



# Energy Savings Performance Contracting

Saving Facility Resources

Case Study



## Selah Public Schools



### Project Description:

This project consisted of the retrofit and replacement of various mechanical, controls and lightings systems for the Selah Public School facilities at: Administration and Sunset Elementary, Campbell Elementary, Lince Elementary, High School and Bus Garage.

**Project Completed Total:** March, 2009  
**Project Cost:** \$1,143,519  
**Project Number:** GA Project #2007-099 (2-1)

### Annual Energy Project Savings:

<b>Electrical</b>	(\$0.037)	\$38,595	<b>kWh</b>	1,043,117
<b>Natural Gas</b>	(\$1.119)	\$46,349	<b>Therms</b>	41,420
<b>Fuel</b>		\$ 0		
<b>Water</b>		\$ 0	<b>Gallons</b>	0
<b>Maintenance</b>		\$14,334		
<b>Total Avoided Costs:</b>				
<b>Guaranteed</b>		<b>\$111,760</b>	<b>Actual</b>	<b>\$111,229</b>

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## Funding Sources:

Loans	\$978,466
Utility Incentives	\$184,740

## Project Managers:

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**This project greatly improved Selah facilities while saving energy. The project provided over \$1 million in facility improvements with no capital investment.**

*Quantum Engineering  
Monitoring and Verification Report*

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## **Emission Reductions:**

*Annual Reduction in CO2:*

**1,356,386 pounds per year**

*Annual CO2 Reduction Represents:*

**Removing 90 Cars from the road, or**

**Planting 185 acres of trees, or**

**Powering 77 homes**

## **Monitoring & verification report details:**

- Quantum Engineering provided one year detailed analysis of each conservation measure using energy management system trends as well as a detailed utility bill analysis.

### **Outcome:**

- Electricity savings fell short by 29%.
- Natural Gas savings exceeded projections by 35%.

### **Analysis:**

- Electrical savings (kWh) shortage was due to changes and modifications to the operating schedules. Quantum offered monitoring and support to meet guaranteed savings.
- Predicted savings was 94% of original estimates which adequately pays for loan financing.

For more information: email [GAEnergyTeam@ga.wa.gov](mailto:GAEnergyTeam@ga.wa.gov)  
Visit our web site at <http://www.ga.wa.gov/EAS/epc/esp.htm>