

Energy Enhancement Activity – ENR07 – On Farm Energy Audit



Enhancement Description

Conduct an on farm Type 2 energy audit according ASABE Standard S612 and implement findings according to the criteria below.

Land Use Applicability

Cropland, pastureland, rangeland and forestland.

Benefits

Farming operations use significant amounts of energy. An energy audit can identify changes that a

farmer can make in operations and equipment that will save energy. By implementing some or all of the recommendations from an audit a farmer can save significant amounts of energy and money.

Criteria

1. Conduct a Type 2 energy audit according to ASABE Standard S612.
2. The energy audit should be conducted for all farming operations. However, requirements for implementation of the recommendations apply only to those items that pertain to the CSP land uses, cropland, pastureland, rangeland and forestland.
3. Implement any recommendation in the audit that has a payback of no more than 2 years, an estimated cost which is no more than 40% of the annual energy costs for the activity associated with the recommendation and that applies to the following major activities as defined in the ASABE standard and that occur on CSP land uses:
 - a. Other motors/pumps
 - b. Cultural Practices
 - c. Water Management
 - d. Irrigation

Note: This means that audit recommendations pertaining to headquarters operations do not have to be implemented to satisfy this enhancement. Other audit recommendations (those that do not satisfy Criteria 3) may be implemented at the discretion of the applicant.

Documentation Requirements

1. A copy of the energy audit.
2. A list of activities that have been implemented as a result of the audit and the expected energy savings.

Michigan Supplement

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Criteria for a Type 2 Energy Audit, as required by the American Society of Agricultural and Biological Engineers (ASABE) Standard 612, can be provided by the local Natural Resources Conservation Service (NRCS) District Conservationist.

Contact your local utility company or rural electric cooperative to locate a qualified energy auditor, certified energy manager or a professional engineer.

A list of individuals certified through the Michigan State University (MSU) /Michigan Agricultural Electric Counsel training course to complete on farm energy audits can also be found on the Michigan Agricultural Electric Counsel website (http://maec.msu.edu/ag_auditors.htm). NRCS, MSU, and the Michigan Agricultural Electric Council accept no responsibility for farm energy audit reports by these persons or their employer.

A list of individuals certified through the NRCS Technical Registry (TechReg) as Technical Service Providers (TSP) to conduct on farm energy audits and prepare Agricultural Energy Management Plans may also be found on the NRCS TechReg website (<http://techreg.usda.gov>). On the TSP TechReg home page click on “Find a TSP”, click on Michigan, click on your County. A list of TSPs for all categories will appear; change the category to CAP-Agricultural Energy Mgmt- Component 2-Headquarters Plan Development.