

Attachment D

Energy Efficiency & Conservation Strategy for Units of Local Governments & Indian Tribes

As detailed in Part 1 of this announcement, all applicants must submit an Energy Efficiency and Conservation Strategy (EECS). Units of local government and Indian tribes have the option of submitting the EECS no later than 120 days after the effective date of the award or at the time of application. Units of local government and Indian tribes who chose to submit the EECS at the time of application shall use the format contained in Attachment D. This form should be saved in a file named "UIC-Strategy.pdf" and click on "Add Optional Other Attachment" to attach.

Grantee: Kaw Nation Date: 1/15/2010 (mm/dd/yyyy)
DUNS #: _____ Program Contact Email: dejene@kawnation.com

1. Describe your government's proposed Energy Efficiency and Conservation Strategy. Provide a concise summary of your measurable goals and objectives, which should be aligned with the defined purposes and eligible activities of the EECBG Program. These goals and objectives should be comprehensive and maximize benefits community-wide. Provide a schedule or timetable for major milestones. If your government has an existing energy, climate, or other related strategy please describe how these strategies relate to each other.

The Kaw Nation with the EECBG Program will hire a consultant to develop a comprehensive 5 year Energy Efficiency and Conservation Strategy that reflects the desire of the Nation to reduce energy consumption and rising costs thereby improving the local economy through job creation and retention of local earnings. Kaw Nation will also conduct residential and commercial building audits at tribally owned infrastructure and facilities to maintain sustainable and cost effective enterprises.

Major Objectives:

- Goal #1: Assess the existing energy infrastructure and energy consumption or utilization framework.
- Goal #2: Examine possible cost saving and renewable energy resources that could fit the capacity and need of Kaw Nation.
- Goal #3: Analyze the various Kaw Nation utility services that the Nation owns and operates.
- Goal #4: Prioritize how Kaw Nation current energy consumption and predict its future consumption to increase energy efficiency and reduce energy cost.
- Goal #5: Implementation of the procurement and installation of appliances and other utility equipment.

The Kaw Nation's Residential and Commercial Green Retrofit Program supports these goals by creating a comprehensive community-wide residential and commercial green-energy efficiency retrofit program that maximizes the leverage through the EECBG program, the Low-Income Weatherization Program, and other EERE grant and loan programs. The Program's priorities are to:

- 1) Reduce energy usage in our existing residential homes and neighborhoods
- 2) Reduce energy usage in existing Tribal Community, and facilities
- 3) Establish a local jobs market and educational training program to provide energy services.

**Kaw Nation Energy Development Work Plan
EECBG**

November 2009

**Data Collection
Data Collection**

February 2010

**Option Identification,
evaluation and Analysis**

April 2010

**Prioritize and Rank
Cost saving energy strategy**

June 2010

July 2010

**Review Recommended draft
Energy strategy**

August 2010

**Conduct Auditing and
Training**

September 2010

Final Report

October 2010

September 2011

**Auditing Residential, Governmental and Enterprise Buildings and
Conduct Outreach Services**

The proposed EEBG program consists of two major actions—an initial implementation period based on EECBG funding, followed by an on-going retrofit program supported by additional grants and loans obtained from various Agency programs, local rebates and other incentives. A key element of the success of this EECBG funding will be the further development of the local capability to provide energy efficiency and conservation services, reducing dependence on the outside workforce.

2. Describe your government's proposed implementation plan for the use of EECBG Program funds to assist you in achieving the goals and objectives outlined in the strategy describe in question #1. Your description should include a summary of the activities submitted on your activity worksheets, and how each activity supports one or more of your strategy's goals/objectives.

The program's priorities are to do the following:

1. Reduce energy usage in our existing residential homes and government offices;
2. Establish local jobs;
3. Retrofit or replace appliances such as dishwashers, refrigerators and freezers;
4. Replace heating, cooling and ventilation equipment with Energy Star;
5. Change residential and commercial light fixtures;
6. Retrofit office equipment and electronic such as computers and external power adapters;

Scope of Work

The purpose of this effort is to position the Kaw Nation to enact a tribal-wide energy investment strategy, including an efficiency initiative that will complement other policies, save energy and money, and curb greenhouse gas emissions (GHGs). The Kaw Nation Energy Strategy road map will encompass the following elements:

- energy performance in existing municipal operations (including municipal energy, water, and wastewater utilities)
- energy performance in existing residential, commercial, agricultural, aqua-cultural, and/or industrial buildings
- energy performance and other climate change impacts associated with any planned/future facilities or infrastructure construction
- use or supply of on-site renewable, and other clean energy supply options

A high-level cost-benefit analysis will be conducted as part of the analyses to identify and outline a set of priorities for future investments by the tribe. The tribe will strive to identify opportunities and actions that simultaneously save energy, reduce GHGs, save money, and create a positive local economic effect that is consistent with the tribe's values.

While the roadmap will address all short-term and long-term energy efficiency and GHG reduction opportunities in the community, a particular focus of this effort will be to outline a strategy that will allow the tribe to cost effectively capitalize on common sense, climate friendly opportunities during development of its facilities in the near-term.

The project will take place in two phases. The focus of the first phase will be to develop an overall 5-year strategic plan. Phase 2 will involve audits of Kaw facilities, and include training of Kaw Nation members to conduct audits.

Phase 1 Tasks

Task 1. Initiation Meeting

The Energy Consultant will meet with Kaw Nation leadership on site at the headquarters in Oklahoma. At this time, the scope of work, budget and timeline will be finalized. Details of task responsibilities and weekly, monthly, and quarterly communications formats and milestones will be established and agreed upon. This meeting will also provide an opportunity to review available energy data (historical use.)

Task 1 deliverable: Kick-off meeting agenda, post meeting memo summarizing discussion and action items.

Task 2. Energy demand forecasts and characterization

Through review of electric bill history and discussion with members of the Energy Task Force, the Consultant will assess current electric demand and estimate likely changes in energy demand over the next five to ten years. Demand will be analyzed by building type to help assess opportunities for savings.

Task 2 deliverable: A summary of current and projected energy demand.

Task 3. Review of Demand-Side Options

The Consultant will identify energy saving opportunities for existing Tribal buildings (commercial and residential) and for potential new construction. An initial tour of Tribal buildings could be conducted at the time of kick-off meeting. Possible options that may emerge from the review include:

- Adopting/upgrading energy codes for new construction on Tribal land
- Striving for LEED certification in new construction
- Leverage funding from utilities / federal grants to establish energy audit program
- Partner with Energy Services Company (ESCO) to implement energy saving measures.

Task 3 deliverable: A summary of energy and demand reduction opportunities.

Task 4. Review Renewable Energy Options

The Consultant will perform preliminary screening-level review of technical and economic potential for developing energy resources. In some cases, previous studies will provide a starting point to guide additional analysis needed. Research will include;

- Review of the status of wind development plans at the Chilocco school site.
- Examination of U.S. Dept. of Energy wind resources maps, and any local data collected to date, stream flow data (as appropriate), and GIS maps;

- Assessment of potential biomass fuel supply volumes;
- Use of screening tools such as PV Watts and RETSCREEN to examine potential electrical output and economics for PV, wind and biomass options;
- Ability for Tribe to use / sell electricity output;
- Identification of applicable funding sources and expertise for following through on best-fit renewable supply development opportunities.

Task 4 deliverable: A summary of renewable energy production opportunities

Task 5. Prioritization of options

The Consultant will create a prioritized list of energy efficiency and renewable energy options based on a screening-level cost effectiveness assessment. In addition to economic factors, Kaw Nation may choose to include other criteria for evaluation options such as:

- Reduces the need to add generation / transmission capacity
- Increases tribal sovereignty / energy independence
- Provides potential long-term revenue source
- Minimizes environmental impacts of new construction
- Provides cost-savings / educational benefits for individual households
- Politically feasible
- Determine supply and demand options

As part of this task the consultant will:

- Identify funding sources (state / federal grant & loan programs, etc.).
- Explore creative partnering / ownership options that may reduce upfront cost issues and increase likelihood that innovative projects are completed.

Task 5 deliverable: A report that summarizes the most promising opportunities.

Task 6. Final report

Research findings and recommendations will be summarized in a final report. Draft and final reports will be prepared. Key sections of the final report will include:

- Demand Forecast
- Demand Side Options Review- *including financial considerations and potential funding sources*
- Supply-side Options Review- *including financial considerations and potential funding sources*
- Recommendations and Next Steps

Phase 2

Conduct on-site assessment of buildings and major energy using equipment. The consultant will work together with Kaw Nation staff to assemble equipment counts, building characteristics and any industrial or agricultural energy using equipment or processes. This portion of the assignment will require identification of Tribal auditor trainees (possibly from a local Tribal technical college), and strong coordination among team members.

3. Describe how your government is taking into account the proposed implementation plans and activities for use of funds by adjacent units of local government that are grant recipients under the Program (response not mandatory for Indian Tribes).

{ While not required, if a key purpose of the proposal is to establish a Tribal Consortium among participants from neighboring Tribes, Native Communities, or within Regional Corporations, the proposal and regional energy plan can be strengthened by describing the benefits of this collaboration }

4. Describe how your government will coordinate and share information with the state in which you are located regarding activities carried out with grant funds to maximize energy efficiency and conservation benefits (response not mandatory for Indian Tribes).

5. Describe how this plan has been designed to ensure that it sustains benefits beyond the EECBG funding period.

Energy conservation measures continue throughout their lifetime to provide cost and energy savings and emissions reductions to homes and businesses. The project will track the number of homes and businesses retrofitted and all associated energy savings. Energy savings will be tracked on a project-by-project basis and then aggregated by sector. Individual project results will be verified via a third party inspector. The results will be continually evaluated to track performance and program implementation and the program will be modified as necessary to meet project goals and reporting requirements.

A key component of this project is education and outreach to give residents and business leaders of our community a greater understanding of how important it is to reduce energy and water consumption. These energy efficient measures are not only beneficial to the Kaw Nation, neighborhoods and surrounding communities but are sound mitigation tools to lower utility costs for homes and businesses and to reduce greenhouse gas emissions and improve air quality.

Savings resulting from measures funded through the EECBG-funded improvements are to be accounted by the Kaw Nation's Finance Office. In partnership with our nearby Community College we will offer technical training in fields related to energy efficiency and green building technology. With a focus on Sustainable Development and Smart growth, we anticipate utilizing our local resources to help our community grow in a mindful way that will benefit resident's years from now.

6. The President has made it clear that every taxpayer dollar spent on our economic recovery must be subject to unprecedented levels of transparency and accountability. Describe the auditing or monitoring procedures currently in place or that will be in place (by what date), to ensure funds are used for authorized purposes and every step is taken to prevent instances of fraud, waste, error, and abuse.

The Kaw Nation commits to using the EECBG funds in a cost-effective manner. Existing financial and management control processes will ensure the EECBG project receives stringent oversight, that use of the funds and results are transparent, and that all program activities are accountable by using existing procedures.

The Kaw Nation requires that prior to the end of each fiscal year, a certified public accountant make an independent audit of the Tribal financial system. All audit reports will be on public record. As directed by Kaw Nation, the independent accountant will post audits. Books and documents will be kept by Kaw Nation and separate subordinate accountants kept by any other office, department or agency of the Tribal government. EECBG funds will be audited as a distinct item within the independent audit performed each year.