National On-Farm Energy Initiative

Arizona Energy and Agriculture Workshop
February 13, 2014

Tim Garcia, Resource Conservationist
Programs Section
Policy

Food Conservation and Energy Act of 2008, Title II, and the Agricultural Act of 2014 (Farm Bill), Title II

“Provides authority for use of EQIP to specifically address energy conservation through practice implementation and for development of Agricultural Energy Management Plan (Audit)”
Purpose

Program is designed to:

1) Identify ways to conserve energy on Farms through an on-farm energy audit.

2) Provide assistance to implement various recommended measures addressed in an existing on-farm energy audit.
Energy Audit Requirements

- Energy Audits must meet ASABE (American Society of Agriculture and Biological Engineers) Type II Standard
- Existing energy audits must be less than 4 years old
- Energy Conservation Activity Plans (CAP) must be developed by a certified Technical Service Provider (TSP) from TechReg.
Program Eligibility

- Must meet the eligibility requirements in 440-CMP, Part 515, Subpart F, section 515.51 (A)

- Eligible land uses are:
  - Cropland
  - Pastureland
  - Rangeland
  - Farmstead

- No annual payment limitation

- $450,000 regular EQIP payment limitation applies
Eligible Practices

Core Practices

Supporting Practices
Core Practices

Conservation Activity Plans (CAP)

- 122 – Agricultural Energy Management Plan – Headquarters
- 124 – Agricultural Energy Management Plan – Landscape
Core Practices (Continued)

- Farmstead Energy Improvement – 374
- Irrigation Water Management – 449
- Pumping Plant  533
- Lighting System Improvement 670
- Building Envelope Improvement 672
Supportive Practices

- 328 - Conservation Crop Rotation
- 340 - Cover Crop
- 345 - Residue and Tillage Management, Mulch Till
- 346 - Residue and Tillage Management, Ridge Till
- 380 - Windbreak and Shelterbelt Establishment
Resource Concerns

- Inefficient Energy Use – Equipment and Facilities Energy

- Inefficient Energy Use – Farming/Ranching Practices and Field Operations
Application Process

- Screening
- Ranking
- Application Management
- Calculating Energy Benefit
NRCS Environmental Quality Incentives Program (EQIP)
National On-Farm Energy Initiative

NATIONAL SCREENING CRITERIA WORKSHEET - Fiscal Year 2014

A Screening Worksheet must be completed for each eligible EQIP application.
The priority determination of high, medium, or low must be recorded in ProTracts for this applicant.

**Instructions:**
This screening worksheet must be completed for each eligible producer applying for EQIP On-Farm Energy Initiative assistance. Applications will be accepted on a continuous basis; however, application periods are established for purposes of evaluation, ranking, and funding decisions.

Completion of this worksheet and documentation does not constitute agreement to provide EQIP program benefits nor approval of a program contract. The original screening worksheet should be filed with the applicant case file or EQIP program file and unless the application is determined to be ineligible, the screening priority (high, medium, and low) must be recorded in ProTracts. Upon request, a copy of any completed screening worksheet may be provided to the applicant.

### Detailed Screening Criteria Worksheet – Complete for each eligible EQIP Applicant

<table>
<thead>
<tr>
<th>Applicant Name:</th>
<th>County:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application No: (OPTIONAL)</td>
<td>Field Office:</td>
</tr>
<tr>
<td>Evaluator Name:</td>
<td>Date:</td>
</tr>
</tbody>
</table>

**Priority Determination for ProTracts – Select One:**

#### High Priority Category:
The application is for an Agricultural Energy Management Plan (122 or 124);
Or
The application includes at least 1 Core conservation practice (374, 449, 533, 670, or 672) necessary to implement the recommendations identified in a completed Agricultural Energy Management Plan (122 or 124) or comprehensive on-farm energy audit meeting ASABE S612 Type 2 standard.

<table>
<thead>
<tr>
<th>High Priority Status in ProTracts</th>
</tr>
</thead>
</table>

#### Medium Priority Category:
The application includes 0 "Core" conservation practices but does include at least 1 "Supporting" conservation practice necessary to implement the recommendations identified in a previously completed Agricultural Energy Management Plan (122 or 124) or comprehensive on-farm energy audit meeting ASABE S612 Type 2 standard.

<table>
<thead>
<tr>
<th>Medium Priority Status in ProTracts</th>
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#### Low Priority Category:
Low Priority Applications will not be ranked.
All other applications

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</table>
Screening

High Priority Category:
- The application is for an Agricultural Energy Management Plan (AgEMP) (122 or 124); or
- The application includes at least 1 Core conservation practice (374, 449, 533, 670, or 672) necessary to implement the recommendations identified in a completed AgEMP (122 or 124) or comprehensive on-farm energy audit meeting ASABE S612 Type 2 standard.

Medium Priority Category:
- The application includes no “Core” conservation practices but does include at least 1 “Supporting” conservation practice necessary to implement the recommendations identified in a previously completed AgEMP (122 or 124) or comprehensive on-farm energy audit meeting ASABE S612 Type 2 standard

Low Priority Category:
- Low Priority Applications will not be ranked.
National, State, and Local criteria have this question:

<table>
<thead>
<tr>
<th>2014 EQIP NOFEI State Level Ranking Criteria</th>
<th>FY 2014 Points</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.</strong> If the application is for the development of a Conservation Activity Plan (CAP), the agency will assign significant ranking priority and conservation benefit by answering &quot;Yes&quot; to the following question. Answering &quot;Yes&quot; to question 1a will result in the application being awarded the maximum amount of points that can be earned for the state level questions.</td>
<td></td>
</tr>
<tr>
<td>1a. Is the program application for development of a Conservation Activity Plan (CAP) for a TSP prepared Agricultural Energy Management Plan (122 or 124)? If answer is &quot;Yes&quot;, do not answer any other state level questions. If answer is &quot;No&quot;, proceed with evaluation to address the remaining questions in this section.</td>
<td>400</td>
</tr>
</tbody>
</table>

State question examples reflect installation from an existing AgEMP:

| **2.** Answer the following question regarding the producer’s efforts to understand and improve existing energy conservation systems in their farming operation. |                           |
| 2a: Will the schedule of operation include practices that were recommendations made in an Agricultural Energy Management Plan (AgEMP) or an on-farm energy audit that meets the ASABE S612 Performing On-Farm Energy Audits Comprehensive Type 2 standards, which has been completed or updated in the last four years? | 100             |

| **3.** Select all categories of major energy efficiency activities that have been installed within the last four years by the applicant to address inefficient use of energy in their farming operation. |                           |
| 3a: LIGHTING components (lamps, timers, sensors) | 10             |
| 3b: VENTILATION components (fans, control systems, humidity control) | 10             |
| 3c: REFRIGERATION components (compressor, evaporator/chiller, motor, insulation) | 10             |
| 3d: MILK HARVESTING components (pumps, motors, controllers) | 10             |
| 3e: ELECTRONIC CONTROLLER components (master system automation) | 10             |
| 3f: OTHER MOTORS, VARIABLE FREQUENCY (SPEED) DRIVES components (compressors) | 10             |
| 3g: AIR HEATING/BUILDING ENVIRONMENT components (heater, insulation, recovery) | 10             |
| 3h: DRYING components (air flow, handling equipment) | 10             |
| 3i: WASTE HANDLING components (collection and dispersal equipment/methods) | 10             |
| 3j: AIR COOLING (airflow, control systems, evaporative) | 10             |
Application Management

- Funds to support the Energy Initiative will be held at the State Office.

- All eligible applications will be ranked and set to pre-approved by the end of the application ranking period.
Calculating Energy Benefit

- An Energy Benefits button at the contract item level documents which practices were specifically providing energy impacts in a contract.

- This helps validate that Energy was a resource concern and helps the ranking of the application.
Calculating Energy Benefit

- When the ranked data is saved from AERT, ProTracts will detect if energy is one of the concerns and provide users information messages.

  - All conservation practices offered in the NOFEI have an energy benefit.
  - The energy button MUST be selected for at least one contracted Item.
  - The estimated energy savings data for the contracted practice(s) MUST be recorded.
Calculating Energy Benefit

- After selecting “yes” in the energy benefit box the user must enter numeric values for the estimated energy savings. This is obtained from a completed on-farm energy audit.
- Energy Estimator: Tillage

- Nitrogen Fertilizer Awareness Tool

- Energy Estimator: Irrigation

- Energy Estimator: Animal Housing
Questions?

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