

Note: This example only highlights those questions that are different from the Example Small REAP Application.

Form RD 4280-3B

Form Approved

(02/15)

OMB No. 0570-0067

**U.S. DEPARTMENT OF AGRICULTURE**  
 Rural Development – Rural Business-Cooperative Service  
**RURAL ENERGY FOR AMERICA PROGRAM**  
**APPLICATION FOR RENEWABLE ENERGY SYSTEMS AND ENERGY EFFICIENCY IMPROVEMENT PROJECTS**  
**TOTAL PROJECT COSTS OF LESS THAN \$200,000, BUT MORE THAN \$80,000**

**NOTE:** The following statement is made in accordance with the Privacy Act of 1974 (5 USC 552a) and the Paperwork Act of 1995, as amended. The authority for requesting the following information is Section 9001 of the Agricultural Act of 2014 (Public Law 113-79). This information may be provided to other agencies, Internal Revenue Service, Department of Justice, or other State and Federal law enforcement agencies, and in response to a court magistrate or administrative tribunal. The provisions of criminal and civil fraud statutes, including 18 USC 286, 287, 371, 641, 1001; 1014, 15 USC 714m; and 31 USC 3729, may be applicable to the information provided.

**SUBMIT THIS COMPLETED FORM TO THE USDA RURAL DEVELOPMENT OFFICE IN THE STATE IN WHICH THE PROJECT IS LOCATED.**

**Attached to this form are detailed instructions, the Forms Manual Insert (FMI), for each section. Please refer to the FMI when completing this form for guidance. Use attachments as necessary.**

**I. A. Applicant Legal Name (Block 8a of SF 424):** ABC Farms

**\*\* The purpose of these questions is to gather race, ethnicity, and gender information about persons who apply and participate in this USDA program. The information provided will not be used when reviewing the application or when determining eligibility to participate in this program. The answers provided are voluntary and are not required for the application to be considered a complete. The information provided will be used to improve the operation of this program, to help USDA design additional opportunities for program participation, and to monitor enforcement of laws that require equal access to this program for eligible persons. For entities, check all that apply. The information will be kept private to the extent permitted by law.**

**\*\*I.B. What is Applicant's race (check all that apply)?**

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or Other Pacific Islander
- White

**\*\*I.C. What is Applicant's Gender?**

- Male
- Female

**\*\*I.D. What is Applicant's Ethnicity?**

- Hispanic or Latino
- Not Hispanic or Latino

**II. Project Title (Block 15 of SF 424):** ABC Farms Solar PV

**III. System for Awards Management (SAM) Commercial and Government Entity (CAGE) (N/A Loan Only)**

Code: Expiration Date:

**IV. Type of Applicant (check one):** Rural Small Business  (Complete part A of this Block)

Agricultural Producer  (Complete part B of this Block)

Rural Small Business or Ag Production Operation Description:

ABC Farms is a sole proprietorship owned by Bob and Jane Farmer and formed in 2010. The farm produces fruits, vegetables, and eggs for sale at local grocery stores and farmers markets. The business owns 50 acres on which the buildings for the solar installation are located.

**A. Rural Small Businesses:**

1. Provide Annual Receipts for business from 3 most recent tax years (Attach documentation, such as tax returns):

Annual Receipts: 20 \$                      20 \$                      20 \$

2. Is the business a franchise?                      Yes                       No

3. Does the business have any affiliates?                      Yes                       No

If yes, list name(s) of affiliated businesses and describe the affiliation:

4. Provide the average number of employees for the business over the last 12 months (Attach documentation):

Annual Average

\$

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0570-0067. The time required to complete this information collection is estimated to average 35.6 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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5. a. Provide primary North American Industry Classification System (NAICS) code:  
 NAICS Code: \_\_\_\_\_ Corresponding NAICS size limitation: \_\_\_\_\_  
 If using alternative size standard:

b. The maximum tangible net worth of the Applicant and its Affiliates is not more than \$15,000,000  Yes  No and  
 Average net income (after federal income taxes) for the preceeding two years is not in excess of \$5,000,000  
 Yes  No

Attach Documentation: 20 \$                      20 \$                      Average: \$

B. Agricultural Producers, provide agricultural income data from 3 most recent tax years:	Annual Average
1. Income directly related to agricultural products: 20 \$                      20 \$                      20 \$	\$
2. Total Income: (Includes W-2, Schedule C, & Non-ag income) 20 \$                      20 \$                      20 \$	\$
3. Percent Agricultural Income (Line 1 + Line 2):	0.00% %
4. NAICS Code:	

**V. Technical Report - Type of Project (check one):** (See FMI for descriptions.)

Renewable Energy System  (Complete Block VI) which is either an Energy Generation System  or Energy Replacement System  **OR**  
 Energy Efficiency Improvement  (Complete Block VII):

A. Project Description. Provide a detailed description of the technology, project location, and of the project site:  
 The proposed 50 kW solar PV system will consist of two arrays on separate farm buildings located at 123 ABC Road, Puyallup, WA, in Pierce County. A 25 kW array will be on an existing barn and 25 kW will be on a newly constructed processing facility. Both arrays will consist of SolarWorld modules and SolarEdge inverters with optimizers mounted with Iron Ridge racking.

B. Project Construction and Equipment Information. Describe how the design, engineering, testing, and monitoring are sufficient to demonstrate that the proposed project will meet its intended purpose, ensure public safety, and comply with applicable laws, regulations, agreements, permits, codes, and standards. Describe how all equipment required for the Renewable Energy System is available and able to be procured and delivered within the proposed project development schedule.

New question

██████████ will install the equipment in accordance with manufacturer instructions and interconnect the system in accordance with a net metering agreement with Puget Sound Energy. ██████████ will obtain required licenses and commercial electrical and building permits prior to construction. Construction will occur within the bounds of all applicable work and safety rules. No zoning or land use permits are required. The equipment is readily available.

C. Commercially Available. A system that meets the requirements of either C or D: (D is for Renewable Energy Systems only.)  
 Proposed domestic or foreign system.

1. Has, for at least 1 year, both a proven and reliable operating history and proven performance data:  Yes  No

Describe how the technology and project meet this criterion. (Attach documentation if necessary.)

If the equipment is not certified (question D below), then additional documentation needs to be provided.

2. Is based on established design and installation procedures and practices and is replicable:  Yes  No

Describe how the technology and project meet this criterion. (Attach documentation if necessary.)

3. Has professional service providers, trades, large construction equipment providers, and labor who are familiar with installation procedures and practices:  Yes  No

Describe how the technology and project meet this criterion. (Attach documentation if necessary.)

4. Has proprietary and balance of system equipment that are readily available and available spare parts:  Yes  No

Describe how the technology and project meet this criterion. (Attach documentation if necessary.)

5. Has services that are readily available to properly maintain and operate the system:  Yes  No

Describe how the technology and project meet this criterion. (Attach documentation if necessary.)

6. Has an existing established warranty that is valid in the United States for major parts or labor:  Yes  No

Describe how the technology and project meet this criterion. (Attach documentation if necessary.)

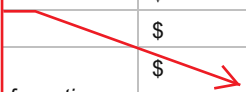
OR

D. A domestic or foreign Renewable Energy System that has been certified by a recognized industry organization whose certification standards are acceptable to the Rural Business-Cooperative Service.  Yes  No  
 (Name of recognized industry organization): Canadian Standards Association (CSA), UL-listed

E. Project Economic Assessment:

1. Project Cost Breakdown:	
Construction Item: (list itemized costs or attach bids):	Cost
Solar equipment & installation [redacted] bid)	\$ 150,000.00
Puget Sound Energy production meter fee	\$ 166.00
	\$
	\$
	\$
a. Total Project Costs: (Total Project Costs should be the same as information- Construction Programs.)	\$ 150,166.00
b. Eligible Project Costs: (See FMI to determine)	\$ 150,166.00

Make sure that this total cost matches up with the cost table on SF-424 and include any bids that support this cost estimate.



2. Estimated Project Energy Generation or Savings:	
a. For Renewable Energy Systems:	
i. Annual amount of renewable energy to be generated and unit of energy:	50,000.00 kWh <input checked="" type="checkbox"/> or BTU <input type="checkbox"/>
ii. If applicable, historical annual average energy used and unit of measure: The Agency may request additional information to substantiate the above numbers.	100,000.00 kWh <input checked="" type="checkbox"/> or BTU <input type="checkbox"/>
iii. Annual percentage of energy being replaced: If the above number exceeds 100 percent and the system is connected to the grid, the amount of energy above 100 percent will be used in 4c. below. If the amount of energy exceeds 150 percent and the system is connected to the grid, the entire amount of energy generated will be entered in 4c below.	(i + ii x 100) = 50.00% %

b. For Energy Efficiency Improvement projects: <b>(Complete Block VII first with data from the Energy Audit or Energy Assessment.)</b> Annual amount of energy to be saved and unit of measure:	kWh <input type="checkbox"/> or BTU <input type="checkbox"/>
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3. Cost of Energy:	
a. Price per unit of energy paid in prior year: <i>(This is the retail cost of energy for Renewable Energy System replacement projects.)</i>	\$ 0.098
b. Price per energy unit to be sold to the grid: <i>(This is the price the utility will pay for energy put onto the grid.)</i>	\$ 0.098

4. Energy Value: (See FMI for guidance.)	
a. Value of energy to be replaced via renewable system (if applicable): (2.a. x 3.a.):	\$ 4,900.00
b. Value of energy to be saved via efficiency improvement (if applicable): Dollars saved from VII.	\$ 0.00
c. Value of energy to be generated and sold to the grid (if applicable): (2.a. x 3.b.):	\$ 0.00
d. Total value of energy replaced/saved/generated: 4a. + 4b. + 4c. = 4d:	\$ 4,900.00

**Energy efficiency Improvement projects can proceed to Number 9.  
Renewable Energy System projects continue to next table.**

5. Other annual revenue: (List below. <i>Such as, sale of byproducts.</i> ) If no other income input 0. (Do NOT include renewable energy credits, Government or utility incentives, or other incentives.)		
Source:	Price/Unit:	Total:
WA Production Payments	\$ .15	\$ 5,000.00
	\$	\$
Total other annual revenue:		\$ 5,000.00

6. Annual Revenue: (4.d. + 5):	\$ 9,900.00
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7. Annual Operating and Maintenance Costs:	\$ 0.00
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8. Earnings before Interest, Taxes, Depreciation, and Amortization (EBITDA): (6-7):	\$ 9,900.00
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9. Estimate Simple Payback:	
a. Energy replacement and Energy Efficiency Improvement projects: (1. b. + 4.d.):	\$ 150,166.00 ÷ \$ 9,900.00 = 15.17 years
b. Energy generation projects: (1. b. + 8):	\$ 0.00 ÷ \$ 9,909.80 = 0.00 years

- F. Qualifications of Service Providers (Include information personnel and companies that will be working to construct and install the project, such as: Energy Auditor, site assessor, contractor, installer, electrician, etc.)

Project Role:	Design and installation contractor		
Company Name:	[REDACTED]		
Individual's Name:	[REDACTED]	Title:	Owner
Address:	[REDACTED]		
City/State/Zip Code:	[REDACTED]	Phone:	[REDACTED]

**Qualifications (Either attach a resume or complete below):**

Number performed on a similar system as proposed:	100
Years of Relevant experience:	3
Professional credentials (include training and/or education related to work, certificates, etc.):	Bachelors in Landscape Architecture and Environmental Planning, Solmetric Certified
Licenses:	

Project Role:	Design and Installation Contractor		
Company Name:	[REDACTED]		
Name:	[REDACTED]	Title:	[REDACTED]
Address:	[REDACTED]		
City/State/Zip Code:	[REDACTED]	Phone:	[REDACTED]

**Qualifications (Either attach a resume or complete below):**

Number performed on a similar system as proposed:	100
Years of Relevant experience:	10
Professional credentials (include training and/or education related to work, certificates, etc.):	Bachelors in Construction Management, NABCEP Certified
Licenses:	WA State Journeyman Electrician

Project Role:			
Company Name:			
Name:		Title:	
Address:			
City/State/Zip Code:		Phone:	

**Qualifications (Either attach a resume or complete below):**

Number performed on a similar system as proposed:	
Years of Relevant experience:	
Professional credentials (include training and/or education related to work, certificates, etc.):	
Licenses:	

Project Role:			
Company Name:			
Name:		Title:	
Address:			
City/State/Zip Code:		Phone:	

**Qualifications (Either attach a resume or complete below):**

Number performed on a similar system as proposed:	
Years of Relevant experience:	
Professional credentials (include training and/or education related to work, certificates, etc.):	
Licenses:	

**VI. Renewable Energy System Projects - Technical Requirements:** *(For Energy Efficiency Improvement Projects Complete Block VII.)* \*If Hybrid project, submit specific technical information for each technology.

A. Project Information:

1. Will project be interconnected with electric utility grid?  Yes  No If yes, name of utility:
2. Will the proposed system be connected to a meter that is also connected to a residence?  Yes  No
  - a. If yes, will 51 percent or more of the energy to be generated from the proposed system be used by the business operation of the Rural Small Business or the Agricultural Producer?  Yes  No  
 Amount of energy and unit of measure to be used by the business operation in a typical year?  
 kWh  or BTU
  - b. If the answer to question 2a. is no, the Applicant certifies that any excess power generated by the Renewable Energy System will be sold to the grid and will not be used by the Applicant for residential purposes.  Yes  No
  - c. If the answer to question 2b. is no, installation of a second meter (or similar device) that results in all of the energy generated being used for non-residential energy usage or sold to the grid will be required.

B. Renewable Resource Potential: *(Additional information may be requested by the Agency to determine resource feasibility.)*

1. Check which type of Renewable Energy System is being proposed. Ensure multiple types are checked for hybrid applications:  
 Wind  Solar  Bioenergy  Geothermal Electric Generation  Geothermal Direct Generation   
 Anaerobic Digester  Hydrogen  Hydroelectric/Ocean Energy Projects
2. An Agency approved Renewable Energy Site Assessment may be used to provide the Project Description, Resource Assessment, and Project Economic Assessment. In such instances, the technical report would consist of Section D and the Renewable Energy Site Assessment. If a renewable energy site assessment is provided, sections 3 and 4 do not need to be completed. If the site assessment does not include all this information, complete the portion of this form with the narratives below to supplement the assessment.

Agency-approved Site Assessment Completed:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Site Assessor Name:		
Site Assessor Qualifications:		

3. Provide adequate and appropriate data to demonstrate the amount of renewable resource available. For hybrid projects each technology being proposed must be address. Describe the quality, availability, and seasonality (if applicable) of the renewable energy resource:  
 The south-facing barn roof receives minimal shade and has a near-ideal tilt of 25 degrees, resulting in a total solar resource fraction of 95%. The processing facility roof receives some shading from a tree resulting in a total solar resource fraction of 85%. Each solar panel will be equipped with DC optimizers to minimize the impact of shade. Overall annual solar availability is considered good.
4. Basis of determination:  
 There are several methods to determine resource potential on the site, describe below as applicable and attach as necessary:

Online Estimating Tool:	<input checked="" type="checkbox"/> Yes; List name of Tool: NREL PVWatts, see attached <input type="checkbox"/> No
Resource References (Wind Roses, Thematic Maps, etc.):	<input checked="" type="checkbox"/> Yes; List Resource Reference: TMY2 data from Seattle, included in PVWatts calculations <input type="checkbox"/> No
Site-Specific Evaluation Devices or Site Surveys:	<input checked="" type="checkbox"/> Yes; List device: Solmetric SunEye, see attached <input type="checkbox"/> No
Photographs of Site:	<input checked="" type="checkbox"/> Yes; Attached to application. see attached <input type="checkbox"/> No
Other:	Attach documentation if applicable.

**VII. Energy Efficiency Improvement Projects - Technical Requirements:** (If project is a Renewable Energy System, go to Block VIII.)

**A. Existing usage as per Energy Assessment or Energy Audit:**

	Energy Used (converting to BTU)	Cost
Electricity (kWh)	x 3,412 btu/kWh= 0.00	\$
Propane/LP (gal)	x 91,502 btu/gal= 0.00	\$
Natural Gas (therm)	x 100,000 btu/therm= 0.00	\$
Diesel (gal)	x 139,000 btu/gal= 0.00	\$
Other	x = 0.00	\$
<b>Total BTU Existing:</b>	<b>0</b>	<b>Total Existing Energy Cost: \$</b>

**B. Proposed (estimated) usage following completion of the project as per Energy Assessment or Energy Audit:**

	Energy Used (converting to BTU)	Cost
Electricity (kWh)	x 3,412 btu/kWh= 0.00	\$
Propane/LP (gal)	x 91,502 btu/gal= 0.00	\$
Natural Gas (therm)	x 100,000 btu/therm= 0.00	\$
Diesel (gal)	x 139,000 btu/gal= 0.00	\$
Other	x = 0.00	\$
<b>Total BTU Proposed:</b>	<b>0</b>	<b>Total Proposed Energy Cost:\$</b>

**Percent Energy Savings:** (Total BTU Existing 0 – Total BTU Proposed 0)÷Total BTU Existing: 0 = 0.00%

**Dollar Savings:** Total Existing Energy Cost \$ - Total Proposed Energy Cost \$ = \$ 0.00 Dollars Saved

**VIII. Describe how the proposed project will have a positive effect on:**
**A. Resource Conservation (e.g. water, soil, forest):**

Will the project save or replace fossil fuel consumption from finite resources?  Yes  No

Will the project reduce water consumption?  Yes  No

List additional resource conservation measures if applicable:

**B. Public Health (e.g. potable water, improve air quality):**

Will the project decrease or replace fossil fuel consumption decreasing emissions leading to better air quality?  Yes  No

List additional public health measures if applicable:

**C. Environment (e.g. compliance with the U.S. Environmental Protection Agency (EPA) Renewable Fuel Standard (RFS), greenhouse gases, emissions, particulate matter):**

Will the project save or replace fossil fuel consumption reducing greenhouse gas emissions creating a healthier environment?  Yes  No

List additional environmental measures if applicable:

<b>IX. Commitment of Funds:</b> Documentation is required to be attached for points under the commitment of funds scoring criteria.		
Source: XYZ Bank	Amount:\$ 150,166.00	Attached: <input checked="" type="checkbox"/>
Source:	Amount:\$	Attached: <input type="checkbox"/>
Source:	Amount:\$	Attached: <input type="checkbox"/>
Source:	Amount:\$	Attached: <input type="checkbox"/>

**X: Relationship:**

This is to certify that I, as the Applicant, have  a known or  no known relationship or association with a Rural Development employee.

If there is a known relationship, please indicate the name of the Rural Development employee:

**XI. Previous Funding:**

I, the Applicant, have  or  have not, received any grants and/or guaranteed loans under the REAP program.

If grants or guaranteed loans have been received, identify each grant and/or guaranteed loan and describe the progress that has made on each project, including projected schedules and actual completions dates, if applicable:

**XII. Good Standing:**

I, the Applicant, being a legal entity, am  or am not  in good standing and operating in accordance with the laws of the State(s) or Tribe where I, the Applicant, have a place of business.

Not applicable, I am applying as a sole proprietor.

**XIII. Certifications:**

The Applicant certifies to each of the following: *(Check all that are applicable.)*

- A. The Applicant meets each of the Applicant eligibility criteria found in RD Instruction 4280.112.
- B. The proposed project meets each of the project eligibility requirements found in RD Instruction 4280.113(a), (b), (d), and (e).
- C. Per RD Instruction 4280.113(f), the Applicant acknowledges caution against taking any actions or incurring any obligations prior to the Agency's environmental review that limits the range of alternatives or has an adverse effect on the environment, such initiation of construction. If taken, it could result in project ineligibility.
- D. The Applicant meets the criteria for submitting an application for projects with Total Project Costs of less than \$200,000, but more than \$80,000.
- E. The Applicant or the Applicant's prime contractor assumes all risk and responsibilities of project development, including interim financing, including during construction. The Applicant is solely responsible for the execution of all contracts.
- F. Construction planning and performing development will be performed in compliance with RD Instruction 4280.118(c).
- G. The Applicant agrees not to request reimbursement from funds obligated under this program until after the project has been completed and is operating in accordance with the information provided in the application for the project.
- H. The Applicant will maintain insurance coverage as required under RD Instruction 4280.122(b).
- I. The equipment required for the project is available, can be procured and delivered within the proposed project development schedule, and will be installed in conformance with manufacturer's specifications and design requirements. This would not be applicable when equipment is not part of the project.
- J. The project will be constructed in accordance with applicable laws, regulations, agreements, permits, codes, and standards.
- K. The Applicant will abide by the open and free competition requirements in compliance with RD Instruction 4280.124(a)(1).
- L. For bioenergy projects, that any and all woody biomass feedstock from National Forest System land or public lands cannot be used as a higher value wood-based product. (Check if applicable.)
- M. The Applicant will abide by the equal employment opportunity requirements in compliance with RD Instruction 4280.124(a)(2).
- N. The Applicant certifies that any excess power generated by the Renewable Energy System will be sold to the grid and will not be used by the Applicant for residential purposes. (Check if applicable.)



**XIV. Attach the following if not already submitted:**

- Form SF 424.
- Form SF-424C, "Budget Information-Construction Programs".
- Form SF-424D, "Assurances-Construction Programs".
- Form RD 1940-20 with documentation.
- Energy Audit or Energy Assessment.
- Matching funds documentation.
- Other. Describe: \_\_\_\_\_

**XV. Certification of Documentation and Acceptance:****CERTIFICATION AND ACCEPTANCE**

I certify that, to the best of my knowledge and belief, the information included with this Application, including all attachments, are true and correct, and that I certify to each of the conditions specified in Section X-XIII of this application.

**AGRICULTURAL PRODUCER \ RURAL SMALL BUSINESS**

\_\_\_\_\_

Signature (AGRICULTURAL PRODUCER \ RURAL SMALL BUSINESS NAME)

By: \_\_\_\_\_ (Officer, Member, Partner, Proprietor)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## REAP Attachments: Total Project Cost of \$80,000 to \$200,000

Attachments required in addition to those required for a “small” (\$80,000 or less) application:

1. Site plan
2. Project development schedule