

**Department of Public Works Building**  
**July 10, 2007**  
**Executive Summary**

The Public Works Building was built in the early 1900's. It has an energy usage of \$1.33 per sq. ft. per year, which is moderate for County buildings. It is heated with an oil furnace and cooled with a split A/C unit. The building is usually comfortable except on the coldest and hottest days of the year, which indicates that the system is properly sized. Possible energy savings for the building are in the range of 10-15%. This would mean a savings of \$200 to \$300 over the next year.

The largest opportunity for savings lies in using the existing programmable thermostat to control temperatures during off hours, weekends and holidays and to reduce settings during the day time. (This has been done). Some areas have been delamped by 50%. Other cost effective work is being considered.

Submitted by: Curtis Putnam

Recommendations from Energy Audit of Public Works Bldg.  
July 10, 2007

- Weatherstrip rear door.
- Install self-closing door at entrance to rear room. (near refrigerator)
- Seal duct work in basement.
- Install occupancy sensors on lights in little used spaces.
- Caulk and seal basement window
- Insulate non-operable windows in foyer
- Consider adding reflective or heat absorbing film to minimize solar gain in summer and heat loss in winter.
- Consider adding insulation to ceiling. Calculate cost/benefit.
- Instruct personnel to close interior shading devices to reduce night heat loss in winter and to reduce solar gain in summer.
- Reset thermostats to 78°F in summer and 70°F in winter
- Consider moving air discharge grills to ceiling. Some are obstructed by desks, etc.
- Consider planting greenery around compressor to shade it from afternoon sun.
- Replace incandescent bulbs in basement with compact fluorescents.
- Consider reducing overhead lighting and increasing use of task lighting.
- Remove two lamps from 4 lamp fixtures and disconnect ballast.
- Replace burned out ballast with electronic ballasts.
- Instruct personnel to turn off computers when not in use.





