IMPROVING INDUSTRIAL ENERGY AUDIT ANALYSES

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ABSTRACT

A frequent criticis of ener!y audits is that they overesti ate the savin!s potential availa"le to the custo er. #his paper addresses several pro"le areas \$hich can result in over%opti istic savin!s protections, and su!!ests \$ays to prevent ista'es.

(erfor in! an ener!y and de and "alance is the initial step a careful ener!y analyst should ta'e \$hen startin! to evaluate the ener!y use at a facility. #hese "alances allo\$ one to deter ine \$hat the lar!est ener!y users are in a facility, to find out \$hether all ener!y uses have "een identified, and to chec' savin!s calculations "y deter inin! \$hether ore savin!s have "een identified than are actually achieva"le.

)o e analysts use the avera!e cost of electricity to calculate ener!y savin!s. #his can !ive a false picture of the actual savin!s and ay result in over%opti istic savin!s predictions. #his paper discusses ho\$ to calculate the correct values fro the electricity "ills, and \$hen to use these values. Finally, the authors discuss several co on ener!y%savin!s easures \$hich are frequently reco ended "y ener!y auditors.) o e of these ay not actually save as uch ener!y or de and as e*pected, e*cept in li ited circu stances. +thers have !ood ener!y savin! potential "ut ust "e i ple ented carefully to avoid increasin! ener!y use rather than decreasin! it.