

Energy Enhancement Activity –ENR03- Pumping plant powered by renewable energy



Enhancement Description

This enhancement requires the use of renewable energy—solar or wind – to power pumping plants for irrigation, drainage, livestock watering, or wildlife.

Land Use Applicability

Cropland, pastureland and rangeland

Benefits

The advantages of using solar or wind resources to power water pumps include conservation of fossil fuels, the reduction of the use of chemical

fluids such as oils and coolants, and the reduction of air pollutants such as greenhouse gases caused by the combustion of fossil fuels commonly used to power most pumping systems.

Criteria

This enhancement requires the use of a renewable energy source to power pumping plants for water to be used for irrigation, drainage, livestock or wildlife. Choose one of the following power sources:

1. Onsite solar or wind to either generating electricity or pump water directly.
2. “Green power” purchased from a utility. “Green power” in this instance is defined as electricity derived either from solar or wind but not bio-fuels and not hydroelectric power.

Note: This enhancement does not apply to purchase of equipment or “green energy” that is used to supply the energy needs of a personal residence.

Documentation Requirements

1. Documentation related to the installation of an electricity generating wind turbine pumping plant system, a solar panel pumping plant system and/or a wind powered pumping system
2. Photograph’s of system after installation
3. Documentation of the purchase of “green power” (see definition above) from a third party that is used solely for irrigation purposes.

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This activity may NOT be used with the following enhancements: ENR06, ENR09

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Potential duplicate practice: 533 - Pumping plant