

Mesa County Valley School District 51

Performance Based Energy Incentive Award Program

Resource Conservation Management Office



Energy Policy

The following is the Energy Conservation Management Policy adopted by the Board of Education in December 2007:

WHEREAS, the Board of Education recognizes it is the District's responsibility to conserve non-renewable energy and natural resources, to protect our precious environment by reducing energy pollution damage, and to faithfully steward the use of tax payer dollars by preventing waste of energy resources which diverts dollars away from the District's educational mission; and

WHEREAS, the Board of Education and Superintendent wish to provide leadership in developing an energy conservation ethic among all district stakeholders by raising awareness of the growing demand for energy and increasing energy supply rates, and will support both short and long-range energy management and conservation strategies in existing facilities, and future school construction; and

WHEREAS, the Board of Education and the Superintendent believes that each member of our community has an important part to play in the management of energy consumption and encourages all to participate; and

NOW, THEREFORE, IT IS RESOLVED, the Board directs the Superintendent or his/her designee to establish an on-going energy management program. The primary objective of this energy management program will be to raise awareness among all District employees and students to the cost of energy associated with the use of the District's facilities and acquire their active participation in efficient use of energy through continuous education and incentives; and

BE IT FURTHER RESOLVED, the efficient use of energy at each site will be the responsibility of the school's administration team and the District Resource Conservation Manager.

I hereby certify that the information contained in the above resolution is accurate and was adopted by the Mesa County Valley School District 51 Board of Education on December 18, 2007.

*Jamie Sidanycz
Secretary, Board of Education*

Energy Star

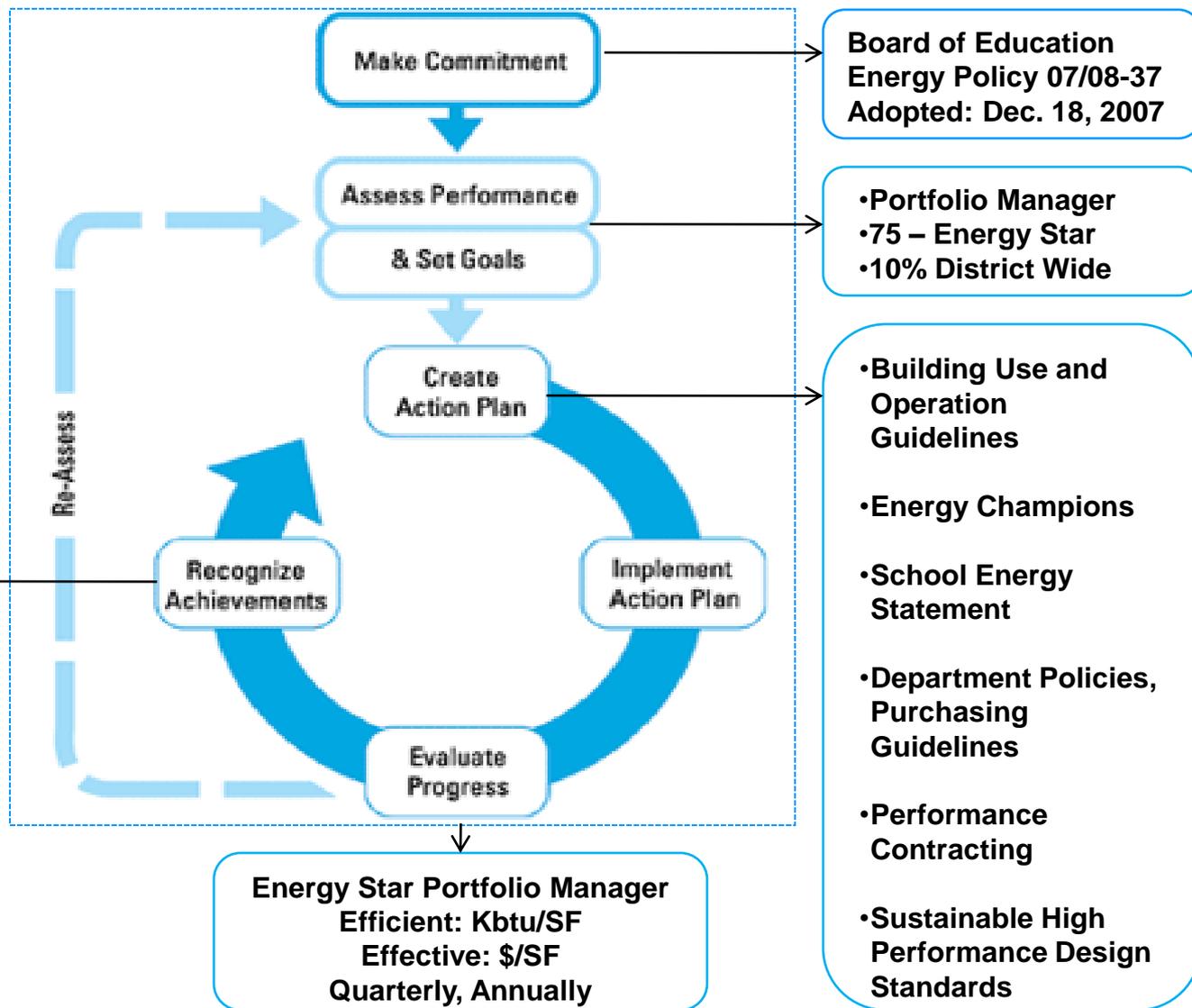
On September 21st, 2007 Mesa County Valley School District 51 partnered with the US EPA ENERGY STAR Program. The decision to partner with ENERGY STAR means that our district has made a fundamental commitment to protect the environment through continuous improvement of our facilities energy performance.

The mission of the Resource Conservation Management Office is to reduce energy costs and usage while maintaining an educational environment conducive for student learning.

The fundamental aspects of our program include the following:

- Measure and track energy performance quarterly and annually
- Achieve a 10% reduction in energy usage district-wide, as a start
- Develop energy management guidelines for each school
- Raising awareness of the importance of energy conservation
- Highlight our achievements within our community

Energy Strategy – MCVSD51



- Building Plaque
- Energy Star Incentive Award Program
- Board of Education Resolution

**Board of Education
Energy Policy 07/08-37
Adopted: Dec. 18, 2007**

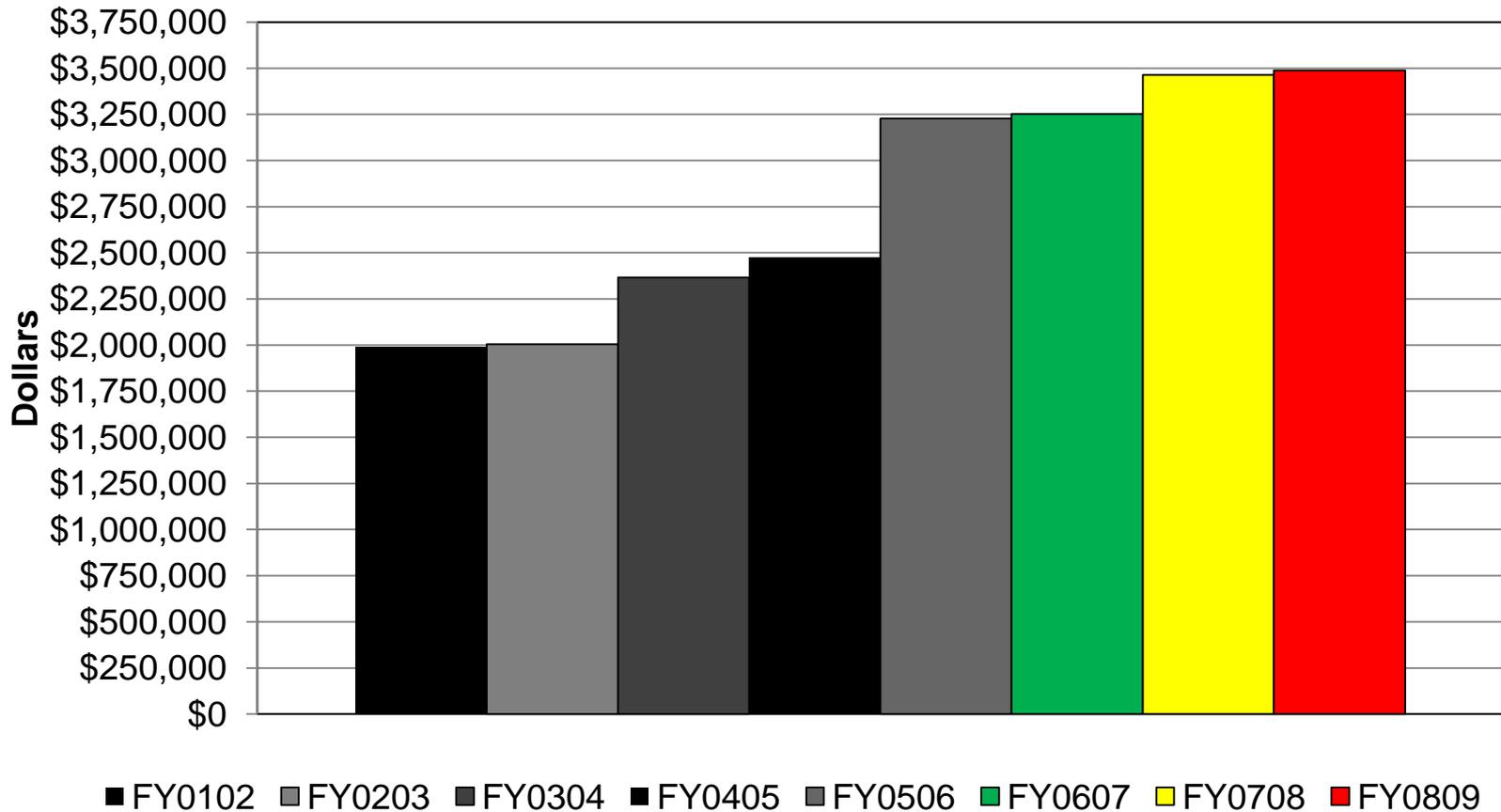
- Portfolio Manager
- 75 – Energy Star
- 10% District Wide

- Building Use and Operation Guidelines
- Energy Champions
- School Energy Statement
- Department Policies, Purchasing Guidelines
- Performance Contracting
- Sustainable High Performance Design Standards

**Energy Star Portfolio Manager
Efficient: Kbtu/SF
Effective: \$/SF
Quarterly, Annually**

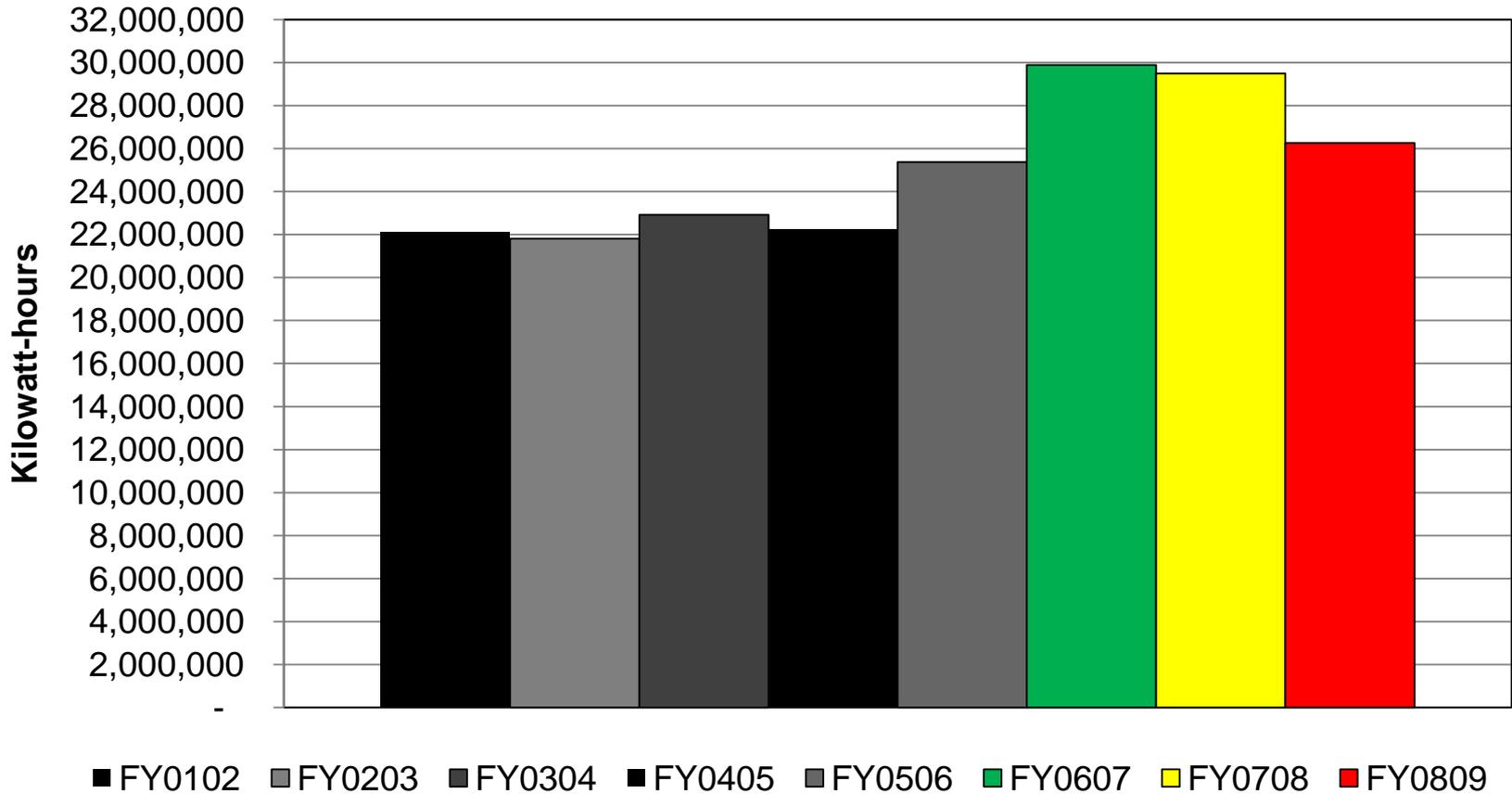
Electric & Natural Gas Costs

Mesa County School District Combined Energy Cost



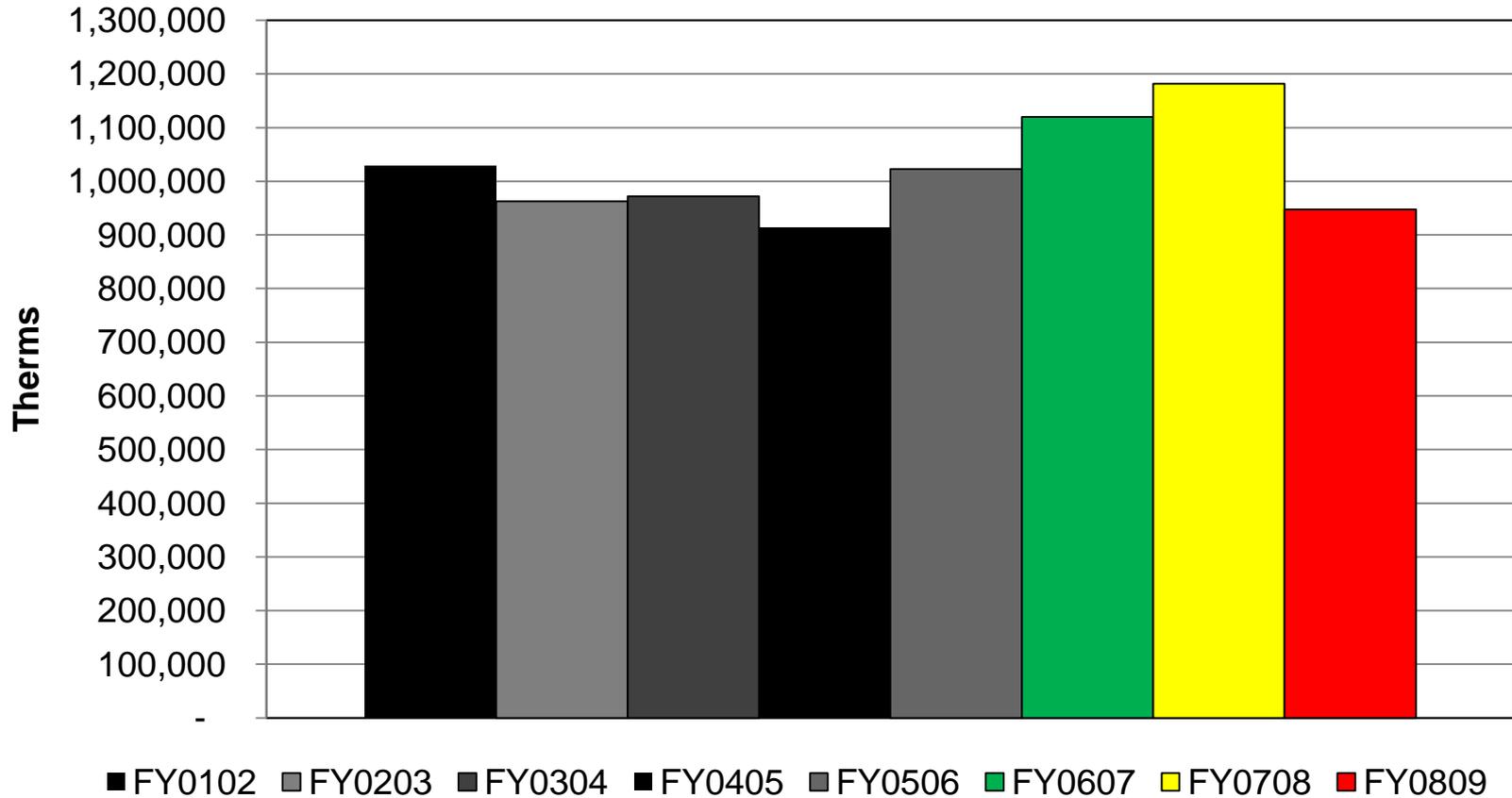
Electricity Use

Mesa County School District Electric Use



Natural Gas Use

Mesa County School District Natural Gas Use



Energy Incentive Awards

- \$50,0000 annual award amount. Incentive amount is tied directly to energy savings, program participation, and leadership.
- Two distributions annually of \$25,000 each from the Maintenance Department Utility Budget to school Energy Star Rewards:(Key Code ###262100) (Object 70610).
- Summer/Fall award period is July - December with the award distributed in March.
- Winter/Spring award period is January - June with the award distributed in September.
- Supported by District Energy Policy.
- Three level system modeled after successful incentive award systems used in other Colorado school districts.

Energy Incentives Promote

- Energy incentive monies should return to where conservation happens. Ideally programs lead by teachers, students, custodians, environmental clubs, etc.
- Incentive monies should be used toward further energy and resource conservation efforts.
- Encourage the use of energy incentive monies toward funding of vendor supported, site based recycling programs.
- Incentive monies could be used toward the purchase of compact fluorescent lights (CFL) for desk and classroom lamps. Future incentive awards toward the buyback of CFL's to ensure proper disposal of these lamps.

Three Level System

- Level One – Base award based on student enrollment.
- Level Two – current energy use versus baseline energy use, energy use measured in KBTU/SF for the incentive period.
 - $KBTU = (Electric + Natural\ Gas + Propane) / Square\ Footage$
- Level Three – Leadership and participation awards to encourage student involvement, extraordinary efforts.

Level One - Student Count

- Purpose: ensure that all schools earn something in the incentive system.
- Percentage of each school's student enrollment (Oct. 1) as compared to the District's total enrollment multiplied by the Level One award amount. Example \$5,000
- Level One award approximately 20% of total distribution.

Level Two - Energy Use

- Purpose: awards energy incentives dollars solely based on energy/utility use reduction.
- Aggregate each sites energy use (electric, natural gas and propane) for the incentive period and convert into Kbtu/SF. Compare current energy use to the weather normalized baseline (FY0607) energy use for the same period.
- Incentive award is each sites energy savings multiplied by an energy incentive rate multiplied by the sites square footage. Example \$.00055 per Kbtu energy rate.
- Level Two award is approximately 50% of total distribution.

Level Three - Participation

- Purpose: encourage energy use reduction by awarding incentive dollars for direct participation.
- Direct participation by students, custodians and school staff.
- No formal method for determining award amounts. Discretion of Resource Conservation Manager. Reviewed by Maintenance Director and the Energy Resource Advisory Committee.
- Level Three award is approximately 30% of total distribution.

Ten Tips to Earn Incentives

1. Be a Leader - encourage energy conservation at your school!
2. Turn out the lights! At Lunch, recess, after school, holidays...
3. Ask for a review of HVAC schedules
4. Change to compact fluorescent light bulbs (CFL) in classrooms and offices. More about Energy Star Compact Fluorescent Light Bulbs:
http://www.energystar.gov/ia/partners/manuf_res/salestraining_res/CFL_AtAGlance.pdf
5. Use override switches during the breaks sparingly!
6. Use the energy saver button on office photocopiers
7. Computer monitors go into sleep mode
8. Participate in an energy conservation presentation or energy audit
9. Student leadership in energy conservation
10. Energy Star Building Label

Specific Adjustments

- The Energy Star Incentive system will never be completely fair. The purpose of the program is to encourage energy conservation. Keep in mind that 50% of the award is based on student count and participation. The remaining 50% is based on actual energy performance.
- Adjustments will be made to incentive model for factors that impact a schools energy use that are beyond the schools control, for such things as bond construction project impact, major mechanical failures, metering problems, Extended Learning, etc.
- The incentive system will be modified with guidance from the Energy Resource Advisory Committee.

Contact Information

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