



D11 Resource Conservation Management (RCM) Program

Presented by Michael Brubaker, Assistant Energy Manager

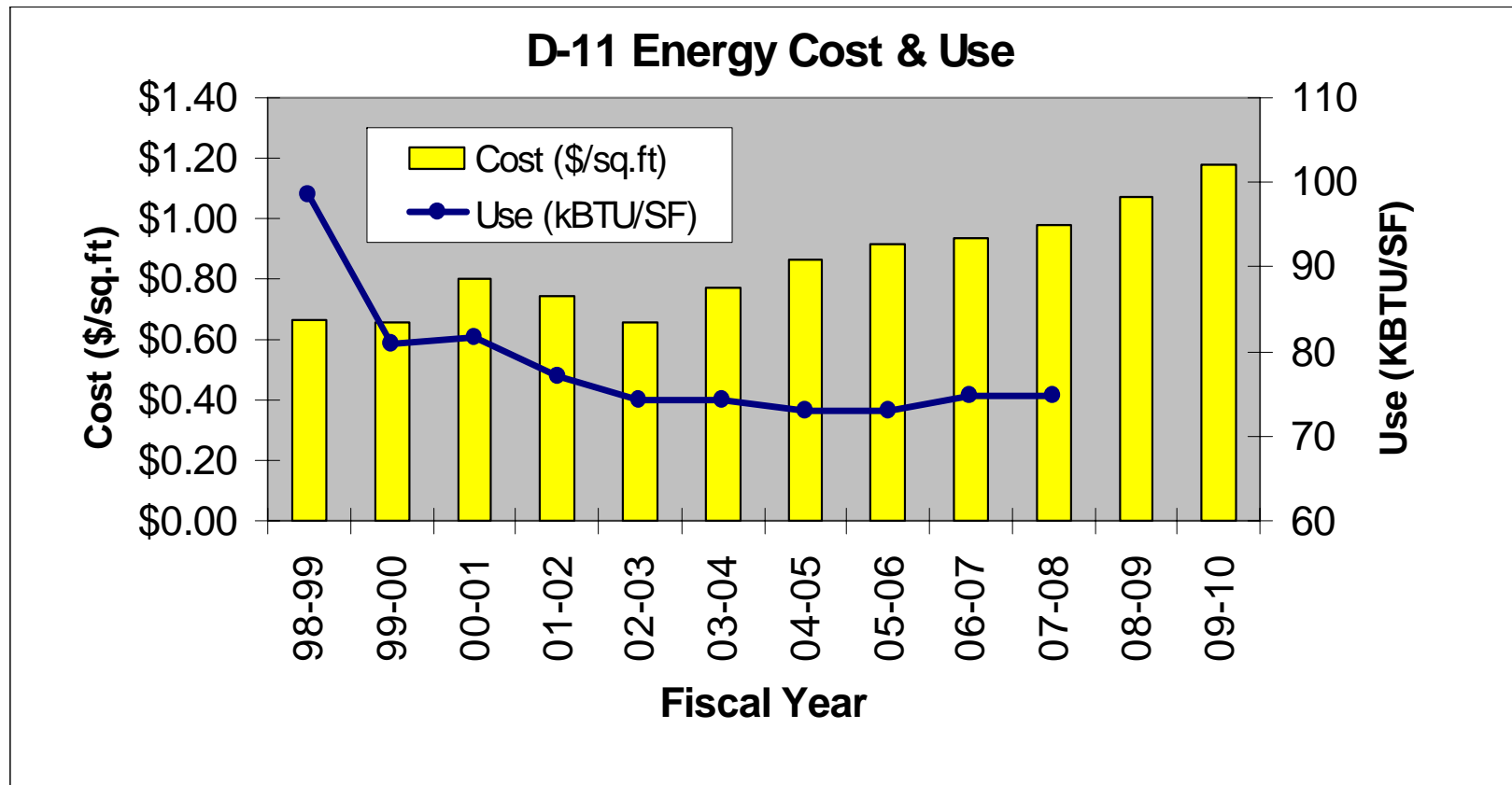
11-21-08



Energy Department Mission

The mission of the Resource Conservation Management program is to heighten awareness among all District 11 employees and students to the cost of energy associated with the use of the District's facilities, and get their active participation in efficient use of energy through continuous education and incentives.

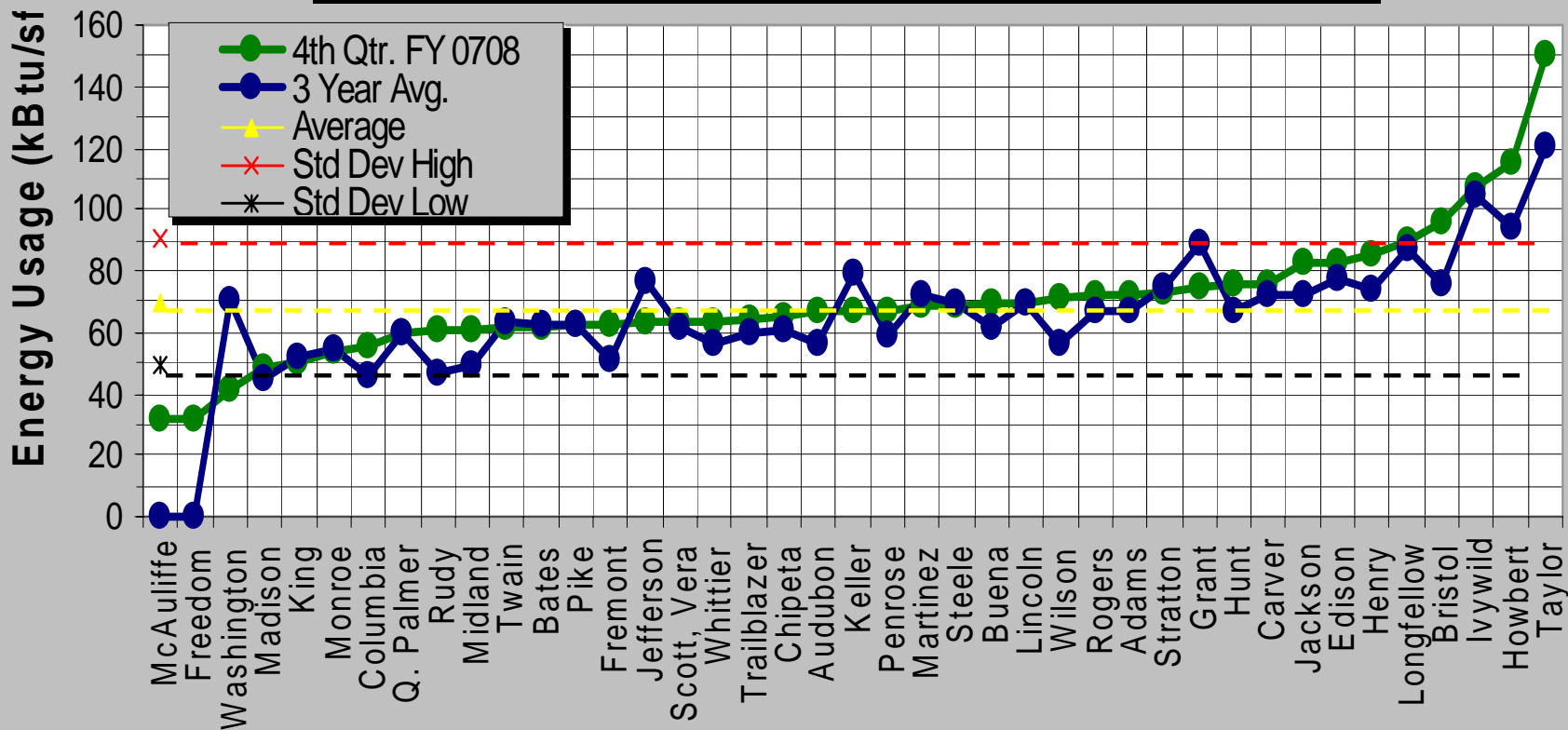
Why It Matters



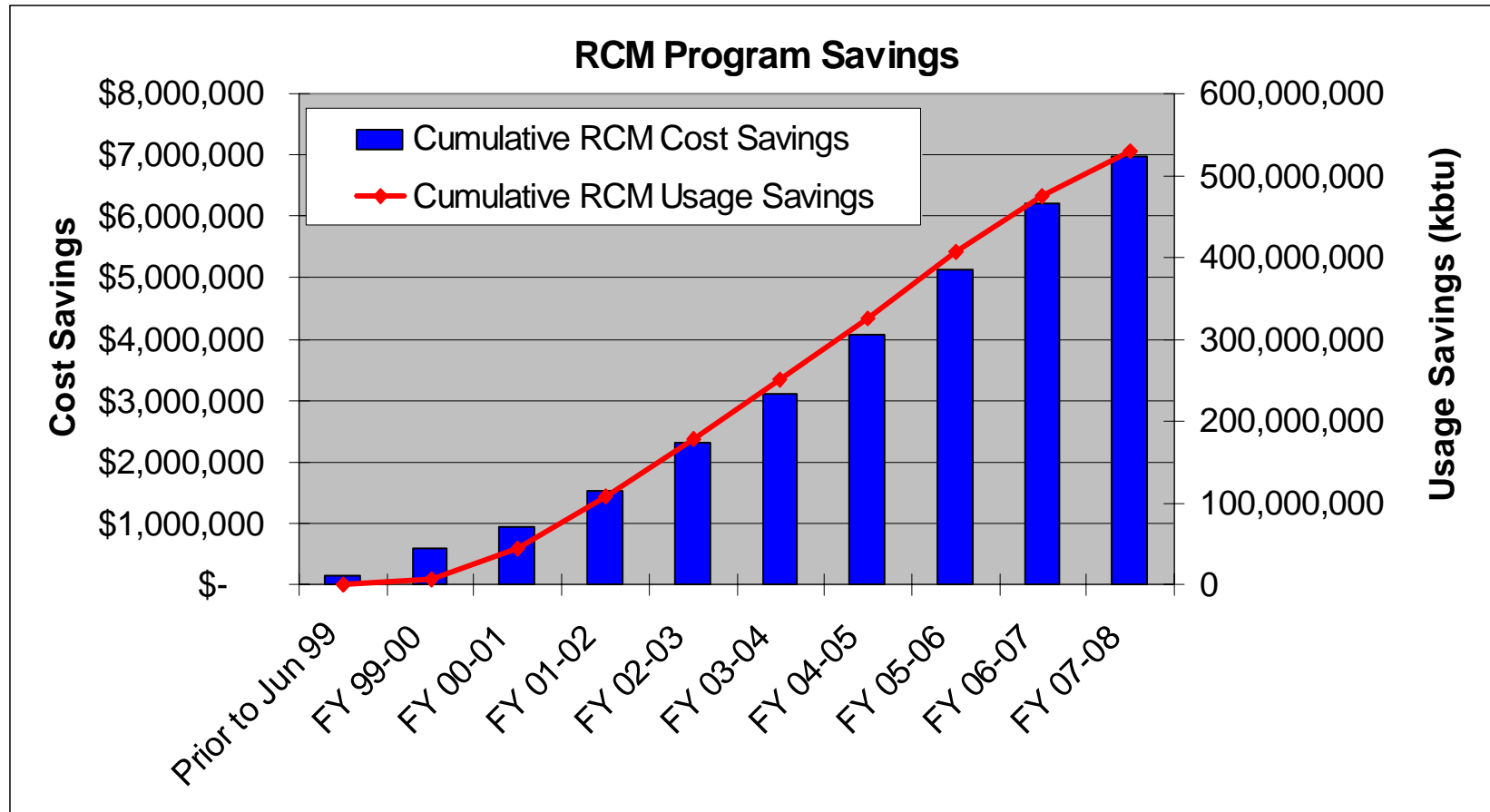
Key Performance Indicators



D-11 Elementary Schools: 4th Quarter FY 07-08 Energy Use Index



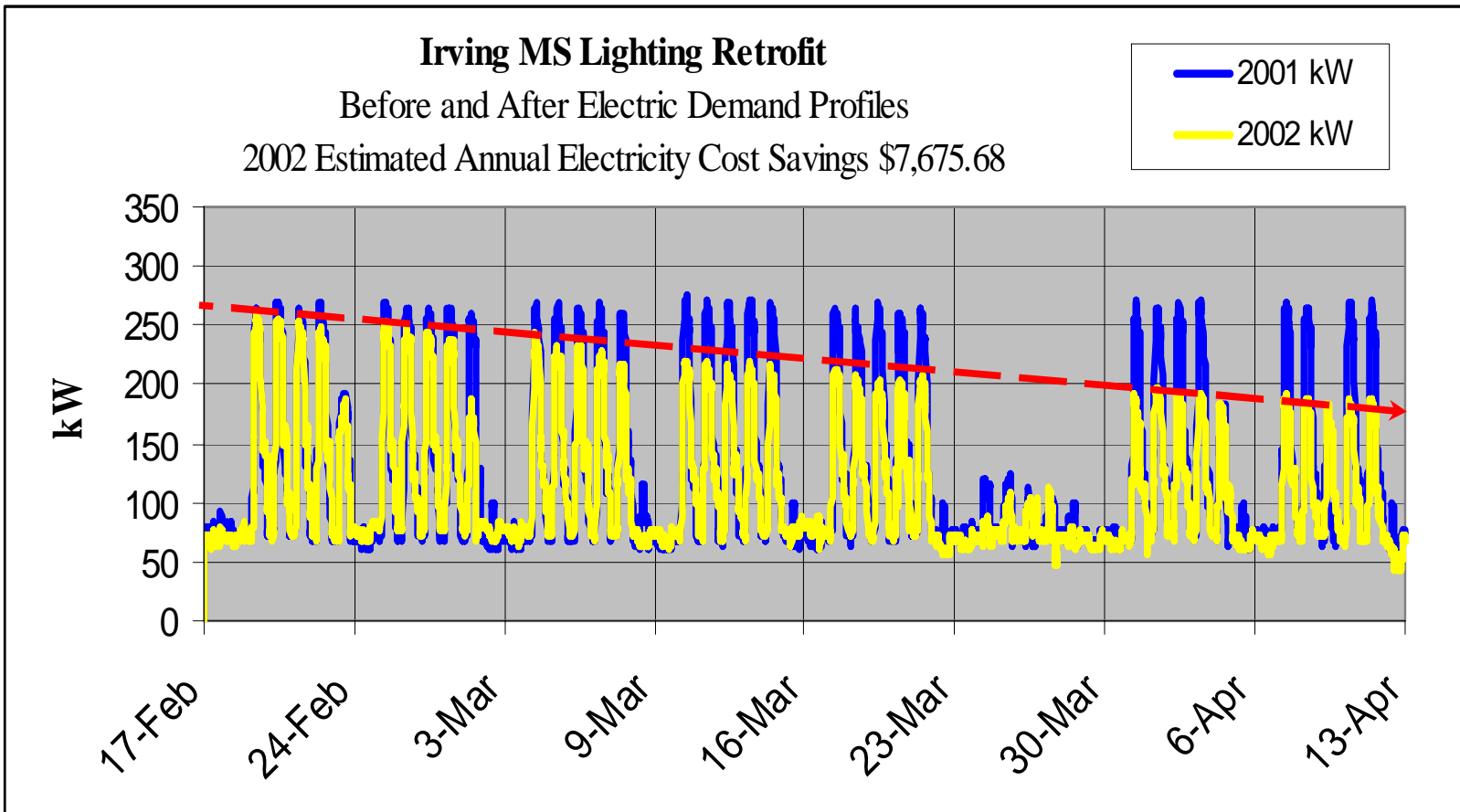
Energy Cost and Usage Avoidance



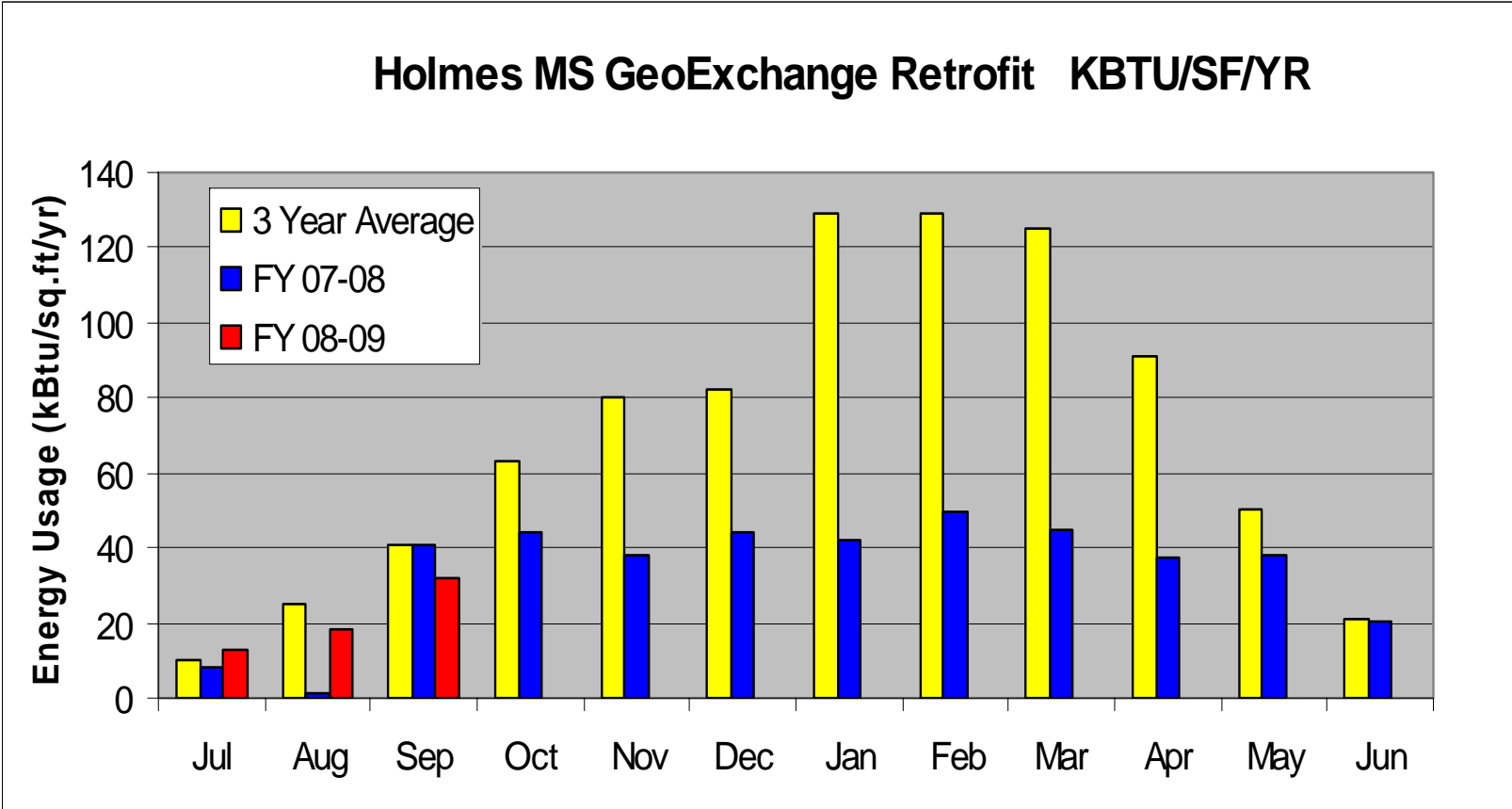
Energy Initiatives

- Lighting Retrofits
- Retro-commissioning
- GeoExchange Systems
- Energy Performance Contracting
- Sustainable High Performance School Design
- Photovoltaic Array Pilot Project
- Low Flow Faucets & Toilet Fixtures

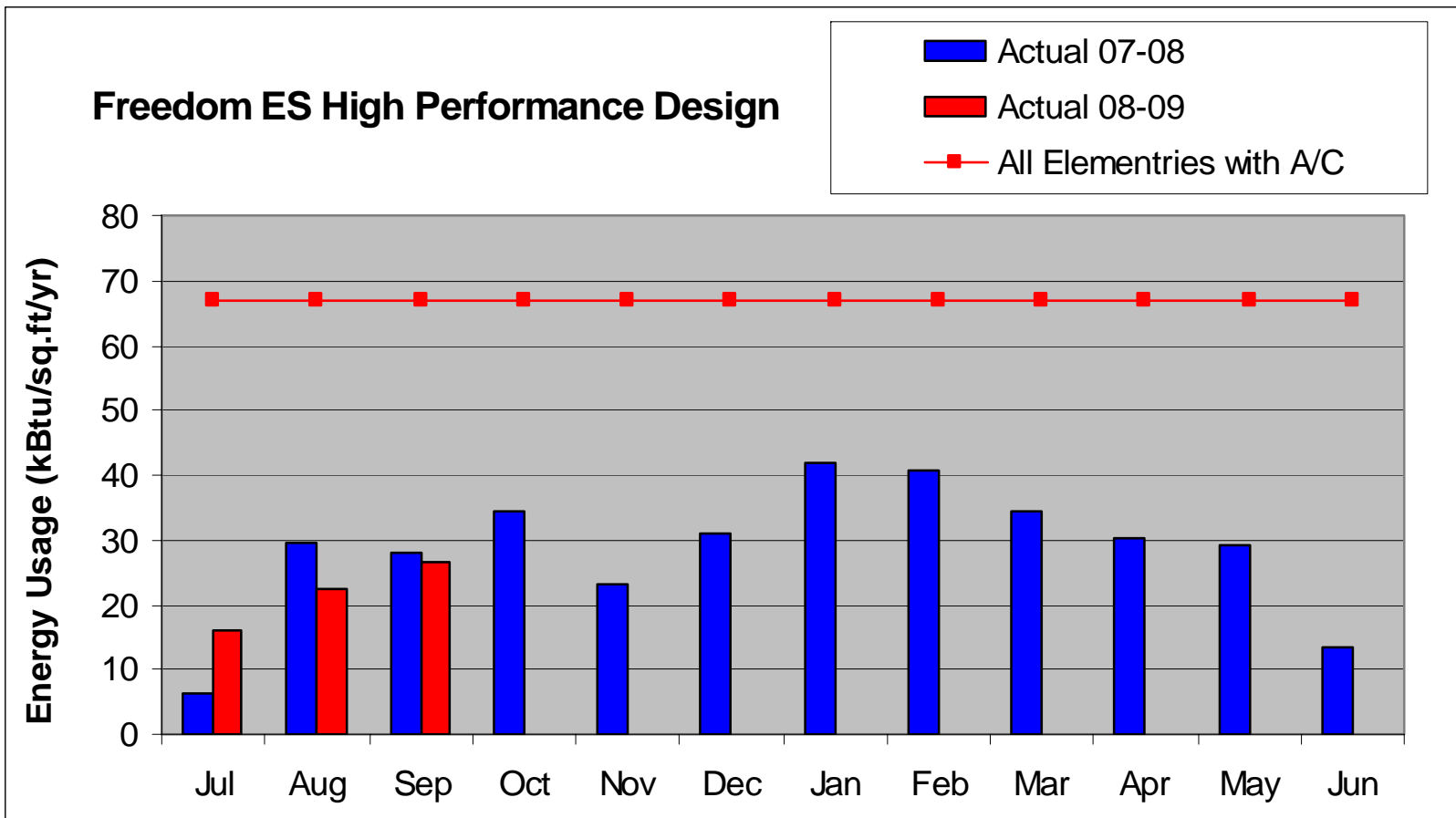
Lighting Retrofits



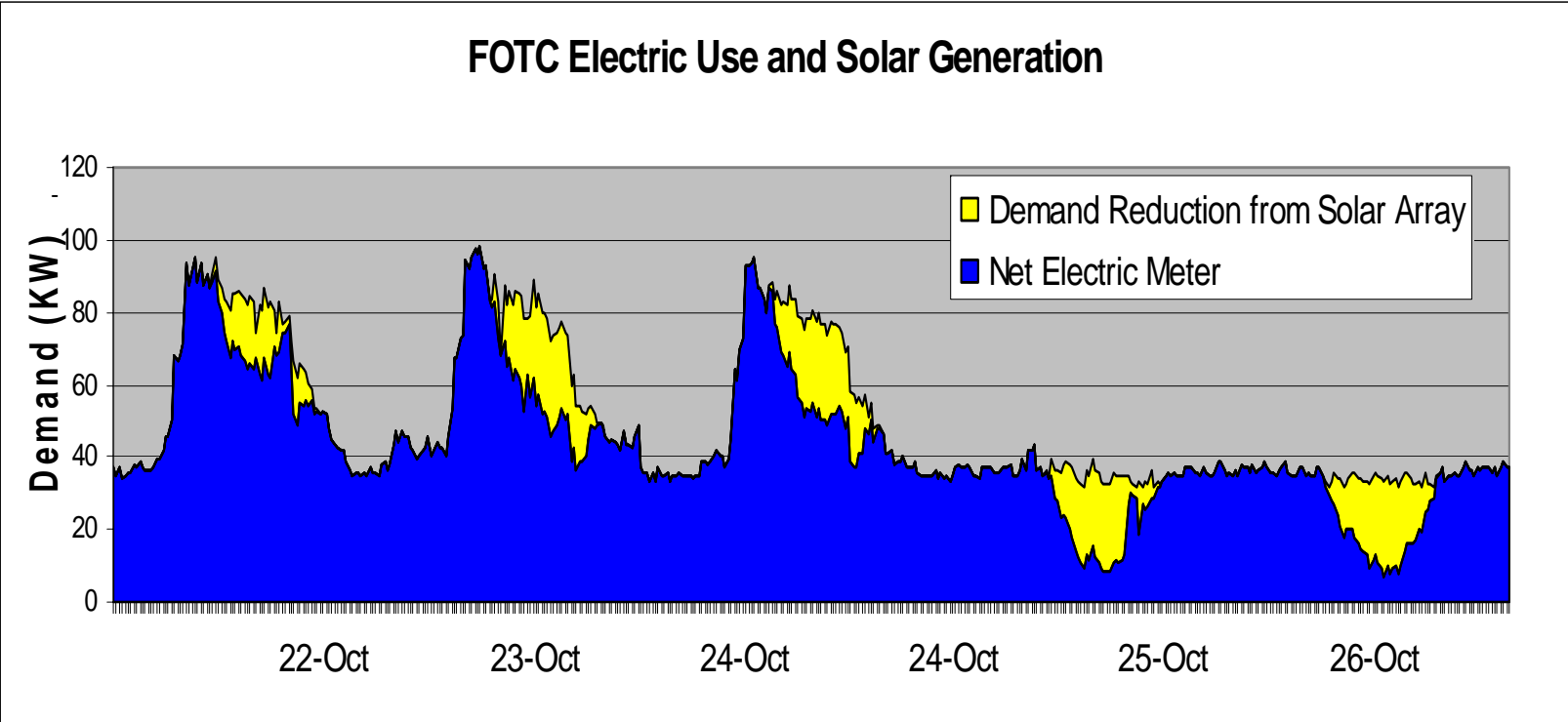
GeoExchange Retrofit Results



Freedom Elementary High Performance Design



Solar Electric Pilot Project

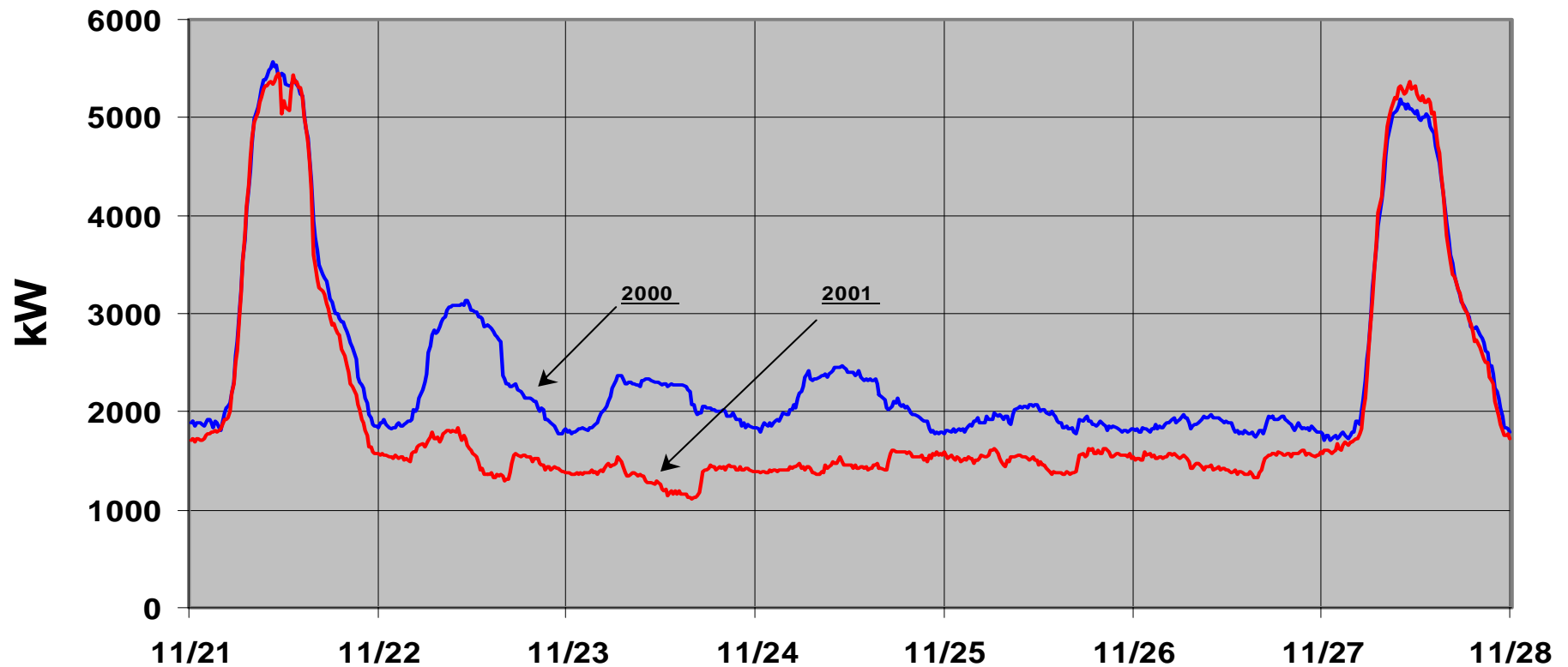


At The Schools

- Energy awareness
- Behavioral Changes
- Best practices manuals
- Negotiate HVAC schedules
- Bi annual energy reports
- Cash back incentives - \$500K

Load Profiling Example

Thanksgiving Break Shutdown
Electric Load Comparison Graph - All Sites





EPA Energy Star Program

- Promotes energy conservation
- Recognition for building users
- Instills a sense of environmental responsibility in our students and staff
- National peer recognition for D11
- Useful platform for demonstrating stewardship to community
- 7 D11 schools Energy Star Certified

Promoting Educational and Career Opportunities



- Engineering intern hired to assist D11 Energy Manager
- Provides experience and exposure to the sustainable energy field
- Additional avenue to educate public on sustainable energy
 - District 11 actively shares energy initiative experience with other school districts and organizations

Contact Information



Michael Brubaker, Assistant Energy Manager

Colorado Springs School District 11

(719) 477-6048

brubamr@d11.org