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## Ranking Tool Summary

### for FY2012 - FY12 On-Farm Energy

(Released 01/20/2012 )

#### Description:

#### Land Uses:

Crop, Headquarters

#### Efficiency Score:

Scoring Multiplier: 142.850

#### Optional Notes:

#### National Priorities:

Scoring Multiplier: 1.000

Questions:

Number	Question	Points
1	a. Meet regulatory requirements relating to animal feeding operations, or proactively avoid the need for regulatory measures?	15
1	b. Reduce sediment, nutrients or pesticides from agricultural operations located within a field that adjoins a designated impaired water body?	10
1	c. Reduce sediment, nutrients or pesticides from agricultural operations located within a field that adjoins a water body?	5
2	a. Increase groundwater recharge in identified groundwater depletion areas ( <a href="http://water.usgs.gov/ogw/rasa/html/TOC.html">http://water.usgs.gov/ogw/rasa/html/TOC.html</a> )?	15
2	b. Conserve water from irrigation system improvements and result in estimated water savings of at least 5% and saved water will be available for other beneficial uses?	10
2	c. Conserve water in an area where the applicant participates in a geographically established or watershed-wide project?	5
3	a. Meet regulatory requirements relating to air quality or proactively avoid the need for regulatory measures?	15
3	b. Reduce green house gases such as methane, nitrous oxide, and volatile organic compounds (VOC)?	15
3	c. Increase carbon sequestration?	5
4	a. Reduce erosion to tolerable limits (Soil "T")?	15
5	a. Benefit threatened and endangered, at-risk, candidate, or species of concern as identified in a State wildlife plan?	15
5	b. Retain wildlife and plant benefits on land exiting the Conservation Reserve Program (CRP)?	15
6	a. Eradicate or control noxious or invasive species?	10
6	b. Increase, improve or establish pollinator habitat?	10
6	c. Implement precision agricultural methods?	10
6	d. Properly dispose of animal carcasses?	5
6	e. Implement an Integrated Pest Management plan?	5
7	a. Reduce energy consumption on the agricultural operation?	15
7	b. Increase on-farm energy efficiency with more efficient equipment?	10
7	c. Assist in implementing energy conservation measures that reduce emissions from GHGs and air pollutants?	10
8	a. Implementation of all planned conservation practices within three years of contract	10

	obligation?	
8	b. Improvement of existing conservation practices or conservation systems already in place at the time the application is accepted, or will complete an existing conservation system?	10
9	a. If the applicant has an existing EQIP contract, has it been, and is it now, on schedule and in full compliance?	5
9	b. Did the applicant successfully complete any past contract(s) in full compliance?	5
9	c. Is this the applicant's first EQIP application?	5
Total Points		250

**State Issues:**

Scoring Multiplier: 1.000

Questions:

Sub-heading Number	Question Number	Question	Points
1		Answer BOTH of the following two questions regarding the producer's efforts to conserve energy and improve energy efficiency in their farming operation. Maximum points 150.	
	1	a Has an Agricultural Energy Management Plan (AgEMP) also known as a Comprehensive Type 2 on-farm energy audit (that meets the ASABE S612 On-Farm energy audit standard) been conducted in the last three to five years?	100
	1	b Is applicant using or has applicant used a smart meter to monitor, evaluate, and or manage energy usage and time-of-use on their farming enterprise/operation?	50
2		If appropriate, answer ONE of the following two questions regarding the producer's recent energy conservation actions. Maximum points 50.	
	2	a Has applicant ALREADY INSTALLED at least TWO recommended measures/energy conserving components (i.e. lighting, ventilation, etc.) in the last three years?	50
	2	b Has applicant ALREADY INSTALLED at least ONE recommended measure/energy conserving component (i.e. lighting, ventilation, etc.) in the last three years?	20
3		Select ALL APPROPRIATE categories of major energy efficiency activities that the applicant is going to install in this contract. Maximum points 160.	
	3	a LIGHTING components (lamps, timers, sensors) recommended in the Audit?	10
	3	b VENTILATION components (fans, control systems, variable drives, humidity control) recommended in the Audit?	10
	3	c REFRIGERATION components (compressor, evaporator/chiller, motor, insulation) recommended in the Audit?	10
	3	d MILK HARVESTING components (pumps, motors, controllers) recommended in the Audit?	10
	3	e CONTROLLERS components (master system automation) recommended in the Audit?	10
	3	f OTHER MOTORS/PUMPS components (types, compressors) recommended in the Audit?	10
	3	g WATER HEATING components (heater, insulation, recovery, waterers) recommended in the Audit?	10
	3	h AIR HEATING/BUILDING ENVIRONMENT components (heater, insulation, recovery, variable drives) recommended in the Audit?	10
	3	i DRYING components (air flow, handling equipment) recommended in the Audit?	10

	3	j WASTE HANDLING components (collection and dispersal equipment/methods) recommended in the Audit?	10
	3	k AIR COOLING (airflow, control systems, evaporative) components recommended in the Audit?	10
	3	l WATER MANAGEMENT components (wells, reservoir, recycled) recommended in the Audit?	10
	3	m IRRIGATION components (motors/engines, pumps) recommended in the Audit?	10
	3	n AGRICULTURAL PRACTICES that use more energy efficient ENGINE DRIVEN EQUIPMENT (i.e., planting, tilling, harvesting, etc.) recommended in the Audit?	10
	3	o CROP/FEED STORAGE components recommended in the Audit?	10
	3	p MATERIAL HANDLING (equipment, motors, pumps) components recommended in the Audit?	10
4		If appropriate, answer ONE of the following three questions regarding conservation practices offered in the EQIP On-Farm Energy Initiative. Maximum points 20.	
	4	a Application includes THREE OR MORE conservation practice standards offered in the Initiative.	20
	4	b Application includes TWO conservation practice standards offered in the Initiative.	15
	4	c Application includes ONE conservation practice standard offered in the Initiative.	10
5		If appropriate, answer ONE of the following three questions regarding percent of energy savings based on the measures/practices PRODUCER INTENDS TO INSTALL. Percentage energy savings = (total estimated energy saved / total current energy usage). Maximum points 20.	
	5	a Will the recommended measures/practices (to be installed through this contract) achieve a total estimated percent reduction in energy use (i.e., % energy savings) greater than 40%?	20
	5	b Will the recommended measures/practices (to be installed through this contract) achieve a total estimated percent reduction in energy use (i.e., % energy savings) between 40% and 25%?	15
	5	c Will the recommended measures/practices (to be installed through this contract) achieve a total estimated percent reduction in energy use (i.e., % energy savings) between 24 and 5%?	10
		Maximum Points:	Total Points
			470

**Local Issues:**

Scoring Multiplier: 1.000

Questions:

Sub-heading Number	Question Number	Question	Points
	1	Does the applicant have a conservation plan?	55
	2	Does the applicant have a conservation plan that contains the practice they are applying for?	75
	3	In the last 3 years, has the applicant completed all previous Farm Bill contracts without any terminations, cancellations, requests to cancel, or not had any contracts at all?	150
	4	Has the applicant had a previous Farm Bill contract terminated within the last 3 years?	-279
		Maximum Points:	Total Points
			1

## **Selected Resource Concerns and Practices:**

Energy: Inefficient Energy Use - Equipment and Facilities

- FARMSTEAD ENERGY IMPROVEMENT (374)

  - Pumping Plant (533)

  - Residue Mgmt, Mulch Till (345)

  - Residue Mgmt-No-Till/Strip Till/Direct S (329)

  - Windbreak/Shelterbelt Establishment (380)

Energy: Inefficient Energy Use – Farming / Ranching Practices and Field Operations

- Conservation Crop Rotation (328)

  - Cover Crop (340)

  - Irrigation Water Management (449)

  - Pumping Plant (533)

  - Residue Mgmt, Mulch Till (345)

  - Residue Mgmt-No-Till/Strip Till/Direct S (329)

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