Energy Audit Information

3-13-09

Energy Audit definition *Per page 10535 of the Federal Register dated 3-11-09.*

An audit conducted by a certified energy manager or professional engineer that focuses on potential capital-intensive projects and involves detailed gathering of field data and engineering analysis. The audit will provide detailed project costs and savings information with a high level of confidence sufficient for major capital investment decisions similar to, but in more detail, than an energy assessment.

Qualified Consultant definition *Per page 10535 of the Federal Register dated 3-11-09*

An independent, third-party possessing the knowledge, expertise, and experience to perform in an efficient, effective, and authoritative manner the specific task required.

Energy Audit Requirements
Per page 10537 of the Federal Register dated 3-11-09

To be eligible for an energy audit or renewable energy development assistance grant, the grant funds for a project must be used by the grant recipient to assist agricultural producers or rural small businesses in one or both of the purposes specified in paragraphs (1) and (2)

1) Conducting and promoting energy audits that meet the requirements of the energy audit as defined in this Notice and that cover all of the following:

(i) *Provision of situation reports.*

Include a narrative description of the facility or process being audited;
Its energy system(s) and usage; and activity profile.
Also include the price per unit of energy (electricity, natural gas, propane, fuel oil, renewable energy, etc.) paid by the customer over the previous 12 months from the date of the audit.
Any energy conversion data should be based on use and source.

(ii) *Potential improvements.*

List specific information regarding all potential energy-saving opportunities and the associated cost.

(iii) *Technical analysis.*

Discuss the possible interactions of the potential improvements with existing energy systems.

(A) Estimate the annual energy and energy costs savings expected from each possible improvement recommended for the potential project.
(B) Estimate all direct and attendant indirect costs of each improvement.
(C) Rank potential improvement measures by cost-effectiveness.

(iv) *Potential improvement description.*

Provide a narrative summary of the potential improvement and its ability to provide needed benefits, including a discussion of non-energy benefits such as project reliability and durability.

(A) Provide preliminary specifications for critical components.
(B) Provide preliminary drawings of project layout, including any related structural changes.
(C) Document baseline data compared to projected consumption, together with any explanatory notes.
-- When appropriate, show before-and-after data in terms of consumption per unit of production, time or area.
--Include at least 1 year's bills for those energy sources/fuel types affected by this project.
--Also submit utility rate schedules, if appropriate.
(D) Identify significant changes in future related operations and maintenance costs, including person hours.
(E) Describe explicitly how outcomes will be measured annually.