



# ARRA\* On-farm Energy Efficiency & Production Assistance Application

## Applicant Information

Farm Name: \_\_\_\_\_ Farm Serial Number / County of FSA Office: \_\_\_\_\_ / \_\_\_\_\_

Primary Applicant: \_\_\_\_\_  
*Last First M.I. Title*

Address: \_\_\_\_\_  
*Street Address Apt # County of Farm*

\_\_\_\_\_ *City State ZIP Code*

Phone: ( ) \_\_\_\_\_ Cell: ( ) \_\_\_\_\_ E-mail Address: \_\_\_\_\_

Social Security No.: \_\_\_\_\_

Employer Identification Number (EIN) / Federal Tax Identification Number: \_\_\_\_\_

## Documentation Check List

**Please mark each item that is included in the submitted application. An incomplete application may delay processing of request.**

- This application, signed by applicant.**
- Narrative:** discussion of the projects objectives and explanation of any other economic benefits of the project. The narrative does not replace other questions in the applicaton, but may assist the review committee in their approval process
- Investment Justification (all that apply):**
  - Audit by a third-party
  - Assessment by a third-party
  - Self-assessment
- Request for professional services (only if reimbursement being requested):**
  - Resumes for service providers
  - Executive summary of completed grant/audit required prior to reimbursement
- Documentation of Purchases (new/used):**
  - Manufacturer's specifications for each item identified
  - Evidence of the certifying agency's rating for each new item identified
- Documenation of Energy Generation (only if reimbursement being requested):**
  - Letters of collaboration from all entities involved
  - Confirmation that activities conform to all applicable local, state, federal regulations

\* American Recovery & Reinvestment Act

## Guidelines

**PLEASE REVIEW THESE GUIDELINES CAREFULLY.**

**Funded participants shall adhere to all local, state, and federal rules and regulations. Questions concerning these guidelines should be directed to the Governor's Office of Agricultural Policy at (502) 564-4627.**

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1. All applications must be postmarked or returned to the Governors Office of Agricultural Policy no later than **March 26, 2010**.
2. Eligible items will be restricted to components and investments used solely for the benefit of the farming operation. *(See Appendix A for a listing of eligible items)*
3. Improvements to personal residences, non farm commercial property, and any other non farm structures are not eligible.
4. Tractors, motorized vehicles, and other equipment with internal combustion engines are excluded from this program.
5. Applicants will be required to provide a detailed listing and verification of all expenditures related to this investment area. In addition to the normal documentation, the applicant will be required to provide model and serial numbers for all relevant components as well as further explanation of the energy related benefits of the investment.
6. Only expenditures incurred after October 15, 2009 are eligible for consideration in this program only. *Applicants submitting applications for the 2010 USDA REAP must submit their REAP applications **before** beginning the project.*
7. Recipients will be required to comply with all reporting requirements as mandated through the American Recovery and Reinvestment Act (ARRA).
8. Requests for funding will be evaluated for completeness and the ability to quantify and substantiate the energy related benefits of the investment. Applications deemed incomplete or lacking sufficient justification of their energy related benefits may be disqualified from consideration for funding.
9. Applicants will be limited to 25% reimbursement for the eligible expenditures not to exceed \$10,000 for the life of the ARRA program.
10. Funding will be limited to no more than \$10,000 for any individuals or entities that involve the same Farm Serial Number, Tax Identification Number, Social Security Number, or Entity Name in the funding request for the life of the ARRA program.
11. Projects approved for funding must be completed and all required documentation for reimbursement must be returned to the Governors Office of Agricultural Policy by **December 15, 2010**.

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**Please return application and all documentation to:**

Governor's Office of Agricultural Policy  
404 Ann Street  
Frankfort, KY 40601  
(502) 564-4627

**For For more information Contact:**

Tim Hughes, Senior Policy Analyst  
[TimD.Hughes@ky.gov](mailto:TimD.Hughes@ky.gov)

Bryan Thomas, ARRA Coordinator  
[Bryan.Thomas@ky.gov](mailto:Bryan.Thomas@ky.gov)

## Farm Energy Use

Answer each related to farm's use of energy in 2009. If your farm and home share the same utility invoices, please estimate the "farm only" portion to the best of your ability.

Type	Annual Cost	Qty	Unit	Avg. cost/unit
Electricity	\$		kWh	\$
Natural Gas	\$		cu. ft.	\$
Propane	\$		gal.	\$
Diesel	\$		gal.	\$
Gasoline	\$		gal.	\$
<b>Totals:</b>	\$			

## Evaluation Method

**Please mark each one that most accurately describes the method used to evaluate your farms energy consumption.**

### All Applicants:

- Energy Audit** performed by a third-party professional engineer (P.E.) within the past two-years  
*Attach copy of audit and resume of auditor.*
- Energy Assessment** performed by a qualified third-party within the past two-years  
*Attach assessment summary and resume of assessor*
- Energy Self-Assessment** performed using an energy calculator within the past two-years  
*Attach assessment results*
- No energy audit or assessment has been performed in the last two-years.**

## Investment Justification

### Upgrades, building components, etc:

*For this section list all items where reimbursement is being requested. For each item indicate the payback timeframe identified by the audit or assessment based upon the anticipated energy savings. (add lines as needed)*

<u>Investment Item</u> <small>(indicate if new/used)</small>	<u>Initial Purchase or Replacement of Existing?</u>	<u>Item Cost</u>	<u>Installation Cost</u>	<u>Annual Energy Savings</u>	<u>Payback Period (years)</u>



## APPENDIX A: Cost-share Items

### A. Upgrades to all Applicable Farms

1. New installation of, or conversion to Energy Efficient Grain Drying Systems with suggested improvements such as:
  - a. Addition of recirculation of cooling section exhaust air
  - b. New dryers with increased column width
  - c. Implementation of dryeration
  - d. Addition of in-bin cooling
2. Milk precooler
3. Automatic milker takeoffs
4. Variable speed drives for vacuum pumps
5. Heat recovery from refrigeration equipment
6. Scroll compressor
7. Timers for tractor engine block heaters
8. Energy free or low energy waterers
9. *NEMA* labeled Premium Efficiency motors
10. Low pressure irrigation systems, conversion from Sprinkler to Drip irrigation, or Variable Frequency Drives for well pumps
11. Renovation expenditures recommended by a previously completed energy audit or energy assessment
12. Installation expenses of above items when performed by a hired contractor and documented by invoices and cancelled checks

### B. Energy Efficient Building Components & Renewable Energy Projects

1. *Energy Star*, CFL, Cold Cathode, T-8, LED, or High Intensity Discharge (HID) lights and lighting fixtures
2. Insulation
3. Programmable thermostats and controllers
4. High Volume Low Speed (HVLS) fans, energy efficient Low Volume High Speed Exhaust or Circulation fans (The BESS lab at the University of Illinois rates exhaust fans)
5. *Energy Star* windows, doors, skylights, roofing, or other *Energy Star* building components
6. *Cool Roof* system
7. Tankless, solar, or water heaters with a thermal efficiency of at least 90%
8. EPA approved waste oil or biomass fired boilers, hydronic furnaces, heaters and stoves
9. Renovation expenditures recommended by a previously completed energy audit or energy assessment
10. Installation expenses of above items when performed by a hired contractor and documented by invoices and cancelled checks

### **C. Professional Fees and Training**

1. Documented expenses not covered by other programs for the completion of an on-farm energy audit or assessment
2. Third party professional fees associated with the completion of a grant application within a 2010 or 2011 United States Department of Agriculture, United States Department of Energy, or other non Kentucky Agricultural Development Fund program related to on-farm energy efficiency or renewable energy production (Executive Summary of completed application and verification of its submission to the appropriate program must be submitted with documented expenses.)
3. Third party professional fees for environmental, technical, geological, biological, engineering, and chemical consulting associated with the development of projects in the area of On-Farm Energy Efficiency and Production
4. Registration fees for the attendance of workshops and conferences focusing on the area of On-Farm Energy Efficiency and Production

**IMPORTANT: Applicants with projects requiring over \$50,000 in expenditures or projects likely to be submitted for consideration for federal programs should consider a professional energy audit. Eligibility criteria for other federal programs will likely have more stringent requirements. Resumes confirming the qualifications of all third party professionals listed above and performing services for a fee must be attached with submission of the documented expenditures.**

### **D. Biomass Energy Crop Production**

1. Seed, rootstock, or other plant material used to establish a dedicated biomass energy crop
2. Limestone based on a soil test taken within the past 12 months and prior to lime application
3. Specialized equipment, structures, and other supplies not currently owned by the applicant that are essential for the production and or harvesting of biomass energy crops
4. Hired services needed for the production and or harvesting of biomass energy crops

**IMPORTANT: Only farm level costs for projects under the supervision of Universities or other entities demonstrating production techniques, or utilizing the biomass crops for energy production will be *considered*.**

### **E. Equipment and Infrastructure for On-Farm Energy Production**

1. Equipment, structures, or other supplies necessary to convert animal waste into useable energy
2. Equipment, structures, or other supplies necessary to connect an on-farm electric power generator fueled by renewable fuels to the electric power utility's distribution system
3. Equipment, structures, or other supplies necessary to convert biomass crops into useable energy
4. Equipment, structures, or other supplies necessary to convert grains and oilseeds into ethanol or biodiesel
5. Fuel testing services and kits needed to monitor fuel quality
6. Equipment, structures, or other supplies necessary to harness available solar, wind, geothermal, or other renewable sources of energy

**IMPORTANT: Due to the array of local, state, and federal taxes, any fuels produced on the farm with assistance through this program can not be utilized as transportation fuels for highway use. Applicants are encouraged to review all manufacturers' warranties and specifications before using the fuels in any equipment.**

## APPENDIX B: Self-Evaluation Scoring Worksheet

Use this worksheet as a guide to self-score your project. Your application will be scored in a similar manner by the ARRA Energy Application Committee that will make the final determinations of your project's scoring.

	Total Points Available	Points Awarded	Explanation / Justification
<b>Farm Energy Use</b>	10		
<b>Evaluation Method</b>	20		
<b>Justification</b>	25		
<b>Harnessing Energy</b>	10		
<b>Professional Services</b>	10		
<b>Farming Operation</b>	30		
<b>Completeness of Application</b>	15		
<b>Total</b>	<b>120</b>		

### Scoring Template

#### Farm Energy Use

< \$250	0 points
\$250-\$500	2 points
\$501-\$1,000	4 points
\$1,001-\$2,500	6 points
\$2,501-\$5,000	8 points
> \$5,000	10 points

#### Evaluation Method

Energy Audit	20 points
Energy Assessment	12 points
Self Assessment	5 points
No Assessment	0 points

#### Justification

< 5 year payback	25 points
6-10 year payback	15 points
Replacement	7 points
New	4 points

**Harnessing Energy** 10 points

**Professional Services** 10 points

**Farming Operation** (30 points total)

Time 10 points

Assets 10 points

Income 10 points

**Completeness of Application** 15 points