

MO 2018 EQIP-NOFEI

Environmental Quality Incentives Program National On Farm Energy Initiative Statewide Policy

December 1, 2017

This Policy is based on the Final Rule for EQIP, Federal Register 7 CFR Part 1466 published May 12, 2016.

NRCS will verify Beginning Farmer, Limited Resource Farmer, and/or Veteran Farmer status prior to contract obligation. There is no verification process for participants who self certify as Socially Disadvantaged. All practices must meet the minimum criteria in the Conservation Practice Standard (see the Missouri eFOTG) and the criteria listed below.

If the applicant is a tenant, the applicant must obtain written evidence or assurance of control from the landowner prior to contract obligation. Control may be a written lease, other legal agreement, or letter signed by the landowner indicating the length of control. Zero payment share landowner signature on the contract document does not demonstrate control of land.

Payment Scenarios - Each conservation practice listed in this policy has one or more payment scenarios available. The scenario nomenclature is determined by NRCS at the regional or national level. Where the scenario name is not descriptive enough to cover all the State Conservationist and State Technical Committee approved uses of the scenario for Missouri, a footnote has been added directly below the scenario name to clarify its use in planning and contract development.

Management Practices - Management practice payments are only available on acres where the practice has not been previously applied (with or without financial assistance), or where the practice will result in a higher level of conservation benefit.

Structural Practices - Structural practices include conservation practices that are either structural or vegetative, and have a multi-year lifespan. Structural practices involve the establishment, construction, or installation of site-specific measures. Payments are established as a one-time payment. In addition to control of land, tenants must obtain and provide to NRCS prior to obligation written concurrence from the landowner to apply a structural or vegetative practice. In lieu of written concurrence, the landowner may be a signatory to the contract with 0% payment shares to indicate their concurrence.

Conservation Activity Plans (CAP) - Conservation Activity Plans are conservation plans developed for producers to assist in identifying conservation practices needed to address a specific natural resource need. CAPs are completed by NRCS certified Technical Service Providers (TSP). The list of NRCS certified TSPs is available on the NRCS TSP webpage: www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/technical/tsp

Screening Criteria: Use of the national screening criteria is required and all eligible applications must have an assigned priority recorded in ProTracts.

ProTracts Energy Button: An “Energy Benefits” button is available in ProTracts to capture estimated energy savings. The “Energy benefits” should be checked “no” for AgEMP CAP applications since energy savings do not occur unless the recommended measures provided in an AgEMP CAP report are implemented. This button must be checked “yes” for all contract items implemented as part of NOFEI and based on the recommendations provided as part of a completed on-farm energy audit. Checking “yes” requires the user to enter the numeric values for the estimated energy savings and the reduction of greenhouse gases and air pollutants directly associated with the energy savings from the completed on-farm energy audit. Please contact the State Office for assistance in determining the ProTracts energy button data.

Maximum Payments - Maximum payments, where identified in this policy, are implemented at the contract item (CIN) Level in ProTracts by using the Cost Share Cap input box. The contract may have multiple CINs for a practice, however each CIN must be capped utilizing the Cost Share Cap input box at the Maximum Payment level identified in this policy.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
128	Agricultural Energy Management Plan Planning CAP			Number			1
	AgEMP Small, One Enterprise			Each	\$1,579.76	\$1,895.72	
	AgEMP Small, Two Enterprise			Each	\$2,438.94	\$2,926.72	
	AgEMP Small, Three Enterprise			Each	\$2,820.83	\$3,384.99	
	AgEMP Small, Four Enterprises			Each	\$3,442.70	\$4,131.24	
	<i>Small: ≤300 acres, ≤300 AU, up to 2 irrigation pumps, ≤20,000 sq ft heated greenhouse</i>						
	AgEMP Medium, One Enterprise			Each	\$1,961.66	\$2,353.99	
	AgEMP Medium Two Enterprises			Each	\$3,298.11	\$3,957.73	
	AgEMP Medium, Three Enterprises			Each	\$3,680.00	\$4,416.00	
	AgEMP 128 Medium, Four Enterprise			Each	\$4,301.87	\$5,162.24	
	<i>Medium: 301-2,500 acres, 301-1,000 AU, 3-6 irrigation pumps, 20,001 - 40,000 sq ft heated greenhouse</i>						
	AgEMP Large, One Enterprise			Each	\$2,583.52	\$3,100.23	
	AgEMP Large, Two Enterprises			Each	\$4,501.93	\$5,402.31	
	AgEMP Large, Three Enterprise			Each	\$4,952.75	\$5,943.30	
	AgEMP 128 Large, Four Enterprise			Each	\$5,643.54	\$6,772.25	
	<i>Large: >2,500 acres, >1,000 AU, 7 or more irrigation pumps, >40,000 sq ft heated greenhouse</i>						

1 Must be completed by a NRCS certified Technical Service Provider (TSP).

2 Enterprises are defined in ASABE S612 "Definitions: 3.3 Farm enterprise: production category of a farm.

3 AU = Animal Unit as defined by NRCS. See the Animal Unit Activity Sheet available through the NRCS Employee Missouri SharePoint.

4 Only one Conservation Activity Plan may be concurrently approved and developed on an eligible land unit (e.g., field) at the same time, and must cover all eligible acres currently under the control of the applicant and included in their conservation plan.

5 See the (128) Agricultural Energy Management Plan Criteria.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
672	Building Envelope Improvement <i>Structural</i>	\$50,000	\$70,000	Number			10
	Building Envelope - Attic Insulation			Sq Ft	\$0.62	\$0.75	
	Building Envelope - Wall Insulation			Sq Ft	\$1.76	\$2.11	
	Building Envelope - Sealant			Foot	\$1.32	\$1.58	
	Building Envelope - Greenhouse Screens			Sq Ft	\$1.59	\$1.90	
	Building Envelope - Greenhouse Unglazed Wall Insulation			Sq Ft	\$0.24	\$0.29	
	Building Envelope - Insulated Door Upgrade			Sq Ft	\$8.24	\$9.89	
	Building Envelope - Insulated Curtain Upgrade			Sq Ft	\$2.05	\$2.45	
	Building Envelope - Curtain Wall Conversion			Sq Ft	\$2.97	\$3.57	

1 Payment for this practice is only authorized when included as a planned practice in an Ag Energy Management Plan approved prior to the EQIP application cutoff date (see AgEMP definition in footnote 2/).

2 The efficiency improvements from the audit must have payback less than 11 years. The payback calculation is based on the entire system installed.

3 See the (672) Building Envelope Improvement conservation practice standard.

4 Contact State Office for assistance in determining Protracts "Energy Button" data.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
374	Farmstead Energy Improvement <i>Structural</i>	\$75,000	\$104,000	Number			10
	Ventilation - Exhaust			Each	\$1,082.61	\$1,299.13	
	Ventilation - Horizontal Air Flow/Stir Fan			Each	\$175.08	\$210.09	
	Ventilation - Cool Cell, Evaporative Cooling System			sq ft	\$22.76	\$27.31	
	Ventilation - Heat Recovery System			Each	\$7,500.00	\$9,000.00	
	Refrigeration - Scroll Compressor			HP	\$666.23	\$799.48	
	Refrigeration - Plate Cooler			Each	\$3,985.58	\$4,782.70	
	Refrigeration - Compressor Heat Recovery System			Each	\$2,999.20	\$3,599.04	
	Controller - Variable Speed Drive for <=1 HP Motor			HP	\$661.16	\$793.40	
	Controller - Variable Speed Drive for >1 to <10 HP Motor			HP	\$517.07	\$620.48	
	Controller - Variable Speed Drive for 10 to <50 HP Motor			HP	\$297.21	\$356.65	
	Controller - Variable Speed Drive for >= 50 HP Motor			HP	\$102.17	\$122.61	
	Controller - Single Function			Each	\$104.29	\$125.14	
	Controller - Multi-Function, Single Environmental Condition			Each	\$970.71	\$1,164.85	
	Controller - Multi-Function, Multiple Environmental Condition			Each	\$2,639.15	\$3,166.98	
	Motor - <= 1 HP Electric Motor Upgrade			HP	\$483.76	\$580.52	
	Motor - > 1 to <10 HP Electric Motor Upgrade			HP	\$144.05	\$172.86	
	Motor - 10 - <50 HP Electric Motor Upgrade			HP	\$118.38	\$142.06	
	Motor - >= 50 HP Electric Motor Upgrade			HP	\$65.30	\$78.36	
	Motor - Variable Speed Electric (Split Phase)			HP	\$187.85	\$225.42	
	Heating - Radiant Systems			1000BTU/Hr	\$9.66	\$11.59	
	Heating - Building			1000BTU/Hr	\$9.92	\$11.91	
	Heating - Attic Heat Recovery Vents			Each	\$129.61	\$155.53	
	Grain Dryer			Bu/Hr	\$74.91	\$89.89	

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
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- 1 Payment for this practice is only authorized when included as a planned practice in an Ag Energy Management Plan approved prior to the EQIP application cutoff date (see AgEMP definition in footnote 2/).
- 2 The efficiency improvements from the audit must have payback less than 11 years. The payback calculation is based on the entire system installed.
- 3 See the (374) Farmstead Energy Improvement conservation practice standard.
- 4 Contact State Office for assistance in determining Protracts "Energy Button" data.

449	Irrigation Water Management Management			Acre			1
	IWM for row crops			Acre	\$8.80	\$10.56	
	IWM for microirrigation systems and specialty crops			Acre	\$45.50	\$54.60	

- 1 Payment is authorized on existing irrigated acres for development of a more efficient irrigation management plan.
- 2 Practice is only available on land that has been irrigated 2 of the past 5 years prior to application for assistance.
- 3 Practice is authorized for up to three payments per acre within the contract period.
- 4 See the (449) Irrigation Water Management conservation practice standard.
- 5 Contact State Office for assistance in determining Protracts "Energy Button" data.

670	Lighting System Improvement Structural			Number			10
	Lighting - Indoor Bulb Replacement			Each	\$10.98	\$13.18	
	Lighting - Indoor Fixture Conversion			Each	\$291.45	\$349.74	
	Lighting - Indoor Fixture Conversion, Multiple Fixture Upgrade			Each	\$216.57	\$259.88	
	<i>Payment is based on each original fixture that is replaced by multiple fixtures of upgraded LEDs. For example, if a building has 20 existing high pressure sodium light fixtures which are replaced by 100 LED fixtures, the contract item number quantity is 20.</i>						
	Lighting - Outdoor/High Bay Bulb Replacement			Each	\$252.79	\$303.35	
Lighting - Outdoor/High Bay Fixture Conversion			Each	\$332.29	\$398.75		

- 1 Payment for this practice is only authorized when included as a planned practice in an Ag Energy Management Plan approved prior to the EQIP application cutoff date (see AgEMP definition in footnote 2/).
- 2 The efficiency improvements from the audit must have payback less than 11 years. The payback calculation is based on the entire system installed.
- 3 See the (670) Lighting System Improvement conservation practice standard.
- 4 Contact State Office for assistance in determining Protracts "Energy Button" data.

Practice Code	Conservation Practice	Maximum Payment	HU Maximum Payment	Practice Unit/ Payment Unit	Payment Rate	HU Payment Rate 1/	Lifespan (Years)
533	Pumping Plant <i>Structural</i>			Number			15
	Wastewater Pump < 1 Hp			Each	\$964.90	\$1,157.87	
	Wastewater Pump 1-5 Hp			Each	\$2,530.88	\$3,037.06	
	Manure Pump >5 Hp			Each	\$6,123.44	\$7,348.12	
	Small Wastewater Fuel Driven Pump <= 50 Hp			Each	\$18,998.00	\$22,797.60	
	Large Wastewater Fuel Driven Pump > 50 Hp			Each	\$24,549.33	\$29,459.19	
	Livestock Water, Shallow Well Pump (<= 25 ft deep)			Each	\$1,149.67	\$1,379.61	
	Livestock Water, Shallow Well Pump (<= 25ft deep) with Above Ground Pump House <i>Scenario is applicable to both above ground and buried pump house installations.</i>			Each	\$1,850.82	\$2,220.99	
	Livestock Water, Deep Well Pump (>25 ft deep)			Each	\$1,456.94	\$1,748.33	
	Livestock Water, Deep Well Pump (> 25ft deep) with Above Ground Pump House <i>Scenario is applicable to both above ground and buried pump house installations.</i>			Each	\$2,158.09	\$2,589.71	
	<i>Payment is not authorized for a Deep Well Pump for use with surface water sources.</i>						
	Solar Pump for Shallow Well or Spring Development			Each	\$2,536.30	\$3,043.56	
	Solar Pump for Deep Well <i>Payment is only authorized for the Solar options when electricity is not available or cost prohibitive.</i>			Each	\$8,111.53	\$9,733.84	
	Livestock Non-Electric Pump			Each	\$906.97	\$1,088.36	
	Pump with Sump			Each	\$2,777.58	\$3,333.10	
	Milk Transfer Pump			Each	\$455.32	\$546.38	
	Vacuum Pump			Each	\$4,168.51	\$5,002.22	

1 Payment is not authorized for electricity or a power unit or for PTO-driven pumps.

2 The pump must be a new, high efficiency model. Savings will be based on comparison to a standard model installation.

4 See the (533) Pumping Plant conservation practice standard.

5 Contact State Office for assistance in determining Protracts "Energy Button" data.

Footnotes and Acronym Information

- 1/ HU Payment Rate refers to the payment rate for Historically Underserved Farmers (Limited Resource Farmers, Beginning Farmers, Socially Disadvantaged Farmers, and Veteran Farmers who also qualify as Beginning Farmers).
- 2/ AgEMP = Ag Energy Management Plan. Approved AgEMP's include (122) Agricultural Energy Management Plan - Headquarters Conservation Activity Plan, (128) Agricultural Energy Management Plan Conservation Activity Plan, or an on-farm energy audit less than 5 years old that meets the American Society of Agricultural and Biological Engineers (ASABE) Standard 612 "Performing On-farm Energy Audits."

TSP Technical Service Provider (www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/technical/tsp)

This Program Policy is approved for use in Missouri

J. R. Flores

December 1, 2017

Missouri State Conservationist

Date