DOE OFFICE OF INDIAN ENERGY

Funding Opportunity Announcement Webinar

DEPLOYMENT OF ENERGY EFFICIENCY AND CLEAN ENERGY ON INDIAN LANDS – 2017 (DE-FOA-0001660)

Lizana Pierce, Senior Engineer and Program Manager





December 1, 2016

Send FOA Questions to tribal@ee.doe.gov

https://eere-exchange.energy.gov

DE-FOA-0001660: DEPLOYMENT OF ENERGY EFFICIENCY AND CLEAN ENERGY ON INDIAN LANDS - 2017

Under this Funding Opportunity Announcement (FOA), DOE's Office of Indian Energy is soliciting applications from Indian Tribes (including Alaska Native Regional Corporations and Village Corporations) and Tribal Energy Resource Development Organizations to:
(1) Install energy efficiency measures and clean energy systems on tribal buildings (Topic Area 1) through:

Apply

- a. Deep energy retrofits (Topic Area 1.a.), or
- b. Energy efficiency measures and clean energy systems (Topic Area 1.b.),

and/or,

(2) Deploy clean energy systems on a community-scale (Topic Area 2).

For purposes of this FOA, an eligible "Indian Tribe" (including Alaska Native villages, but not Alaska Native Regional Corporations or Village Corporations), must be federally recognized as listed in Indian Entities Recognized and Eligible to Receive Services from the United States Bureau of Indian Affairs. Applications may also be submitted on behalf of an Indian Tribe(s) by an authorized Tribal Organization or Inter-Tribal Organization, provided evidence of that authority is provided as part of the application.

Under Topic Area 1, DOE is seeking applications for the installation in tribal buildings of (a) deep energy retrofits (multiple energy efficiency measures) to meet at least a 15% reduction in the total of all energy and fuel sources used; and (b) energy efficiency measures and clean energy systems (renewable energy power systems or combined heat and power systems) of at least 10kW or equivalent for heating and/or cooling to meet at least a 20% reduction in the total of all energy and fuel sources used.

Under Topic Area 2, DOE is soliciting applications for the deployment on a community-scale of at least 250 kW (or equivalent for heating and/or cooling) of clean energy systems on Indian lands to provide electricity and/or heating or cooling too many buildings or to an entire tribal community. Any technology proposed must be commercially-proven and warrantied, and the projects proposed under Topic Area 1 must be based on a prior energy audit or industrial energy assessment.

The intended results of the 50% cost shared projects selected under this Funding Opportunity Announcement are immediate cost savings, reduced energy use, and increased energy security for Indian Tribes, Alaskan Native villages, and tribal members.

DOE expects to make approximately \$4 million to \$6 million of Federal funding available for new awards under this FOA, subject to the availability of appropriated funds. The actual level of funding, if any, depends on Congressional appropriations. DOE anticipates making approximately 6 to 10 awards under this FOA. DOE may issue awards in one, multiple, or none of the topic areas.

Informational Webinar

The DOE Office of Indian Energy will conduct an informational webinar on December 1, 2016 (3:00 Eastern) to provide information on the Funding Opportunity Announcement (FOA) to potential applicants. In addition to describing the FOA in detail, information will be provided on who is eligible to apply, what an application needs to include, cost share and other requirements, how to ask questions, and how applications will be selected for funding. If you are unable to attend the webinar, it will be recorded and posted for later viewing.

Register for the webinar at https://attendee.gotowebinar.com/register/3954444524942948612

Other eXCHANGE Information

The eXCHANGE system is currently designed to enforce hard deadlines for Application submissions. The APPLY and SUBMIT buttons automatically disable at the defined submission deadlines. The intention of this design is to consistently enforce a standard deadline for all applicants.

Applicants that experience issues with submissions PRIOR to the FOA Deadline: In the event that an Applicant experiences technical difficulties with a submission, the Applicant should contact the eXCHANGE helpdesk for assistance (EERE-ExchangeSupport@hq.doe.gov).



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DOCUMENTS

· FOA Deployment of Energy Efficiency and Clean Energy on Indian Lands - 2017

REQUIRED APPLICATION DOCUMENTS

Pursuant to the FOA, Applicants are required to submit the "Required Application Documents" with their Application. Incomplete applications will not be reviewed or co

View Required Application Documen

CONTACT INFORMATION

- <u>EERE-ExchangeSupport@hq.doe.gov</u>
 EERE eXCHANGE support
 For technical issues related to the EERE Exchange Website
- tribal@ee.doe.gov
 Tribal Mailbox

For questions related to the content of this FOA. All questions and answers related to this FOA will be posted on EERE Exchange at: https://eere-exchange.energ specific FOA Number in order to view the questions and answers specific to this FOA. EERE will attempt to respond to a question within 3 business days, unless a on the website. Upon the issuance of a FOA, EERE personnel are prohibited from communicating (in writing or otherwise) with applicants regarding the FOA exceprocess as just described.

FREQUENTLY ASKED QUESTIONS (FAQS)

Responses to questions are posted to the FAQs webpage.

SUBMISSION DEADLINES

Full Application Submission Deadline: 2/7/2017 5:00 PM ET



DOCUMENTS

FOA Deployment of Energy Efficiency and Clean Energy on Indian Lands - 2017

REQUIRED APPLICATION DOCUMENTS

Pursuant to the FOA, Applicants are required to submit the "Required Application Documents" with their Application. Incomplete application

Full Application

- Application for Federal Assistance (SF424)
- Budget Justification (IE 335)
- · Summary Slide Template
- Workplan
- Project Metrics Data File
- Energy Savings Calculations
- Lobbying Activities

Hide Required Application Documents

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FREQUENTLY ASKED QUESTIONS (FAQS)

Responses to questions are posted to the FAQs webpage.



FREQUENTLY ASKED QUESTIONS

Select a FOA to view questions and answers for the epecial funding opportunity. Alternatively select "Non-FOA related items" to view system FAQ items.

DE-FOA-0001660: Deployment of Energy Efficiency and Clean Energy on Indian Lands - 2017

Question 1: Would an individual whom is both the member of a Federally recognized Tribe and an owner of a Native-American Business that is not located on the Tribe territor Answer 1:

As stated in Section III.F. (page 23) of the Funding Opportunity Announcement (FOA), "DOE will not make eligibility determinations for potential Application to this FOA must be submitted. The decision of whether to submit an application in response to this FOA lies solely with the Applicant."

For your purposes in making that decision, however, we provide the following information:

As stated in Section III.A. Eligible Applicants (page 15), "eligibility for award under this Funding Opportunity Announcement is restricted to: (1) an Indian Development Organization; and on whose (3) Indian Lands the project(s) will be located." See Section III.A. or Appendix A of the FOA for definitions. Ba not appear the described individual meets these requirements.

Question 2: I see the funding for the FOA for the Deployment of Energy Efficiency and Clean Energy on Indian Lands (DE-FOA-0001660) is subject to appropriations. To clar will this FOA be subject to lame duck budget resolutions for FY 2017? Any insight would be helpful.

Answer 2: The Department of Energy receives annual appropriations by Congress through which the Office of Indian Energy is funded. The current Cont funding through December 9, 2016. Although the Office of Indian Energy hopes to receive sufficient funding for this FOA, Funding for all awards is continuappropriated by Congress for the purpose of this program and the availability of future-year budget authority.

Question 3: I was contacted by a Tribe, but unfortunately they are state recognized, not federally recognized. Are there any exceptions for the eligibility? Could the state recognized Answer 3:

As stated in Section III. A. Eligible Applicants (page 16 of the Funding Opportunity Announcement (FOA), for purposes of this FOA, "an eligible "Indian Tout not Alaska Native Regional Corporations or Village Corporations), must be federally recognized as listed in *Indian Entities Recognized and Eligible to States Bureau of Indian Affairs*, published by the Department of Interior's Bureau of Indian Affairs in the Federal Register on May 4, 2016, 81 FR 26827. Tribe is also federally recognized (as listed by the Bureau of Indian Affairs' Federal Register notice), it is not eligible to apply under this FOA.



Anticipated Schedule

FOA Issue Date:	November 14, 2016
Informational Webinar:	December 1, 2016 at 3:00 pm Eastern Time
Submission Deadline for Applications:	February 7, 2017 at 5:00 pm Eastern Time
Expected Date for DOE Selection Notifications:	May 2017
Expected Timeframe for Award Negotiations	90 days after receipt of any requested supplemental information



EERE Exchange Registration

- To apply to this FOA, Applicants must register with and submit Application materials through EERE Exchange at https://eere-Exchange.energy.gov, EERE's online Application portal.
- Frequently asked questions for this FOA and the EERE Application process can be found at https://eereexchange.energy.gov/FAQ.aspx.
- Register in Grants.gov (http://www.grants.gov) to receive automatic updates when Amendments to this FOA are posted. However, please note Applications will not be accepted through Grants.gov.



Other Registration Requirements

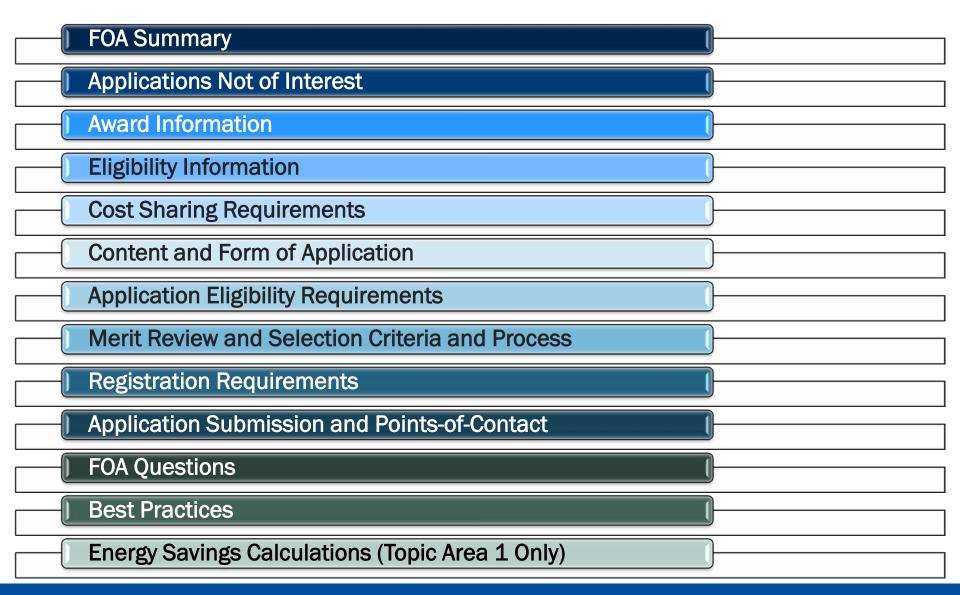
- The EERE Exchange registration does not have a delay; however, the remaining registration requirements could take several weeks to process and are necessary for a potential Applicant to receive an award under this FOA.
- Although not required in order to submit an Application through the EERE Exchange site, all potential Applicants lacking a DUNS number, or not yet registered with SAM or FedConnect should complete those registrations as soon as possible.
- Please see Part VI.B of the FOA (pages 58-59) for information on how to register in the above systems.

Notice

- All applicants are strongly encouraged to carefully read the Funding Opportunity Announcement DE-FOA-0001660 and adhere to the stated submission requirements.
- This presentation summarizes the contents of FOA. However, if there are any inconsistencies between the FOA and this presentation or statements from DOE personnel, the FOA is the controlling document and applicants should rely on the FOA language or seek clarification from DOE.
- If you believe there is an inconsistency, please contact us by sending an email to tribal@ee.doe.gov.



Agenda





FOA Executive Summary

FOA Summary	Under this Funding Opportunity Announcement (FOA), DOE's Office of Indian
	Energy is soliciting applications from Indian Tribes (including Alaska Native
	Regional Corporations and Village Corporations) and Tribal Energy Resource
	Development Organizations to: (1) install energy efficiency measures and
	clean energy systems on tribal buildings (Topic Area 1); and to (2) deploy
	clean energy systems on a community-scale on Indian Lands (Topic Area 2)
	(see Section III.A for eligibility definitions).
Eligible	Subject to the definitions and requirements in Section III.A, eligible entities
Applicants	include: (1) Indian Tribes (including Alaska Native Regional Corporations and
	Village Corporations) or (2) Tribal Energy Resource Development
	Organizations. Applications from a consortium of Indian Tribes (Tribal
	Consortium) will be accepted but must be submitted by a single Indian Tribe
	acting as the Applicant representing the Consortium. Applications may also
	be submitted on behalf of an Indian Tribe(s) by an authorized Tribal
	Organization or Inter-tribal Organization, provided evidence of that authority
	is supplied as part of the application. See Section III.A for eligibility
	requirements and definitions. DOE will <u>not</u> make eligibility determinations for
	potential Applicants <u>prior to</u> the date on which applications to this FOA must
	be submitted. The decision of whether to submit an application in response
	to this FOA lies solely with the Applicant.



FOA Executive Summary

Cost Share	A 50% cost share of the total allowable costs of the project (i.e., the sum of
Requirement	the DOE share, and the Recipient share of allowable costs equals the total
	allowable cost of the project) is required.
Means of	Applications <u>must</u> be submitted through EERE Exchange at https://eere-
Submission	Exchange.energy.gov, DOE's online application portal. DOE will not review
	or consider applications submitted through other means. The Users' Guide
	for Applying to the Department of Energy DOE Funding Opportunity
	Announcements is found at https://eere-
	Exchange.energy.gov/Manuals.aspx.
Submission of	Applicants may submit more than one application to this FOA or more than
Multiple	one application for a particular Topic Area, provided each application is for a
Applications	distinctively different project and addresses only one Topic Area. Each
	application must have a distinct title, unique Control Number as assigned by
	EERE Exchange during the registration process, and be readily
	distinguishable.
Application	Required forms and templates for applications are available on EERE
Forms	Exchange at https://eere-Exchange.energy.gov .



Strengthening Tribal Communities Sustaining Future Generations



The DOE Office of Indian Energy is charged by Congress under the Indian Tribal Energy Development and Self Determination Act of 2005 (Energy Policy Act of 2005 (EPAct 2005), Title V, codified at 42 USC § 15801) to "provide, direct, foster, coordinate, and implement energy planning, education, management, conservation, and delivery programs that –

- (1) promote Indian tribal energy development, efficiency, and use;
- (2) reduce or stabilize energy costs;
- (3) enhance and strengthen Indian tribal energy and economic infrastructure relating to natural resource development and electrification; and
- (4) bring electrical power and service to Indian land and the homes of tribal members located on Indian lands or acquired, constructed, or improved (in whole or in part) with Federal funds.



This Funding Opportunity Announcement (or FOA) builds on efforts by DOE to accelerate the deployment of renewable energy and energy efficiency technology on Indian Lands.

Between 2002 and 2016, DOE invested nearly \$66.5 million in more than 200 tribal energy projects implemented across the contiguous 48 states and in Alaska.

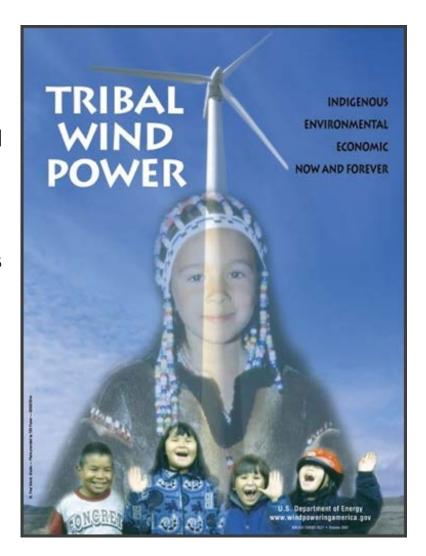


Specifically, the Office of Indian Energy is soliciting applications from Indian Tribes including Alaska Native Regional Corporations and Village Corporations (hereafter referred to as "Indian Tribe") and Tribal Energy Resource Development Organizations to:

- (1) Install energy efficiency measures and clean energy systems on tribal buildings (Topic Area 1) through:
 - a. Deep energy retrofits (Topic Area 1.a.), or
 - b. Energy efficiency measures and clean energy systems (Topic Area 1.b.),

and/or,

(2) Deploy clean energy systems on a community-scale (Topic Area 2).



Specifically, the Office of Indian Energy is soliciting applications from Indian Tribes including Alaska Native Regional Corporations and Village Corporations (hereafter referred to as "Indian Tribe") and Tribal Energy Resource Development Organizations to:

- (1) Install energy efficiency measures and clean energy systems on tribal buildings (Topic Area 1) through:
 - a. Deep energy retrofits (Topic Area 1.a.), or
 - b. Energy efficiency measures and clean energy systems (Topic Area 1.b.),

and/or,

(2) Deploy clean energy systems on a community-scale (Topic Area 2).

Specifically, the Office of Indian Energy is soliciting applications from Indian Tribes including Alaska Native Regional Corporations and Village Corporations (hereafter referred to as "Indian Tribe") and Tribal Energy Resource Development Organizations to:

(1) Install energy efficiency measures and clean energy systems on tribal buildings (Topic Area 1)

and/or,

(2) Deploy clean energy systems on a community-scale (Topic Area 2).

Under Topic Area 1 (Energy Efficiency Measures and Clean Energy Systems on Tribal Buildings), DOE is soliciting applications for the deployment of the following energy efficiency measures and clean energy systems on tribal buildings:

- (a) Deep energy retrofits (Topic Area 1.a.), or
- (b) Energy efficiency measures and clean energy systems (Topic Area 1.b).

All proposed installations must be for either:

- (1) Existing "Tribally-owned or controlled building(s)"; or
- (2) "Tribally-owned or controlled building(s)" that are currently being constructed or planned to be constructed during the proposed grant period.



Deep Energy Retrofits (Topic Area 1.a.)

A "deep energy retrofit" for purposes of Topic Area 1.a. is a whole-building approach involving a comprehensive renovation or remodeling strategy that combines multiple energy efficiency measures (EEMs), so that significant energy savings are achieved, and the comfort, durability, health, and indoor air quality of the building or buildings is improved.

Only projects proposing multiple EEMs will be considered; if an application proposes only a single EEM under Topic Area 1.a., the application will be deemed nonresponsive and will not be reviewed or considered.

"Energy Efficiency Measures (EEMs)," for purposes of this FOA, means the implementation of (1) building efficiency or (2) industrial process efficiencies. See Page 6 of the FOA or Appendix A for further definition.



Deep Energy Retrofits (Topic Area 1.a.)

To be eligible, deep energy retrofits **must**:

- (1) Be <u>based on a prior energy audit(s) or industrial energy assessment(s)</u> and those energy audits or industrial energy assessments **must** be provided as part of the application;
- (2) Use <u>commercially-proven warrantied technology</u> (see the definition of "commercially-proven" and "warrantied" under Appendix A); and
- (3) Demonstrate the potential of <u>at least a 15% reduction in the **total** of all energy and fuel sources used</u> (total of <u>all</u> energy and fuel sources combined, including but not limited to, electricity, propane, heating oil, diesel oil, natural gas, or any other energy or fuel used) in Tribally-owned or controlled building(s).



Energy Efficiency Measures and Clean Energy Systems (Topic Area 1.b)

Under Topic Area 1.b., a clean energy system(s) can be proposed in addition to a single or multiple EEMs (see definitions under Appendix A).

To be eligible, the combination of a single or multiple EEMs and clean energy system(s) **must**:

- (1) Use <u>commercially-proven warrantied technology</u> (see the definition of "commercially-proven" and "warrantied" under Appendix A); and
- (2) Demonstrate the potential of <u>at least a 20% reduction in the **total** of all energy and fuel sources used</u> (total of <u>all</u> energy and fuel sources combined, including but not limited to, electricity, propane, heating oil, diesel oil, natural gas, or any other energy or fuel used) in Tribally-owned or controlled building(s).



Energy Efficiency Measures and Clean Energy Systems (Topic Area 1.b)

Additionally:

- (3) The energy efficiency measures <u>must</u> be <u>based on a prior energy audit(s)</u> or industrial energy assessment(s) and those energy audits or industrial energy assessments <u>must</u> be provided as part of the application; and
- (4) The clean energy system <u>must</u> not only contribute toward meeting a 20% reduction in the **total** of all energy and fuel sources used in Tribally-owned or controlled building(s), but <u>must</u> also be a <u>minimum of 10 kW rated</u> capacity (or Btu equivalent of 34,121 Btu/hr for heating and cooling).

Under Topic Area 2 (Community-Scale Clean Energy Deployment), DOE is seeking applications for the deployment of community-scale clean energy systems (renewable energy power systems or combined heat and power systems) on Indian lands to provide electricity and/or heating or cooling to many buildings or to an entire tribal community.

For purposes of this FOA, "community-scale" means a project serving a substantial number of the total buildings within a community (no less than three buildings) and/or providing a substantial percentage of the total community energy load (minimum of 250 kW or Btu equivalent). For purposes of this FOA, "substantial" means of "ample or considerable amount". See Appendix A for definition of community.



Community-Scale Clean Energy Deployment (Topic Area 2)

Any single clean energy system or the total of multiple systems proposed under this Topic Area <u>must:</u>

- 1) Be a minimum of 250 kW rated capacity (or for heating or cooling the Btu equivalent of 170,607 Btu/hr); and
- 2) Affect a substantial number of buildings within a tribal community (<u>no</u> <u>less than three buildings</u>); and
- 3) <u>Use commercially-proven warrantied technology</u> (see the definition of "commercially-proven" and "warrantied" under Appendix A).

Note that as part of the Technical Volume, an explanation and rationale as to how the proposed project meets the community-scale requirement, specifically addressing the "substantial" element, will be <u>required</u> (see Section IV.C.4).



Applications Specifically Not of Interest

The following types of applications will be deemed nonresponsive and will not be reviewed or considered (See Section III.D of the FOA):

- Applications that fall outside the technical parameters specified in Section I.B of the FOA.
- Applications proposing the evaluation of product marketing opportunities, assessment of manufacturing opportunities, research, product development, or the construction of manufacturing facilities or buildings.
- Any application where the Applicant has already taken irreversible actions regarding the proposed DOE funded project, where the proposed DOE funded project consists of <u>only</u> the installation of clean energy system(s) and/or the installation and energy efficiency measures, but <u>not</u> the construction of a building(s) or structure(s) such as a carport. Irreversible actions relative to the proposed DOE funded project only (and not the Tribally-owned or controlled building or structure which is being constructed or planned to be constructed during the project period, if proposed) may include, but are not limited to, site clearing, ground breaking, equipment or system purchase or installation, building renovation, and building retrofits.
- Applications proposing the construction of a building(s) or structure(s) such as carports.
 <u>Only</u> the incremental costs associated with the installation of clean energy system(s) or
 energy efficiency measures will be considered allocable to the proposed DOE funded
 project and <u>not</u> the cost of constructing the building(s) or structure(s), unless those
 structures are integral to the clean energy system(s).



Applications Specifically Not of Interest

The following types of applications will be deemed nonresponsive and will not be reviewed or considered (See Section III.D of the FOA):

- Applications proposing "energy conservation," where "energy conservation," for purposes of this FOA, means decreasing energy consumption by using less of an energy service or going without an energy service to save energy. Energy conservation typically involves a behavioral change and may include meters or other indicators to induce that behavioral change.
- Applications proposing combined heat and power systems <u>not</u> fueled by either renewable energy resources or natural gas.
- Applications for commercial or utility-scale projects intended <u>solely</u> for profit through the export of electricity off Indian Lands for commercial sale.
- Applications proposing the use of materials, supplies, or equipment which are <u>not</u> commercially-proven and warrantied.
- Applications proposing studies or development (pre-construction) activities or any other activity which does not result in the generation of electricity and/or heating or cooling, or a reduction in energy use.



Award Information

Total Amount to	Approximately \$4 million to \$6 million in Federal funds. The actual level of
be Awarded	funding will depend on Congressional appropriations. DOE anticipates making
	approximately 6 to 10 awards under this FOA. DOE may issue awards in one,
	multiple, or none of the Topic Areas.
Average Award	DOE anticipates making awards that range from \$50,000 to \$500,000 for
Amount	Topic Area 1 (Energy Efficiency Measures and Clean Energy Systems on Tribal
	Buildings) and from \$250,000 to \$1,000,000 for Topic Area 2 (Community-
	Scale Clean Energy Deployment).
Types of	Grants
Funding	
Agreements	
Period of	DOE anticipates making awards with period of performances of
Performance	approximately one (1) to two (2) years, but no longer than three (3) years
	including the 12 month verification period.



Who's Eligible to Apply?

- Only the following types of Applicants are eligible to apply to this FOA. Applicants that do not meet the requirements will be deemed ineligible and their Applications will not be reviewed or considered.
- In accordance with EPAct 2005 authorities and consistent with 2 CFR 910.126(b), eligibility for award under this Funding Opportunity Announcement is restricted to:
 - (1) an Indian Tribe; or
 - (2) Tribal Energy Resource Development Organization; and on whose
 - (3) Indian Lands the project(s) will be located.

1) "Indian Tribe," for purposes of this FOA, means any Indian tribe, band, nation or other organized group or community (see below for further definition), including any Alaska Native village, Alaska Native Regional Corporation, or Village Corporation as defined in or established pursuant to the Alaska Native Claims Settlement Act (85 Stat. 688) [43 U.S.C. §§ 1601 et seq.], that is recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians.

For purposes of this FOA, an eligible "Indian Tribe" (including Alaska Native villages, but not Alaska Native Regional Corporations or Village Corporations), must be federally recognized as listed in Indian Entities Recognized and Eligible to Receive Services from the United States Bureau of Indian Affairs, published by the Department of Interior's Bureau of Indian Affairs in the Federal Register on May 4, 2016, 81 FR 26827.

For the purposes of this FOA, "Alaska Native Regional Corporation" means one of the thirteen Alaska Native Regional Corporations, as defined in and established pursuant to the Alaska Native Claims Settlement Act (43 U.S.C. §§ 1602(g)).

"Alaska Native Village Corporations" or "Village Corporation", for purposes of this FOA, are as defined in or established pursuant to the Alaska Native Claims Settlement Act (43 U.S.C. §§ 1602(J)).



For purposes of this FOA, Applications may also be submitted on behalf of an Indian Tribe(s) by an authorized "Tribal Organization" or "Inter-Tribal Organization", provided evidence of that authority is provided as part of the application.

a) "Tribal Organization," for purposes of this announcement means any legally established organization of an Indian Tribe, which is controlled, sanctioned, or chartered by the recognized governing body of that Indian Tribe. A "Tribal Organization" may include, but is not limited to, a subsidiary, subdivision, or instrumentality of an Indian Tribe, established under Congressional, State or Tribal law to act on behalf of an Indian Tribe. Applications may be submitted by an authorized "Tribal Organization", provided evidence of the authority to submit an application, relative to the proposed project, is supplied as part of the application. Evidence may include, but is not limited to, a constitution, resolution, ordinance, executive order, charter or other legal documentation. DOE will determine the sufficiency of the authorization based on the evidence submitted as part of the application. DOE will not make sufficiency determinations prior to an application being submitted.



For purposes of this FOA, Applications may also be submitted on behalf of an Indian Tribe(s) by an authorized "Tribal Organization" or "Inter-Tribal Organization", provided evidence of that authority is provided as part of the application.

b) "Inter-Tribal Organization," for purposes of this announcement, means any organization comprised of two or more Indian Tribes, established under Congressional, State, or Tribal law to act on behalf of the participating Indian Tribes. "Inter-Tribal Organizations" may include, but are not limited to, inter-tribal councils, regional tribal organizations or associations, Alaska regional development organizations, and tribal federations. Applications may be submitted by an authorized "Inter-Tribal Organization", provided evidence of the authority to submit an application, relative to the proposed project, is supplied as part of the application. Evidence may include, but is not limited to, a resolution, ordinance, executive order, charter, P.L. 93-638 contract, self-governance compact, or other legal documentation. DOE will determine the sufficiency of the authorization based on the evidence submitted as part of the application. DOE will not make sufficiency determinations prior to an application being submitted.



In addition to Indian Tribes, Tribal Energy Resource Development Organizations are eligible applicants.

2) "Tribal Energy Resource Development Organization," for purposes of this FOA, means an "organization" of two or more entities, at least one of which is an Indian Tribe that has the written consent of the governing bodies of all Indian Tribes participating in the organization to apply for a grant or loan, or other assistance under 25 U.S.C. § 3503, where "organization" means a partnership, joint venture, Limited Liability Company (LLC) or other unincorporated association or entity that is established to develop Indian energy resources."



QUESTIONS REGARDING ELIGIBILITY

Applicants prior to the date on which applications to this FOA must be submitted. The decision of whether to submit an application in response to this FOA lies solely with the Applicant.



Cost Sharing Requirements

- Under this Funding Opportunity Announcement, required cost share <u>must</u> be at least 50% of the total allowable costs of the project (i.e., the sum of the DOE share, and the Recipient share of allowable costs equals the total allowable cost of the project).
- All cost share <u>must</u> come from non-Federal sources unless otherwise allowed by law. See 2 CFR 200.306 and 2 CFR 910.130 for the applicable cost sharing requirements.
- Except for pre-award costs with prior DOE approval, <u>only</u> cost share contributions made <u>during the period of performance</u> of the grant, if awarded, can be considered. Costs incurred prior to award selection cannot be considered as cost share or for reimbursement by DOE.

Cost Sharing Requirements - Continued

All cost share <u>must</u> come from non-Federal sources **unless otherwise allowed by law**. See 2 CFR 200.306 and 2 CFR 910.130 for the applicable cost sharing requirements.

NOTE:

- Per the Indian Self-Determination Act (Public Law 93-638) as codified and amended, funding under the **Indian Self-Determination Act** may be used as non-Federal cost share by Indian Tribes on Federal grants.
- For **Tribal self-governance funding agreements**, see 25 U.S.C. Section 458cc(j), *Funds*, "All funds provided under funding agreements entered into pursuant to this subchapter, and all funds provided under contracts or grants made pursuant to this subchapter, shall be treated as non-Federal funds for purposes of meeting matching requirements under any other Federal law."
- For **self-determination contract funding**, see 25 U.S.C Section 450h(c), *Use as matching shares for other similar Federal grant programs*, "The provisions of any other Act notwithstanding, any funds made available to a tribal organization under grants pursuant to this section may be used as matching shares for any other Federal grant programs which contribute to the purposes for which grants under this section are made."
- For **compact funding**, see 25 U.S.C. Section 450j-1(j), "Notwithstanding any other provision of law, a tribal organization may use funds provided under a self-determination contract to meet matching or cost participation requirements under other Federal and non-Federal programs."
- Per the Native American Housing Assistance and Self-Determination Act (NAHASDA) of 1996 (25 U.S.C. 4101, et seq.) and its implementing regulation (24 CFR §1000.122): "There is no prohibition in NAHASDA against using grant funds as matching funds."



Cost Share Contributions

- Contributions must be:
 - Specified in the project budget
 - Verifiable from the Recipient's records
 - Necessary and reasonable for proper and efficient accomplishment of the project
- Every cost share contribution must be reviewed and approved in advance by the Contracting Officer and incorporated into the project budget before the expenditures are incurred
- As all sources of cost share are considered part of total project costs, the cost share dollars will be scrutinized under the same Federal regulations as Federal dollars to the project.

Allowable Cost Share

- Cost Share must be allowable and must be verifiable upon submission of the Application
- Refer to the following applicable Federal cost principles:

Entity	Cost Principles
Educational Institutions	2 CFR Part 220
State, Local, and Indian Tribal Governments	2 CFR Part 225
Non-profit Organizations	2 CFR Part 230
For-profit Organizations	FAR Part 31



Allowable Cost Share

Cash Contributions

May be provided by the Recipient, Subrecipients, or a Third Party

In-Kind Contributions

Can include, but are not limited to:

- Contribution of time
- Unrecovered indirect costs
- Unrecovered facilities and administrative costs
- Rental value of buildings or equipment
- Value of a service, other resource, or third party in-kind contribution.



Unallowable Cost Share

The Recipient may <u>not</u> use the following sources to meet its cost share obligations including, but not limited to:

- Revenues or royalties from the prospective operation of an activity beyond the project period;
- Proceeds from the prospective sale of an asset of an activity;
- Federal funding or property (e.g., Federal grants, equipment owned by the Federal Government);
- Renewable Energy Credits (RECs), other green attribute monetization funds, or any other form of cost sharing received <u>after</u> the DOE grant period;
- Except for pre-award costs with prior DOE approval, any costs incurred <u>prior</u> to award selection;
- Expenditures that were reimbursed under a separate Federal Technology Office.



Cost Share Payment

- Recipients must provide documentation of cost share contribution, incrementally over the life of the award.
- The cumulative cost share percentage provided on <u>each invoice</u> must reflect, at a minimum, the cost sharing percentage negotiated.
- In limited circumstances, and where it is in the government's interest, the DOE Contracting Officer may approve a request by the Recipient to meet its cost share requirements on a less frequent basis, such as monthly or quarterly. See Section III.B.6 of the FOA.

Content and Form of Applications

Applications must include:



Summary/Abstract for Public Release (Required)

Summary Slide (Required)

Technical Volume - 15 page limit (Required)

• Workplan - 5 page limit (Required)

Content and Form of Applications

Attachments:

 Site and Resource Maps and Graphics File (Optional) Project Metrics Data File (Required) Energy Savings Calculations File (Required Only for Topic Area 1) Energy Use Data (Required Only for Topic Area 1) Energy Audits and Assessments (Required Only for Topic Area 1) Design and Engineering File (Optional) Economics File (Optional) Statement of Commitment and Cost Sharing File (Required) Subcontract Plan File, if applicable (Optional) Resume File (Required) Budget Justification Workbook IE 335 (Required) Subaward Budget Justification IE 335 (Required Only If Thresholds Met) Budget Support (Optional) SF-LLL: Disclosure of Lobbying Activities (Required) Waiver Request: Performance of Work in the United States (Optional)

Application Eligibility Requirements

- Applicants must submit an Application by February 7, 2017 at 5:00
 PM Eastern Time
- Applications are eligible for review only if:
 - The Applicant is an eligible entity (Section III.A of FOA)
 - The Cost Share requirement is satisfied (Section III.B of FOA)
 - The Application is compliant with the content and form requirements (Section III.C of FOA)
 - The proposed project is responsive to the intent of the FOA (Sections I.A and III.D of FOA)
 - The Application meets any other eligibility requirements listed in Section III of the FOA.
- DOE will <u>not</u> make eligibility determinations for potential Applicants <u>prior to</u> the date on which Applications to this FOA must be submitted. The decision whether to submit an Application in response to this FOA lies <u>solely</u> with the Applicant.

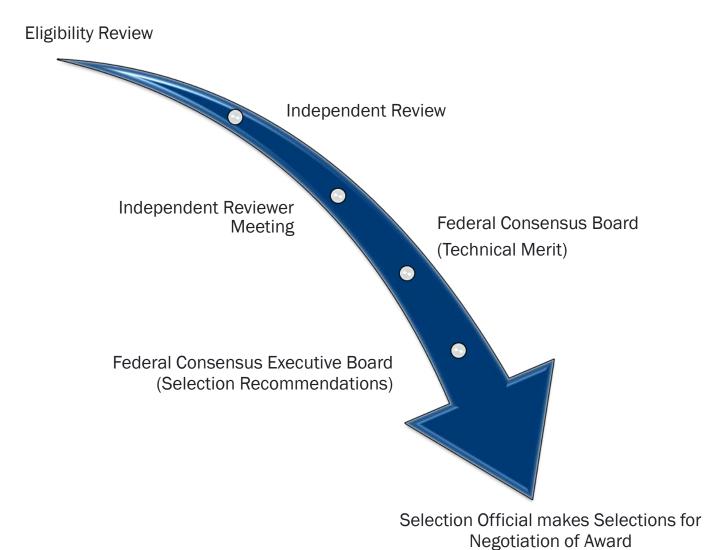


Merit Review and Selection Process

- The Merit Review and Selection Process consists of a series of reviews including an initial eligibility review, rigorous technical review, and programmatic review.
- Rigorous technical reviews are conducted by reviewers that are experts in the subject matter of the FOA.
- Ultimately, the Selection Official considers the recommendations of the reviewers, along with other considerations such as program policy factors, to make the selection decisions.

See a depiction of the process on the next slide

Merit Review Process





Technical Merit Review Criteria

Applications under both Topic Areas will be evaluated against the merit review criteria shown below. The sub-criteria under each criterion are of equal weight, unless otherwise specified.

Criterion 1: Goals and Objectives (10%)

- Clarity and completeness of the Executive Summary including:
 - Concise overview of the proposed project;
 - Description of the Indian Tribe or Tribal Energy Resource Development Organization and if applicable, a description of the Tribal Organization or Inter-Tribal Organization submitting the application on behalf of the Indian Tribe, or Tribal Consortium, including the:
 - long-term energy goals and/or vision,
 - organizational structure, and
 - demographics; and,
 - O Discussion of the project goals and objectives, and how the project integrates into the vision and long-term goals of the Applicant.
- Extent to which the proposed project provides economic (e.g., money saved, jobs, etc.) and environmental benefits (e.g., reduction in fossil fuel, less emissions, etc.) to the Indian Tribe(s) and tribal community.
- Soundness of the discussion of the need for and impact of DOE funding to the proposed project



Criterion 2: Project Description and Outcomes (40%)

- Clarity and completeness of the detailed project description
- Technical viability of the proposed project, including
 - o Adequacy of the
 - 1) Energy audit(s) or energy industrial energy assessments (s); and/or
 - 2) Available clean energy resource(s);
 - o Viability of the
 - 1) Energy efficiency measures and completeness of the materials or equipment list(s).
 - 2) Design and availability of commercially-proven clean energy technologies; and/or
 - Reasonableness of the methodology to be used to implement energy efficiency measure(s) and/or install renewable energy system(s) or combined heat and power system(s);
 - o Clarity and completeness of the discussion of barriers that could impede the project and reasonableness of the plan to overcome those barriers;
 - Reasonableness of the plan to verify the reduction in total energy from all sources (amount, cost, and percentage) or to verify the actual annual electric power generation and/or heating or cooling; and
 - o Reasonableness of the operation and maintenance plan.



Criterion 2: Project Description and Outcomes (40%)

- Economic viability of the proposed project, including
 - Quality of the economic assessment;
 - Reasonableness of the payback period; and
 - Financial sustainability of the proposed project.
- Outcomes, including:
 - Amount of energy generated or saved;
 - Economic benefits (e.g., money saved, people trained, jobs created);
 - Environmental benefits (reduction in greenhouse gases and the equivalency);
 and
 - Other outcomes (e.g., replicability, environmental stewardship, helps meet a specific energy goal, step towards energy independence).

Criterion 3: Roles, Responsibilities, Capabilities and Commitment (30%)

- Soundness of the project management approach, including:
 - Organizational and individual roles and responsibilities;
 - Organizational relationships as evidenced by existing business or other agreements, if applicable.
 - Capabilities of the Applicant and participants to comprehensively address all aspects of the proposed project, including the reasonableness of any plan to obtain qualified consultants, contractors, or vendors.
- Demonstrated level of commitment of the Applicant and each participating organization as evidenced by:
 - (1) Past energy-related efforts; and,
 - (2) Commitments to the proposed project as evidenced by Letters of Commitment.



Criterion 4: Workplan (20%)

- Clarity and completeness of the narrative description of each activity necessary to complete the project; and
- Likelihood of achieving project objectives through logical task structure.



Selection Factors

The Selection Official may consider the merit review recommendation, program policy factors, and the amount of funds available in arriving at selections for this FOA



Program Policy Factors

In addition to the Technical Merit Review Criteria, the Selection Official may consider the following program policy factors in determining which Applications to select for award negotiations:

- The degree to which the proposed project, including proposed cost share,
 optimizes the use of available DOE funding to achieve programmatic objectives;
- Geographic diversity;
- Technology diversity;
- Whether the proposed project will advance the goals of the Climate Action
 Champion program, as committed to by the designated Champion pursuant to
 its designation agreement. The Climate Action Champion program goals include
 improving climate resilience and reducing greenhouse gas emissions; and/or
- Whether the proposed project will advance the goals of the Promise Zone
 Initiative which partners with high-poverty communities to develop job training
 for 21st century industries; improve educational opportunities; increase access
 to safe, affordable housing; and promote community safety.



Registration Requirements

- To apply to this FOA, Applicants <u>must</u> register with and submit application materials through EERE Exchange: https://eere-Exchange.energy.gov.
- A control number will be assigned while registering in EERE Exchange.
 Retain this number as it will be used as an identifier and required on all application documents.
- Although not required to submit an Application, the following registrations <u>must</u> be complete to received an award under this FOA.

Registration Requirement	Website
DUNS Number	http://fedgov.dnb.com/webform
SAM	https://www.sam.gov
FedConnect	https://www.fedconnect.net
Grants.gov	http://www.grants.gov



Means of Submission

- Applications must be submitted through EERE Exchange at https://eere-Exchange.energy.gov
- DOE will <u>not</u> review or consider applications submitted through any other means
- The Users' Guide for Applying to the Department of Energy Funding Opportunity Announcements can be found at https://eere-Exchange.energy.gov/Manuals.aspx

Key Submission Points

- Check entries in EERE Exchange
 - Submissions could be deemed ineligible due to an incorrect entry
- DOE strongly encourages Applicants to submit applications 1-2 days <u>prior to the deadline</u> to allow for full upload of application documents and to avoid any potential technical glitches with EERE Exchange.
- Make sure you push the submit button
 - Any changes made after you push the submit button will un-submit your application and you will need to push the submit button again
- For your records, print out the EERE Exchange Confirmation page at each step, which contains the application's Control Number.



Applicant Points-of-Contact

 Applicants must designate primary and backup points-of-contact in EERE Exchange with whom DOE will communicate during the process.

- It is imperative that the Applicant/Selectee be responsive during award negotiations and meet negotiation deadlines
 - Failure to do so may result in cancellation of further award negotiations and rescission of the Selection



Questions

Questions about this FOA?

- Email <u>tribal@ee.doe.gov</u>
- All Q&As related to this FOA will be posted on the EERE Exchange website. See the Frequently Asked Questions or FAQs.
- DOE will attempt to respond to questions within 3 business days, unless a similar Q&A has already been posted on the website.
- You will be notified via email when a response to your question has been posted.

Questions

- Problems logging into EERE Exchange or uploading and submitting application documents with EERE Exchange?
 - Email <u>EERE- ExchangeSupport@hq.doe.gov</u>.
 - Include the FOA name and number in the subject line
- As questions are <u>not</u> being entertained during this webinar, please send those to us via email to <u>tribal@ee.doe.gov</u>. Please include the FOA name and number in the subject line.



Best Practices

- Please download Funding Opportunity Announcement read it thoroughly so you understand all the steps and requirements for submitting an application. Do not rely solely on this webinar.
- If you are considering submitting an application, please register in EERE Exchange as soon as possible to obtain a Control Number. This control number <u>must</u> be included on all application documents.
- Check the Frequently Asked Questions (FAQs) on EERE Exchange periodically for any supplemental information or amendments to the FOA.

Energy Savings Calculations (Topic Area 1 Only)

Under Topic Area 1, Energy Efficiency Measures and Clean energy Systems on Tribal Buildings, there are specific requirements for reducing the total of <u>all</u> energy and fuel sources used. Specifically,

- A 15% reduction under Topic Area 1.a (Deep Energy Retrofits),
- A 20% reduction under Topic Area 1.b (Energy Efficiency Measures and Clean Energy Systems).
- The percentage of energy saved will be independently verified; therefore, the methodology described in Appendix C of the FOA <u>must</u> be used.
- Appendix C includes instructions on how to calculate the energy saved, the conversion factors that <u>must</u> be used, and various examples.
- A Microsoft Excel template has been provided in EERE Exchange for calculating the amount of energy saved.



 Per Appendix C, energy savings is the difference between the total energy usage before the project and the projected energy usage after the project. The equation for calculating the percentage of energy savings is shown in the equation below.

Equation 1

Savings (%) =
$$\frac{\text{Energy usage before project (kBtu)- Energy usage projected after project (kBtu)}}{\text{Energy usage before project (kBtu)}} \times 100$$

 To simplify the analysis and to provide an equivalent basis of comparison, <u>all</u> Applicants <u>must</u> use a common set of conversion factors (see Table 1).



Table 1. Conversion Factors to thousands of Btu (kBtu) and Source Energy¹

To convert to kBtu from:	Input units	Conversion to Site kBtu* (a)	Conversion to Source Energy (b)	Site to Source Multiplier (a x b)
Electricity	kWh	3.412	3.14	10.7
Natural Gas	Therms	100	1.05	105
Natural Gas	100 cubic feet (ccf)	102.8	1.05	107.1
Diesel,	Gallons	138	1.01	139.4
Fuel Oil (No. 1)	Gallons	139	1.01	140.4
Fuel Oil (No. 2)	Gallons	138	1.01	139.4
Fuel Oil (No. 4)	Gallons	146	1.01	147.5
Fuel Oil (No. 5 & 6)	Gallons	150	1.01	151.5
Kerosene	Gallons	135	1.01	136.4
Propane and liquid Propane	Gallons	91.0	1.01	91.9
Propane and Liquid Propane	cubic feet (cf)	0.68	1.01	0.69
Coal	lb	12.5	1.00	12.5
Coal	Ton	25,000	1.00	25,000
Steam	lbs	1.194	1.20	1.21
Steam	1000 lbs	1,194	1.20	1,432.8
Chilled Water	Ton-hours	12	1.00	12
Any Fuel	million Btu (or MMBtu)	0.001	Use above, per fuel type	0.001 x (b)

Methodology:

The general process for calculating energy savings is as follows:

- 1) Identify all energy and fuel sources used (total of all energy and fuel sources combined, including but not limited to, electricity, propane, heating oil, diesel oil, natural gas, or any other energy or fuel used) in Tribally-owned or controlled building(s).
- 2) Establish a baseline of the energy currently used by the building or buildings (referred to as "energy usage before project" in Equation 1).
- 3) Determine projected energy usage of the building(s) after the proposed project is completed (referred to as "projected energy usage after project" in Equation 1).
- 4) Convert energy values to the common unit of thousand British thermal units (kBtu) using the unit conversion multipliers provided in Table 1 below.
- 5) Sum energy usage values together for the before-project case and sum the energy usage values together for the after-project case.
- 6) Calculate the projected percentage of energy savings using Equation 1.



Topic Area 1.a. Clean Energy System Examples

Example #1: Topic Area 1.a. (Deep Energy Retrofits)

Demonstrates how to calculate the reduction in the total of all energy sources if energy efficiency measures are implemented.

Proposed Project: A 20,000 ft2 building is projected to save 20% of its electricity usage (68,000 kWh) by replacing old inefficient light bulbs with light-emitting diode (LED) light bulbs and reducing 40% of its natural gas usage (2,560 therms) after implementing a number of Energy Efficiency Measures (EEMs). The total annual energy usage for the building in 2015 was 340,000 kWh/year of electricity, 6,400 therms of natural gas, and 15,000 gallons of fuel oil (No. 5).



Topic Area 1.a. Clean Energy System Examples

Example #1: Topic Area 1.a. (Deep Energy Retrofits)

Find: Percentage of energy savings resulting from the proposed project.

Method: The general steps described above are followed in this example.

- 1. Identify all sources of energy and fuel that are used in the building or buildings.
- 2. Establish the baseline energy usage before the proposed project is implemented ("energy usage before project").
- 3. Determine projected energy usage after the project ("energy usage projected after project").



Topic Area 1.a. Clean Energy System Examples

Example #1: Topic Area 1.a. (Deep Energy Retrofits)

Table 2 shows the building energy usage for this example before and after the proposed project is implemented. The figures in the table are provided in the typical units for these forms of energy, kWh and therms.

	Before	After	Savings	% Savings
Electricity (kWh)	340,000	272,000	68,000	20%
Natural Gas (therms)	6,400	3,840	2,560	40%
Fuel Oil (No. 5)	15,000	15,000	0	0%



Topic Area 1.a. Clean Energy System Examples

Example #1: Topic Area 1.a. (Deep Energy Retrofits)

- 4. Convert the various forms of energy values to the common unit of kBtu using the multipliers provided in Table 1. The energy values with mixed units of kWh and therms are multiplied by the unit conversion factors for the given form of energy to get the energy values in the common units of kBtu.
- 5. Sum the energy usage values for the before-project case and sum the energy usage values for the after-project case.

	Energy l	Jsage (Mixed	Units)	Units	Energy Usage (Common Units)			
	Before	After	Units	conversion factor	Before	After	Units	
Electricity	340,000	272,000	kWh	10.7	3,638,000	2,910,400	kBtu	
Natural Gas	6,400	3,840	therms	105	672,000	403,200	kBtu	
Fuel Oil (No. 5)	15,000	15,000	gallons	151.5	2,272,500	2,272,500	kBtu	
Total					6,582,500	5,586,100	kBtu	



Topic Area 1.a. Clean Energy System Examples

Example #1: Topic Area 1.a. (Deep Energy Retrofits)

6. Calculate the projected percentage of energy savings using Equation 1.

For this example, the building used 6,582,500 kBtu of energy in 2015. The proposed energy efficiency measures are projected to reduce the annual energy usage to 5,586,100 kBtu after the project is implemented. The percent of energy savings is calculated as:

Energy Savings (%) =
$$\frac{6,582,500 \text{ kBtu} - 5,586,100 \text{ kBtu}}{6,582,500 \text{ kBtu}} \times 100 = 15.1\%$$

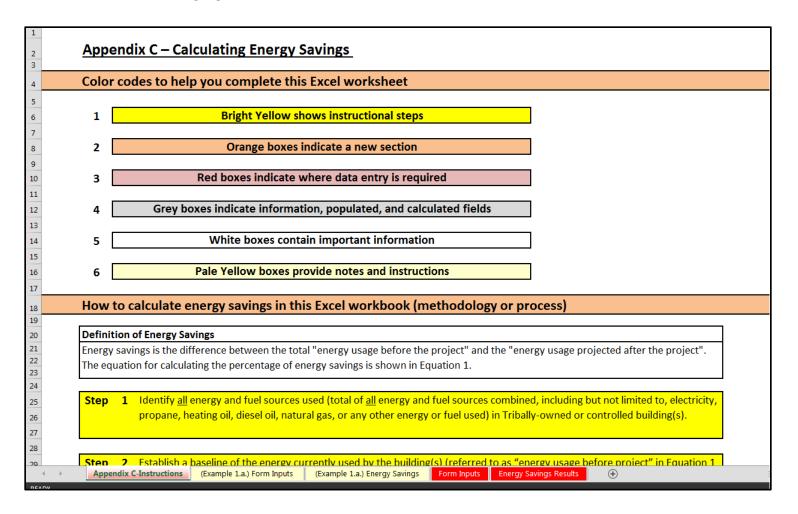
Note: In this example, the reduction in the total of all energy meets the 15% requirement under Topic Area 1.a.



We'll now provide an overview of the template and move onto a live overview of the Energy Savings Template File itself.



Tab1: "Appendix C-Instructions"



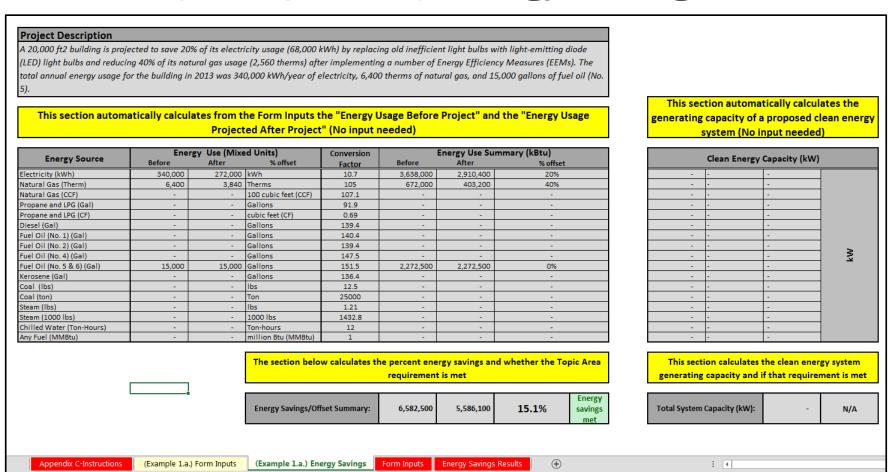


Tab2: "(Example 1.a.) Form Inputs"

Step 1	: Please select from	m the drop	-down box below the To	opic Area you	are appl	ying under.				
FOA:		1a: [Deep Energy Retrofits							
Sten 2	· Identify the build	ling/s) and	the types of energy and	I/or fuel used	in each	affected building				
				i/or ruer useu	iii cacii i	arrected banding.				
Buildin	g(s) and Type of Er	nergy and	Fuel Used							
	Building Name Office Building		Square Footage 20,000	Electrici Yes	itų	Natural Gas Yes	Propane and LPG	Diesel	Kerosene	Fuel Oil (No. 1)
	Office Building		20,000	·		-	-	-	-	-
-		Building and	d Type of Energy and Fuel (Used	•	-	-	-	-	-
		Enter a name	for each building affected by	the project and e	enter its squ	uare -		-	-	-
	f f	footage. Sele used in each	ct "Yes" from the drop-down b	oxes for each en	ergy or fue	-	-	-	-	-
		a3ca III cacii	I			-	-	-	-	-
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4				-		-	-	-	-	-
1				_		-	-	-	-	-
Step 3	: Enter the type of	f energy an	d/or fuel used in each b	uilding and id	entify w	hether utility bills or fu	el invoices are prov	ided for 12 months.		
			d/or fuel used in each b					ded for 12 months.		
		Electricity,			tural Gas		or Fuel Used) Utility bills or fuel invoice data provided for 12	ided for 12 months.		<u> </u>
	g Energy Sources (I	Electricity,	Propane, Heating Oil, D Energy or Fuel Used Electricity (kWh)	Diesel Oil, Nat Unit	tural Gas	Total (calculated from monthly values in Step 4 below)	or Fuel Used) Utility bills or fuel invoice data provided for 12 months? Yes			
	g Energy Sources (Electricity,	Propane, Heating Oil, D	Diesel Oil, Nat	tural Gas	i, or Any Other Energy Total (calculated from monthly values in Step 4 below)	or Fuel Used) Utility bills or fuel invoice data provided for 12 months?			
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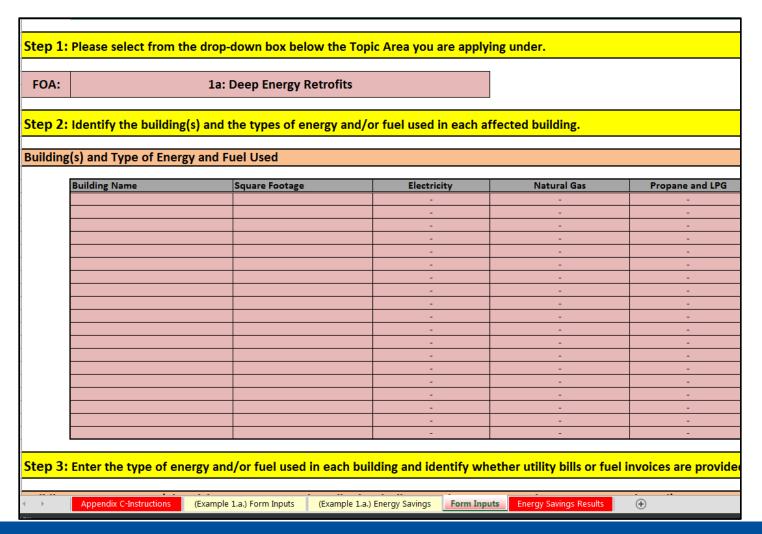


Tab3: "(Example 1.a.) Energy Savings



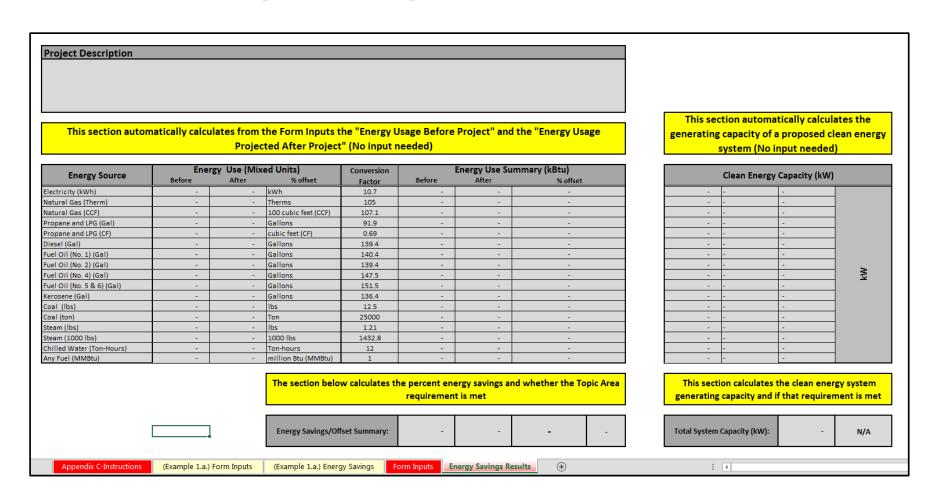


Tab4: "Form Inputs"





Tab5: "Energy Savings Results"





Energy Savings Template Demonstration

 Please just give us a moment to transfer to the Microsoft Excel File for the demonstration.



Questions?

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