As part of Everett Public Schools’ ongoing resource conservation program, the district was awarded eight competitive grants by the state of Washington to assist in upgrading or enhancing existing building systems designed to reduce energy consumption. In addition, these projects will replace aging building systems, reduce ongoing maintenance costs and improve learning environments. These grants and rebates from local utilities have provided nearly $2.2 million to help fund projects which will save an estimated $215,000 in annual energy costs.

“As a result of voter support of schools and our grant application success, schools will now have more than $2 million of additional improvements and we will see more energy cost savings over time. This is a ‘good thing’ for our students and our community.”

Hal Beumel, Facilities & Planning Director
### Commercial Building

<table>
<thead>
<tr>
<th></th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant Amount</td>
<td>$85,500</td>
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<tr>
<td>Estimated Utility Incentives</td>
<td>$20,000</td>
</tr>
<tr>
<td>Construction Costs</td>
<td>$459,360</td>
</tr>
<tr>
<td>Projected Cost Savings (10 years)</td>
<td>$204,130</td>
</tr>
</tbody>
</table>

The 2010 Building Repair and Technology Levy project will replace aging, inefficient heating and ventilating equipment with a new, more energy efficient system and controls.

"The Energy Upgrades this summer will lead to a better learning environment for our students and staff with improvement to air quality and temperature control."

Catherine Matthews  
Everett High School Principal

### Science Building

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Grant Amount</td>
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<tr>
<td>Estimated Utility Incentives</td>
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<td>Construction Costs</td>
<td>$1,174,129</td>
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<td>Projected Cost Savings (10 years)</td>
<td>$99,580</td>
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</table>

Energy upgrades to the Science building include increased insulation as part of the 2010 Building Repair and Technology Levy roof replacement project, lighting upgrades and energy management controls. This project will also replace aging HVAC systems with new, more energy efficient equipment which has the capacity to reclaim building heat for reuse while improving ventilation capacity to improve indoor air quality.

"Having improved lighting levels in our science classrooms will help teachers improve the delivery of science curriculum. In addition, the energy upgrades can be integrated into the energy resources unit in our ninth grade science course. Using the district as a model of how to improve energy efficiency helps to increase relevancy of the unit."

Dr. Bob Sotak  
Director, Curriculum & Instruction
Vocational Building

Energy upgrades to the Vocational building include lighting fixture and control upgrades, replacement of aging inefficient heating equipment and replacement of hot water tanks with more energy efficient tankless models.

Administration Building

Energy upgrades to the Everett High administration building includes installation of lighting controls and the addition of a mechanical room to house two new energy efficient boilers. These upgrades will greatly improve the responsiveness and energy efficiency of the school's heating system.

For questions or more information regarding this project, please call the Everett Public Schools Facilities & Planning Department (425-385-4190).
Heatherwood Middle School

The purpose of Heatherwood Middle School is to provide relevant, rigorous, engaging learning experiences for our students in a safe, caring, collaborative community.

Gym Lighting & CO2 Sensors

- Grant Amount: $12,986
- Estimated Utility Incentives: $3,434
- Construction Costs: $49,178
- Projected Cost Savings (10 years): $20,000

This project includes replacement of existing metal halide and incandescent light fixtures with more energy efficient fluorescent fixtures. Project will also install carbon dioxide sensors to regulate the amount of outside air needed to maintain code required ventilation while the gymnasium is being used and will dramatically reduce the amount of energy used to heat outside air during times when the gymnasium is not occupied.

Roof & HVAC

- Grant Amount: $328,250
- Estimated Utility Incentives: $110,008
- Construction Costs: $2,537,211
- Projected Cost Savings (10 years): $273,810

The 2010 Building Repair and Technology Levy project will replace aging, inefficient HVAC equipment and install a building energy management system to provide better control of the indoor environment and reduce energy use. The project will also include replacement of the school’s roofing system, which has reached the end of its useful life, with increased insulation to improve energy performance.

For questions or more information regarding this project, please call the Everett Public Schools Facilities & Planning Department (425-385-4190).
Districtwide Upgrades

Cascade High School  
H.M. Jackson High School  
Sequoia High School  
Evergreen Middle School  
Gateway Middle School  
North Middle School  
Emerson Elementary

Hawthorne Elementary  
Jackson Elementary  
Lowell Elementary  
Madison Elementary  
Penny Creek Elementary  
Woodside Elementary

Demand Ventilation Upgrades

<table>
<thead>
<tr>
<th>Grant Amount</th>
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<td>Estimated Utility Incentives</td>
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<td>Construction Costs</td>
<td>$262,347</td>
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<td>Projected Cost Savings (10 years)</td>
<td>$449,810</td>
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</table>

The district is incorporating a Demand Controlled Ventilation (DCV) strategy for several buildings at its high schools, middle schools and elementary schools. DCV will mean that the amount of fresh air will be appropriate for the actual occupancy of the buildings. A CO2 sensor added to the controls system will allow real-time control of the ventilation levels according to building occupancy. This strategy will avoid conditioning the air unnecessarily, wasting energy in the process.

“Demand Controlled Ventilation is an efficient and affordable way for the school buildings to get the right amount of ventilation. This approach eliminates a lot of potential for wasting energy and will help the district to manage its use of natural gas.”

Jason Hyatt  
Puget Sound Energy Management Engineer

For questions or more information regarding this project, please call the Everett Public Schools Facilities & Planning Department (425-385-4190).
Districtwide Upgrades

Cascade High School  Hawthorne Elementary
Everett High School  Jackson Elementary
H.M. Jackson High School  Lowell Elementary
Sequoia High School  Madison Elementary
Evergreen Middle School  Mill Creek Elementary
Gateway Middle School  Penny Creek Elementary
Cedar Wood Elementary  Silver Firs Elementary

Lighting & Control Upgrades

OSPI Grant Amount: $818,000
Estimated Utility Incentives: $233,677
Construction Costs: $2,012,863
Projected Cost Savings (10 years): $930,000

The project will help the district take an aggressive step away from obsolete lighting technology at 14 schools. In addition, as part of the 2010 Building Repair and Technology Levy, the project will replace the existing energy management systems at Jackson Elementary, Lowell Elementary, Madison Elementary, and Cascade High School. These upgrades will provide better visibility, more reliable temperature control and improved energy efficiency. The project will also improve staff utilization and reduce maintenance costs.

“Conservation is the PUD’s least expensive and greenest energy source since it’s energy that never needs to be generated.

“We’ve seen the business community aggressively pursue energy efficiency, including grocery stores, hospitals, school districts, telecommunications companies, public agencies, major industrial manufacturers and small business establishments. PUD customers have helped our community achieve two of the strongest years for energy conservation in the utility’s history.

“The PUD applauds Everett Public Schools’ initiatives and investments to manage their energy costs, and we plan to continue working together to acquire all cost-effective energy efficiency.”

Mary Smith
PUD Sr. Manager of Energy Efficiency

For questions or more information regarding this project, please call the Everett Public Schools Facilities & Planning Department (425-385-4190).