



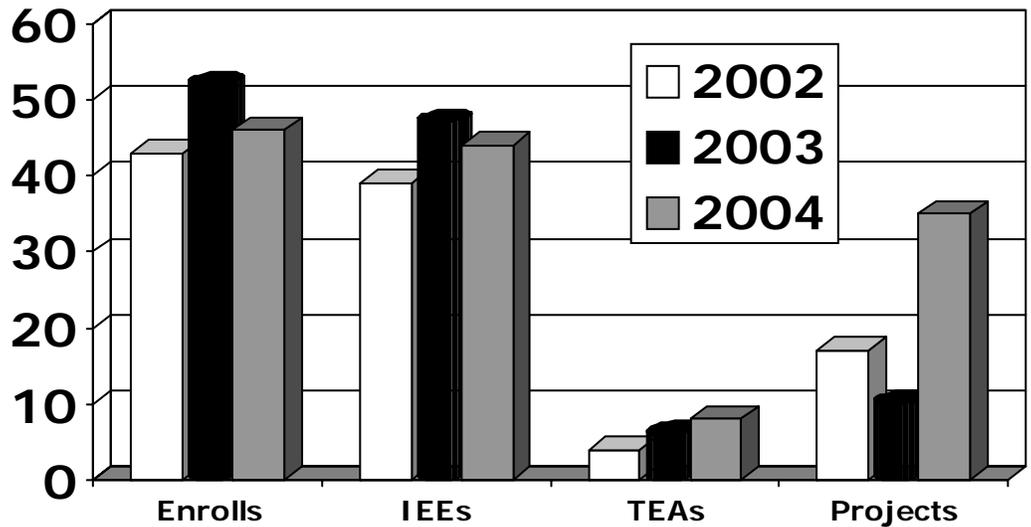
Michigan  
Energy Office

2004 Annual Report

# Rebuild Michigan

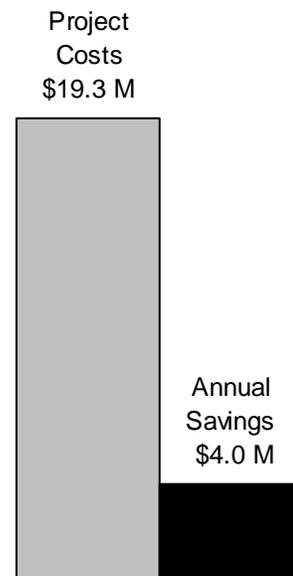
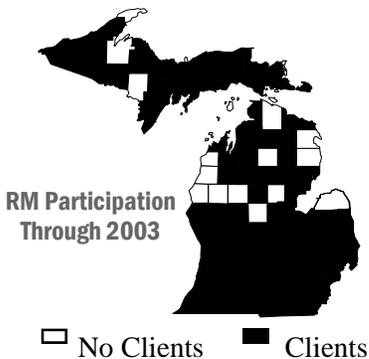
Rebuild Michigan assists public K-12 schools, colleges, universities, local governments and public housing authorities with improving the energy efficiency of their buildings. Rebuild Michigan offers technical assistance and attractive financing information for cost effective projects.

## A Year in Review



During 2004, RM participants reported a record number of completed energy-saving projects to the Energy Office (EO) and collectively invested more than \$19.3 million in building upgrades. These projects are saving \$4.0 million in annual energy costs with an average payback of 4.8 years. An example of a success story is Schoolcraft Community School District which invested \$355,000 in variable frequency motor drives, T-8 fluorescent lamps, LED exit signs, energy efficient unit ventilators and additional controls for lighting and temperature on the existing computerized energy management system. The project is expected to save \$58,000 in annual energy costs with an average payback of 6.1 years. Information on other RM client projects can be found at [www.michigan.gov/eopublic](http://www.michigan.gov/eopublic). Click on "Case Studies" in the left sidebar found on the Energy Office web page.

In 2004, Technical Energy Analyses (TEA) increased by 156% and project implementations by 437% over 2003 for RM. An additional 10 MI counties had RM clients added to them through RM outreach services (see sidebar maps).



## Contractors and Partners Contribute to Successful Year



John Anderson, RM  
Contractor

During 2004, RM contractors John Anderson and Kevin Cook collectively conducted 151 on-site public building analyses. The 29 clients received Introductory Energy Evaluation reports (IEE) and follow up services. Kevin and John conducted on-site project implementation reviews for an additional 27 clients. John has completed his first year with RM and will continue providing RM services in 2005. Kevin is beginning his fifth year as a RM contractor. Key partnerships with the MI School Business Officials (MSBO), Downriver Community Conference, and M-Tech at Bay de Noc Community College contributed to an increased in performance over 2003. Several pre-qualified energy consultants also referred customers that completed TEAs and projects with RM support.



Kevin Cook of G-energy,  
RM Contractor

## New 2004 Services

A new RM publication debuted in 2004 entitled *Rebuild MI Update*. This quarterly newsletter is sent to participating technical energy analysis consultants to keep them better informed on RM program activity and other pertinent news and information.

Rebuild America's *Solution Center* provides some of the best energy efficiency information and tools found online today. Users can receive basic to advanced information on project design, implementation and commissioning as well as information on the latest technologies affecting energy efficiency. The Solution Center is located online at [www.rebuild.org/lawson/productservice.asp](http://www.rebuild.org/lawson/productservice.asp).

The Energy Office hosted two RM technical workshops in 2004 that covered High Performance Schools and Advanced Design and Technologies for High Performance Buildings. Eighty-nine percent of attendees rated the High Performance workshop above average and 93% of attendees rated the Advanced Design workshop above average. Seventy-two customers were served between the two workshops. Two new workshops will be planned and presented in 2005.



RM introduced a new service called *Energy Smart Schools (ESS)* that promotes energy efficiency to eligible K-12 schools through district-wide energy education and teamwork. ESS attempts to improve teacher training and student learning through hands-on activities that improve the energy efficiency of school operations. Laker Public Schools in Pigeon MI and Fraser Public Schools in Fraser MI are the first to initiate programs for the 2004-2005 school year. Both Districts received curriculum planning support from the National Energy Education Development (NEED) organization and special incentives from RM to defray start-up costs. These incentives and support services will be offered to 2005-2006 school year participants.

## New Objectives and Resolutions for 2005

During the last three years the Rebuild Michigan (RM) Program has seen a steady increase in Technical Energy Analysis (TEA) contracts. Eight RM customers completed TEAs for their buildings in 2004 compared with six customers the previous year. Several others communicated their plans to initiate TEAs by requesting the RM Request for Proposal template and/or by securing Board approval for them.

It is essential that RM participants receive information from a variety of trusted sources about the benefits of pursuing a TEA report and cost-effective energy projects so they will not hesitate to commit the appropriate financial resources.

To continue improving RM program outcomes, the Energy Office staff is committed to providing even better services and support to our customers and partners during 2005. New RM objectives include:

- Capturing energy efficiency opportunities in new construction of public buildings by offering specialized services and information.
  - Inviting 1998 – 1999 program participants to enroll in RM to update their IEEs and partake of the expanded menu of program services.
  - Strengthening and expanding partnerships with pre-qualified TEA consultants through improved, more frequent communication.
  - Focusing more outreach efforts on new RM sectors – public universities and public housing authorities and on local governments.
  - Benchmarking all newly enrolled school districts to Energy Star performance standards; continuing incentives for verifying ES Label eligibility and special recognition for districts that achieve ES Labels.
  - Extending RM participation to all counties in the state.
  - Publishing case studies on RM customers that have completed TEAs and projects and including such information in articles, presentations, website references and making it available to RM partners for their use.
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# ENERGY STAR Benchmarking

The ENERGY STAR building label is awarded to buildings that exhibit high energy efficiency without sacrificing occupant safety and comfort. During 2004, RM assisted 14 school districts with benchmarking of their buildings, the first step to achieving the ENERGY STAR label.

Belding Area Schools received recognition in 2004 for achieving the ENERGY STAR label at Orchard Hills Elementary School. Two other school districts, Grandville and Wyandotte, have received ENERGY STAR building labels. Grandville received 2004 recognition for two additional buildings: Cummings Elementary and South Elementary.

The EO offers a cash incentive to apply for the ENERGY STAR building label. Funds are available on a first-come, first-served basis. Contact the Energy Office staff engineer, Brandy Minikey, at 517.241.8235 or [bjmink@michigan.gov](mailto:bjmink@michigan.gov) for more information on incentives.



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