas Fund contribution of $143,370.78 will unlock $296,629.22 in federal BIL funding. *The application for BIL funding was submitted to KCC for review and approval and received DOE support prior to submitting for BKF.*	

Steering Committee Funding Recommendation	**4/3/2024| Recommend**

Advisory Committee Target Review	**DATE | Recommend or Deny**

Advisory Committee Funding Recommendation	**DATE | Approve or Deny**

Completeness Review Data

Date Build Kansas Application Received:	3/14/2024
Date Of Completeness Check:	3/14/2024; 4/2/202
Date Forwarded to Steering Committee:	4/02/2024

Title

City of Attica

03/14/2024

by **Lori Ryan** in **Build Kansas Fund Fiscal Year 2024 Application**

id. 45899509

atticaclerk@cityofatticaks.com

Original Submission

03/14/2024

Score	n/a
	Part 1: Applicant Information
The name of the entity applying for the Build Kansas Fund:	City of Attica
Project Name:	34.5 Feeder Line
Entity type:	Local Government
Applicant Contact Name:	Lori Ryan
Applicant Contact Position/Title:	City Clerk
Applicant Contact Telephone Number:	+16202547216
Applicant Contact Email Address:	atticaclerk@cityofatticaks.com
Applicant Contact Address:	127 North Main Street
Applicant Contact Address Line 2 (optional):	Post Office Box 421
Applicant Contact City:	Attica
Applicant Contact State:	Kansas
Applicant Contact Zip Code:	67009

Is the Project Contact the same as the Applicant Contact?	Yes
	Part 2: Build Kansas Fund - Eligibility Criteria
Certify that you are pursuing a viable Bipartisan Infrastructure Law (BIL) funding opportunity for which your entity is eligible:	Yes
Certify that the Bipartisan Infrastructure Law (BIL) funding opportunity you are pursuing has a required non-federal match component:	Yes
What is the primary county that the project will occur in?	Harper County

The Build Kansas Fund is intended to support Kansas-based infrastructure projects. Please provide a list of all the zip codes this project will be located in, along with an estimated percent [%] of the project located in that zip code. For example, if seeking funding for road infrastructure, provide a rough percent of the roads expected in each zip code:

Zip Code Percentage.xlsx

	Part 3: Bipartisan Infrastructure Law (BIL) - Grant Application Information Please Note: This information is related to the federal Bipartisan Infrastructure Law (BIL) funding opportunity to which you will apply. This is NOT information for the Build Kansas Match Fund.
Please enter the Bipartisan Infrastructure Law (BIL) funding opportunity title that the entity is applying for:	Build Kansas Matching Fund to accompany the KCC Grant
What is the funding agency for this Bipartisan Infrastructure Law (BIL) funding opportunity?	U.S. Department of Energy

What is the Assistance Listing Number (ALN) for this Bipartisan Infrastructure Law (BIL) funding opportunity?	81.254
What is the application due date for this Bipartisan Infrastructure Law (BIL) funding opportunity?	4/15/2024
What is the federal fiscal year for this Bipartisan Infrastructure Law (BIL) funding opportunity?	2024
Enter the amount of funding being applied for, from the Bipartisan Infrastructure Law (BIL) funding opportunity:	$296,629.22
Enter the required non-federal match percentage:	48.3333
	Part 4: Build Kansas Fund - Match Application Information
Enter the non-federal match amount being requested from the Build Kansas Fund:	$143,370.78
Is the project able to move forward with a lesser match amount than requested?	No
If you are awarded less match than the amount requested, at what amount would your project NOT be able to move forward?	$143,370.78

Expected breakdown of funding sources to support the project: Enter the funding source and projected amount from each source to support this project:

Kansas+DOT+table.xlsx

	Part 5: Build Kansas Fund - Means Test
Confirm that there are no available funding sources currently planned to go unused by your entity that could be leveraged for this project:	Yes
Confirm there are no available American Rescue Plan Act (ARPA) or Coronavirus State & Local Fiscal Recovery Fund monies that could be used for this match:	Yes
Confirm that you have explored other readily available funding sources (federal or non-federal) to be used for this match:	No
Briefly describe your efforts to find other available funding sources for this project:	There are no other funding options at this time.
	Part 6: Additional Information

Please upload a copy of the Bipartisan Infrastructure Law (BIL) program application associated with this request OR a 2-page executive summary providing an overview of the project:

20240314160558494.pdf

Provide any additional information about this project (optional):	
	Part 7: Terms and Conditions

Understanding of Fund Release Requirements:	checked
Understanding of Use of Funds:	checked
Understanding of Reporting Requirements:	checked
Authority to Make Grant Application:	checked
Persons and Titles: The following persons are responsible for making this Build Kansas Fund application.	Lori Ryan
Position/Title:	City Clerk for the City of Attica
Additional:	
Position/Title:	
Additional:	
Position/Title:	
Additional:	
Position/Title:	

Internal Form

Score	n/a
	Pre-Award Information:
	Post-Award Information:
	Deviation Report:

Source	Amount	Zip Code	% of project in zip code
BIL Federal Funds (applied for)	$ 296,629.22	67009	100
Build Kansas Funds (non-federal match)	$ 143,370.78		
Additional Project Contribution (if applicable)			
TOTAL PROJECT COST	$ 440,000.00		

Title

34.5kV Feeder Line Rehabilitation Project / (aka: "FL Rehab Project")

12/29/2023

id. 45048081

by **Lori Ryan** in **SECTION 40101(d): Preventing Outages & Enhancing the Resilience of the Electric Grid**

atticaclerk@cityofatticaks.com

Original Submission

12/29/2023

Score	n/a
	Section 1: Applicant Information
Entity name:	City of Attica
Entity Type:	Distribution Provider
Entity address:	127 North Main Street Post Office Box 421 Attica Kansas 67009 US
Employer Identification Number (EIN):	48-6005761
Unique Entity Identifier (UEI):	EY4UT5HW9FB5

Please upload verification of eligible entity size and documentation of annual sales per year:

20231109151722439.pdf

Attica_2023-2024_PPC.pdf

EIA Table

2021 Utility Bundled Sales to Ultimate Customers List .xlsx

Project Manager name:	Lori Ryan
Project Manager phone number:	+16202547216

Project Manager e-mail address:	atticaclerk@cityofatticaks.com

IRS Form W-9:

20231109152935229.pdf

Latest financial statement and financial statement audit:

20231103104628434.pdf

Please acknowledge whether your entity has ever submitted an application, similar in nature, to the DOE under BIL Section 40101c, DE-FOA-002740, Grid Resilience and Innovation Partnerships (GRIP):	No
	Section 2: Project Description and Scope
Project Name:	34.5kV Feeder Line Rehabilitation Project / (aka: "FL Rehab Project")
Project type:	Replacement of old overhead conductors & underground cables
Project description and scope:	The City of Attica aims to support initiatives that enhance community well-being by upgrading key locations within the largest customer base and representing the largest budgetary impact within the city's service territory by upgrading and improving deteriorated critical electric infrastructure. The project location and scope has also included significant measures to include schools, long-term care facilities, and city offices that also provide emergency support services to all residents in the city of Attica. The 34.5kV Feeder Line Rehabilitation Project / FL Rehab Project is considered a transformative initiative aimed at not only enhancing the reliability and sustainability of the electric utility system in Attica, but also addressing the unique challenges faced by this disadvantaged community. This project aligns with the city's commitment to social equity and aims to ensure that all residents benefit from the improvements to the electric utility infrastructure. In response to the growing need for modernization and efficient electric utilities from utility customers, economic developers, and electric utility staff, the Electric Grid Rehabilitation Project addresses the challenges faced by the City of Attica and its customers in ensuring reliable and sustainable energy access. The objective will upgrade and modernize electric utility 34.5kV line; enhance energy efficiency and reliability; and contribute to the overall economic and social development of the community. It should be noted that this project has not been funded by any other sources or under application review from other grant opportunities. The City of Attica has approximately eighteen (18) miles of electric utility lines within its service territory which are all in need of rehabilitation. For this project scope, the city would like to upgrade and rehabilitate (2) miles

of the main feeder line, determined by the largest number of customers affected. The Attica Long-Term Care Facility, Attica Fire Department, Attica Schools, and City Hall are among the customers in the project scope and all within the one mile of the project location. The project will include:
34.5 kV Line Rebuild from the Attica Interconnection Meter to the Substation
The 34.5 kV line will be rebuilt from the Attica interconnection meter to substation which will include installing new poles, conductors, insulators, transformers, and other necessary components. This line is approximately two (2) miles in length and is considered the most immediate need as it is past its useful life and has suffered damages frequently due to high winds, ice storms, and other severe weather events. This line does provide service to the entire customer base in Attica. This process will involve collaboration among engineers, contractors, regulatory authorities, and other stakeholders to ensure a successful and safe rebuild of the 34.5kV line from the meter to the substation.

Upgrading Deteriorated Three-Phase Circuits
All three-phase circuits that have experienced wear, damage, or deterioration over time will be replaced. In this process, old and faulty equipment will be removed and replaced. New insulation materials will be installed which will enhance protective measures to prevent short circuits or other electrical issues. The upgrading of these circuits will be necessary to ensure that the three-phase circuits comply with the latest industry standards and regulations, especially in terms of safety and environmental considerations.

Replacing Approximately 28 Electric Poles
Approximately twenty-eight (28) electric poles with supporting materials such as insulators, crossarms, hardware, and other components will be replaced. Coordination between city utility crew and contractors will ensure that lines are de-energized from existing electric poles. Existing poles and materials will be removed. Foundations and footings for the new poles will be installed according to engineering specifications and local regulations. After completion, crews will remove any debris and construction materials from the site.

Replacing Approximately 6 Transformers
Approximately one hundred and six (6) transformers will be replaced in the scope of this project and is necessary as they have deteriorated beyond their useful life. This will also help maintain grid parameters within acceptable limits, preventing voltage fluctuations and power quality issues. These issues have been an ongoing problem form the City of Attica and for their customers. The upgraded transformers will allow for integration of new distributed power generation sources and the optimization of the grid’s capacity and efficiency.

Hiring Contractors to Perform the Work
Consultants from KPP Energy have assisted the City of Attica with the scope of work and cost estimates for this project. KPP Energy provides project managing services free of charge to its members for electric utility projects. They have provided the projected costs of this project to reflect current pricing of material and labor in accordance with other current KPP

Energy electric utility projects.
The City of Attica utility staff do not have the resources and expertise to make these needed changes and upgrades to the electric utility system. A certified electric contractor would provide for this project the following:
• Project Assessment and Planning
• Engineering and Design
• Permitting and Regulatory Compliance
• Material Procurement
• Construction and Installation
• Equipment Testing and Commissioning
• Safety Measures
• Quality Assurance and Inspection
• Documentation
• Training
• Project Management
• Post-Implementation Support
• Site Cleanup

Section 3: Need for Funding

Project funding need:

The 34.5 Feeder Line Rehabilitation Project ("FL Rehab Project") proposed for the City of Attica stands as a crucial initiative. This endeavor encompasses a thorough evaluation of the current infrastructure, targeted enhancements, and the integration of state-of-the-art safety features. The overarching goal is not only to meet Attica's immediate energy requirements but also to anticipate and accommodate future demands, thereby supporting the sustainable growth of Attica's rural and disadvantaged community.
Funding assistance for this project is imperative for various reasons, as it addresses a multitude of challenges faced by the community, contributing significantly to its overall well-being and development. According to the Climate and Economic Justice Screening Tool, the City of Attica is classified as a disadvantaged community. Moreover, it falls within the 78th percentile for low-income residents, underscoring the economic challenges the city confronts. The implications of being labeled a disadvantaged community reverberate through various facets of daily life in Attica.
Rural disadvantaged communities, such as Attica, often grapple with limited job opportunities, restricted access to diverse industries, and fewer career paths. This results in lower average incomes compared to their urban counterparts, perpetuating a cycle of financial strain for residents. The scarcity of economic opportunities exacerbates poverty rates, making it more challenging for individuals and families in Attica to meet their basic needs and achieve financial stability. This economic strain further translates into limited resources for essential services and infrastructure projects, intensifying the need for external assistance in revitalizing critical components of the community, such as the electric grid.
Additionally, the designation as a disadvantaged community highlights the existing disparities in access to healthcare facilities, compounding challenges for residents in Attica. Limited access to medical services further underscores the need for reliable electricity, as power outages can disrupt essential healthcare equipment and services, impacting the well-being of the community's vulnerable populations.
As outlined in the project narrative, the current electric infrastructure is

deemed outdated and inadequate, leading to frequent power outages, safety hazards, and unreliable access to electricity. Upgrading the electrical system is imperative for ensuring a reliable and efficient power supply, addressing these critical issues that disproportionately affect a disadvantaged community like Attica.

In 2022, the City of Attica reported a balance of $87,359 in the General Fund and $397,348 in the Electric Fund. A financial analysis on the Electric Fund revealed an Operating Ratio of 91.55% and a Net Income as a Percentage of Operating Revenue of (-3.25%). These metrics deviate significantly from acceptable industry standards, underscoring the urgency of assistance for this project. The city's current budget is primarily allocated to cover immediate day-to-day operational needs of the electric utility, leaving minimal resources for costly electrical upgrades. With only four employees in the Public Works Department overseeing multiple essential services, the city lacks the time and resources necessary to undertake a project of this magnitude without external support.

The significance of the 34.5 FL Rehab Project extends beyond the technical upgrades to Attica's electrical infrastructure. Reliable electricity is the lifeblood of a thriving community, and for a disadvantaged community like Attica, it holds even greater significance. Enhanced power stability translates to fewer disruptions in daily life, increased productivity for local businesses, and heightened safety for all residents, particularly those facing economic hardships. A modern electrical grid is not merely an amenity; it serves as a catalyst for progress, attracting new businesses, fostering innovation, and elevating the overall quality of life for Attica's residents.

By securing funding for this project, Attica has the opportunity to break free from the constraints of an outdated electric feeder line, paving the way for sustained economic development, improved living standards, and enhanced resilience against future challenges. The FL Rehab Project stands as a testament to the city's commitment to fostering a thriving, inclusive community that prioritizes the well-being of its residents and lays the foundation for a more prosperous and equitable future.

Provide historical and post project estimated interruption frequency and duration data, if known.	The City of Attica estimates that the electric system incurs approximately 30+ power outages annually and this number does not include surges or blinks. These 30+ outages encompass approximately 150+ people that were effected during those outages. This extremely high number of outages illustrates significant and recurring issues with the reliability of the power infrastructure. Most of the outages are due to wind and weather-related events and the overall condition of the electric system. Attica utility crew have implemented measures to minimize the impact of wind, such as regular maintenance, vegetation management around power lines, and the installation of more robust equipment. Despite these efforts, weather events with wind can still pose significant challenges to maintaining a reliable electrical supply in Attica. Since the electric infrastructure in Attica is past its useful life, there are more instances of downed power lines and equipment failures on a continuous basis. If improvements are made to address the underlying factors contributing to the high frequency of power outages in Attica, there can be several positive outcomes that lead to a reduction in outage frequency. Investing in modernizing and upgrading the power infrastructure with newer and more resilient components can enhance the overall reliability of the system. Newer equipment is often designed to withstand adverse weather conditions and is less prone to failures. Integrating advanced technologies, such as smart grids and sensors, into the power distribution system enables quicker detection of faults and more efficient response times. Automated systems can isolate and reroute power to minimize the impact of outages. Also, by addressing the power grid's capacity constraints by upgrading transmission lines, substations, and other critical components can manage higher loads and reduce the strain on the systems during peak demand periods, lowering the risk of overloads and outages. While the initial implementation of these improvements may require significant investment and effort, over time, they can lead to substantial reduction in the frequency and duration of power outages. A more reliable and resilient power infrastructure benefits both the community and the economy by ensuring a consistent and uninterrupted supply of electricity.

Provide pro rata customer impact of total project cost.	Implementing the electric 34.5 FL upgrade to reduce outage frequency can have various implications for both utility providers and customers. The City of Attica feels that it is important to carefully balance the costs and benefits of the FL upgrade, considering both short-term and long-term impacts on customers. The upfront costs associated with upgrading the electric infrastructure, including replacing aging equipment, implementing modern technologies, and improving resilience to severe weather are considered substantial for a community like Attica's. These costs are typically borne by the utility provider, and they may pass some of the expenses onto customers through rate adjustments. Public engagement and transparent communication about the financial implications of such projects can help build support for necessary improvements in the power infrastructure. For commercial customers, the financial implications of power outages go beyond just the cost of electricity. Improved reliability can lead to reduced economic losses associated with downtime, spoiled goods, interrupted operations, and other inconveniences. Business may find the investment in infrastructure upgrades worthwhile if it helps maintain continuous operations. Enhanced infrastructure and preparedness may reduce the financial burden on emergency response services. Fewer outages mean less demand for emergency services during power-related crises, potentially resulting in cost savings that can indirectly benefit customers. The City of Attica averages 5,024,832 kWh in sales annually and has approximately 492 electric customers. If each customer paid for the $440,000.00 for the rehabilitation project equally, that would amount to $894.31 per customer or an adjustment of $0.30 cents per kWh consumed in one year. Obviously, this would not be a viable option for any customer. We estimate that the upgrade on the electric system would reduce the amount of line losses and reduce the overall cost of the wholesale power purchases from KPP Energy by around 6%. In 2022, the City of Attica paid $619,406 in wholesale power cost, which if the needed improvements were made, would represent $37,164.36 in savings to the City of Attica and its customers.

Provide number of customers to be impacted by the project and percentage of impacted customers to total customers in the disadvantaged or underserved community.	The City of Attica stands at the crossroads of economic hardship and environmental vulnerability, spotlighted as a disadvantaged community through the lens of the Climate and Economic Justice Screening Tool. As per the latest data from the US Census Bureau, the city is home to a population of 516 residents, among whom 17.2% have surpassed the age of sixty-five (65). In the stark landscape of financial struggles, the poverty rate reached 18.5% in 2021, marking a disheartening 1.95% escalation from the preceding year. Economic tribulations loom large over Attica, as evidenced by the median household income staggering at a mere $39,844—less than half of the state of Kansas' overall median household income. This stark fiscal contrast extends to the realm of property values, with the median property value in Attica plummeting to a modest $41,000. The economic narrative of Attica is further elucidated by the presence of 492 electric utility customers, each tethered to a grid that echoes the financial strains of the community. In the face of these challenges, the FL Rehab Project emerges as a beacon of hope. The total estimated cost for this ambitious undertaking stands at $440,000, a figure that underscores the magnitude of the community's infrastructural needs. Recognizing the disproportionate burden carried by specific segments of the population, the proposed allocation includes a targeted disbursement of funds. Crucially, the comprehensive map generated by the screening tool paints a upsetting picture, revealing that every customer within the service territory is entangled by the tendrils of disadvantage. Consequently, the proposal suggests a holistic approach, suggesting that the entirety of the project cost—100%—should be judiciously allocated to address the pressing needs of Attica's beleaguered community. In doing so, the FL Rehab Project endeavors not only to revitalize infrastructure but to sow the seeds of equitable recovery in the fertile soil of a disadvantaged city. It should also be noted that the citizens have lost expensive appliances due to unexpected power outages and power surges. The City does not assist the citizens with their losses.
	Section 4: Complete Budget and Narrative
Award amount requested:	440000.0
Matching funds to be provided:	98868.75
Budget (Total Costs):	**Budget Template DRAFT.xlsx**
Project budget upload (optional):	**kcc_grant_project_budget.docx**
Project budget narrative:	The purpose of this narrative is to provide a detailed explanation of the $440,000 total project costs for the Attica FL Rehab Project. The city plans to rehabilitate two (2) miles of the service area. This would include replacing approximately twenty-eight (28) electric poles and related wiring

and hardware in addition to approximately six (6) transformers. The budget has been carefully developed to support the successful implementation of the project and achieve its objectives. The budget includes various cost categories, each of which is essential for the overall success of the project and are explained below.

Materials and Supplies - $275,000:
This category covers the cost of materials and supplies necessary for the project's activities. The estimated total cost of materials and supplies for this project is $275,000. It includes the assorted items below which are integral to the successful execution of the project plan. Efforts have been made to identify cost-effective suppliers without sacrificing quality, skillsets, and resources. Materials included are priced with current vendors pricing sheets:

• Electric Poles – New utility poles made of wood, steel, or composite materials.
• Guy Wires & Anchors – Guy wires for stabilizing and supporting poles.
• Crossarms & Brackets – Crossarms for supporting power lines and electrical equipment. Mounting brackets for attaching crossarms to the poles.
• Insulators – Electrical insulators to prevent current flow to the poles. Insulator brackets for attaching insulators to the crossarms.
• Circuit Breakers – Types and sizes based on electrical load and specific requirements.
• Electric Wiring – Aluminum wiring of appropriate gauge and wiring conduits when necessary.
• Electrical Boxes – Junction boxes for connecting wires and electrical box extensions if necessary.
• Wire Connectors – Wire nuts for connecting and securing wires.
• Electrical Panel Components – Replacement breakers and additional breaker units.
• Grounding Equipment – Grounding rods and grounding wire.
• Conduits & Fittings – Electrical conduit and fittings if surface wire is required.
• Electrical Insulation – Insulating materials for exposed wires.
• Concrete for Pole Base – Concrete mix for creating a stable foundation for the poles.
• Replacement Transformers – New transformers matching the specifications and requirements needed.

Contractual - $165,000:
The contractual category covers the cost of contractual services and equipment used by selected electrical contractors. The City of Attica recognizes the importance of leveraging external expertise to complement the electric utility staff, ensuring that the project meets industry standards, safety regulations, and efficiency benchmarks. This contractual section encompasses a range of services to be outsourced and an official request for proposal will be prepared and announced upon the notice of grant award. The estimated total cost of contractual services and equipment needs for this project is estimated to be $165,000. The contractors will provide for the construction of approximately twenty-eight poles (28), installation of approximately six (6) transformers, along two (2) miles of

electric lines within the City of Attica service territory. This section reflects a strategic and comprehensive approach to engaging external services, aligning with the project's overarching goals of safety, compliance, and efficient infrastructure upgrade. Regular monitoring and assessment will be conducted to ensure that contractual services are delivered on time and within budget, contributing to the overall success of the FL Rehab Project. Contracting external services is essential to guarantee the project's success, mitigate risks, and maintain high-quality standards throughout the electric infrastructure upgrade.

• Engineering & Design Services – A qualified engineering firm will be engaged for detailed design and planning, ensuring that the upgraded infrastructure aligns with current electrical codes and standards. This includes the development of comprehensive engineering drawings, schematics, and specifications.
• Project Management Services – KPP Energy will provide project management services to the City of Attica at no cost to the city.
• Construction & Installation Services – Contractors with electric construction experience will be selected for the physical installation of new equipment, wiring, and components, as well as the removal and disposal of outdated infrastructure.
• Training & Capacity Building Services – City Staff will partner with contractor with training and capacity building to ensure that internal staff are well-equipped to operate and maintain the upgraded infrastructure. Training programs will occur to cover safety protocols, equipment handling, and emergency response procedures.

Contingency – Materials and Contractual:
In recognition of the dynamic nature of electric project environments, a contingency of 5% was included on total supplies and a contingency of 10% was included on contractual. This contingency will serve as a financial buffer to address unforeseen events, mitigate risks, and accommodate potential changes in the project scope. The project team will diligently monitor the utilization of the contingency account, providing regular updates to the Attica Governing Body and City Staff to ensure transparency and accountability. The City of Attica believes a well-thought-out contingency in the project budget demonstrates proactive risk management and financial stewardship, contributing to the overall resilience and success of the project.

Matching Funds and Timeline of Use:
In accordance with the grantor's guidelines specified in the 40101(d) instructions, this proposal includes a commitment to match 33% of the subaward amount. The City of Attica intend to apply for the Build Kansas Fund to cover this portion of the matching funds. The City of Attica will then provide the 15% of subaward amount as the final amount of matching funds required. If awarded, the City will secure financing for this portion of the matching funds to meet its obligations under the grant provisions. A more detailed explanation of the timeline of funds used and project will be addressed in the following section.

Cost match commitment letter:

	Section 5: Project Timeline
Project timeline:	The City of Attica has identified the needs for upgrades to the electric utility since 2015. Initial bids and proposals were submitted from various contractors throughout the years leading up until today. After announcement of this funding opportunity, the City of Attica decided to prepare an updated proposal with the most current needs. The City of Attica has engaged the services of KPP Energy to prepare an updated estimated project proposal, incorporating pricing from a selection of vendors and the most recent available project costs. If grant funding is provided, the City will update the project to align with the outcomes of the grant provisions: • Review project scope, objectives, and key performance indicators. • Assemble a project team and assign responsibilities. • Develop a detailed project plan including updated budget estimates. Planning & Design (After Award April 2024 - June 2024) • Conduct a comprehensive assessment of the existing utility infrastructure. • Collaborate with engineering consultants to design the upgraded electric system. • Obtain necessary permits and regulatory approvals. • Finalize technical specifications for equipment and materials. Procurement and Vendor Selection (July 2024 – October 2024) • Issue Request for Proposals for equipment and materials. • Evaluate vendor proposals and select suppliers. • Negotiate contracts with vendors and establish delivery schedules. • Coordinate with contractors for construction bids if applicable. Construction and Implementation (November 2024 – March 2025) • Begin physical upgrades to the utility infrastructure. • Coordinate with contractors and ensure adherence to project specifications. • Conduct regular progress meetings and address any on-site issues. • Implement safety protocols and quality assurance measures. Community Outreach and Education (April 2025 – June 2025) • Launch a city-wide awareness campaign about the utility upgrade. • Conduct informational sessions for residents and businesses. • Establish a communication plan for real-time updates and issue resolution. • Collect and address community concerns and feedback. Testing & Quality Assurance (July 2025 – August 2025) • Conduct comprehensive testing of the upgraded electric system. • Address any issues identified during testing. • Implement quality assurance measures and ensure regulatory compliance. • Prepare for the transition to the upgraded system.

System Transition & Launch (September 2025 – October 2025)
• Gradual transition to the upgraded electric system.
• Monitor the system's performance and address any post-implementation issues.
• Engage with the community to communicate the completion and gather feedback.

Evaluation and Reporting (November 2025 – December 2025)
• Evaluate the project's success against initial objectives and key performance indicators.
• Prepare and submit a comprehensive final project report to City officials.
• Document lessons learned for future utility upgrade projects.

Section 6: Bids and Estimates

Bids and estimates:

Attica_40101d_Project_Costs.xlsx

Section 7: Community Benefit

Community benefit narrative:	The Attica community and residents are the heartbeat of the city, and its vibrancy is sustained by the essential services that power many lives. As Attica looks into the future, it is imperative to invest in the infrastructure that underpins the community's growth and well-being. The proposed FL Rehab Project is a transformative initiative designed to modernize Attica's electric grid, ensuring reliability, sustainability, and accessibility for all residents. This grant application seeks support for a comprehensive upgrade that will not only enhance the efficiency of Attica's electrical system but will also deliver a myriad of tangible benefits to the community. As mentioned before, Attica's current electrical infrastructure is showing signs of strain, with frequent power outages impacting businesses, homes, and critical services. Aging components and increasing demand have created vulnerabilities in the system, jeopardizing the community's ability to thrive. The Electric Grid Rehabilitation Project aims to address these challenges head-on by implementing state-of-the-art technologies, enhancing capacity, and fortifying the grid against potential disruptions. The project included the integration of smart grid technologies, allowing for better monitoring and management of energy consumption. This will promote energy efficiency, reduce waste, and pave the way for the incorporation of electric vehicle charging and renewable energy sources. As reliable and modern electrical infrastructure could increase economic development. Businesses are more likely to invest in a community with a robust power supply, leading to job creation and increased economic activity. This project is an investment in the long-term prosperity of our community, attracting new industries and fostering the expansion of existing ones. This project is also committed to ensuring that all residents have equal access to reliable electricity. By addressing disparities in service quality across different neighborhood, Attica aims to promote social equity and bridge the digital divide. Improved access to electricity is a fundamental step towards creating a more inclusive and connected community. In times of natural disasters or emergencies, a resilient electrical grid is paramount. The upgraded infrastructure will be designed to withstand extreme weather events, reducing the impact of disasters on the community. This enhanced resilience is a critical component of Attica's overall disaster preparedness strategy. The Electric Grid Rehabilitation Project is not merely about modernizing Attica's infrastructure; it is a commitment to the well-being and prosperity of the community. By securing this grant, Attica can embark on a journey towards a more reliable, sustainable, and inclusive future. The benefits of this upgrade extend far beyond a robust electrical grid; they lay the foundation for a thriving and resilient community that can face challenges of the 21st century with confidence and vitality.

Provide historical measurements of resilience and reliability for the targeted areas of each proposed project.	Navigating the historical measurements of resilience and reliability for the proposed electrical upgrade project in the City of Attica, a disadvantaged rural community with limited resources and staff, unfolds a tale of determination amid unique challenges. In 2022, the city made a strategic investment in advanced metering technology, replacing 100% of electric meters. This forward-looking initiative empowered city staff to enhance customer service with improved response times during power outages. It also facilitated the provision of valuable energy consumption information for efficiency initiatives. Crucially, the technology allowed utility crews to reallocate time previously spent on meter reading to other essential tasks in the electric and other utility departments. Examining reliability measures against the backdrop of Attica's constrained resources, the historical data underscores the significance of the city's financial landscape. The five-year average for total capital expenditures hovers around $4,000, emphasizing the prudent fiscal approach adopted by Attica. The revenue generated from utility customers plays a vital role in covering operational expenses, with minimal excess earmarked for costly capital improvements. In the unfolding narrative of Attica, resilience is not just a testament to overcoming challenges but also a tribute to strategic investments that pave the way for a more reliable future. The proposed electrical upgrade project emerges as the next chapter, aligning with the community's ethos of innovation and responsible financial stewardship.
Provide expected changes to the historical data as a result of each proposed project.	The proposed electrical upgrades outlined in this grant application are poised to usher in a transformative era for Attica’s electrical infrastructure. Through a strategic and comprehensive approach to modernization, Attica anticipates significant positive changes in key historical data metrics, bolstering the reliability and resilience of our power supply. One of the primary objectives of the electrical upgrades is to substantially reduce the frequency and duration of power outages. Historical data reveals the Attica residents have faced challenges with intermittent disruptions, impacting businesses, residents, and essential services. By investing in advanced technologies, equipment, and grid automation, we project a notable decrease in outage occurrences and a swift response to restore power when incidents do arise. The FL Rehab Project addresses the aging components of the current infrastructure, introducing state-of-the-art materials and technologies designed to withstand adverse conditions. This heightened resilience is expected to minimize the impact of extreme weather events, natural disasters, and other unforeseen circumstances that have historically led to extended downtime. By doing so, Attica aims to create a more robust and adaptive electrical system that ensures continuous service even in challenging situations. Through the incorporation of advanced monitoring and control systems, the upgraded electrical infrastructure will enable faster detection, diagnosis, and response to faults or outages. Historical data showcasing delays in response and recovery times will be overshadowed by a more efficient and streamlined process, reducing the inconvenience experienced by the Attica community during service disruptions.

Provide historical measurements of resilience and reliability for the entire system to determine whether the project is in an area that has, on average, more frequent or longer duration outages.	Over the past several years, the Attica community has experienced a concerning frequency of power outages. Historical data reveals a pattern of interruptions that surpasses acceptable thresholds, adversely impacting the daily lives of its residents and the seamless operation of businesses. Regular occurrences of outages have led to not only economic disruptions but have also raised safety concerns within the community. Equally noteworthy is the historical data illustrating the prolonged duration of power outages when they occur. Extended downtime has been a recurrent challenge, affecting critical services, long-term care facilities, and essential infrastructure. The cumulative economic losses and inconvenience endured by the Attica community during these extended periods of darkness emphasize the imperative nature of the proposed electrical upgrades. Analysis of historical measurements exposed vulnerabilities in our current electrical infrastructure, particularly in the face of external factors such as severe weather events or unforeseen emergencies. The susceptibility of the system to external disruptions has resulted in cascading effects, amplifying the impact of outages and hindering Attica's community to swiftly recover. Engagement with customers has revealed a consistent sentiment regarding the historical performance of Attica's electrical system. Customer feedback highlights the frustration, inconvenience, and economic losses experienced due to unreliable power supply. Understanding the real-world impact on individuals and businesses adds human dimension to the historical measurements, further emphasizing the pressing need for change.
Provide age of system or line segments to be replaced or repaired, type of equipment that failed, and the number of annual outages for the project area.	The City of Attica's electric system stands as a testament to five decades of service, having been initially implemented in 1970. Over the course of these 50 years, this electrical infrastructure has played a crucial role in powering homes, businesses, and essential services, contributing to the growth and development of our community. Components such as substation transformers, distribution lines, and switchgear, installed during the system's inception, have now surpassed their expected lifespan. The wear and tear incurred over the years have led to a higher frequency of maintenance requirements, resulting in increased operational costs and a growing risk of unexpected failures. Additionally, the system has experienced well over 30 power outages each year, disrupting services and inconveniencing over 150 residents and businesses. Compounding these challenges are issues related to the aging poles, where excessive rot and damage from wildlife have further compromised the structural integrity of the system. These challenges collectively underscore the pressing need for a comprehensive upgrade to ensure the continued reliability, safety, and sustainability of Attica's electric infrastructure.

Provide a number of protective devices (fuses or breakers) that have operated more than once in a rolling 12-month period.	In the course of a thorough evaluation of the City of Attica's electrical infrastructure, a notable information gap has been identified. Specifically, the city's records lack essential details on instances where protective devices—specifically fuses and breakers—have operated more than once within a rolling 12-month period. This absence in documentation is not a result of deliberate oversight but rather an unintentional gap in historical record-keeping practices. As the city endeavors to compile crucial data for the grant proposal and gain a comprehensive understanding of its electrical infrastructure, it has become apparent that there is a lack of recorded information concerning the frequency and recurrence of protective device operations within the specified timeframe. Recognizing the significance of this information for both the grant proposal and overall infrastructure planning, the City of Attica is actively addressing this shortfall with a commitment to transparency. Looking ahead, the City of Attica acknowledges the necessity of refining its record-keeping practices. This commitment extends to the implementation of a more systematic approach aimed at capturing and documenting the operational history of protective devices. While current records may lack this specific information, the city is dedicated to enhancing data collection methods to ensure a more comprehensive understanding of its electrical systems in the future.
Provide a number of customers impacted by project and the percentage to total customers served in Kansas.	The City of Attica has approximately 492 electric utility customers out of approximately 1,811,709 total electric customers in the state of Kansas. The FL Rehab Project upgrades approximately two (2) miles of lines representing 80% of the residents in the City of Attica and the reconstruction of the 34.5 kV Line from the Attica interconnection meter to the substation will benefit 100% of the entire service area.
Description of efforts to attract, train, and retrain a skilled workforce for this project.	Attracting, training, and retaining a skilled workforce is essential for the success of any electrical upgrade project. The City of Attica will continue to forge partnerships with area technical schools, community colleges, and vocational training centers to create pipelines for skilled workers. The city has considered establishing internship programs and participating in job fair to increase awareness of career opportunities within the electric utility. The City of Attica is also a member of Kansas Municipal Utilities (KMU), the state industry trade association for all utilities for the state of Kansas. Attica partners with KMU to access training resources, certifications, and best practices for all Attica utilities. This collaboration can also provide opportunities for networking and knowledge exchange among professionals in the field. To ensure that the utility offers competitive salaries and benefits to attract and retain skilled workers, the Attica Governing Body regularly reviews compensation packages to align with industry standards and regional cost-of-living considerations. The city also implements a clear career development path that allows employees to grow within the organization and provides opportunities for continuous learning and professional development to enhance skill sets and promote internal advancement. The City of Attica prioritizes a culture of safety within the workplace and provided regular safety training, enforcement safety protocols, and invests in safety equipment to create an environment that values the well-being of employees.

Provide an estimate of job creation due to this project.	The proposed FL Rehab Project is set to not only enhance the reliability and resilience of the local power supply but also contribute to the economic vitality of the community. Despite being an exceedingly small utility, the impact of this project on job creation is a key aspect of its overall significance. Direct and indirect employment opportunities will be generated as a result of Attica's commitment to modernizing and fortifying its electrical infrastructure. The modest scale of Attica's electrical upgrade project will still create direct employment opportunities, primarily in construction. Skilled and unskilled labor will be needed for activities such as installing new equipment and performing the necessary infrastructure improvements. We anticipate the creation of approximately six (6) construction jobs during the peak construction phase. The design and planning phases of the project will require the expertise of electrical engineers and other professionals. We estimate the creation of three (3) engineering, design, and project management jobs, ensuring the seamless execution of the upgrade project. While the scale is smaller, the purchase of materials and equipment will stimulate economic activity in the local and regional supply chain. Local suppliers and manufacturers may experience increased demand, creating additional jobs in manufacturing, transportation, and logistics. Local businesses offering support services will also benefit. The increased economic activity within the community due to the project will lead to induced employment in local businesses. Restaurants, shops, and other services may experience higher demand, creating additional job opportunities.
Identify any plans to partner with training providers to support workforce development.	The success of the FL Rehab Project relies heavily on the skills and expertise of the workforce. Recognizing the critical importance of a well-trained team, we will devise as comprehensive plan to partner with training providers as part of commitment to workforce development. As stated previously, the work to be completed will be relied upon electrical contractors who will submit evidence of certification, training, and references for similar scope of work. However, the City of Attica will rely on city staff to assist and maintain the projected electrical upgrades to promote an extended use of life of the new electrical infrastructure. The City of Attica recognizes the unique demands of the electric project and are in the process of collaborating with training providers to provide training to city staff to reflect proper care and maintenance of the new assets in addition to all necessary safety requirements. Workforce development is an ongoing commitment, and Attica understands the importance of continuous learning. Attica is exploring avenues to provide employees with opportunities for professional development. This includes workshops, seminars, and online courses that cover emerging trends and technologies in the electrical field, ensuring the workforce remains at the forefront of the industry knowledge. In conclusion, Attica's commitment to partnering with training providers reflects Attica's dedication to building a skilled and dynamic workforce. By collaborating with educational institutions, industry associations, and training organizations, Attica is not only preparing the utility staff for the immediate challenges but also investing in their long-term success.

Provide any other metric(s) that indicates potential community benefit.	The metrics below collectively provide a comprehensive picture of how the FL Rehab Project positively impacts the community. By measuring various dimensions, the city can access both tangible and intangible benefits, helping to demonstrate the project's value to the citizens of Attica. Reduction in Power Outages: • Average duration and frequency of power outages before and after the upgrade. • Percentage decrease in unplanned service interruptions. Energy Efficiency: • Percentage improvement in energy efficiency due to the implementation of smart grid technologies. • Reduction in overall consumption after the upgrade. Economic Growth: • Job creation within the community resulting from increased business activity attracted by the upgraded electrical infrastructure. • Growth in the number of new businesses or industries establishing themselves in the area. Equitable Access: • Improvement in access to reliable electricity across different neighborhoods, measured through surveys or mapping. • Reduction in disparities in service quality among various demographic groups. Customer Satisfaction: • Community surveys to measure overall satisfaction with the upgraded electrical services. • Feedback on the reliability and quality of electricity services from residents and businesses. Cost Savings: • Reduction in energy costs for residents and businesses due to improved efficiency. • Analysis of long-term cost savings realized by the community as a result of the upgrade. Disaster Preparedness: • Assessment of the electrical grid's resilience to extreme weather events or other emergencies. • Time required for power restoration after a disaster, pre- and post-upgrade.
Confirmation that the applicant will comply with all Davis-Bacon Act requirements.	Yes
Confirmation that the applicant will comply with all Buy America Requirements.	Yes
Confirmation that the applicant will submit an environmental questionnaire (NETL Form 451.1-1-3), if required, for each work area proposed in the application.	Yes