

BUDGET MINI SESSION: FACILITIES, MAINTENANCE AND CUSTODIAL

POLICY ISSUE / SITUATION:

As part of the 2012-13 budget process, the School Board will receive monthly budget mini sessions in preparation for the adoption of the budget. This presentation covers Facilities, Maintenance and Custodial Services.

BACKGROUND INFORMATION:

The Facilities and Maintenance Departments are responsible for the general management of the District's real property assets totaling 5 million square feet of buildings and 800 acres of property. The Beaverton School District is the second largest property owner within the Urban Growth Boundary in Washington County.

The departments perform buildings and grounds maintenance, forecast future facility requirements based upon growth projections, develops capital (bond) investment programs, and manages the planning, design, and construction of bond projects. Other services include: environmental, hazardous waste, energy & resource conservation services, and demographic analyses for enrollment forecasts. Several District centralized services are also provided including postal services, print shop operations, and courier services. In addition, in 2011–12 the District's custodial services function was reorganized and consolidated under the management of the Maintenance Department.

Financial data and information about various programs and services provided to the District by these departments is contained in the attached report to the Board.

The Beaverton School District recognizes the diversity and worth of all individuals and groups. It is the policy of the Beaverton School District that there will be no discrimination or harassment of individuals or groups based on race, color, religion, gender, sexual orientation, gender identity, gender expression, national origin, marital status, age, veterans' status, genetic information or disability in any educational programs, activities or employment.



FACILITIES / MAINTENANCE & CUSTODIAL SERVICES

REPORT TO THE BOARD MARCH 12, 2012



KEEPING IT ALL TOGETHER



Facilities, Maintenance & Custodial Services Mini-Budget Review for the School Board

Overview

The Facilities and Maintenance Departments are responsible for the general management of the District's real property assets totaling 5 million square feet of buildings and 800 acres of property. The Beaverton School District is the second largest property owner within the Urban Growth Boundary in Washington County.

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Organization of this Document

This document provides current information on a wide variety of matters under the cognizance of the Facilities and Maintenance Departments. Separate background papers covering each distinct topic have been included and organized by topic groups. A Table of Contents is included on Page ii to help the reader immediately find detailed information on a particular topic of interest. Pages iii – iv contain an Executive Summary of all the topics to allow for a quick reference.

Topic No.	Page	Group	Topic Description
-	iii - iv	Summary	Executive Summary by Topic
1	1	Financial	Department Savings, Grants, and Efficiencies
2	3	Financial	General Fund Budget Overview
3	5	Capital	Facilities Plan and Next Construction Bond Planning
4	9	Maintenance	Forecasted Major Maintenance Requirements through 2025
5	11	Maintenance	District Warehouse Operations
6	12	Maintenance	Integrated Pest Management
7	14	Custodial	Custodial & Maintenance Consolidation & New Service Model
8	15	Demographics	Annual Enrollment Projections
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11	25	Energy	EnergyStar Program
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Executive Summary by Topic Facilities, Maintenance & Custodial Services

1) Savings, Grants and Efficiencies. Over the past three years, the Departments have developed savings and efficiencies for the General Fund and obtained numerous grants and funding for reimbursable facilities projects. Together, these efforts have a value of over \$12 million.

2) General Fund Budget Overview. The Departments operate with six Cost Centers in the General Fund, with a combined budget totaling \$25.4 million and 228 APU (excludes construction bond funds). In 2011-12, Custodial Services was centralized for the entire District, resulting in an additional \$8.6 million and 147 APU being reassigned to Maintenance (included in above totals).

3) Facilities Plan and Next Construction Bond. In June 2010, the School Board adopted the *Beaverton School District Facilities Plan 2010*, which forecasts requirements for the next 15 years, and directed staff to prepare for the next BSD construction bond. The key project for the next bond is expected to be the District's sixth comprehensive high school.

4) Forecasted Major Maintenance Requirements. All District facility condition assessments are reviewed and updated on a three-year rotation. The investment requirements are prioritized in three groupings and currently total about \$95 million.

5) District Warehouse Operations. In 2011, Maintenance absorbed the district-wide function of warehouse operations and surplus material management. Services include a web-based inventory, efficient circulation of goods between the warehouse and building sites, immediate updates on surplus inventory from schools, and secure records storage.

6) Integrated Pest Management Program. In 2009, the Legislature passed SB 637, designed to improve pest control in schools, and requiring all school districts in Oregon to implement an Integrated Pest Management (IPM) plan by July 1, 2012. IPM is a process for achieving long-term, environmentally sound pest suppression through a variety of tactics to reduce the food, water, shelter and access used by pests.

7) Custodial and Maintenance Services Restructuring. In order to achieve more efficiency at less cost, building custodians were merged with the Maintenance Department to form one service group in 2011-12. When fully implemented, savings are expected to be \$1.4 million annually.

8) Annual Enrollment Projections. The District Demographer develops annual enrollment projections for grades 1-12 using a variety of information. The Demographer evaluates and integrates the student impact of residential development proposals with regard to available capacity of schools, current enrollment, and projected student impact of approved and planned dwelling units.

9) Attendance Boundary Changes. Facilities Department staff review school enrollments and percentages of occupied capacity on an ongoing basis. The boundary change process, initiated by the Superintendent, is based on the guidance of School Board Policy JC. Several boundary adjustments have been made in recent years.

10) Energy Conservation Program. The District's Energy Conservation Program employs strategies such as the establishment of annual electricity and natural gas conservation targets for each school. A scorecard reporting system is used to provide monthly performance feedback on each building's energy consumption. Construction projects completed from 2008-2010 have added 12% to BSD's inventory of building space, yet total District electricity consumption has decreased 10%, and natural gas usage is down 9%.

11) EnergySTAR Program. EnergySTAR partnership and certifications assure our community that BSD is wisely using its resources and maximizing funds for education. In 2010/11, the District reduced total energy consumption by more than 10%, and had an average EnergySTAR score among the top 11% of all school districts in the country. BSD has 29 EPA certified EnergySTAR schools, more than any other district in Oregon.

12) Solar Photovoltaic Initiative. The Photovoltaic Initiative has enabled the District to secure 15 years of free solar electricity at three District schools at no cost to the District. Additionally, BSD has secured grants totaling more than \$50,000 in curriculum, teacher training, and internet monitoring of the solar systems for maximum educational benefit of these projects.

13) Reimbursable Energy Conservation Facilities Projects. In 2002, Senate Bill 1149 established a mechanism and funding resource to implement energy conservation facilities projects. General Electric and PacifiCorp provide funds that are distributed to school districts for reimbursable energy efficiency facilities projects. Projects completed since 2002 total about \$4.9M.

14) Sustainability Program. School Board Policy EDD and Administrative Regulation (EDD-AR) created an Advisory Committee for Sustainability to help guide the District's adoption of practices that balance environmental, social and fiscal responsibility. Key tasks assigned to the Committee were development of a five-year plan for the District to implement sustainability practices and annual reporting to the School Board.

15) Oregon Green Schools. The Oregon Green Schools Association offers a framework for schools to create resource conservation programs unique to their needs, while Regional Coordinators provide technical assistance and recognition of their efforts. Currently, 31 Beaverton School District schools are OGS certified.

Facilities and Maintenance Departments Savings, Grants and Efficiencies

Background

The Departments have been creative in leveraging multiple sources of funding for the benefit of the District. Grants and reimbursable funding have been secured for multiple projects. Cost savings from various programs have provided resources that were applied to District General Fund budget shortfalls. The District custodial services function was restructured and moved under the Maintenance Department resulting in substantial cost savings. In addition, various efficiency measures and staff reductions have also provided savings. Over the past three years, the value of these efforts has exceeded \$12 million.

Issues, Current Actions & Status

• The attached table provides a detailed tabulation of each measure.

Efficiency Description	General Fund Budget Savings	Grants - Other Funding Source	Explanation - Notes
Custodial & Maintenance Services Restructuring - Labor Cost Savings, FY 2011-12	\$ 400,000		Redesigned Custodial and Maintenance Dept service delivery & implemented the new Model. Provides same level of service with less labor cost. This is on-going savings.
Custodial & Maintenance Services Restructuring - Labor Cost Savings, FY 2012-13	\$ 388,000		Continues phase-in of new Model's staffing structure. This is additional, on-going savings.
Furniture, Fixtures & Equipment outfitting of new (2006 Bond) constructed schools and classrooms	\$ 2,900,000		Facilities Grant program managed very efficiently meeting all new classroom needs with a remaining balance of \$2.9M in cost savings, which were transferred into the General Fund in FY 11-12 budget.
Print Shop Operations	\$ 150,000		Enterprise Fund cost center managed efficiently generating FY 09-10 cost savings, which were transferred into the General Fund in FY 10-11 budget.
Print Shop Operations	\$ 100,000		Enterprise Fund cost center managed efficiently generating FY 10-11 cost savings, which were transferred into the General Fund in FY 11-12 budget.
Capital Center Rent Revenue		\$ 905,000	Revenues from tenants in Capital Center used for Cap Ctr building maintenance and repair work avoiding General Fund expenses from 2009 - 2011.
Seismic Upgrade Projects		\$ 880,000	Obtained a Grant from the State for upgrades to 4 schools.
Energy Efficiency Facilities Projects		\$ 3,397,000	Reimbursable funding applied toward energy efficiency facilities projects, 2009 - 2011. (SB 1149 & ARRA funding)
Reduced Energy Consumption Cost Savings	\$ 1,064,000		General Fund savings in electricity and natural gas costs due to energy efficiency facilities projects plus energy program management (conservation) measures. Cumulative savings over the past 3 years.
Solar PV Systems installed at 3 schools: Capital Center, Springville, Elmonica		\$ 1,500,000	Capital cost funded entirely through partnership with private investors. Investors also providing all O&M services on solar systems for 15 years.
Solar PV electricity generated at 3 Schools; annual District savings for 2012 - 2026	\$ 30,000		Reduces electricity purchases from PGE by 300,000 kWh/year for 15 years.
Curriculum support utilizing solar systems' electricity production data.		\$ 52,000	Includes: Website available District-wide, lesson plans tied to Oregon teaching targets & science kits for 3 grade levels. Grants obtained from Kenyon Energy, PGE, Gerding-Edlen Sustainable Solutions & Bonneville Environmental Foundation covering all costs, including reimbursement for teacher training time (15 teachers for half-day training).
Electronic PGE bill processing for electricity	Estimate not Available		240 bills per month are now received and processed electronically by Facilities and Business Office. Improves accuracy, speed of processing, & requires less staff time. Reduces risk of late payment fees. This efficiency measure was a joint effort with the Business Office and IT Dept. Working to expand to other vendors.
Facilities Development Dept staff reductions	\$ 224,000		Administrator and secretary General Fund positions were eliminated.
Shared Secretarial Support (covering 3 Depts)	\$ 124,000		Deputy Superintendent, Business Office, & Facilities Dept reduced secretarial positions from 3 to 1 over last two FYs.
District-wide Warehouse Management	Estimate not Available		Maintenance Dept absorbed management of District-wide warehouse operations including secure records storage and surplus inventory with no additional staff. Established Webpage with photos for posting surplus inventory items. Provides efficient storage & retrieval system and cost savings by facilitating District-wide reuse of good condition surplus furniture.
Subtotals:	\$ 5,380,000	\$ 6,734,000	
Grand Total	\$12,1 ⁻	14,000	

Facilities & Maintenance General Fund Budget Overview

Background

The Facilities & Maintenance Departments operate with six Cost Centers in the General Fund. The combined budget totals approximately \$25.4 million and 228 APU. The table below reflects the adopted budget. Excluded from this data are all the construction bond funds. Effective with the 2011-12 fiscal year, Custodial Services became centralized for the entire district. This resulted in \$8.6 million and 147 APU being reassigned from other district cost centers to the newly combined Maintenance & Custodial Services Dept. (part of grand totals above). The attached charts provide some budget trend historical perspectives.

Printing Services is operated as an Enterprise Fund; budget numbers are estimated for this fund based on anticipated revenue and adjusted accordingly throughout the fiscal year.

FY 20 ⁻	11-12 G	eneral Fund Budgets						
	Cost				1	Non-Labor		
Fund	Center	Cost Center Description	La	abor Budget		Budget	Т	otal Budget
100	640	Facilities Planning & Construction	\$	390,078	\$	56,983	\$	447,061
100	641	Maintenance & Operations	\$	3,960,241	\$	2,323,597	\$	6,283,838
100	642	Custodial Services	\$	10,690,382	\$	875,022	\$	11,565,404
100	644	Energy & Environmental Management	\$	176,634	\$	70,834	\$	247,468
100	649	Utilities	\$	-	\$	6,507,779	\$	6,507,779
100	655	Mail Services	\$	60,170	\$	292,278	\$	352,448
		Total General Fund Budget	\$	15,277,505	\$	10,126,493	\$	25,403,998

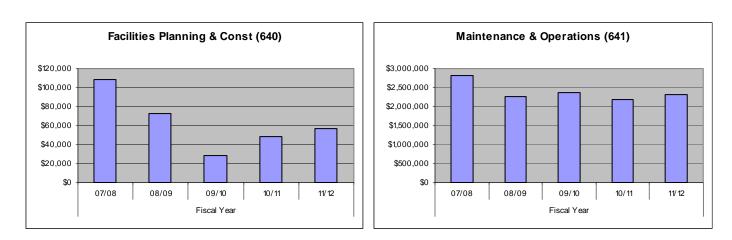
Budget Summary

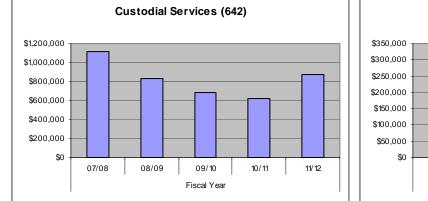
FY 20	11-12 En	terprise Fund Budgets						
	Cost				1	Non-Labor		
Fund	Center	Cost Center Description	Lat	oor Budget		Budget	Тс	tal Budget
614	653	Printing Services	\$	105,576	\$	449,424	\$	555,000
		Total Enterprise Fund Budget	\$	105,576	\$	449,424	\$	555,000

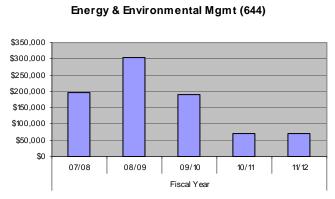
Non-Labor General Fund Budget Trends (Not adjusted for inflation)

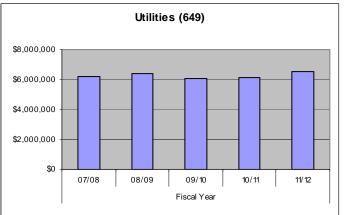
Note:

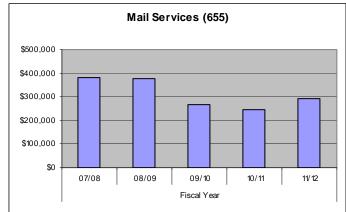
FY 07/08, 08/09, 09/10 & 10/11 data are actual costs FY 11/12 data reflects adopted budget











Facilities Plan and Next Construction Bond

Facilities Plan

The Facilities Department maintains a facilities plan which forecasts facility requirements over a 15-year planning horizon. Provisions of the plan include student enrollment projections, identification of desirable future school sites, descriptions of necessary physical improvements and financial plans to meet the construction and land acquisition needs. In June 2010, the School Board adopted the *Beaverton School District Facilities Plan 2010* and directed staff to prepare for the next BSD construction bond and to implement a series of recommendations in the Plan. Of the 14 recommendations in the Plan, five specific items required District staff effort and budgets for architectural, engineering, and planning support.

Facility Plan Recommendations Requiring Follow-Up Actions:

- Ancillary Facilities (Recommendation #4)
 - Conduct an assessment linking student enrollment growth to future ancillary facilities needs. Complete assessment by 2012.
- Design Workshop (Recommendation #6)
 - Conduct workshop(s) for major projects to be included in the next capital construction bond program. Complete the workshop by 2013.
- Site Capacity (Recommendation #7)
 - Conduct a site-by-site assessment of school campuses to estimate the optimal capacity of each site. Complete by 2012.
- Educational Capital Improvements (Recommendation #8)
 - Based on core facility guidelines, conduct a study to determine what facility needs exist to enhance and equalize educational programs. Complete by 2012.
- Physical Education Improvements (Recommendation #9)
 - To comply with state law, evaluate site-by-site school PE facilities and determine additional needs to meet 2017 deadline. Complete plan by 2013.
- New issue: Full Day Kindergarten (SB248)
 - The passage of SB 248 allows districts to receive state funding for operational costs of full-day programs. An evaluation of elementary schools' classroom space availability is underway.

Facilities Plan and Next Construction Bond

(Continued)

Status & Issues:

- As required by state law, Washington County and the City of Beaverton accepted the District's 2010 Facility Plan and included it in their comprehensive plans.
- A plan of action and milestones was developed to implement Board direction.
- The FY 2011/2012 General fund budget was unable to support funding needs to fully implement the plan of action.

Timeline for the next Construction Bond:

- The key project for the next bond is expected to be a new comprehensive high school.
- Based upon the 2010 Facility Plan analysis, it is projected that a new HS needs to be operational by 2017.
- A Facility Needs Projection timeline is attached that shows the relationship between enrollment growth & capacity requirements, planning / design and construction durations for a new high school, and a notional bond election timeline. In summary, approximate schedule would be:
 - High school programming and planning in 2012
 - High school building design, land use approvals 2013 2014
 - High school construction 2015 2017
- To support this schedule, the bond election should be in May or November 2014.
 - The attached current GO Bonds rate chart indicates additional debt capacity exists in 2015 for a construction bond without increasing the tax rate.

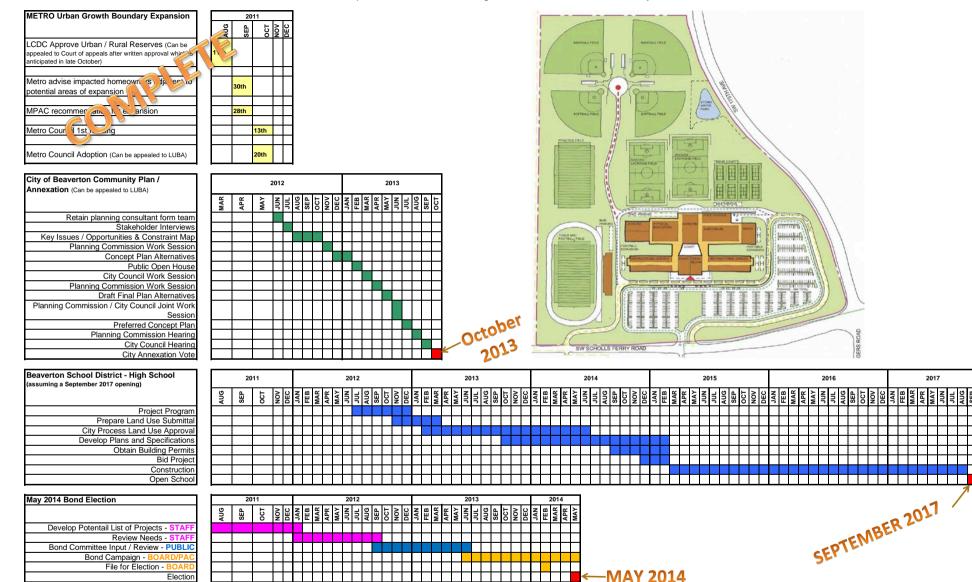
Next Steps:

- Facilities staff will recalibrate what is possible within existing resources and bring forward an alternative work plan for the Facility Plan recommendations.
- District should set a target date for the next construction bond measure.
- Planning funding will need to be identified in FY 2012-13.



March 5, 2012

Conceptual Schedule for New High School on the Ward / Cemetery Site

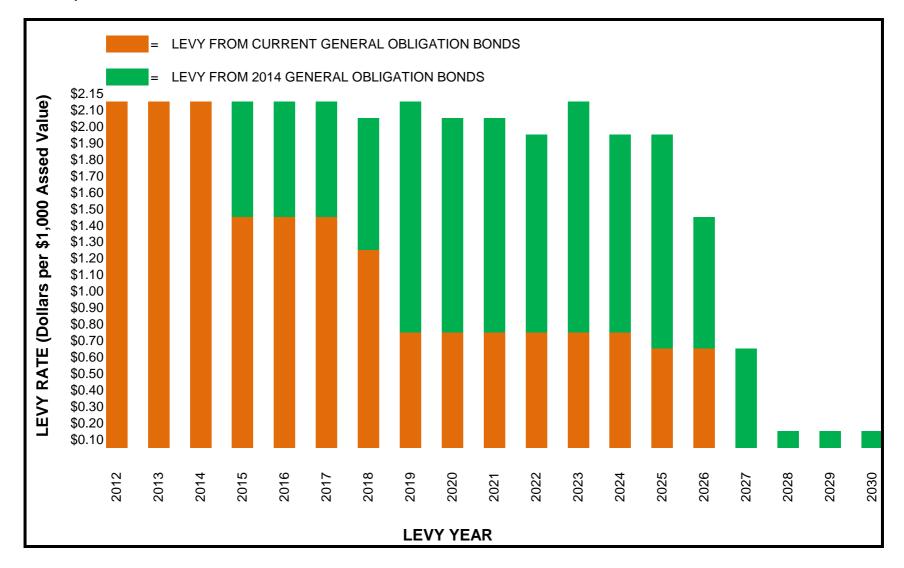


2017



General Obligation Bonds

February 27, 2012



Forecasted Major Maintenance Requirements Through 2025

Background

Major maintenance work requirements have been forecasted to 2025, but are not currently funded in annual budgets or Bond programs. This work is tracked in the Megamation "Building Condition Assessment" (BCA) module. BCA reports indicate recommended timelines and costs based on estimated deterioration rates, out-year inflationary factors, and soft cost estimates (planning, design, permitting, etc.). The total forecasted requirement is about \$95 million.

Issues, Current Actions and Status

- Funding limitations directly impact our ability to control increased deferred maintenance.
- Facility assessments are updated on a three year rotation. One third of the sites are visited for re-assessment each year.
- Inflationary factors and RS Means costs (nationally recognized cost estimating guide for construction work) within the Megamation BCA module are adjusted as needed.
- ADA compliance concerns are currently being loaded in Megamation, when completed will be a portion of the deferred maintenance package.
- The deferred maintenance data we are collecting does not include inconsistencies between facilities throughout the District from the perspective of educational space configuration or layout. Many buildings are different, especially those with older designs.
- The 2012 Facility Plan addresses the maintenance requirements and recommends funding this work in three, five-year phases between 2012 and 2025 (see attachment A and the 2012 Facility Plan, Recommendation #3).
 - Phase I, by 2015: \$36 million
 - Phase II by 2020: \$44 million
 - Phase III by 2025: \$15 million

Next Steps

The BCA \$36 million Phase I requirements should be addressed in the next construction bond.

Attachment A – Results of Condition Assessments

Table A-1 Summary of Deficiencies by Building Element

Annua	I Rate of Inflation:	2.10%			
Soft Co	ost:	35.00%			
Contin	gency:	10.00%			
	5				
	Project Funding Bu	dget D	Details		
		T	Year 2015	Year 2020	Year 2025
			Requirements	Requirements	Requirements
B10	(SUPERSTRUCTURE)		0	0	0
B20	(EXTERIOR CLOSURE)		2,759,112	4,634,761	8,016,642
B30	(ROOFING)		6,851,837	2,601,959	1,812,425
C10	(HALLWAY)		329,675	1,502,262	653,979
C11	(CAFETERIA)		74,939	244,070	194,108
C12	(KITCHEN)		187,993	434,508	111,071
C13	(OFFICES)		16,872	277,683	12,077
C14	(STUDENT RESTROOMS)		883,378	5,596,095	38,180
C15	(STAFF RESTROOMS)		66,720	630,487	1,207
C16	(LOCKER ROOMS)		12,477	64,090	1,016
C20	(STAIRS)		12,861	15,755	382
C21	(INTERIOR STORAGE SPACE)		7,785	9,073	0
D10	(CLASSROOMS)		1,386,833	2,777,996	918,938
D11	(LIBRARY)		1,409	93.440	68,852
D12	(MUSIC/BAND ROOMS)		68,624	115,809	3,052
D13	(ART/WORK SHOPS)		112,393	45,844	83,195
D14	(AUDITORIUMS)		0	479,020	2,353
D15	(AUXILLARY GYM)		73,644	222,791	158,377
D16	(MAIN GYM)		172,776	796,602	278,540
D17	(STAGE)		80,541		42,719
D18	(WEIGHT ROOM)		00,541	149,635	
E10	(CONVEYING)			1,625	2,861
E10			0	152,205	C
	(PLUMBING)		1,953,570	1,670,404	070.447
E30	(HVAC)		9,276,425	10,646,026	279,147
E40			293,391	900,835	49,888
E50	(ELECTRICAL SERVICES)		4,419,368	5,901,957	1,444,234
E60	(GENERATORS)		0	119,457	C
F10			0	346	C
F11	(ARTIFICIAL PLAYING FIELDS)		5,956,601	0	C
F12	(BASEBALL FIELD)		0	1,488,562	167,345
F13	(SOFTBALL FIELD)		0	1,085	C
F14	(TRACK)		0	0	318,927
F15	(TENNIS COURTS)		0	93,511	C
F20	(LANDSCAPING)		15,295	673,617	46,048
F30	(PARKING LOTS)		1,008,991	1,029,454	52,861
F31	(SIDEWALKS)		276,242	225,269	0
F40	(PLAY AREAS)		17,478	115,383	0
F41	(COVERED PLAY)		105,131	157,270	53,461
G10	(EXTERIOR RESTROOMS)		0	3,967	0
G20	(EXTERIOR SNACK BARS)		0	2,757	0
G40	(PRESS BOXES)		0	0	0
	Totals	5	36,422,362	43,875,610	14,811,885

District Warehouse Operations

Background

In 2011, the District outgrew its loosely organized storage system and needed a new, structured warehousing system for surplus furniture, AV equipment, and records storage. A robust inventory tracking system to manage goods and to inform staff of surplus availability was also needed. Tracking of records had been done manually and disposal dates were not being adequately monitored. Warehouse space was incorporated into the Transportation Support Center (TSC) renovation project which provided an opportunity to reorganize this service. By restructuring existing staffing and utilizing the warehouse space at TSC, the Maintenance Department took over the district-wide responsibility for warehouse operations and surplus material management in 2011.

Current Operations and Capabilities

- Inventory management system is being utilized within the Megamation work order software program
 - Quantity and location of surplus goods is being tracked
 - Surplus goods are requested by staff through the work order system
 - Surplus goods from schools are collected and placed in inventory
- Surplus goods can be viewed using the District intranet website
 - Viewing is available from a "First Class" desktop icon
- Warehouse racking systems were installed to make best use of vertical storage space
- All confidential records are stored in a separate secure area
 - o Records are also managed utilizing Megamation
 - All record destroy dates are tracked at regular intervals
- The District Mailroom has been relocated to the TSC warehouse space:
 - Warehouse and mail room duties were combined under a single staff person
 - Mail couriers are routed from the warehouse location

Progress

The following procedures are used to meet the expanding needs of the District:

- Maintain accurate inventory
- Quickly incorporate donated goods into District inventory for re-distribution
- Continue to efficiently circulate goods between the warehouse and our sites
- Provide immediate updates on availability of new inventory from schools
- Ongoing review and disposal of records based on Oregon State archive rules and needs of departments

Integrated Pest Management (IPM)

Background

In 2009, the Oregon Legislature passed Senate Bill 637, designed to improve pest control in schools, and requiring all school districts in Oregon to implement an Integrated Pest Management (IPM) plan by July 1, 2012. IPM is a process for achieving long-term, environmentally sound pest suppression through a variety of tactics, including structural and procedural improvements to reduce the food, water, shelter and access used by pests. IPM focuses on remediation of the fundamental reasons <u>why</u> pests are found on school sites, which results in the District rarely needing to use pesticides for control.

Structural and landscape pests can pose significant problems in schools. Mice and cockroaches can trigger asthma, rodents can be vectors of disease, and many children are allergic to yellow jacket stings. The pesticides used in the past to remediate these and other pests can also pose health risks to people, especially children, animals and the environment. Health and safety of students and staff is the District's first priority – and a prerequisite to learning – so it is the policy of the District to approach pest management with the least possible risk to students and staff.

IPM Basics

The Integrated Pest Management model is built on four practices that all lead to the remediation of pests in District buildings and on property. Following these practices will lead to a reduction in pesticide usage on District sites:

- 1. <u>Education and Communication</u>: The foundation for an effective IPM program is education and communication. We need to know what conditions can cause pest problems, why and how to monitor for pests, proper identification, pest behavior and biology before we can begin to manage pests effectively. Communication from schools to the IPM Coordinator about pest issues is essential. A protocol for reporting pests or pest conducive conditions and a record of what action was taken is the most important part of an effective IPM program.
- 2. <u>Cultural and Sanitation</u>: Knowing how human behavior encourages pests helps prevent them from becoming a problem. Small changes in cultural or sanitation practices can have significant effects on reducing pest populations. Cleaning under kitchen serving counters, reducing clutter in classrooms, putting dumpsters farther from kitchen doors/loading docks are some examples of cultural and sanitation practices that can be employed to reduce pests.
- 3. <u>Physical and Mechanical</u>: Rodent traps, sticky monitoring traps for insects, door sweeps on external doors, sealing holes around buildings, proper drainage and mulching of landscapes, and keeping vegetation at least 24 inches from buildings are examples of physical and mechanical control.

4. <u>Pesticides</u>: IPM focuses on remediation of the fundamental reasons why pest problems arise. However, some situations will require the use of pesticides to eliminate pest problems. The use of pesticides will only be used when all other methods of remediation have failed.

Current Operations and Capabilities

- Maintenance is currently monitoring the use of pesticides with a focus on interior spaces.
- A baseline was established by reviewing historical data on pesticide use.
- Self-developed interim goal was a 50% reduction of pesticide use inside District buildings.
 - Chemical usage is tracked and reported to the District Sustainability Committee
 - Maintenance has an adequate inventory of traps that are immediately available for use when rodents are reported.

Next Steps

The following steps are currently under development to comply with Senate Bill 637:

- Beaverton School District is working with representatives from Oregon State University to further develop an IPM program to be presented to the School Board for adoption in June 2012.
- OSU has included the Beaverton School District as part of a grant funded IPM pilot program. The schools participating in the IPM pilot program are William Walker Elementary and Aloha High.

Custodial & Maintenance Services Restructure

Background

Custodial Services has been a site-based program for many years in the District. In order to achieve more efficiency at less cost, the Maintenance Services Department and building custodians merged to form one service group in the 2011-12 budget. The restructured service model is expected to save \$1.4 million/year in General Fund costs when fully implemented.

Implementation Status

The following processes have been implemented:

- Centralization of custodial supervision under Maintenance Dept. leadership
- Restructured staffing model includes:
 - o 75 positions reclassified to Custodian I; 50 at 185-day contracts
 - Fewer Foreman, Custodian IV and III level positions
 - Every school retains one Foreman position
 - All staffing changes being implemented by attrition; no permanent employees lost their jobs or were impacted financially
 - Key cleaning equipment investments to improve efficiency
- Realignment of custodial duties to common standards
 - Standardized cleaning processes
 - o Development of standardized cleaning routes & task durations
 - More uniform shift scheduling
 - Standardized job performance expectations
- Increased flexibility in covering custodial absences
- Enhanced employee training program
 - Covering all maintenance and custodial staff
 - Next training session scheduled for June 18
- Centralized all maintenance and grounds work
 - Utilize current high school maintenance and grounds custodians
 - Equipment sharing among all buildings

Continuous Process Improvement

- Independent consultation conducted staff survey and individual interviews
 - Recommendations included establishing process improvement Work Group of 10 staff: Principals, Custodians, the OSEA President, and Central Staff
 - The Work Group met 5 times and concluded its work in February. A final report being drafted which will contain a list of agreements and understandings.

Annual Enrollment Projections

Background

The District Demographer develops annual enrollment projections for grades 1-12 using three types of information: cohort survival history, current and projected housing development, and overall economic picture. Cohort survival is a commonly used demographic technique that looks at the number of students in a given grade or series of grades (called a "cohort"), and determines how many of those students will move up to the next grade or school level. Cohort survival in a given area is affected by in- and out-migration of families in response to economic climate, the type of housing available (i.e., single family units vs. multiple family units), and general mobility of the population. Because there are no previous years' "cohorts" to compare classes with, kindergarten projections are generated using birth rates and BSD historical "capture" rates of eligible births in Washington County.

The Demographer works closely with local cities and counties to monitor residential development that may bring new children into its boundaries. We evaluate the student impact of the residential development proposals with regard to available capacity of schools, current enrollment, and projected student impact of approved, though not yet constructed, dwelling units. The number of students projected from a development is obtained using student generation factors, which are determined by counting the number of students generated by similar previous developments.

FIR GROVE			K-1											
	4											Tatal	Tatal	Cabart
Attending Enrollmen			Cohort									Total	Total	
2010 Boundaries	K	1	%	2		3		4		5		1-4	2-5	%
9/02 Actual	62	85	100.0%	88	100.0%	110	86.6%	90	102.3%	96	91.4%	373	384	94.1%
9/03 Actual	98	79	127.4%	81	95.3%	83	94.3%	104	94.5%	95	105.6%	347	363	97.3%
9/04 Actual	68	111	113.3%	73	92.4%	86	106.2%	79	95.2%	97	93.3%	349	335	96.5%
9/05 Actual	82	78	114.7%	113	101.8%	79	108.2%	96	111.6%	85	107.6%	366	373	106.9%
9/06 Actual	85	86	104.9%	70	89.7%	106	93.8%	79	100.0%	88	91.7%	341	343	93.7%
9/07 Actual	59	98	115.3%	93	108.1%	68	97.1%	107	100.9%	72	91.1%	366	340	99.7%
9/08 Actual	69	72	122.0%	89	90.8%	91	97.8%	72	105.9%	109	101.9%	324	361	98.6%
9/09 Actual	69	76	110.1%	69	95.8%	84	94.4%	83	91.2%	75	104.2%	312	311	96.0%
9/10 Actual	83	79	114.5%	85	111.8%	68	98.6%	94	111.9%	84	101.2%	326	331	106.1%
2011 Proj	78	91	109.6%	79	100.0%	83	97.6%	70	102.9%	95	101.1%	323	327	100.3%
2010	493													
2011 Proj Total	496													
Difference	3													

The following table shows historic cohort survival and projected enrollment for Fir Grove Elementary.

Enrollment projection is seldom easy for any school, but schools with a high rate of mobility in their population present additional challenges. In the Fir Grove example (above), we can see that cohort survival at the school level (grades 1-4 moving up to grades 2-5) since 2006 has varied between 93.7% and 106.1%, with large jumps and drops in overall survival from one year to the next. Grade level cohort survival is similar. This makes it difficult to determine a most likely projected cohort survival for the upcoming year. Other factors, such as projected development in the area can help: a large amount of projected cohort survival, rather than lower.

Issues, Current Actions & Status

• Preliminary enrollment projections for September 2012 were issued November, 2011. Enrollment and school capacity reports are provided to the School Board monthly.

Boundary Changes

Background

Facilities Department staff review school enrollments and percentages of occupied capacity on an ongoing basis. Staff present data for approved and anticipated developments within schools' attendance areas, the students projected to be generated from those residential developments, and the resultant projected school enrollments, as well as school capacity. The Superintendent considers proposing boundary changes based on recommendations from staff, based on the guidance of School Board Policy JC: "If student enrollment at one or more schools is outside the guideline range established by the District, the Superintendent shall determine whether the attendance boundaries of such school(s) should be adjusted."

The Deputy Superintendent's office identifies the issues surrounding the need for boundary changes and develops Boundary Change Objectives (with rationale and supporting data) for the Superintendent. The Superintendent proposes these objectives to the School Board for its approval of the initiation of the boundary change process.

If the boundary changes involve more than two schools, per Board Policy JC an Attendance Boundary Committee must be convened. The Committee, headed by the Deputy Superintendent, includes District staff, Regional Administrators, school principals from involved and non-involved schools, Local School Committee members from involved and non-involved schools. A neutral meeting facilitator shall be selected. District staff present information to the Committee about the attendance areas and schools involved, and the Committee uses this information and Board Policy JC criteria to craft its boundary change recommendation to the Superintendent.

The Superintendent reviews the Committee recommendation, and presents his/her boundary change recommendation to the School Board, which approves or denies the recommendations based on adherence to the Policy JC.

Issues, Current Actions & Status

• Boundary changes for Beaver Acres and Kinnaman Elementary Schools, Five Oaks and Mountain View Middle Schools were approved by the School Board in December, 2011, and will be implemented in September, 2012.

Attachment: History of Boundary Changes Since 1980

BEAVERTON SCHOOL DISTRICT Boundary Adjustments Since 1980

	Areas/Schools	
School Year	Involved	Notes
1980/81	Southwest Elementary Schools	Opening of Errol Hassell Elementary
	North/Central	
1980/81	Elementary Schools	Closure of Sunset Valley
1981/82	Northwest Elementary Schools	Opening of Elmonica Elementary School
	Southeast Elementary	
1982/83	Schools	Closure of Garden Home Elementary
	Northeast & Central	
	District Elementary	
1983/84	Schools	Closure of Cedar Hills and Merle Davies
	Mountain View &	
1984/85	Meadow Park	Boundary changes to balance enrollments
	Aloha High & Sunset	
1984/85	High	Boundary changes to balance enrollments
	McKay, Montclair,	
1985/86	Raleigh Hills	Boundary changes to balance enrollments
	Southwest Elementary	
1988/89	Schools	Boundary changes to balance enrollments
	Cooper Mountain,	
1989/90	Hiteon, McKay	Opening of Sexton Mountain Elementary
	Lishland Dark 8	Children net required to change achaele laceming 7th
1990/91	Highland Park & Whitford	Children not required to change schools. Incoming 7th graders transitioned each year.
1991/92	Terra Linda attendance area transitions from Meadow Park to Cedar Park	Children not required to change schools; incoming 7th graders transitioned each year
1986 thru 1991/92	Selected new subdivisions transferred from Oak Hills to Bethany and Rock Creek	New subdivisions; no residents at time of the boundary change
1992/93	Cooper Mountain, Hiteon, McKay, Sexton Mountain Elementary Schools	Opening of Nancy Ryles Elementary
		Opening of Conestoga Middle School and Westview High
1994/95	Entire District, all levels	School; reconfiguration of grade levels
		Children not required to change schools. Transitioned an
1995/96	Bethany & McKinley	area from Bethany to McKinley
1995/96	Nancy Ryles & Greenway	Selected new subdivisions temporarily assigned from Nancy Ryles to Greenway
1995/96	Oak Hills & Bethany	Selected new subdivisions temporarily reassigned from Oak Hills to Bethany

BEAVERTON SCHOOL DISTRICT Boundary Adjustments Since 1980

School Year	Areas/Schools Involved	Notes
1996/97	Oak Hills, Bethany & Rock Creek	Selected new subdivisions from Oak Hills to Bethany & Rock Creek
1997/98	Elementary Schools North of Sunset Highway	Opening of Findley Elementary School
1998-1999	District-wide	Opening of Scholls Heights Elementary, Stoller Middle, and Southridge High School
2000-2001	Findley	Enrollment was capped at 805 for Grades 1-5. Kindergarten students were housed at Findley Annex (future Jacob Wismer campus). New students were reassigned to Cedar Mill and Terra Linda (if they lived on west side of the north/south powerlines, they went to Terra Linda; if they lived east of the powerlines, they went to Cedar Mill).
2001-2002	Findley, Bethany	Opening of Jacob Wismer Elementary
2002-2003	Aloha Park & Chehalem Sexton Mountain, Nancy	Boundary changes to balance enrollmentsarea south of Farmington Road moved to Chehalem Boundary changes to balance enrollmentsarea south of
2002-2003 2004-2005	Ryles Scholls Heights, Nancy Ryles	Weir Road moved to Nancy Ryles New subdivision; no residents at time of the boundary change. Moved Progress Ridge from Scholls Heights to Nancy Ryles
2005-2006	Findley, Oak Hills	Claremont and area north to NW Laidlaw from Findley to Oak Hills and west of NW Bethany Boulevard.
2005-2006	Findley, Cedar Mill	The area south of NW Thompson Road and east of NW South Road.
2005-2006	Hazeldale, Kinnaman	Includes the area north of SW Farmington Road and east of SW 198th Avenue
2005-2006	McKinley, Elmonica	The area of new development immediately east of NW 185th Avenue and north of the northern attendance boundary at that time
2005-2006	Scholls Heights, Nancy Ryles	The area north of the Progress Ridge development, west of the power lines, south of SW Scholls Ferry Road, and east of the intersection of SW 155th Terrace and SW Scholls Ferry Road.
2005-2006	Meadow Park, Cedar Park	North of SW Butner Road/Commonwealth Lake Park and west of Johnson Creek
2005-2006	Stoller, Meadow Park	Claremont development and the area north to NW Laidlaw Road and west of NW Bethany Boulevard.

BEAVERTON SCHOOL DISTRICT Boundary Adjustments Since 1980

School Year	Areas/Schools Involved	Notes
	Elementary Schools North of Sunset Highway - Cedar Mill, West TV,	Opening of Bonny Slope Elementary School - sections of
	Findley, Oak Hills, Terra Linda. Meadow Park, Cedar Park, Sunset, and	Cedar Mill, West TV, Findley, and Terra Linda moved to Bonny Slope. Section of Oak Hills moved to Terra Linda. Small section of Meadow Park moved to Cedar Park,
2008-2009	Westview.	small section of Westview moved to Sunset.
	Elementary Schools	Opening of Springville K-8 School - sections of Jacob Wismer, Rock Creek, Oak Hills, and Bethany moved to
	North of Sunset Highway	Springville K-8. Sections of Findley moved to Jacob
	- Findley, Oak Hills,	Wismer. Sections of Bethany moved to Rock Creek. A
	Jacob Wismer, Rock	section of Rock Creek moved to Bethany. Section of
	Creek, Bethany.	Meadow Park moved to Stoller, section of Stoller moved
2009-2010	Meadow Park, Stoller.	to Meadow Park.
	Hiteon, Nancy Ryles,	Section of Sexton Mountain east of SW Murray moved to Hiteon, eastern end of Nancy Ryles moved to Hiteon.
	Scholls Heights, Sexton	Eastern section of Scholls Heights moved to Nancy
2010 - 2011	Mountain	Ryles.
		North central/east section of Hazeldale moved to
2010 - 2011	Kinnaman, Hazeldale	Kinnaman.
		New subdivision on boundary line, shifted boundary line
		to put development entirely within Chehalem: no students
2010 - 2011	Chehalem, Errol Hassell	at time of change.
	Beaver Acres, Kinneman, Five Oake	Southwoot postion of Doover Aprox/Five Octomoved to
2012-2013	Kinnaman, Five Oaks, Mountain View	Southwest section of Beaver Acres/Five Oaks moved to Kinnaman/Mountain View

Energy Conservation Program-Overview

Background

Beginning with the 2008/09 school year, the District renewed its Energy Conservation Program. Among the strategies employed were the establishment of annual electricity and natural gas conservation targets for each school and support building based on Oregon Department of Energy guidelines for schools. A scorecard reporting system was developed to provide monthly performance feedback on each building's energy consumption along with important information pertaining to "recognition and commitment": listing a school's participation in the District Energy Pledge, their status as an Oregon Green School and also as an EnergyStarSchool. This scorecard is provided monthly to each principal, head secretary, custodian, to the Superintendent's Council, and is also posted in the lobby of the Central Office and on the web at:

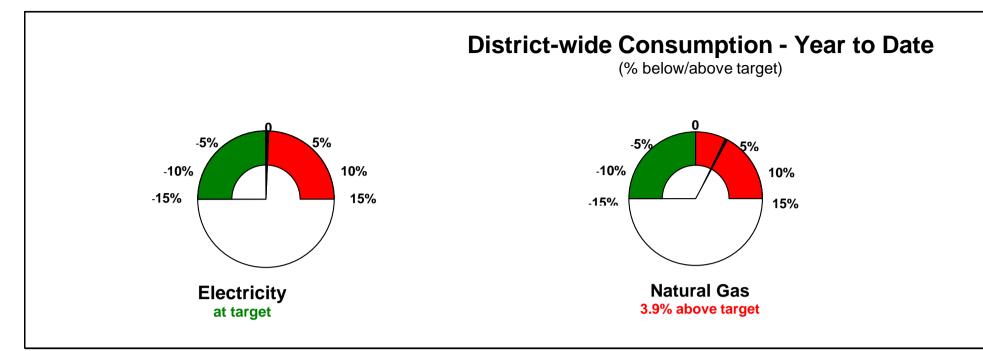
http://www.beaverton.k12.or.us/home/departments/facilities/energy-and-resource-conservation/energyconservation/(The December 2011 Scorecard is attached to this document.)

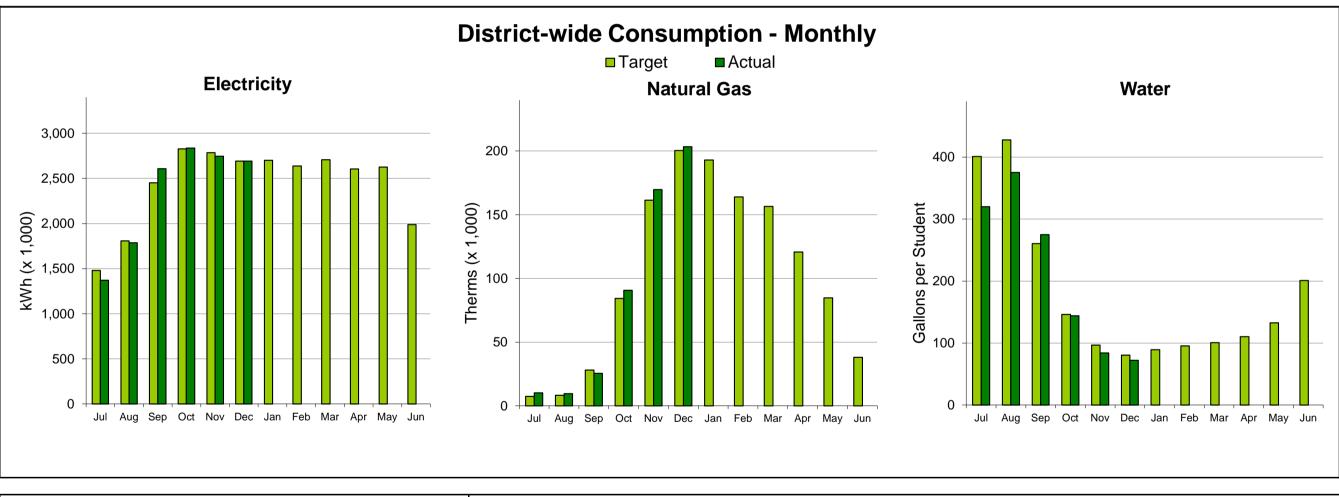
A presentation containing an overview of the District's program is at: http://www.beaverton.k12.or.us/pdf/facil/facil_BSD%20Lane%2010-18-11_final.pdf

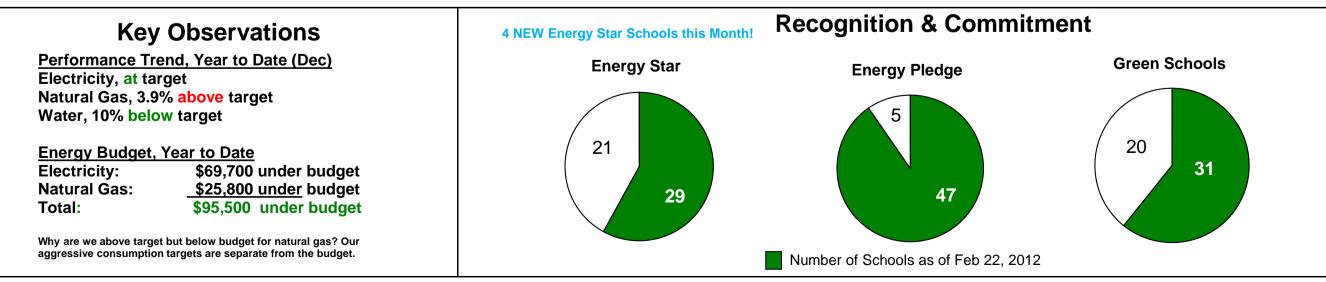
Issues, Current Actions & Status

- With energy costs at roughly \$4.5M/year, energy consumption is a significant budget expense for the District. Improved conservation practices over the past three years have saved the District more than\$1M. The conservation performance is due to:
 - o Behavior modification by students and staff in schools and buildings through District Energy Pledge, strongly supported by administration.
 - o Substantial tightening of building operation schedules made possible by advances in remote building control from HVAC central office and new automated method of building scheduling requests.
 - o Robust participation in SB1149 program resulting in energy efficiency upgrades funded 100% by public purpose charge (see SB1149 paper).
 - o HVAC system tune-ups by Maintenance Department staff.
 - o Change in IT Dept practice to <u>not</u> auto-start school computers in the AM.
 - o Energy efficiency implementations as part of the 2006 Bond (2006-2010).
 - o Energy efficiency projects funded by stimulus grant awards (~\$500,000).
- The District has become a recognized leader both locally and at the federal level:
 - o Various Energy Star awards (see Energy Star Program paper).
 - o Presented the 2010 PGE Energy Leader Award alongside Nike for "demonstrating wise use of energy...so that others may follow."
 - o Program Manager named Energy Manager of the Year 2011 by the Association of Energy Engineers for Region 5 (9 western states).
- Facilities Energy & Resource Conservation Department will continue all activities as outlined above, renewing goals each year.
- Construction projects completed from 2008-2010 have added 12% to BSD's inventory of building space, yet total District electricity consumption has decreased 10%, and natural gas usage is down 9%.

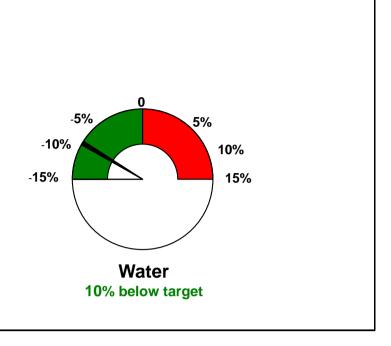










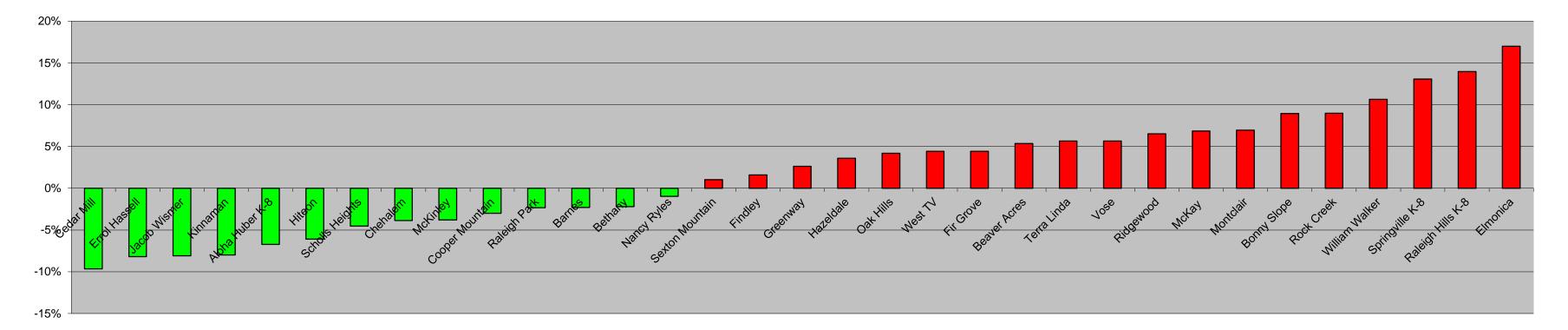




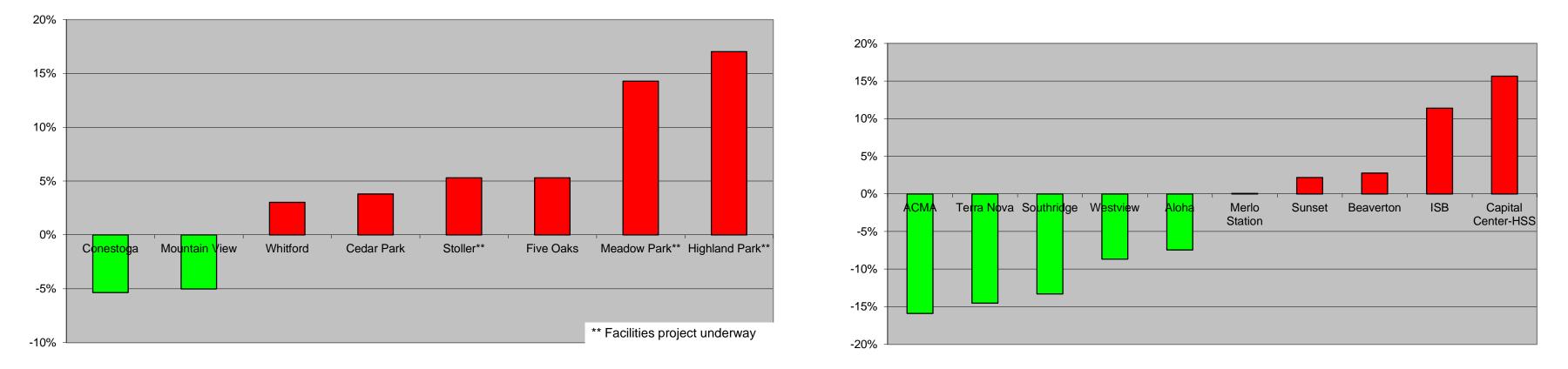
Are You Using Less Electricity?

In the green...YES! In the red...No.

2011-12 December Elementary Schools



Middle Schools



This data represents the precentage that each school was above or below their electricity consumption target for the month.



High/Options Schools



Recognition and Commitment



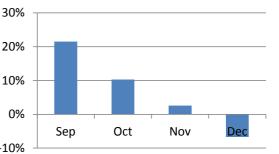
	energy ENERGY STAR	Lights OUT! ObserveCan you turn off the lights? If so U turn them off if you're leaving for more than 5 minutes. If not Tell us where lights are on when they shouldn't be. (x4492)		
	Energy Star School	Energy Pledge Participant	Oregon Green School	
Elementary Schools				
Aloha Huber Park	✓	✓		
Barnes	√			
Beaver Acres		\checkmark		
Bethany	√	✓	✓	
Bonny Slope	✓ ✓	✓	✓	
Cedar Mill	\checkmark	✓		
Chehalem	✓ NEW!	✓		
Cooper Mountain		✓		
Elmonica	✓	✓ ✓		
Errol Hassell	✓	√		
Findley Fir Grove	✓	✓ ✓	\checkmark	
Fir Grove Greenway	✓	✓ ✓	✓ ✓	
Hazeldale	✓ ✓	✓ ✓	v	
Hiteon	•	✓ ✓	\checkmark	
Jacob Wismer		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Kinnaman	√	✓	\checkmark	
МсКау		\checkmark		
McKinley		\checkmark	\checkmark	
Montclair	\checkmark	\checkmark		
Nancy Ryles	\checkmark	\checkmark	\checkmark	
Oak Hills	√	✓	✓	
Raleigh Hills		✓		
Raleigh Park		\checkmark	✓ ✓	
Ridgewood			✓ ✓	
Rock Creek	✓ NEW! ✓	✓ ✓	✓	
Scholls Heights Sexton Mountain	↓ ↓	✓ ✓	\checkmark	30%
Springville	•	· · · · · · · · · · · · · · · · · · ·	•	30%
Terra Linda	✓	✓	\checkmark	20%
Vose	√	\checkmark	✓	20/0
West TV	\checkmark	\checkmark		10%
William Walker	\checkmark			10/0
Middle Schools				0%
Cedar Park	\checkmark	\checkmark	\checkmark	s
Conestoga		\checkmark	\checkmark	-10%
Five Oaks		✓		
Highland Park		√	✓	
Meadow Park		√	✓	
Mountain View		✓ 		C
Stoller Whitford	✓	✓ ✓	✓ ✓	
Whitford		×	v	
High & Options Schools ACMA		\checkmark	✓	
ACMA Aloha	✓	\checkmark	v	
Beaverton	· ·	ř.	✓	
Deer Park Academy	not eligible	✓	not eligible	
HS2	not eligible	· · · · · · · · · · · · · · · · · · ·		
ISB		· · · · · · · · · · · · · · · · · · ·	√	
Merlo Station	1	\checkmark	\checkmark	
Southridge	✓ NEW!	\checkmark	\checkmark	
Sunset			\checkmark	
Terra Nova		\checkmark	\checkmark	
Westview	✓ NEW!	\checkmark	\checkmark	

February 2012 TOP Pledge Participant

Aloha Huber Park



AJ Davis and the entire staff of Aloha Huber Park are really seeing results! In September they were using 22% "too much" electricity. They began to make changes and have dropped an average of **10% each month.** Now they are 7% under their target. That's an improvement of 30%!



CONGRATULATIONS AHP!

Let us know how you're putting the pledge into action and be featured here as our next month's TOP Pledge Participant!

For information on how you can participate, contact the Energy & Resource Conservation Department sheri_stanley@beaverton.k12.or.us 503-591-4492 OR sue_shade@beaverton.k12.or.us. 503-591-4333

EnergyStar Program

Background

For more than a decade, ENERGY STAR, the joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy, has worked with businesses and organizations to save money and protect the environment through strategic energy management practices. To qualify for the ENERGY STAR, a building must score in the top 25 percent based on EPA's National Energy Performance Rating System. An ENERGY STAR qualified facility meets strict energy performance standards set by EPA and uses less energy, is less expensive to operate, and causes fewer greenhouse gas emissions than its peers.

Issues, Current Actions & Status

- In 2008, the District began benchmarking its facilities with EPA's online tools.
- In 2009, the BSD became an EPA ENERGY STAR Partner committing to continuous improvement of our energy performance. Our letter of commitment is attached.
- In 2009/10 the District began aggressively pursuing ENERGY STAR certifications for our qualifying school buildings. To date, 29 BSD schools have been qualified by EPA as ENERGY STAR schools, *leading thestate of Oregon* with the most ENERGY STAR schools of any school district. BSD's ENERY STAR schools are depicted at:<u>http://www.energystar.gov/index.cfm?fuseaction=labeled_buildings.showMap&ALSO_SEARCH_ID=NONE&BUILDING_TYPE_ID=910&7IP=&S_CODE=ALL&STARTNUM=1&CITY=&OWNER_ID=Beauertop%20School%20District&STR=&M
 </u>

TYPE_ID=910&ZIP=&S_CODE=ALL&STARTNUM=1&CITY=&OWNER_ID=Beaverton%20School%20District&STR=&M INI=&VIEW=&YEAR=&PROFILES=0&FILTER_B_ID=&PAGE=1

- In 2010/11 the District was named ENERGY STAR Top Performer in 2010 in two categories: reducing total energy consumption by more than 10%, and earning an average ENERGY STAR score of 89 out of 100 (i.e., BSD's energy performance is among the top 11% of all school districts in the country). This link provides more details: http://www.energystar.gov/index.cfm?fuseaction=partner_list.showLeadersStory&lds_id=2725&o_id=1089529
- ENERGY STAR certifications provide very deserving recognition for our schools, the District maintenance crews, and our energy conservation staff, but more importantly, they inspire our 43,000 students and staff to continually improve upon already excellent performance. ENERGY STAR partnership and certifications assure our community that BSD is wisely using its resources and maximizing funds for education.

Next Steps

• Some opportunities exist for obtaining ENERGY STAR certifications for additional BSD schools, however, many of those not yet certified may not be good candidates due to limitations of their building design/age.



Jerome Colonna

Superintendent of Schools 16550 SW Merlo Road Beaverton, OR 97006 503.591.4401 FAX 503.591.4175 www.beavton.k12.or.us

"One Goal, One Focus"

District Goal for 2004-2009: Increase academic achievement Districtwide with a special emphasis on literacy and mathematics gains for <u>each</u> student. The intent is to give <u>every</u> student the skills to succeed in challenging courses, meet academic standards, graduate from high school and be fully prepared for a range of post-secondary education and vocational options.

July 6, 2009

Ms. Jean Lupinacci Director, ENERGY STAR Commercial & Industrial Branch U.S. Environmental Protection Agency 1200 Pennsylvania Avenue, NW (6202J) Washington, DC 20460

Dear Ms. Lupinacci:

With this letter Beaverton School District joins ENERGY STAR[®] as a Partner, and makes a fundamental commitment to protect the environment through the continuous improvement of our energy performance. We believe that an organization-wide energy management approach will help us enhance our financial health and aid in preserving the environment for future generations. In partnership with ENERGY STAR, we will:

- Measure and track the energy performance of our organization's facilities where possible by using tools such as those offered through ENERGY STAR
- Develop and implement a plan consistent with the ENERGY STAR Energy Management Guidelines to achieve energy savings
- · Help spread the word about the importance of energy efficiency to our staff and community
- Support the ENERGY STAR Challenge, a national call-to-action to help improve the energy efficiency of America's commercial and industrial buildings by 10 percent or more
- Highlight our achievements with recognition offered through ENERGY STAR.

We understand that our commitment to measure, track, and improve the energy performance of our organization is supported by the resources and tools offered through ENERGY STAR. In addition, we understand that we will be recognized on the ENERGY STAR web site as a Partner and as a supporter of the ENERGY STAR Challenge. To be eligible for additional recognition, we will share with EPA our progress and milestone achievements. As a Partner, we agree to follow all applicable terms and conditions governing the use of the ENERGY STAR logos, which are registered trade and service marks.

Beaverton School District looks forward to our partnership with ENERGY STAR.

Sincerely,

J. Colon

Jerome Colonna Superintendent

Encl: Organization Information EPA Form 5900-19

Attachment to Partnership Letter Organization Information

Chief Executive	Energy Manager
Name & Title: Jerome Colonna, Superintendent	Name & Title: Sheri Stanley, Energy & Res Cons PM
Mailing Address: 16550 SW Merlo Road	Mailing Address: 2180 SW 170th Avenue
Beaverton, OR 97006	Beaverton, OR 97006
E-mail Address: jerome_colonna@beaverton.k12.or.us	E-mail Address: sheri_stanley@beaverton.k12.or.us

Facsimile:

Phone Number: 503-591-4492

503-591-4469

Communications Contact

Phone Number: 503-591-4401

Facsimile:

Name & Title: Sheri Stanley, Energy & Res Cons Program Manager Mailing Address: 2180 SW 170th Avenue Beaverton, OR 97006

E-mail Address:	sheri_stanley@beaverton.k12.or.us
Phone Number:	503-591-4492
Facsimile:	503-591-4469

503-591-4175

Organization's Primary Business or Function (check one):

Organizatio	n's Primary Business or Function (check one):
	Commercial Real Estate
	Corporate Real Estate
	Multifamily Housing, include:
	Number of units owned/managed
х	K-12 Education
	Higher Education
	State Government
	Local Government
	Federal Government
	Healthcare & Senior Care Facilities
	Hospitality & Entertainment
	Manufacturing/Industrial, include:
	NAICS code
	Number of Manufacturing Plants Operated in the United States
	Number of Employees in the United States
	Religious (Congregations)
	Retail
	Drinking Water Treatment and Distribution, include:
	Total Capacity (mgd)
	Wastewater Treatment, include:
	Total Capacity (mgd)
	Other. Describe:
Organizatio	n's total building/facility square footage (required):
Ow	ns <u>5.1 million sq ft</u>
Lea	ses <u>0</u>
Ma	nages0

How did you learn about ENERGY STAR?

colleague

The government estimates the average time needed to fill out this form is 30 minutes and welcomes suggestions for reducing this level of effort. Send comments (referencing OMB control number) to the Director, Collection Strategies Division, U.S., EPA (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460.

EPA Form 5900-19

Solar Photovoltaic Initiative

Background

In addition to aggressive energy management, the BSD Sustainability Plan includes procurement of renewable energy when financially feasible. BSD has secured 15 years of free solar electricity at three BSD schools at no cost to the District. Additionally, BSD has secured grants totaling more than \$50,000 in curriculum, teacher training, and Internet monitoring of the solar systems for maximum educational benefit of these projects.

The Oregon Legislature directed the establishment of a pilot Feed-in Tariff program effective July 1, 2010. The FIT provides a new alternative for financing installation of PV solar energy systems that appears more attractive for public sector organizations than the alternatives which existed in the past. Gerding Edlen Sustainable Solutions (GESS) is partnering with BSD in this venture. With GESS assistance, BSD obtained FIT allocations for three buildings and secured an investor (Kenyon Energy) who funded all the capital costs (\$1.5M), contracted for the installation work, and will provide system maintenance for 15 years. We have also partnered with Gladstone School District, which has three schools participating, in order for the solar package to be large enough to attract an investor.

More details about the FIT program are contained in a PowerPoint briefing presented at the Oregon Sustainable Schools Conference in January 2011: http://www.beaverton.k12.or.us/pdf/facil/facil_Solar%20for%20Your%20Schools%202-28-11%20web.pdf

Current Actions & Status

- The School Board approved BSD's participation in the FIT program in March 2011
- BSD executed a 15-year agreement with Kenyon Energy in May 2011
- Solar PV systems rated at 100 kW each have been installed on three schools:
 - o Springville K-8
 - o Capital Center
 - o Elmonica Elementary
- Installation was complete in October 2011 and systems are generating free electricity as anticipated.
- Interactive flat-screen monitoring systems are being installed in the lobbies of the three sites and will feature the following displays:

http://www.solar4rschools.org/node/1075 http://www.solar4rschools.org/node/1107 http://www.solar4rschools.org/node/1076

• Teachers are being selected for participation in an all-day training event.

Next Steps

• Host a public "ribbon cutting" event when the monitoring systems are completed and funding partners' schedules align.

Reimbursable Energy Conservation Facilities Projects Senate Bill1149 Program

Background

Effective in 2002, Senate Bill 1149 established a mechanism and funding resource to implement energy conservation facilities projects. As the funding source, SB1149 requires Portland General Electric and PacifiCorp to collect a public-purpose charge from consumers within their service areas equal to three percent of the total revenues from electricity. Ten percent of these public purpose funds must go toward energy efficiency efforts in the public schools. These funds are distributed monthly to school districts in proportion to their Average Daily Membership. The funds are 'banked' by the district and may be used as a reimbursement fund for energy efficiency audits and subsequent implementation of projects completed in accordance with SB1149 Program Guidelines. The program has been extended through 2025.

Issues, Current Actions & Status

- SB1149 Financials
 - o Funds allocated annually to BSD: ~\$600,000 (~\$14 M through 2025)
 - o Reimbursements received to date: \$4.9 million
 - o Pending reimbursements to date: \$1.1million (anticipated by Sept 2012)
 - o Projects planned for summer 2012: \$0.5million
- Development of qualifying projects requires completion of a detailed, building-wide energy audit that documents specific Energy Efficiency Measures (EEMs).
- Identified projects require initial capital outlay by BSD that is then reimbursed. SB1149 reimbursements occur after project completion, normally several months after costs are incurred. BSD established a revolving fund to support up-front costs.
- Project management is often provided by the Facilities Development staff.

Next Steps

- Continue implementation of currently identified measures and strategically utilize available funding.
- Conduct energy audits at additional eligible schools; update old audits.
- Continued participation in SB1149 Program.

District Sustainability Program

Background

Board Policy EDD established sustainability priorities for the District. The implementing Administrative Regulation (EDD-AR) created an Advisory Committee for Sustainability to help guide the District's adoption of practices that balance environmental, social, and fiscal responsibility. Key tasks assigned to the Committee were development of a five-year work plan for the District to implement sustainability practices and annual reporting to the School Board.

Issues, Current Actions & Status

• Scope of the Advisory Committee's work:

Help guide the District's practices in a direction consistent with the Sustainability Policy. The Committee shall serve in an advisory capacity to staff as they establish practices that support the Sustainability Policy, create specific implementation plans that outline objectives in targeted topical areas, and develop and report measures of success related to such plans. Topical areas include the following:

- a) Curriculum
- b) Facilities Design/Construction
- c) Energy Management
- d) Sustainable Procurement
- e) Reduction in the use of Toxic Materials
- f) Indoor Air Ouality
- g) Sustainable Food
- h) Transportation
- i) Waste Prevention and Recycling
- j) Water Management
- May 2010 Board Appearance: The Committee presented preliminary five-year plan: http://www.beaverton.k12.or.us/pdf/facil/facil_Sustainability%202010%20Board%20Appearance.pdf
- June 2011 Board Appearance: The Committee developed a scorecard tracking system, tracked 2010-11 performance on the work plan, noted progress made on all items in the current five-year plan, and reported on plans to update the five-year plan:

http://www.beaverton.k12.or.us/pdf/facil/facil_Sustainability%202011%20Board%20Appearance.pdf

Monthly scorecards are used for tracking progress on the annual work plan. • The January 2012 scorecard is attached.

Next Steps

The Committee is currently providing oversight of the 2011-12 work plan and updating the five-year plan.

Beaverton School District 2011 - 12 Sustainability Performance Scorecard December 2011

Status	W	ork Stream		Goal / Objective / Action Step	Performance Metrics				Reporting Department	Departments' Performance Assessment (Year-to-Date)							
						Measure	June 30, 2011 Status	FY 11-12 Target *		Jul Au	ig Sep		lov De	c Jan	Feb N	2012 Nar Apr	May
			A.1	Transition to electronic bidding process	A.1.1	% of annual formal procurements	25%	75%	Purchasing						-		Г
		Procurement &	A.2	Procure sustainable office & custodial products	A.2.1	% of \$ purchases	32%	40%	Purchasing		T						
	А	Materials Mgmt	A.3	Electronic transactions for POs, billing & payments	A.3.1	Number of vendors participating	0	2	Purchasing								i İ.
			A.4	Printer toner cartriges recycled	A.4.1	Number of schools participating	Unknown at this time	60%	Purchasing								
			B.1	All schools are ENERGY STAR® certified	B.1.1	Number of schools certified	25	28	Facilities							_	
		B Energy & Water Management	B.2	Active participation in SB 1149 program	B.2.1 B.2.2	Schools' EUI within ODOE Range SB 1149 annual work plan	33 NA	36 Approved by Feb	Facilities Facilities		Ē				_		r
			B.3	All schools are Oregon Green Schools	B.3.1 B.3.2	Number of schools certified Number of schools contacted	31 NA	5 New OGS Certifications 5 Schools Per Month	Facilities & Schools Facilities			Ā	Ŧ		_	_	
			B 4	Procure renewable energy	B.4.1		0	3 by Oct	Facilities		╤	Comp	leted i	n Octob)er		
		<u>.</u>	0.4		-	· · · · · · · · · · · · · · · · · · ·	3	6	Risk		╧					—	
			C.1	Reduce toxic chemical use	C.1.1 C.1.2		\$8,866	\$8,422	Risk								+
		Buildings & Grounds	C.2	Upgrade HS hazardous chemical storerooms to mee Risk Mgmt Report recommendations	C.2.1		Recommendations report completed	Upgrades completed, or contracts awarded at 6 HS's	Risk & Maintenance			F	Ŧ		—	—	F T
				Develop Comprehensive Integrated Pest	C.3.1	Approved plan	NA	June	Maintenance		÷						i t
			C.3	Management Program	C.3.2		NA	June	Maintenance								
		Food	D.1	Develop & implement a system to identify and document the total dollar value of products NS purchases that are locally produced, packaged, packed or processed. Use this system to create a baseline for 2012-2013	D.1.1	System is created and implemented for on-going use. Baseline for 2012-2013 is created.	NA	March	Nutrition Services						—		
	D		D.2	Continue 2010-11 Pilot at Barnes & Aloha Huber Park ES to more precisely determine cost offset from reduction of garbage waste	D.2.1	Cost of pilot vs. current practice	NA	<u>≤</u> 1.0	Nutrition Services			-	-		+	+	\dashv
			D.3	Implement use of compartment type permanent ware trays at Elementary Schools. (Note: This goal depends on the outcome of D.2)	D.3.1	permanent ware trays	3	4	Nutrition Services				-		_	_	
			D.4	Increase the number of activities/experiences that connect Health Learning Targets on Nutrition to the meals served in the cafeteria		Number of Nutrition learning experiences that connect the classroom to the cafeteria.	2	5	Nutrition Services		Com	pleted	l in Sep	ptember			
	_	-		Reduce bus idle time	E.1.1	Establish idle time baseline	NA	March	Transportation				<u> </u>	4	_	_	\rightarrow
	F	Transportation		Install particulate filters on all BSD eligible buses	E.2.1	% of filters installed	72%	100%	Transportation		╧╧╡		<u>_</u>				$ \rightarrow$
		Ī		Increase walking & biking to schools	E.3.1		1	5	Safety Office		╇	<u> </u>	<u> </u>	<u>+</u>	<u> </u>	<u> </u>	_
				Utilize solar PV data in student classwork	F.1.1	PV lessons posted on TeacherSource	0	3	Teaching & Learning		╧	╧	<u> </u>	4			\rightarrow
				Implement Sustainability Challenge	F.2.1	Program designed & executed	NA	Successfully Completed	Teaching & Learning		╧		<u>_</u>				$ \rightarrow$
	F	Education	F.3	Schools & Depts post sustainability efforts on web	F.3.1 F.4.1	All relevant items on TeacherSource are	0	One article per month all (past and future)	Teaching & Learning Teaching & Learning						-		
			F.4	ID learning target-focused instructional materials on sustainability	F.4.1	Sustainability-linked lesson for every	10%	50%	Teaching & Learning								\rightarrow
					F.4.3	applicable target indentified in 2011 doc	0	1 grade level band completed	Teaching & Learning		_		_	_		_	
		Status Key) 	On Track to Reach Target Questionable <i>(list issues)</i> Not on Track <i>(list barriers)</i> No Information at this point	-	Abbreviations NG = natural gas therm = energy unit of natural gas kWh = kilowatt-hour of electricity	EUI = energy use index (BTU MMBTU = 1,000,000 BTU [<i>E</i> SB 1149 = reimbursable ene	British Thermal Units] of energy	FY = fiscal year ODOE = Oregon Depai	tment of	Energy	y					
						Overall Work Stream Performar	nce Status Tracking for	or the Year									
Work Stream: A Work Stream: B Procurement Energy & Water				Work Stream: C Buildings & Grounds	Work Stream: D Food		<u>Work Stream: E</u> Transportation				Work Stream: F Education						
		M A M F		B M J A S M O NI		J J A A S M O N	M A F	J A S	J J A A F	A S O)	Ć	A	L L			

Departments' Comments
coming Formal Procurements- Copiers. Planned listing on ORPIN.
Track to meet goal E complete. Grainger, Axian, First Response using electronic invoices.
Track to meet goal
vilcations submitted to EPA for 4 additional schools
ty data avail through Nov. 32 schools within ODOE range, -1 from Sept. nmer 2012 work plan
rtifications = new + renewals + advanced certification level) Still @ 31 Schools 5 meetings in Nov; 6 in Dec
npleted and operating at Springville K-8, Elmonica ES, Capital Center Building
be completed: BHS, WHS, HSS; annual CIH chemical storage survey in Jan. get is 5% below past 5-year moving average
get is to complete minor work; award contracts for summer 2012 work.
track; working with OSU. BSD joined EPA Pesticide Env. Stewardship Prog. ermination of resource requirements will follow completion of Plan (C.3.1)
n to include requirement in new contracts that vendors document which purchases make that are locally sourced.
a need to be re-analyzed. Initial analysis done June, 2011 not in-depth enough.
s indicator is dependent on D.3 moving forward, and reanalysis of data.
t results on qualified buses by 6/1/12 suing grant to fund remaining particulate filter work
chools have been identified for mapping. Five have been started.
ar websites being built by Bonneville Environmental Foundation allenge all set up, but the team had requested "prizes". Need Committee input.
rticles posted in November; 3 articles in December
ore lessons were added in Nov & Dec to TeacherSource that have a sustainability connection
d to make the "links" and inform teachers about the lessons.
General Comments
General Comments
Targets have completion dates of June 30, 2012, unless noted otherwise.
ata for B.2.1 lags by one month due to the utility billing cycle.
BEAVERTON SCHOOL DISTRICT

Oregon Green Schools

Background

The Oregon Green Schools Association (OGS) is a non-profit organization that provides guidance to Oregon schools in their quest for conserving resources. OGS offers a framework for schools to create resource conservation programs unique to their needs, while Regional Coordinators provide technical assistance and recognition of their efforts. Schools may apply for three levels of progressive certification: Entry, Merit, and Premier, each requiring greater commitment and action from the school community. The term of certification is for three years, allowing schools time to accomplish identified goals and gain program strength. BeavertonSchool District encourages schools to participate in the OregonGreenSchool program.

Issues, Current Actions & Status

- Currently, 31 BeavertonSchool District schools are OGS certified.
 - o 20 Entry Level certifications
 - o 10 Merit Level certifications
 - o 1 Premier Level certification
- BSD's Oregon Green Schools are listed at: http://www.beaverton.k12.or.us/pdf/facil/facil_GR%20OGS%20schools%202011.July.pdf
- The District's Resource Conservation Specialist fulfills the role of the OGS Regional Coordinator for BeavertonSchool District schools.
 - o Provides application assistance
 - o Coordinates waste audit activities with schools
- Oregon Green Schools Association maintains a web site, <u>oregongreenschools.org</u>identifying current certified schools and their certification level.Premier Level schools are called out with a picture and thumbnailsketch celebrating their achievement.
- The annual Oregon Green School Summit invites teams of students from OGS certified schools to participate in a day full of opportunities to build skills, share ideas, network, and explore creative hands-on resource conservation learning activities. The location of the Summit changes each year and registration is competitive. Garbage haulers and OGS donations fund the event and provide sponsorships for substitute staff and transportation costs. BSD students have attended the Summit since 2005.

Next Steps

• Continue to promote the participation in the Oregon Green Schools Association certification program and provide assistance to schools in the development of resource conservation programs unique to their needs.