

Accepted Manuscript

A study of the comparability of energy audit program evaluations

Elias Andersson, Oskar Arfwidsson, Victor Bergstrand, Patrik Thollander



PII: S0959-6526(16)31909-6

DOI: [10.1016/j.jclepro.2016.11.070](https://doi.org/10.1016/j.jclepro.2016.11.070)

Reference: JCLP 8459

To appear in: *Journal of Cleaner Production*

Received Date: 15 March 2016

Revised Date: 12 October 2016

Accepted Date: 11 November 2016

Please cite this article as: Andersson E, Arfwidsson O, Bergstrand V, Thollander P, A study of the comparability of energy audit program evaluations, *Journal of Cleaner Production* (2016), doi: 10.1016/j.jclepro.2016.11.070.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

A study of the comparability of energy audit program evaluations

Elias Andersson*, Oskar Arfwidsson, Victor Bergstrand, Patrik Thollander

Department of Management and Engineering, Division of Energy Systems, Linköping University, SE-581
83 Linköping, Sweden

*Corresponding author. E-mail address: elias.andersson@liu.se (E. Andersson).

Amount of words: 7316

Abstract

There is a large untapped potential for improved energy efficiency in various sectors of the Economy. Governmental industrial energy audit programs subsidizing the companies to do an energy audit is the most common policy in trying to overcome the energy efficiency gap. Evaluation studies have been carried out in order to gain knowledge about the success of a completed energy audit policy program. The evaluations were made in different ways as well as focusing on different performance indicators and using different ways of categorizing data. In this article, a literature review of five evaluation studies from different energy audit programs has been made, where the problems of the existing incomparability between programs due to differences are discussed. The policy implication of this paper is that new energy audit policy programs must distinguish a harmonized way of categorizing data, both regarding energy efficiency measures and energy end-use. Further, a proposition for standard on how to evaluate energy audit policy programs is suggested. Conclusions made in this study are that important elements, such as the free-rider effect and harmonized energy end-use data, should be defined and included in evaluation studies. A harmonized standard on how to evaluate audit programs is not the least needed within the EU where Member States are obliged to launch audit programs for large enterprises, and preferably also for small and medium sized enterprises. This paper serves as an important contribution for the development of such a standard in further research.

Keywords: Energy efficiency, Energy audit policy evaluations, Industrial energy audit policy programs

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات