

OptiMiser, a product of EnergyLogic Inc., is a new and dramatically improved energy auditing software for buildings. In performing energy audits in our core business units, EnergyLogic recognized that no auditing tool existed that achieves three key goals in conducting energy audits. First, energy auditors need tools that perform accurate energy modeling and prediction. Second, energy auditors need tools that combine accuracy with speed in order to conduct more audits in a shorter time, thus increasing the potential for saving energy. Third, energy auditors need to be able to make reliable recommendations for reducing homes energy consumption.

OptiMiser meets all of these needs with an intuitive user interface that enhances the auditors work flow. The computational advances that OptiMiser incorporates are the key to the innovation that it represents. By analyzing utility bill data against the concurrent weather data for that period of time, radically better assumptions and thus recommendations can be made for homes that are audited. In order to allow an auditor to be efficient, OptiMiser gives them real time feedback on upgrade recommendations that take full accounting for measure interactions. OptiMiser then allows the auditor to produce clear, customizable reports on site. Additionally, OptiMiser allows the auditor to deliver a work order or proposal to the homeowner or client at the time of the audit along with the audit report. This is key to driving client behavior and undertaking energy efficiency upgrades to the home.

In order to enable the wide spread use and adoption of OptiMiser, OptiMiser has additional components that allow large institutional users to deploy it to large groups of auditors. Using an "E-Portal", OptiMiser provides organizations like utility companies with a secure repository for sensitive customer data while allowing secure data sharing with OptiMiser and iRate[®], another EnergyLogic product. iRate[®] is a turn-key web application for auditing organizations for managing and operating all aspects of the energy auditing business including integration with QuickBooks[®] accounting software and other energy-modeling software. iRate[®] won the RESNET (Residential Energy Services Network) Industry Innovation Award for 2007.

As a new technology, the potential for savings can only be estimated. However, there are approximately 126 million homes in the United States. Over the next several years, millions of them will receive energy audits. Homes account for approximately 21% of the carbon produced in the United States. We believe that while many energy audits are conducted well and professionally, many more are not. By using a sophisticated, yet easy to use, tool like OptiMiser with dramatically improved analytic capacity, auditing will be dramatically improved. Both for homeowners and for auditing agencies and their sponsors (utilities, weatherization agencies, state and local energy offices).

If the overall state of energy auditing can be improved by 10% (a conservative estimate); we should see a commensurate aggregate reduction in energy use. The average U.S. Home used 94.9 million Btu in 2005. If one million energy audits were performed with OptiMiser and the estimated 10% improvement realized over other auditing methods, 9.49¹² Btu's could be saved. That is roughly equal to 474,500 tons of coal (20 million Btu/ton of coal), resulting in a possible carbon offset of 1,357,070 tons of CO₂.