CONSERVATION ENHANCEMENT ACTIVITY

E533D



Switch fuel source for pumps

CONSERVATION PRACTICE: 533 - Pumping Plant

APPLICABLE LAND USE: Crop (Annual & Mixed); Crop (Perennial); Pasture;

Associated Ag Land; Farmstead

RESOURCE CONCERN: Air

ENHANCEMENT LIFE SPAN: 15 years

Enhancement Description

Switch the fuel source for the pump motor(s) to an on-farm renewable source (wind, solar, geothermal, etc.).

Criteria

- Replace an existing pump motor with a drive unit that is powered by a renewable source such as wind, solar, geothermal, etc. that can adequately maintain the existing operating conditions, flow rates and pressures.
- The replacement or retrofit system and related components or devices meet or exceed currently applicable federal, state, and local standards and guidelines.
- Components of this enhancement will meet the NRCS Conservation Practice Standard Pumping Plant (Code 533).

CONSERVATION STEWARDSHIP PROGRAM

Documentation and Implementation Requirements

Participant will:

Prior t	Evaluate current operating conditions of the existing pump(s) including season of use and motor needs. Evaluate site specific renewable energy alternatives. Evaluate options during lack of production of renewable energy source.
Durin <u>c</u>	g implementation Ensure installation meets federal National Electrical Code and any local or state codes.
After i □	implementation Monitor and maintain system for the life span of the practice (10 years).
NRCS	will:
Prior t	Provide and explain NRCS Conservation Practice Standard Pumping Plant (Code 533) as it relates to implementing this enhancement. As needed, provide additional technical assistance to the participant as requested. Review with the participant the costs and benefits of conversion to renewable energy source. Develop written specifications describing site specific details of installation, including: The replacement or retrofit system and/or related components or devices. Plan view showing the location of the measures in relation to other structures or natural features, where appropriate. Method used to protect existing power provider from back feed from renewable source. Electrical components that meet the requirements of the National Electrical Code. Operation and maintenance plan that is consistent with the purpose(s) of this practice, its intended life, and safety requirements.



CONSERVATION STEWARDSHIP PROGRAM

NRCS Documentation Review:

I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements.

Participant Name	Contract Number	
Total Amount Applied	Fiscal Year Completed	
NRCS Technical Adequacy Signature	 Date	