



Board Special Meeting
Work Sessions: Budget, BEX V Implementation;
Executive Session: Current or Potential Litigation
December 4, 2019, 4:30 – 8:15 p.m.
Lincoln High School Library,
4400 Interlake Ave. N, Seattle, WA 98103

Agenda

<u>Call to Order</u>	4:30pm
<u>Work Session: Budget</u>	4:30pm
<u>Work Session: BEX V Implementation</u>	6:00pm
<u>Break</u>	7:30pm
<u>Executive Session:</u> To discuss with legal counsel representing the agency litigation or potential litigation to which the agency, the governing body, or a member acting in an official capacity is, or is likely to become, a party, when public knowledge regarding the discussion is likely to result in an adverse legal or financial consequence to the agency	7:45pm
<u>Adjourn</u>	8:15pm*

*Special meetings of the Board, including work sessions and retreats, may contain discussion and/or action related to the items listed on the agenda. *Times given are estimated.*



Budget Work Session

December 4, 2019

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For questions and more information about this document, please contact the following:

JoLynn Berge
Chief Financial Officer
BudgetOffice@seattleschools.org

Review district trends, 2020-21 projections and budget timelines.



Seattle Public Schools

Budget Work Session

www.seattleschools.org | December 4, 2019



Agenda

1. District Trends
2. 2020-21 Projections
3. Budget Timeline
4. Initial Thoughts on 2020-21 Budget

Outcomes

1. Information provided on District trends
2. Information provided regarding 2020-21 projections and on a timeline
3. Direction on 2020-21 budget

General Fund Resources

Dollars in Millions	2017-18 Actual	2018-19 Adopted	2019-20 Recommended	Change 2018-19 vs 2019-20	2019-20 Percent of Total Change
State	\$501.5	\$646.8	\$671.3	\$24.4	55.5%
Local Levy	\$217.6	\$178.7	\$149.4	(\$29.3)	(66.6%)
Federal	\$43.5	\$51.0	\$57.3	\$6.3	14.3%
Other	<u>\$57.9</u>	<u>\$60.2</u>	<u>\$70.2</u>	<u>\$10.0</u>	<u>22.7%</u>
Total Revenue	\$820.5	\$936.8	\$948.2	\$11.4	25.9%
Other Resources	<u>\$16.7</u>	<u>\$64.1</u>	<u>\$96.7</u>	<u>\$32.6</u>	<u>74.1%</u>
Total Resources	\$837.3	\$1,000.9	\$1,044.9	\$44.0	100.0%

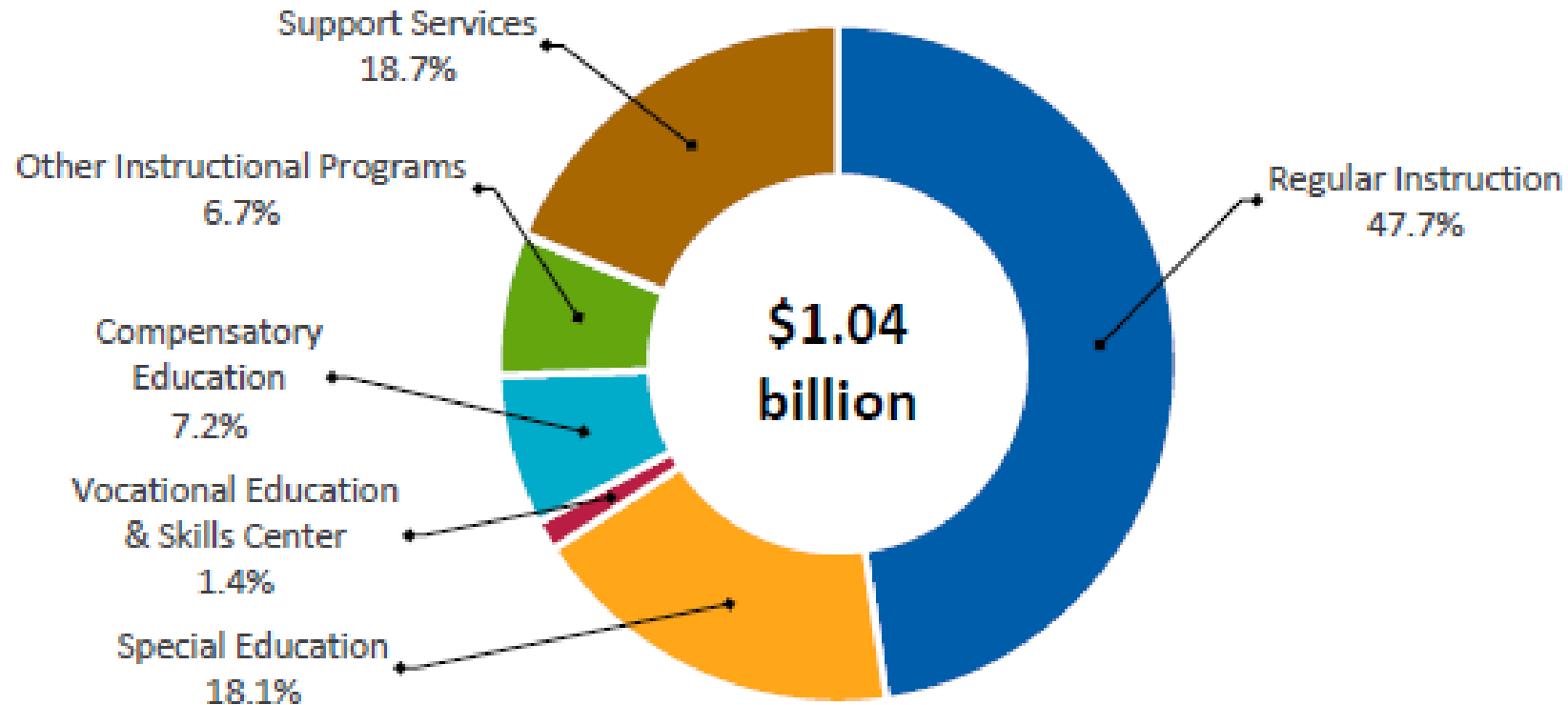
Numbers may not add due to rounding

Expenditures by State Program

Dollars in Millions	2017-18 Actual	2018-19 Adopted	2019-20 Recommended	Change 2019-20 vs 2018-19	2019-20 Percent of Total
Regular Instruction	\$386.5	\$468.6	\$498.4	\$29.8	33.3%
Special Education	\$146.1	\$157.6	\$189.3	\$31.7	35.4%
Vocational Education	\$11.6	\$16.6	\$13.8	(\$2.8)	(3.1%)
Skills Center	\$1.1	\$1.6	\$1.3	(\$0.3)	(0.3%)
Comp Ed. - Ell	\$29.2	\$31.8	\$34.3	\$2.5	2.8%
Comp Ed. - Other	\$34.9	\$39.2	\$41.0	\$1.8	2.0%
Other Instructional Progs	\$38.4	\$62.6	\$70.2	\$7.6	8.5%
Community Services	\$1.7	\$0.8	\$1.0	\$0.2	0.2%
Food Services	\$14.5	\$16.4	\$16.7	\$0.3	0.3%
Pupil Transportation	\$39.7	\$38.7	\$45.8	\$7.1	7.9%
Support Services	<u>\$113.0</u>	<u>\$121.5</u>	<u>\$133.1</u>	<u>\$11.6</u>	<u>13.0%</u>
Total Expenditures	\$816.7	\$955.4	\$1,044.9	\$89.5	100.0%

Numbers may not add due to rounding

Expenditures by State Program



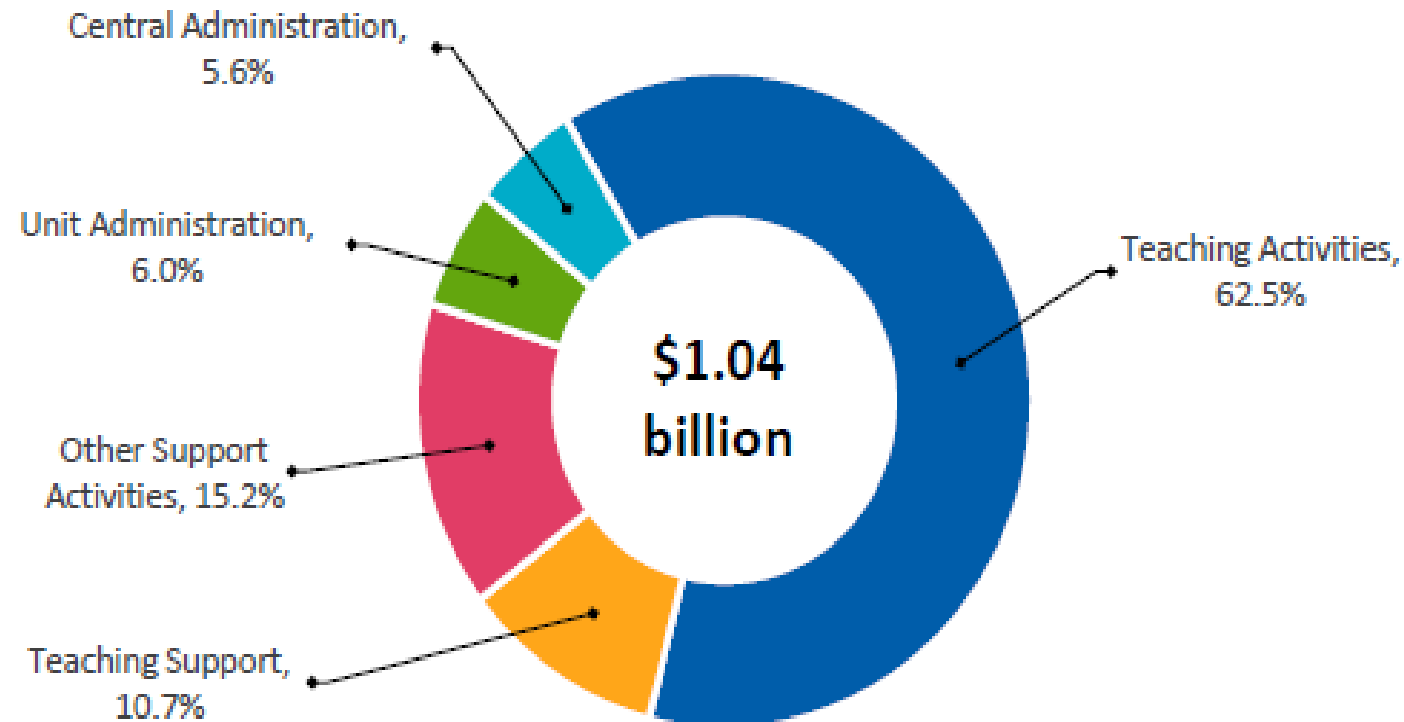
Note: Community Services Program Codes are not shown due to percentage totaling less than 1%

Expenditures by State Activity

Dollars in Millions	2017-18 Actual	2018-19 Adopted	2019-20 Recommended	Change 2019-20 vs 2018-19	2019-20 Percent of Total Expenses
Teaching	\$491.6	\$597.9	\$653.5	\$55.6	62.19%
Teaching Support	\$87.2	\$102.1	\$111.5	\$9.4	10.51%
Principal's Office	\$51.2	\$55.8	\$62.8	\$7.0	7.83%
Other Student Support (Food Services, Utilities, Transportation, etc)	\$135.3	\$142.3	\$158.3	\$16.0	17.90%
Central Administration	<u>\$51.4</u>	<u>\$57.3</u>	<u>\$58.7</u>	<u>\$1.4</u>	<u>1.57%</u>
Total Expenditures	\$816.7	\$955.4	\$1,044.9	\$89.5	100.00%

Numbers may not add due to rounding

Expenditures by Activity Group



Numbers may not add due to rounding

State Activity Groups Defined

- **Teaching** - Includes expenditures related to direct instruction of students. Includes instructional materials, basic instructional and student supplies, but does not include textbooks or instructional software.
- **Teaching Support** – includes support services related to teaching and student well-being. Includes, counseling, pupil safety, health related services, instructional professional development, textbooks, and instructional software.
- **Principal's Office** – Includes management and coordination at the school level. Includes the duties of the principal, assistant principal, attendance specialists, and school clerical staff.
- **Other Support** – Includes activities foundational to student success and the operation of schools but not directly in the context of student instruction. Includes Nutrition Services, Maintenance, Custodial Services, Grounds, Utilities, and Information Systems.
- **Central Administration** – Includes those activities related to management, regulation and control at the district level such as the Board of Directors, Superintendent's Office, Human Resources, Finance and Education Leaders. Also includes the management and administrative components of support areas such as Nutrition Services, Transportation, and Building Maintenance.

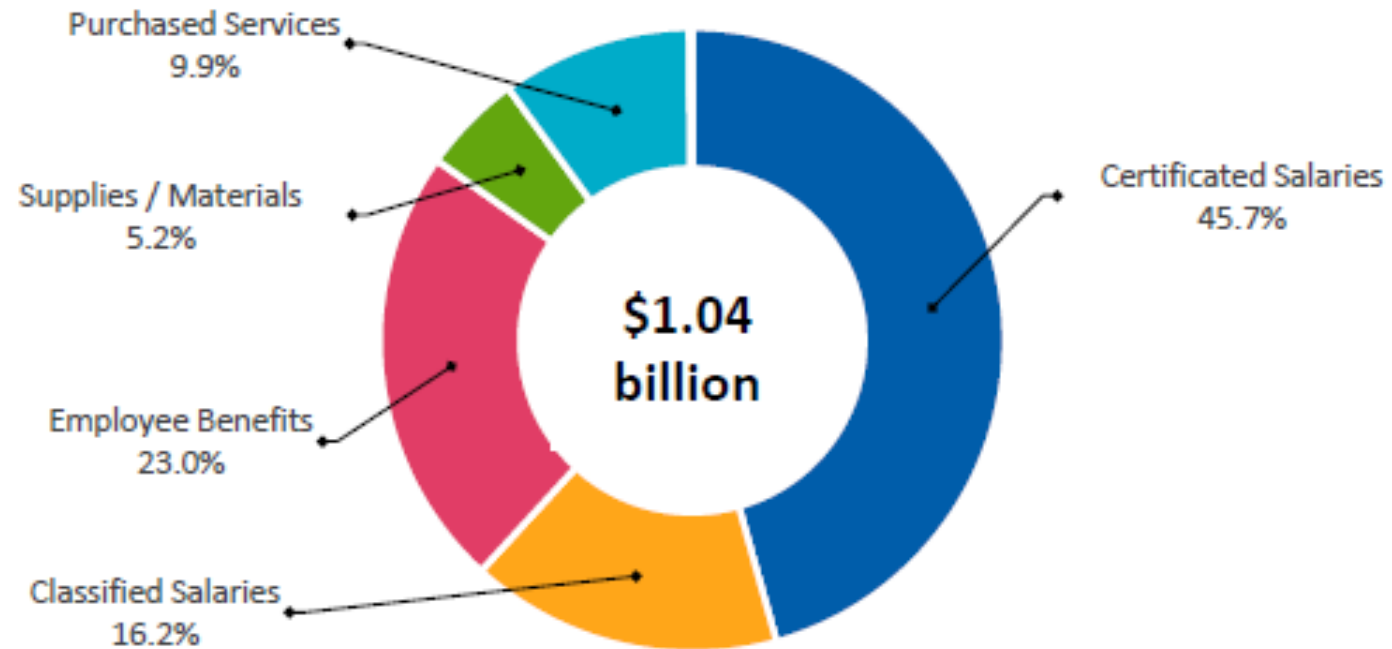
Expenditures by State Object

(Dollars in Millions)

Major Object		2017-18 Actual	2018-19 Adopted	2019-20 Recommended	Change 2019-20 vs 2018-19	2019-20 Percent of Total
0	Debit Transfer	\$7.1	\$3.6	\$3.6	\$0.0	0%
1	Credit Transfer	(\$7.1)	(\$3.6)	(\$3.6)	(\$0.0)	(0%)
2	Cert. Salaries	\$358.9	\$441.7	\$477.1	\$35.4	39.5%
3	Class. Salaries	\$148.3	\$168.3	\$168.8	\$0.5	.5%
4	Employee Benefits	\$182.0	\$203.2	\$240.0	\$36.8	41.1%
5	Supplies	\$30.9	\$49.8	\$54.2	\$4.4	4.9%
7	Purchased Services	\$94.0	\$90.7	\$103.2	\$12.5	14.0%
8	Travel	\$1.2	\$0.7	\$0.6	(\$0.1)	0.1%
9	Capital Outlay	<u>\$1.4</u>	<u>\$1.0</u>	<u>\$1.0</u>	<u>\$0.0</u>	<u>0%</u>
Total		\$816.7	\$955.4	\$1,044.9	\$89.5	100.0%

Numbers may not add due to rounding

Expenditures by State Object



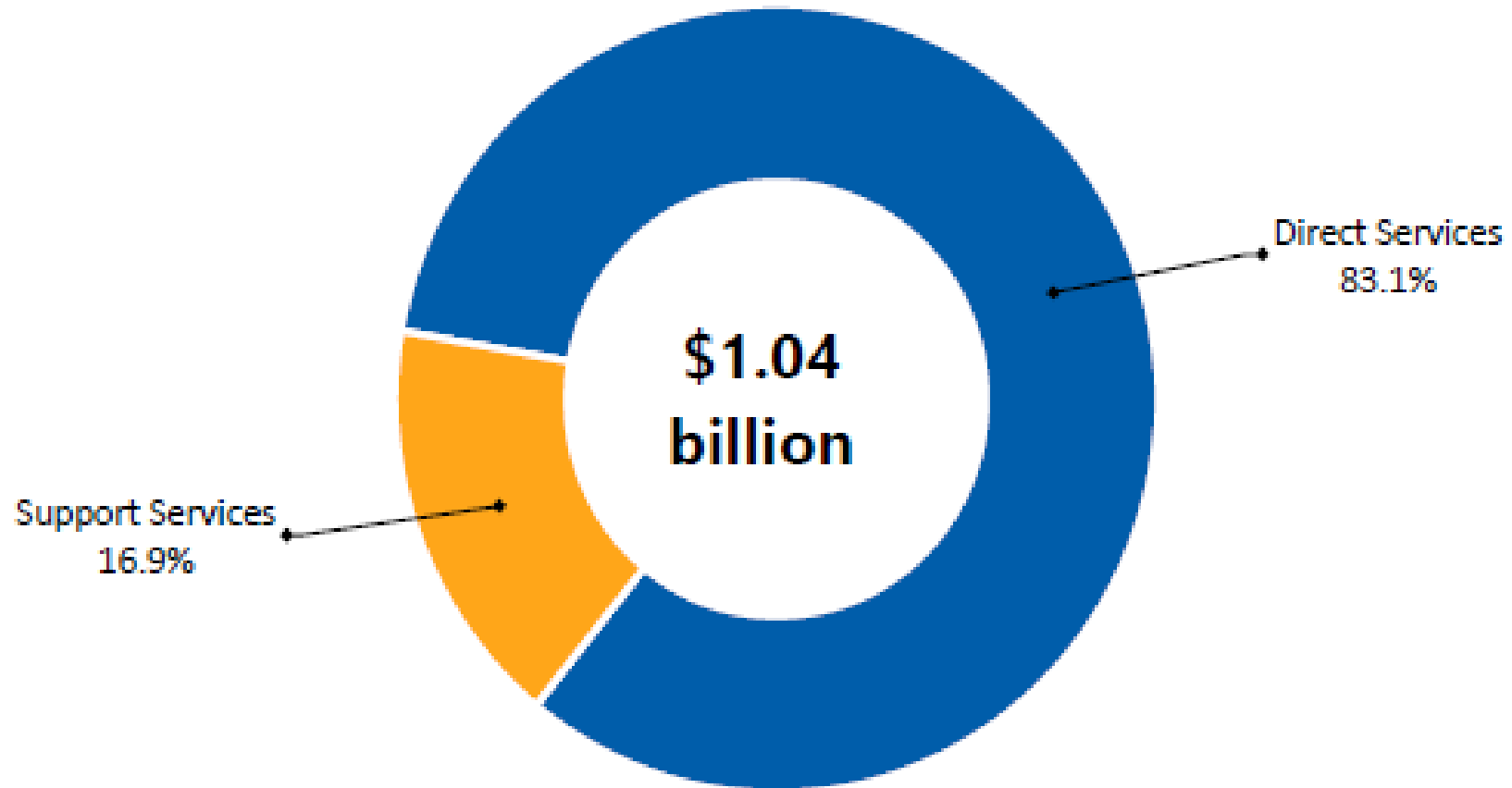
Note: Travel and Capital Outlay are not shown due to percentages totaling less than 1%

Numbers may not add due to rounding

Comparison of Direct Services to Support Services

- Direct Services - \$868.2M (83.1%)
 - School allocation budget (Weighted Staffing Standard formula)
 - Centrally held budget for staff and supplies exclusively in the schools such as nurses, instructional assistants, custodians, bus drivers and food service workers
- Support Services- \$176.7M (16.9%)
 - Support staff not in schools but instrumental in running the district
 - Activities such as cost of processing payroll, paying bills, administering programs, managing grants, hiring staff, warehouse and delivery staff and technology support

Comparison of Direct Services to Support Services



Total Resources per Student

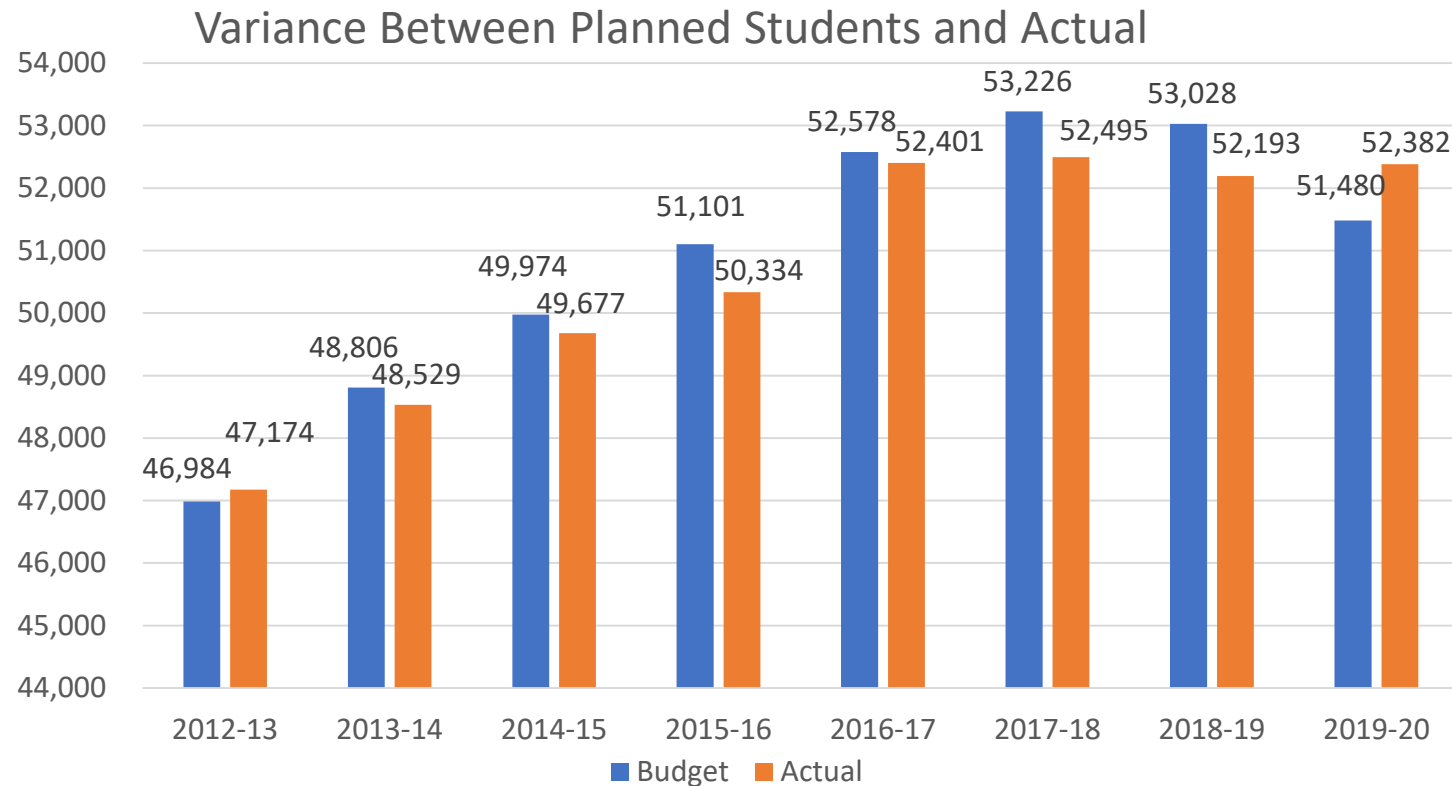
(excluding Special Education and ELL resources)

	2017-18	2018-19	2019-20
Elementary Schools			
Lowest	\$ 5,893	\$ 6,699	\$ 7,604
Average	\$ 7,500	\$ 8,153	\$ 9,149
Highest	\$ 10,379	\$ 13,390	\$ 12,740
K-8 Schools			
Lowest	\$ 6,301	\$ 6,846	\$ 7,587
Average	\$ 7,794	\$ 7,921	\$ 8,769
Highest	\$ 15,207	\$ 12,186	\$ 13,872
Middle Schools			
Lowest	\$ 5,722	\$ 6,254	\$ 6,892
Average	\$ 6,264	\$ 6,794	\$ 7,605
Highest	\$ 6,961	\$ 8,238	\$ 9,353
High Schools			
Lowest	\$ 5,939	\$ 6,453	\$ 7,076
Average	\$ 6,555	\$ 7,230	\$ 7,916
Highest	\$ 7,324	\$ 8,691	\$ 9,535
Non Traditional			
Lowest	\$ 6,363	\$ 6,421	\$ 7,340
Average	\$ 10,071	\$ 13,016	\$ 15,290
Highest	\$ 17,142	\$ 29,413	\$ 36,809



Enrollment

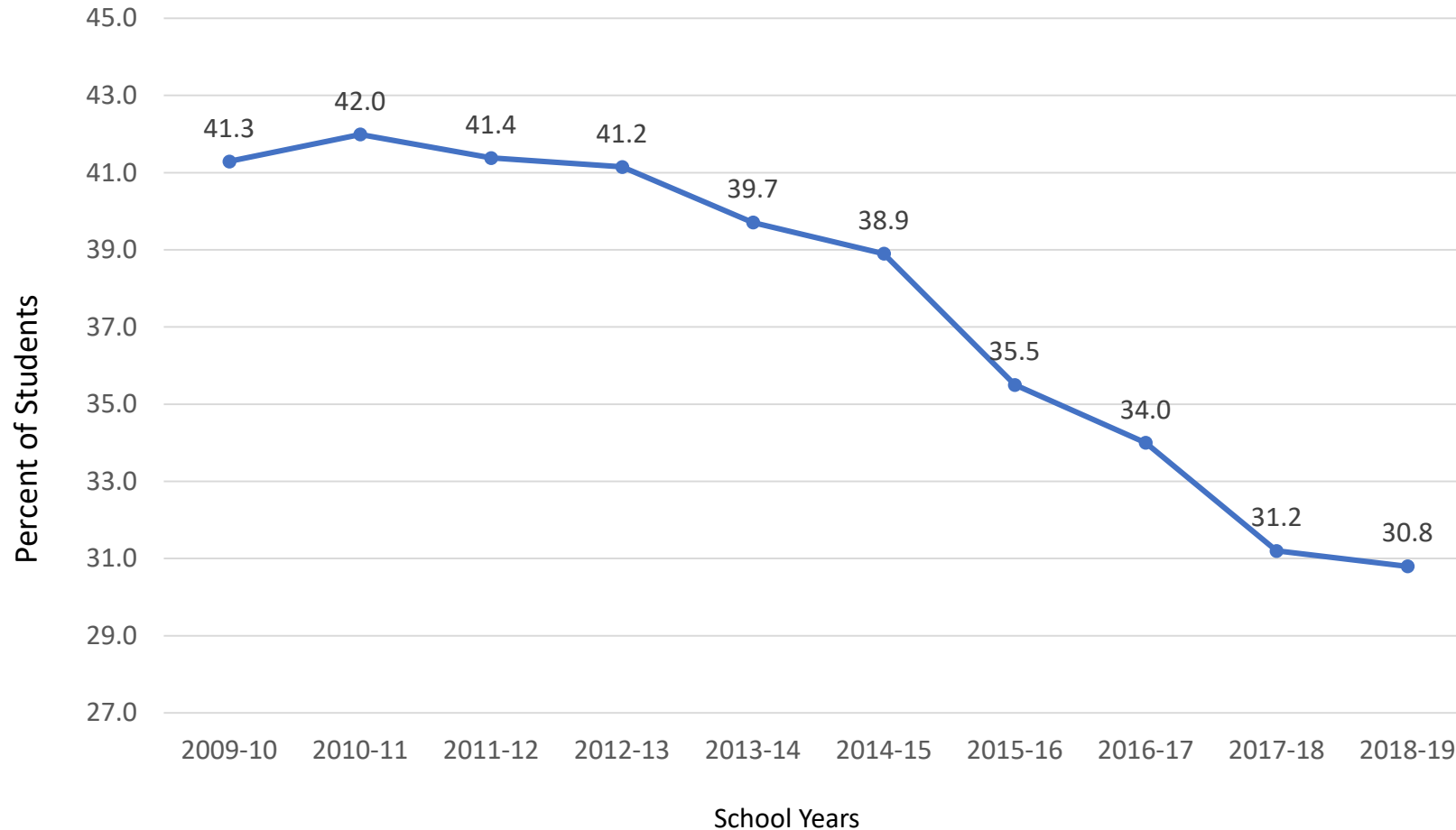
Annual Average Full Time Equivalent (AAFTE)



AAFTE Enrollment excludes Running Start, Dropout Reengagement, and Summer School.

Sources: Budgeted AAFTE based on projections from SPS Enrollment Planning Department, as reported to OSPI for F-195 Budget. Actual AAFTE 2012-13 through 2018-19 from OSPI Reports 1251; for 2019-20, based on revised projections from SPS Enrollment Planning as of Day 5 September.

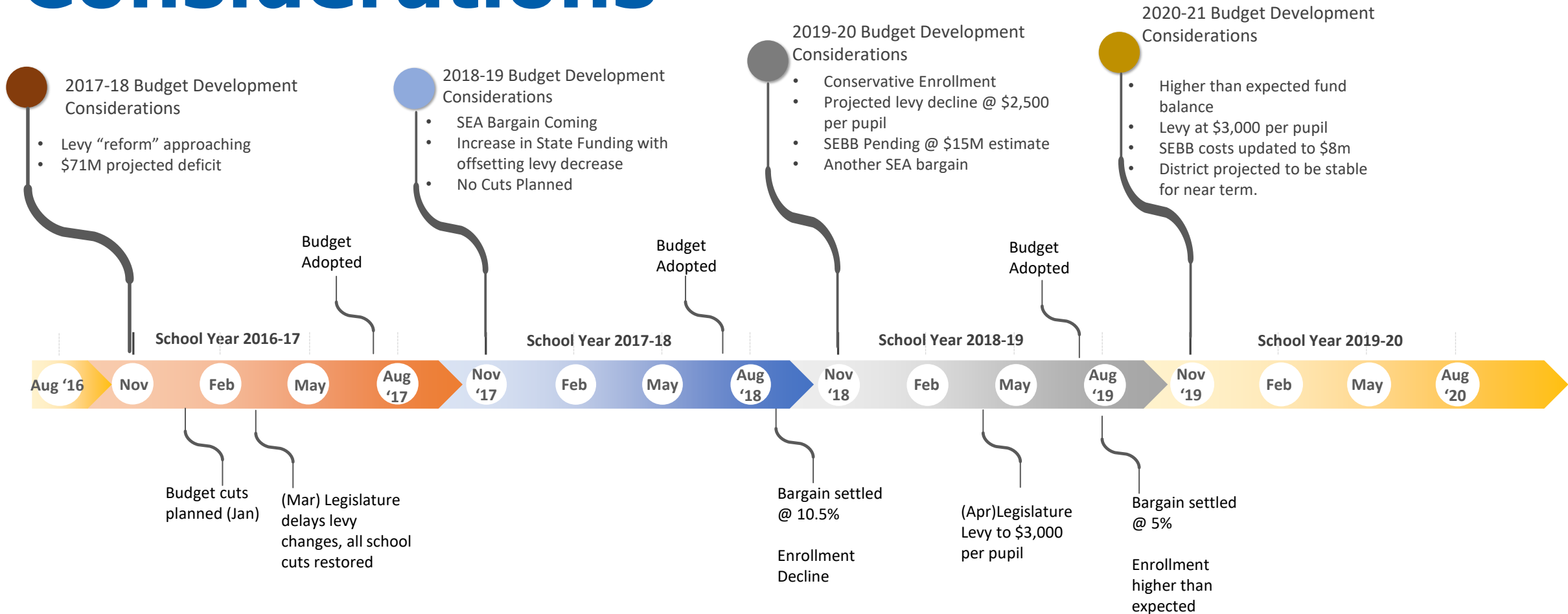
Seattle Public Schools Poverty



Source: OSPI Free and Reduced Price Meals Eligibility – October Count

Budget Work Session December 4, 2019

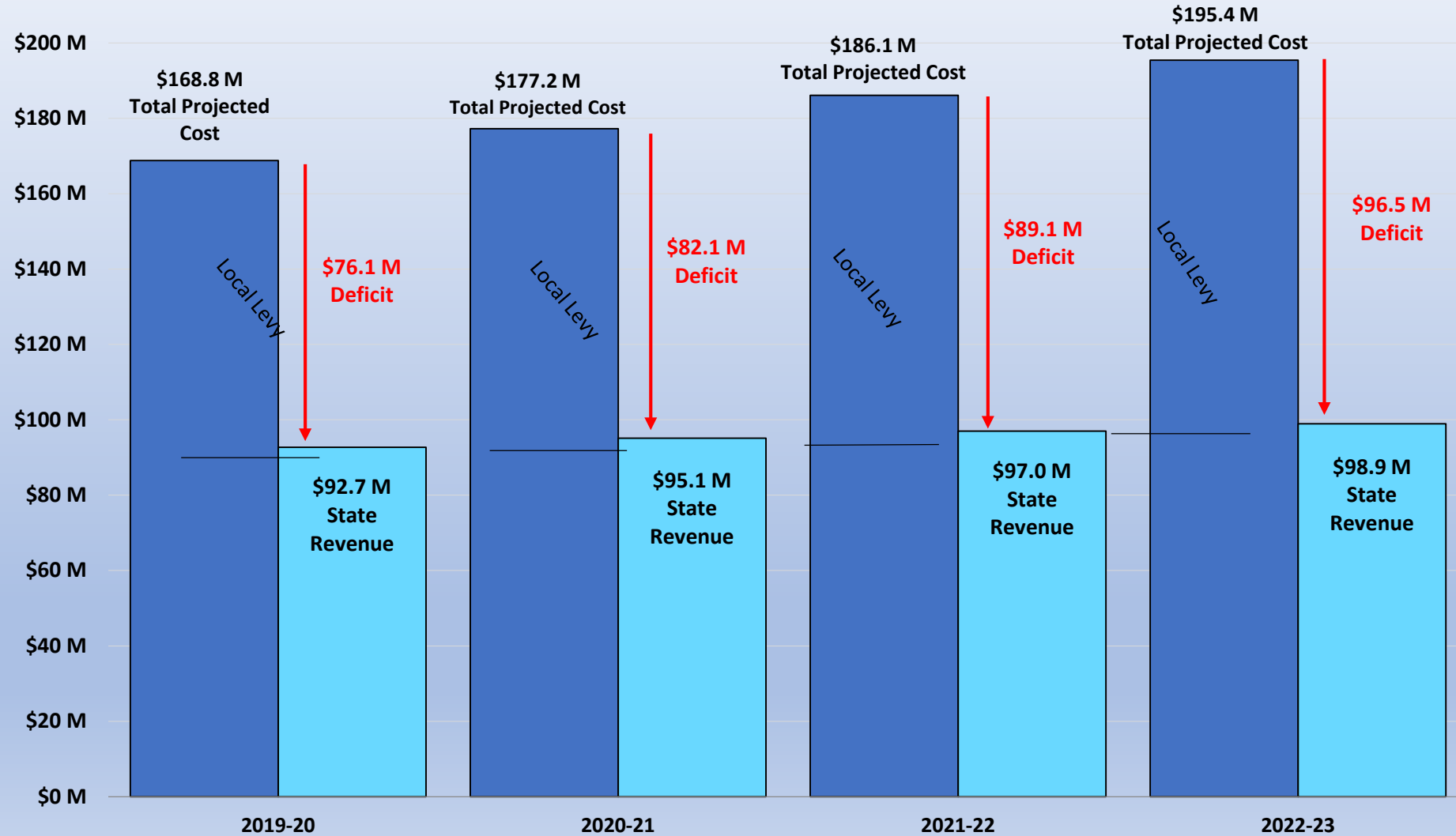
Budget – Recent History on Considerations



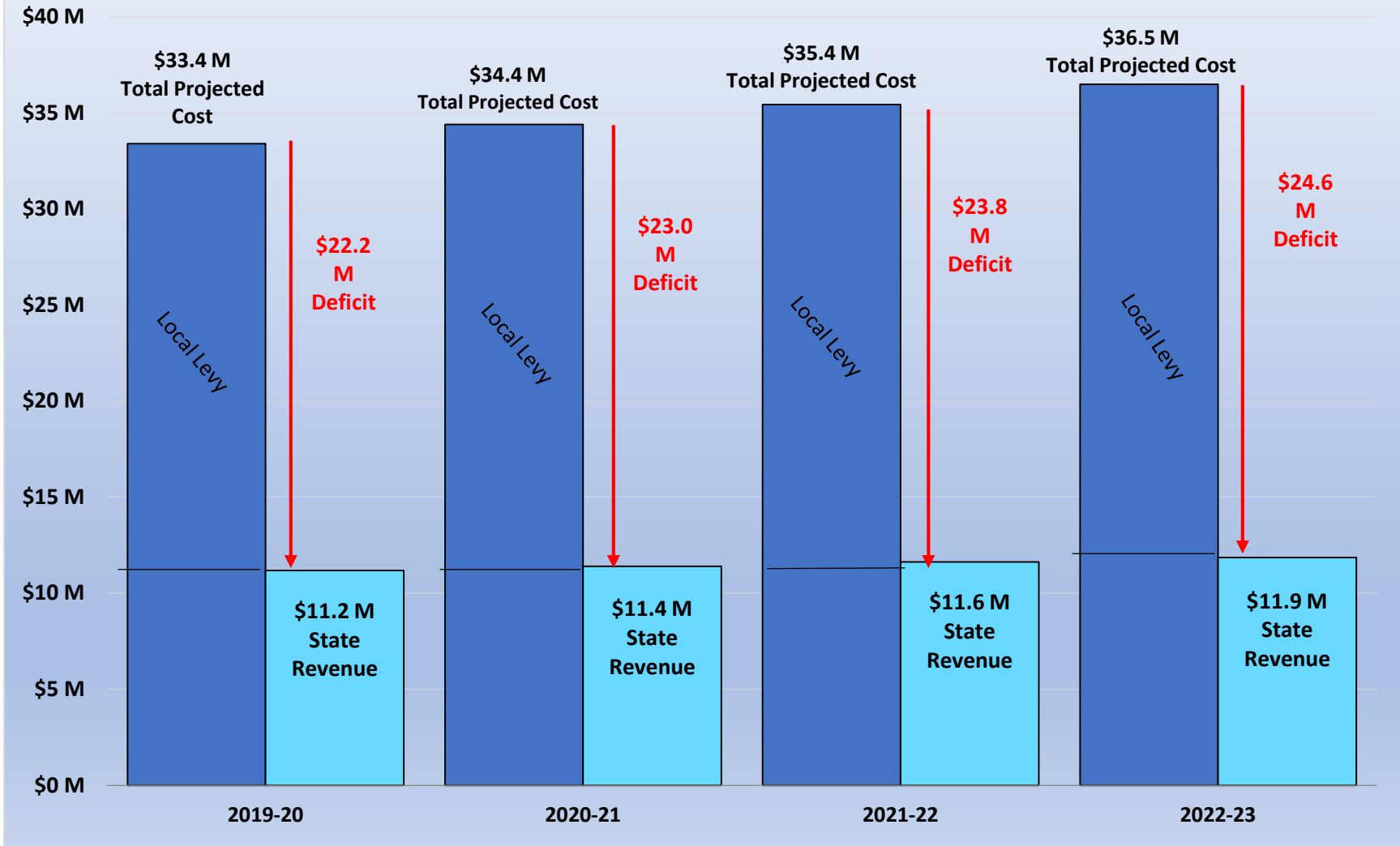
2018-19 General Fund Ending Fund Balance

Fund Balance Projections	2018-19	2019-20	2020-21
Committed to Economic Stabilization	\$27,600,000	\$30,700,000	\$33,800,000
Inventory	\$1,249,708	\$1,249,708	\$1,249,708
Restricted carryforward of grants	\$10,565,420	\$10,565,420	\$10,565,420
School Carryforward	\$9,175,690	\$9,175,690	\$9,175,690
Central Baseline Carryforward	\$1,275,707	\$1,275,707	\$1,275,707
Legal Settlements/Outside Counsel	\$4,403,904	\$4,403,904	\$4,403,904
Planned resources to balance FY19-20 budget			
FY17-18 underspend for FY19-20	\$22,000,000		
FY18-19 anticipated underspend for FY19-20	\$8,000,000		
Fund Balance spend down planned to balance FY19-20	\$8,700,000		
Portion of SEA contract for tech days funded by Capital	\$9,000,000		
Legislative action above anticipated applied to FY19-20	\$12,650,000		
FY18-19 anticipated underspend for FY20-21			
Salary savings	\$14,000,000	\$14,000,000	
Legislative action above anticipated applied to FY20-21	\$16,000,000	\$16,000,000	
FY19-20 estimated savings			
Salary savings/SEBB billing change		\$18,500,000	
FY20-21 estimated salary savings/miscellaneous			\$10,000,000
Secondary Science Curriculum Adoption	\$854,445	\$854,445	\$532,212
Central Reductions, not restored		\$1,376,543	\$1,376,543
Unassigned	\$7,256,392	\$14,500,000	\$14,500,000
Total Ending Fund Balance	\$152,731,266	\$122,601,417	\$86,879,184

Special Ed - Remaining Gap in State Basic Ed Funding



Bilingual Ed - Remaining Gap in State Basic Ed Funding



FY 2020-21 Budget Development Calendar

- **October 7, 2019** - Budget Work Session
- ~~**November 13, 2019**~~ - Budget Work Session **Cancelled**
- **December 4, 2019** – Budget Work Session
- **December 13, 2019** – Final WSS Changes determined
- **January 13 to March 13** - State Legislative Session
- **January 15, 2020** - Budget Work Session to review recommendations
 - Review WSS Changes
 - Review Overall major budget changes
 - Consensus on budget
- **January 14 to January 31** - Central budgets developed
- **January 29, 2020** – Budget Work Session
- **February 25, 2020** - Budget Allocations to Schools
- **March 2020** - Budget Work Session
- **April 2020** – Budget Work Session
- **May 2020** - Final General Fund Balancing, Budget Book development
- **May 2020** - Budget Work Session
- **June 8, 2020** - Board Action Report and Budget Resolution to A&F
- **June 24, 2020** - Introduce Budget to Board
- **July 8, 2020** – Required Public Hearing
- **July 8, 2020** - Board Action to adopt school year 2020-21 budget

Other Topics

- Beginning in 2020-21, schools will no longer be able to pay for staff out of self help, which will improve transparency on the fund source
 - Self Help was initially intended for fines, fees and miscellaneous funds
 - Control on donations to fund staff should be the same as grants. Self help does not currently have restrictions or controls above supplies funding
- Library spending – Budget will be collecting data on all funds allocated to library materials

Direction on Budget for FY20-21

Initial thoughts:

- No program or budget reductions
- New programs or expansion of programs limited to strategic plan initiatives
- Cost increases related to:
 - Unavoidable inflation (utilities, fuel, student needs, etc.)
 - Open Labor contracts



Capital Budget 2020-21

- Currently about \$7.3m in unspent, available dollars
- Need for 2019-20 and 2020-21 is likely \$8m or more (in total, not per year) to support technology pay agreed to in the recent collective bargaining agreement for teachers
- New budget language does allow more general fund items to be charged to capital, but no current plans for this



Outcomes

- Information provided District trends
- Information provided regarding 2020-21 projections and timeline
- Direction on budget for 2020-21



Questions?

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Budget Work Session December 4, 2019



Board Work Session

BEX V Capital Levy

Proposed Implementation Plan

Dec. 4, 2019



Agenda

- Welcome/Introductions
- Work Session Outcomes
- Background Information
- BEX V Capital Levy
 - Levy Planning
 - Draft Implementation Plan
 - BEX V Technology Plan Investments
 - BEX V Communications
 - BEX V Next Steps



Work Session Outcomes

- Review background information
- Create awareness of BEX V Capital Levy planning efforts
- Review proposed implementation plan for BEX V Capital Levy including technology funding and communications plan
- Share next steps



Background Information



Background Information BEX/BTA Capital Levies

- Building Excellence (BEX) Capital Levies have historically addressed capacity and modernization needs (6-year duration).
- Building, Technology and Academics (BTA) Capital Levies have historically addressed building systems repair or replacement, technology, and academics needs (6-year duration).

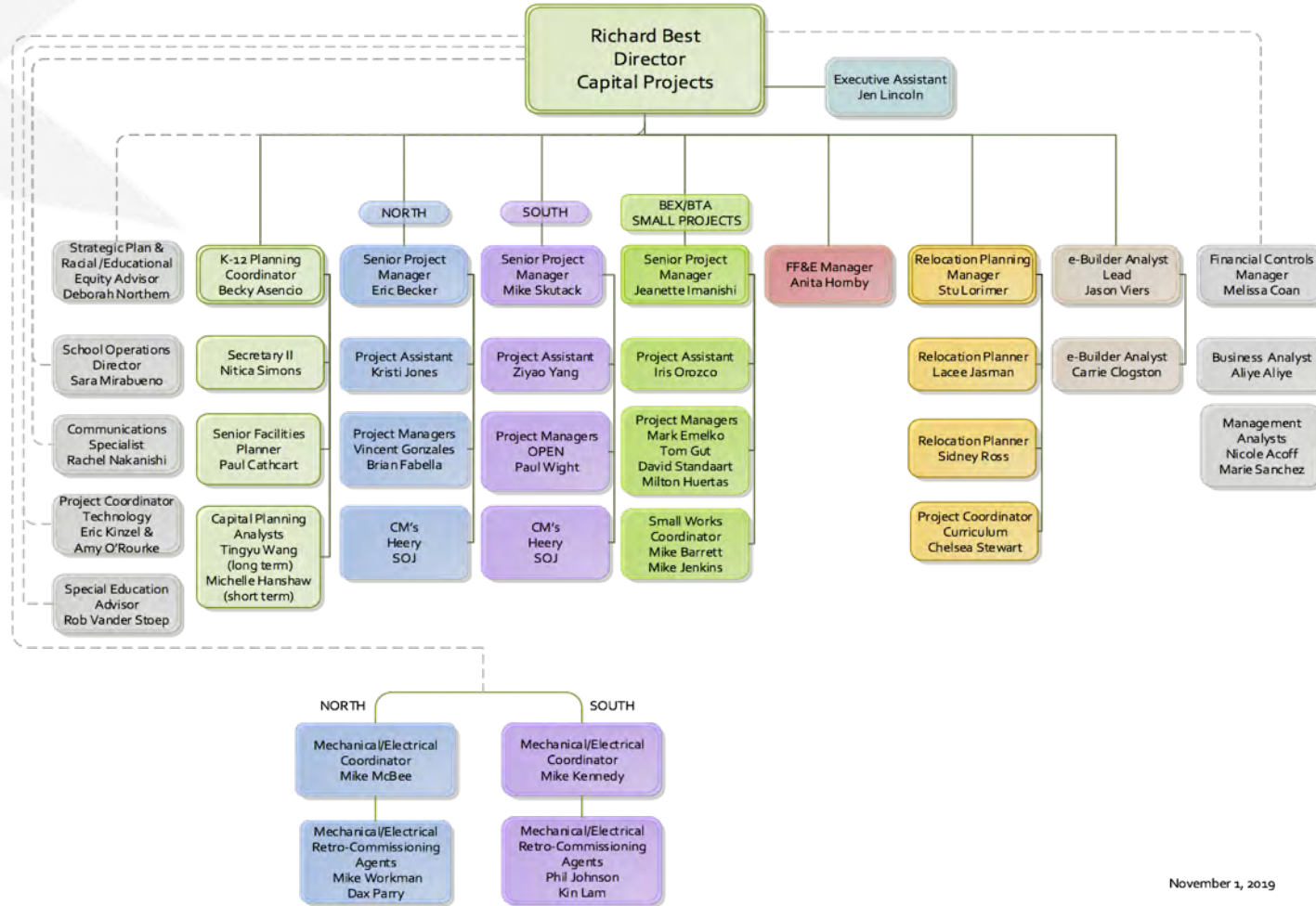


Background Information Oversight of Capital Levies

- BEX and BTA Capital Levy Oversight Committee
 - Citizen oversight committee required by the School Board
 - 11 members appointed by the School Board
 - Monitor status of identified projects in the BEX and BTA Capital Levies
 - Support academic achievement in the schools by providing guidance and sharing professional insights with Capital Projects and Planning
 - Oversee program revenues, expenditures, and planning for future BEX and BTA capital levies



Background Information Capital Projects and Planning - Handout



November 1, 2019

BEX V Capital Levy

Approved by Seattle Voters February 2019



BEX V Capital Levy School Board Guiding Principles

With the overarching framework of Ensuring Educational and Racial Equity (Board Policy No. 0030):

- Building Safety and Security
- Right-Size Capacity
- Building Conditions and Educational Alignment
- Environmental and Financial Sustainability
- Updating Technology



BEX V Capital Levy Factors Included in Plan

- Project rank from levy planning process/equity
- Cash flow (levy collections)
- Cost escalation and market conditions
- Need for/availability of an interim site
- Design/construction sequence milestones
- Project complexity/phasing
- Coordination with BEX IV and BTA IV work
- Coordination with outside agencies
- Community involvement



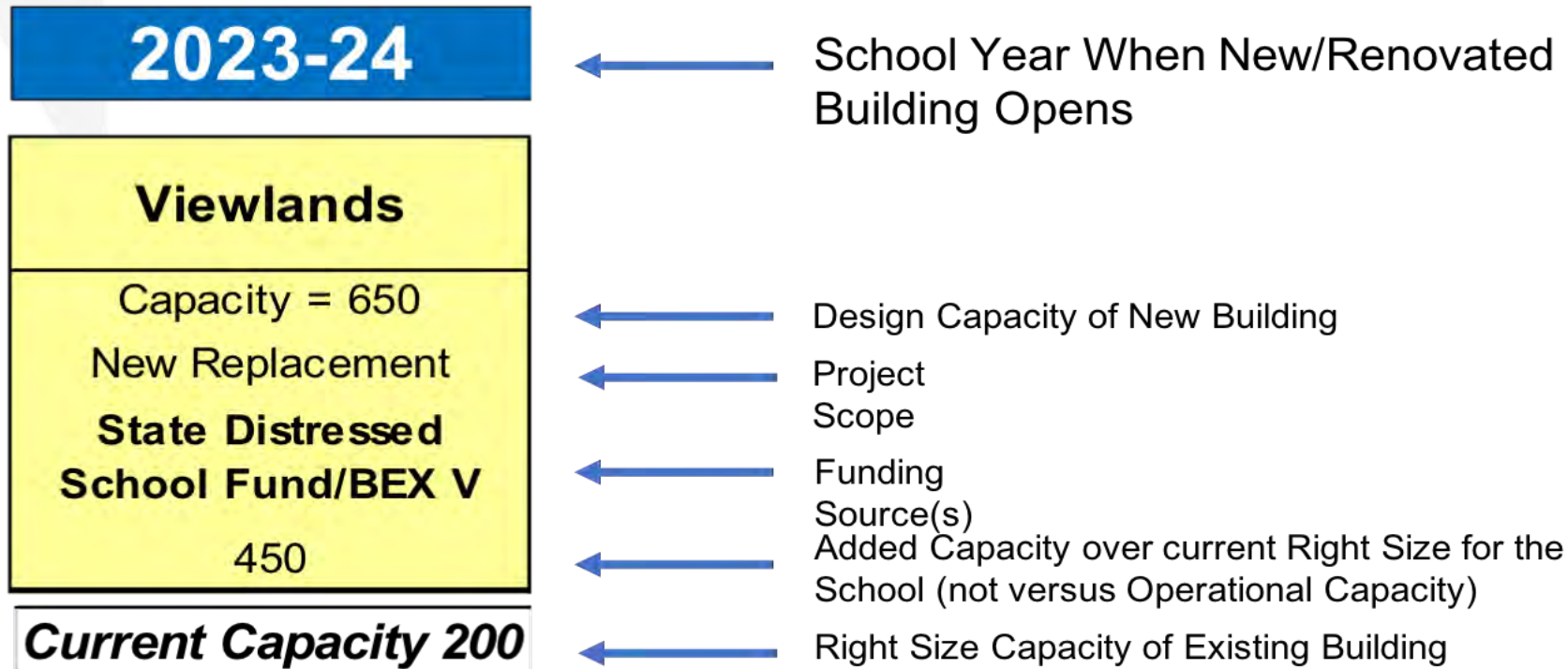
BEX V Capital Levy Proposed Timeline Handout

School Type	BEX IV CAPITAL LEVY			BEX V CAPITAL LEVY (2020-2025)					BEX VI CAPITAL LEVY			
	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	
Elementary Schools (K-5)	Loyal Heights Capacity = 600 Modernization/Addition BEX IV 300 Current Capacity 300	Magnolia (Phase I) Capacity = 396 Modernization/Addition BEX IV 396 Current Capacity 0 Dunbar Bagley Const. Magnolia Phase I Construction Viewlands Design/Planning	Daniel Bagley Capacity = 353 Modernization/Addition BEX IV 150 Current Capacity 353	Magnolia (Phase II) Capacity = 483 Addition (B Classrooms) State Disbursed School Fund 64 Current Capacity 396		Viewlands Capacity = 450 New Replacement State Disbursed School Fund/BEX V 450 Current Capacity 200		John Rogers Capacity = 500 New Replacement State Disbursed School Fund/BEX V 230 Current Capacity 264		Sacajawea Capacity = 500 New Replacement BEX V Design Only 230 Current Capacity 230		
		Queen Anne Capacity = 500 Addition (B Classrooms) BEX IV 170 Current Capacity 330		Wing Luke Capacity = 500 New Replacement BEX IV 160 Current Capacity 220	Frantz H. Coe Capacity = 500 Addition (B Classrooms) State Disbursed School Fund 132 Current Capacity 418	North Queen Anne Modernization BTA V/BEX V 0 Current Capacity 0	Northgate Capacity = 450 On Site Replacement BEX V 430 Current Capacity 220		Montlake Capacity = 500 Modernization/Addition BEX V 345 Current Capacity 154			
	E.C. Hughes Capacity = 290 Modernization/Addition BTA IV 0 Current Capacity 290		Webster K-5 Capacity = 379 Modernization/Addition BTA IV 379 Current Capacity 0	West Woodland Capacity = 620 Addition (12 Classrooms) Disbursed School/BEX V/CSR 224 Current Capacity 296		West Seattle Elementary Capacity = 100 Addition (B Classrooms) BEX V 100 Current Capacity 220	Kimball Capacity = 800 New Replacement BEX V 200 Current Capacity 260		Alii Capacity = 500 New Replacement BEX V 170 Current Capacity 330			
							Original Van Asselt Capacity = 1,000 30 Classroom Addition BEX V 0 Current Capacity 0		Aki Mercer Capacity = 1,000 New Replacement BEX V 204 Current Capacity 792		Aki Kuroue Capacity = 1,000 Modernization BEX V Design Only 132 Current Capacity 868	
Middle Schools (6-8)												
High Schools (9-12)		Ingraham Capacity = 1,600 Addition (20 Classrooms) BTA IV 500 Current Capacity 1,100 Rainier Beach Design/Planning						Rainier Beach (Phase I) Capacity = 1,500 On Site Replacement BEX V 512 Current Capacity 1088	Rainier Beach (Phase II) Capacity = 1,500 On Site Replacement BEX V 512 Current Capacity 1088	Rainier Beach (Phase III) Capacity = 1,500 On Site Replacement BEX V 512 Current Capacity 1088		
		Lincoln Capacity = 1,600 Modernization/Addition BEX IV 1,600 Current Capacity 0 Lincoln Seismic Design/Planning					Lincoln (Seismic) Capacity = 1,600 Seismic Upgrades BEX V 0 Current Capacity 1600					
Interim Schools	John Marshall	Bagley Middle College	West Woodland Middle College	Viewlands North Queen Anne	Viewlands	John Rogers (250) Montlake (250)	Sacajawea					
	Original Van Asselt	Wing Luke (4 Portables)	Wing Luke (4 Portables)	Kimball (8 Portables) Addition for Interim Use	West Seattle ED (18 Portables)	Schmitz Park Seismic Design/Planning	Schmitz Park Seismic Design/Planning					



BEX V Capital Levy Timeline Key

- Interim site information at bottom of sheet (gray boxes)
- Timeline shows BEX V plus other major construction projects occurring before, during and after BEX V



BEX V Capital Levy

Major Project Procurement

Design-Bid-Build (DBB) or General Contractor/Construction Manager (GC/CM)

- DBB
 - Kimball, Viewlands, John Rogers, West Seattle ES
- GC/CM recommended for modernization, phased, or complex (historical, technical, logistics) projects
 - Capital Projects Alternative Review Board – Public Review Committee (CPARB-PRC) Approved: Northgate ES
 - Seeking CPARB-PRC Approval: Lincoln HS, OVA/Mercer MS, Rainier Beach HS, Alki ES, Montlake ES



BEX V Capital Levy

Typical Major Project Phases

- Predesign (includes School Design Advisory Team—SDAT)
- Schematic Design (SDAT/Facilities Operations participation)
- Design Development (SDAT/Facilities Operations participation)
- Construction Documents/Permitting
- Bid and Award Contracts
- Construction
- Occupancy
- Warranty period/Closeout/Post Occupancy



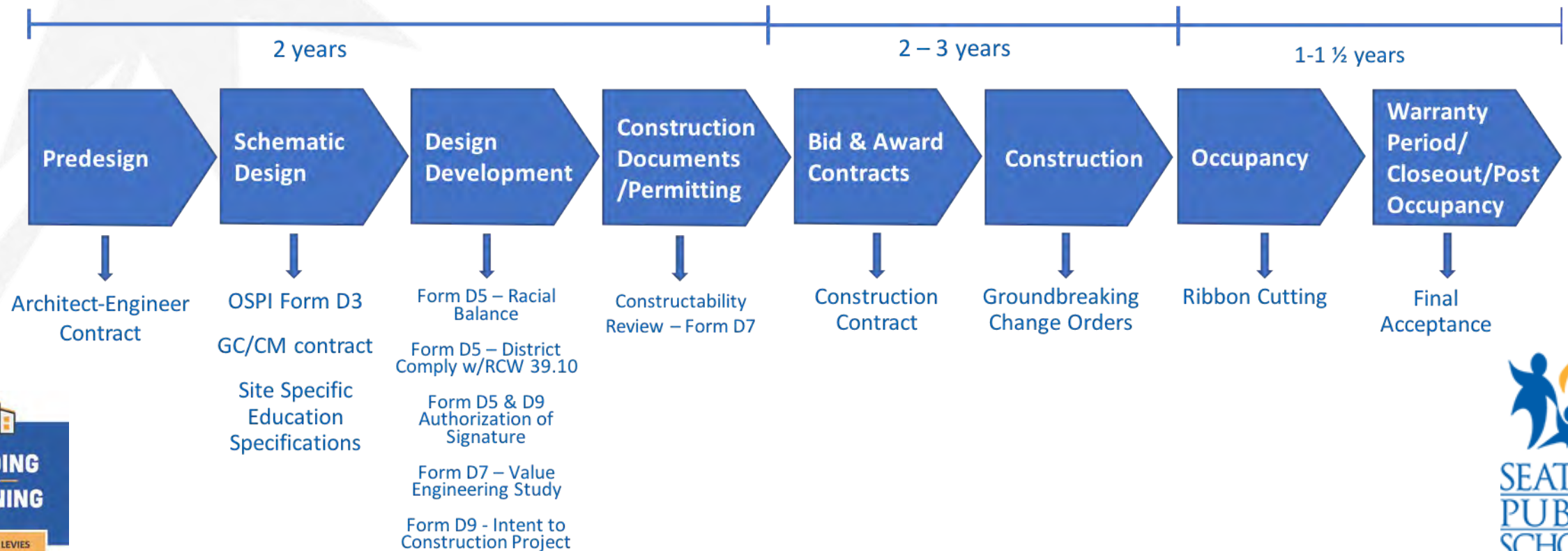
BEX V Capital Levy School Design Advisory Team (SDAT)

- Process to allow each school community to have input on the construction or renovation of their school building
- Committee members from school, community, district
- Coordinate meeting with DREA/Building Principal outreach
- Led by project manager, senior project manager, architect
- Series of workshops and tours
 - Identify vision, philosophy, and objectives of school and community
 - Consistent, diverse voice for user groups in preplanning phase
- Outcomes combine with Technical Support Group reviews to create site-specific educational specifications



BEX V Capital Levy Board Intersection Approvals

Major Project Phases



BEX V Capital Levy Projects in Planning

- West Woodland ES Addition: Open September 2021



- West Seattle ES Addition: Open September 2022



BEX V Capital Levy Projects in Planning

- Kimball ES Replacement: Opens September 2023
- Northgate ES Replacement: Opens September 2023
- Viewlands ES Replacement: Opens September 2023



BEX V Capital Levy Projects in Planning

- Original Van Asselt Addition: Opens September 2023



- Rainier Beach HS Replacement (modernizing Performing Arts Center): Opens September 2025



BEX V Capital Levy Projects Not Started

- Alki ES Replacement (modernizing Gymnasium): Opens September 2025
- Rogers ES Replacement: Opens September 2025
- Montlake ES Modernization/Addition: Opens September 2025



BEX V Capital Levy Projects Not Started

- Mercer MS Replacement: Opens September 2025



BEX V Capital Levy Projects Not Started —Design Only

Construction funding anticipated to be included in either BTA V or BEX VI Capital Levy election (Winter 2022 or Winter 2025)

- Aki Kurose ES: Planning start Winter 2020
- Sacajawea ES: Planning start Winter 2023



BEX V Capital Levy

Building Systems and Repairs (<\$5M)

- Priority for roof repairs and seismic work to occur earlier in BEX V timeline
- Coordinated with remaining BEX IV and BTA IV - funded systems work
- Playground projects occur in first 3 years of BEX V timeline
- Safety and security projects occur in first 3 years of timeline
 - Card access readers and video intercom systems at entry
 - Cameras
 - Door hardware
 - Perimeter fencing



BEX V Capital Levy Awareness and Issues

- Department of Racial Educational Advancement providing training for all selected architects/construction project managers
 - Seattle Excellence Strategic Plan and Board Policy 0030 Educational and Racial Equity
- Capital Projects and Planning hosting conversation with representatives from the McKinney-Vento Program, Mary's Place and local architectural firms mid-December 2019
 - Addressing physical, emotional, social and academic needs of students experiencing homelessness: Pre-K to grade 12
- Landmark process required for each major project



BEX V Capital Levy Awareness and Issues

- Developing project specific Owner Project Requirements (OPR)
 - Confirm compliance with policy 6810, superintendent procedures 6810, and climate change and green resolutions
- Explored with Seattle Parks and Recreation
 - Exchange of property to allow students to remain on-site at Mercer International MS while new school is built
- Explored with Bassetti Architects
 - Development of a phasing plan to allow students to remain on-site at Mercer International MS – 15% premium, challenging, education



BEX V Capital Levy Awareness and Issues

- Adding 30 classrooms and gymnasium to Original Van Asselt to house 1,000 students; Mercer International MS to be designed for 1,000 students
 - Middle school feeder pathways need to be revised no later than Fall 2023
- Kimball ES 4th-graders will spend four years at Original Van Asselt
 - Two years at Kimball ES, and then two years at Mercer International MS
- Original Van Asselt addition under construction while Kimball ES located at interim site
- Original Van Asselt and John Marshall interim sites will be empty one year if BEX VI includes Aki Kurose MS and Sacajawea ES construction



BEX V Capital Levy Cash Flow

- Escalation rate determined with input from Rider Levett Bucknall cost estimating consultant
- Used implementation plan to determine project cost escalation for each project (4% per year)
- First levy collection will be FY2020 (April 2020)
- Final levy collection will be FY2026 (October 2025)
- Capital accounting reviewed/confirmed project details for cash flow



Remaining BEX IV and BTA IV Construction Projects

- Remaining BEX IV projects
 - Daniel Bagley ES modernization and addition: opens 2020
 - Wing Luke ES replacement school: opens 2021
 - Systems Upgrades — seismic, science labs
- Remaining BTA IV projects
 - Webster School modernization and addition: opens 2020
 - Systems Upgrades — security, exteriors, HVAC, fire suppression/alarms, electrical, fields



Discussion



BEX V Capital Levy Technology Plan Investments



BEX V Capital Levy Technology Plan — 2020-23

- Student Learning & Support = \$62,543,000
- District Systems & Data = \$45,114,000
- Infrastructure & Security = \$44,041,000

- **Total BEX V = \$151,698,000**



BEX V Capital Levy

Student Learning and Support

Hardware, software, and services to directly support instruction and student learning

- Student computers
- Digital resources
- Classroom technology, audio/visual equipment
- Teacher professional development & technology



BEX V Capital Levy District Systems and Data

Business, Student, HR, Operations, Communications, Data Systems

- Modernize business systems to be predictable and consistent
- Enhance student systems
- Digital Transformational to reduce paper processes and improve efficiency
- Website governance and customer service
- Data governance



BEX V Capital Levy Infrastructure and Security

Core technology to run and secure connectivity and applications

- Data Center/Disaster Recovery upgrades
- Cybersecurity tools
- Network & physical security upgrades
- Administrative staff computers
- Operational support, software, maintenance



BEX V Capital Levy Technology Projects

See the Technology Plan for more detail on
technology projects planned for 2019-2023

<https://www.seattleschools.org/techplan>



Discussion



BEX V Capital Levy Strategic Communications Plan



BEX V Capital Levy Communication Goals

Continue momentum of voter-approved levies by showcasing major BEX V projects using a variety of channels and mediums by:

- Thanking voters for their continued support of Seattle Public Schools capital levies
- Demonstrating how voter-approved funds are being used to deliver the projects promised in the levy
- Showing that Seattle Public Schools is a good steward of public monies



BEX V Capital Levy

Key Messages

- Seattle Public Schools appreciates voter support for capital improvements and technology
- Seattle Public Schools is keeping the promises made in the capital levy elections
- Seattle Public Schools is committed to providing school buildings and technology that support the strategic plan, Seattle Excellence
- Seattle Public Schools is making improvements to enhance safety and security in all district schools



BEX V Capital Levy

New PR Initiatives for BEX V

- Mark key points in Construction Phase
 - Groundbreaking (School and community engaged)
 - Topping out (School engaged)
 - Ribbon-cutting and tour (School and community engaged)
- Monthly stories: website and School Beat e-newsletter
- Social media
 - Visually interesting photos with caption
 - Short videos during construction
- Website changes:
 - www.seattleschools.org/construction for all projects



Discussion



BEX V Capital Levy Next Steps



BEX V Capital Levy

Next Steps BEX V Projects

Efforts will focus on:

- Negotiations and Board approval of CM Contracts
- Preparing Request for Qualifications, advertising and selecting secondary school architect and engineering (A/E) firms
- Negotiations and Board approval of A/E contracts
- Preparing submittals and making presentations to CPARB-PRC for use of Alternative Public Works construction for secondary schools
- Preparing landmark nomination submission to City of Seattle – Department of Neighborhoods
- Commence with Schematic Design
- Student-Community Workforce Agreement Task Force



Thank you!



Capital Projects and Planning | 206-252-0644 | www.seattleschools.org/construction



Capital Projects and Planning Department

Organization Chart as of Nov. 1, 2019

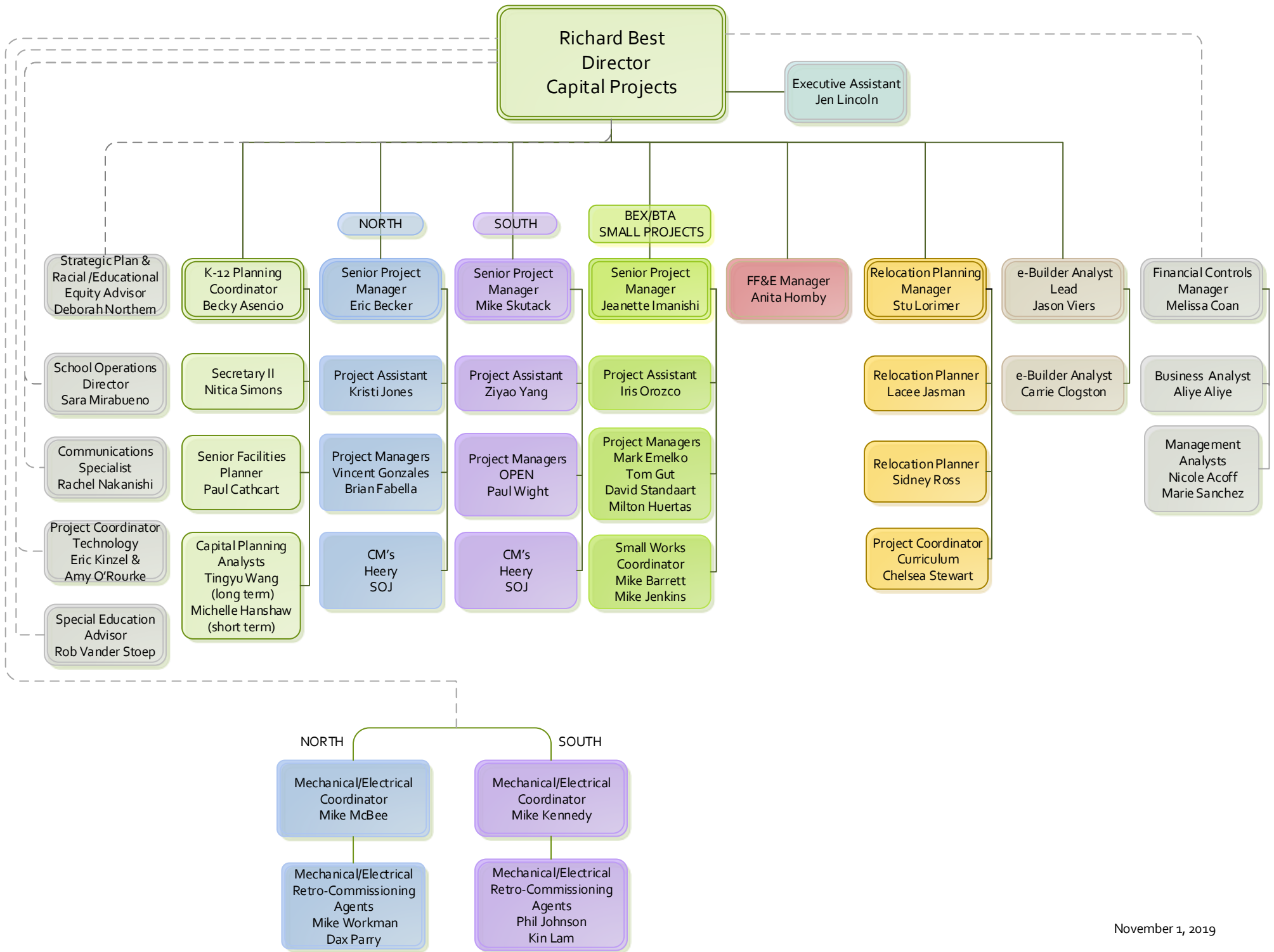
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For questions and more information about this document, please contact the following:

Richard Best
Director, Capital Projects and Planning
rlbest@seattleschools.org

This is an organization chart showing the Capital Projects and Planning Department with Richard Best as department director. It includes those positions and people who report to the director using a solid line and those who report to others and work with the department using a dotted line. The Senior Project Managers for North, South, and BEX/BTA Small Projects, the FF&E Manager, the K-12 Planning Coordinator, the Relocation Manager, the E-Builder Analyst Lead, and the Executive Assistant all report directly. Their director reports are also shown.



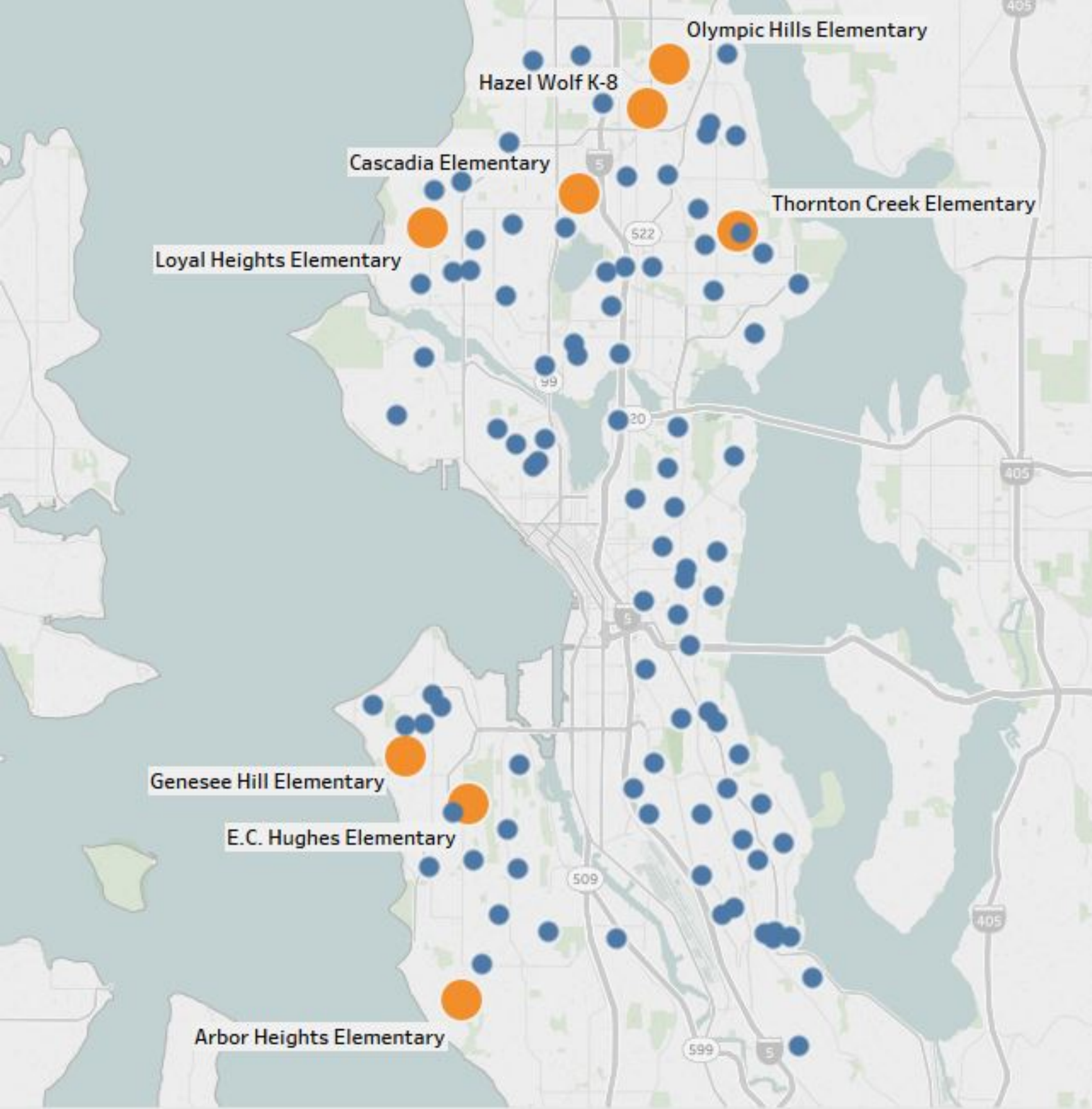
Policy 6810 Natural Resources Conservation, Superintendent's Procedures and Associated Resolutions

November 7, 2019

Seattle Public Schools sustainability and resource conservation efforts are governed by policy, superintendent procedures and resolutions. A brief synopsis of the documents, includes:

- Natural Resources Conservation [Policy 6810](#) requires the District to wisely manage the use of natural resources and maintain programs that support the conservation of energy and other natural resources. The goal of the policy is to create and sustain healthy environments through a resource conservation management plan. The policy requires the District to: reduce energy and water consumption; reduce waste production; increase recycling measures and educate staff and students to lessen the impact to the environment.
- Superintendent's Procedure [SP6810](#) strives to create a healthy learning and work environment for students, staff and community. The focus is long-term, sustainable measures that reduce natural resource consumption by providing specific actions concerning: heating, cooling and ventilation (HVAC) and mechanical equipment; indoor and exterior lighting usage; composting, recycling, waste reduction and waste disposal; new construction and remodels; on-going maintenance operations and procurement; conservation outreach and training; occupants of offices and classroom – equipment operating responsibilities; school grounds and gardens; and anti-idling of vehicles.
- Resolution [2006/2007-18](#) – Climate Change commits the District to a long range plan to reduce greenhouse gas emissions and natural resource consumption; authorizes the District to join the Seattle Climate Partnership; and discusses greenhouse gas emission reduction, requiring each department to develop an action plan and from those departments responsible for large emissions (school bus transportation, building utility use, building construction, transportation of goods and services, District motor pool and other District vehicles) provide an annual report to the Board Operations Committee on greenhouse gas reduction progress; and, educate staff and students on behavioral changes.
- Resolution [2012/13-12](#) – Green Resolution encourages the use of applying passive design and sound environmental standards in the construction and renovation of buildings and campuses through furthering the development of sustainable building criteria to ensure that every major capital project: meets high environmental standards, that reduce operating costs without exceeding project budgets; strives to meet the Living Building Challenge; employs the use of an eco-charette to identify and develop a range of sustainable building strategies in concert with SPS building criteria; creates visual teaching points in school facilities to support green policies and practices; emphasizes native and draught resistant plants; applies sustainable strategies when making improvements to existing buildings; and, pursues outside funding partners and leverages available incentive programs.

When reviewing the District's existing policy, superintendent's procedures and resolutions with the BEX/BTA Oversight Committee October 2019 they noted that these documents provide sufficient clear direction for Capital Projects and Planning. Many of the expressed goals had been accomplished with recent projects implemented as part of either the Building Excellence (BEX) IV or Building, Technology and Academics (BTA) IV capital levies as demonstrated by the measurement and verification analysis performed by Hargis Engineers in 2018 and presented to the BEX/BTA Oversight Committee January 2019 concerning Arbor Heights ES, Cascadia ES, Genesee Hill ES, Olympic Hills ES, Thornton Creek ES, and Hazel Wolf K-8 which documented sustainable measure employed and an energy use index (EUI) in the low 20's or upper teens when most new elementary schools throughout western Washington have an EUI in the high 30's or low 40's. In addition, Hargis Engineers provided an analysis of greenhouse gas emissions noting that those schools (Arbor Heights ES and Genesee Hill ES) that relied upon natural gas in lieu of electricity for their heating plant, produced in excess of six time the amount of greenhouse gas as an all-electric school (Olympic Hills ES). The current policy, superintendent's procedure and resolutions establish aspirational goals, however, are silent on fuel selection. Schools operating natural gas for their heating plant are approximately \$18,000/year less expensive to operate than all-electric schools.



H A R G I S

BEX IV Projects

**Measurement and Verification Analysis
Final Results**

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Green Associate
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michael.baranick@hargis.biz

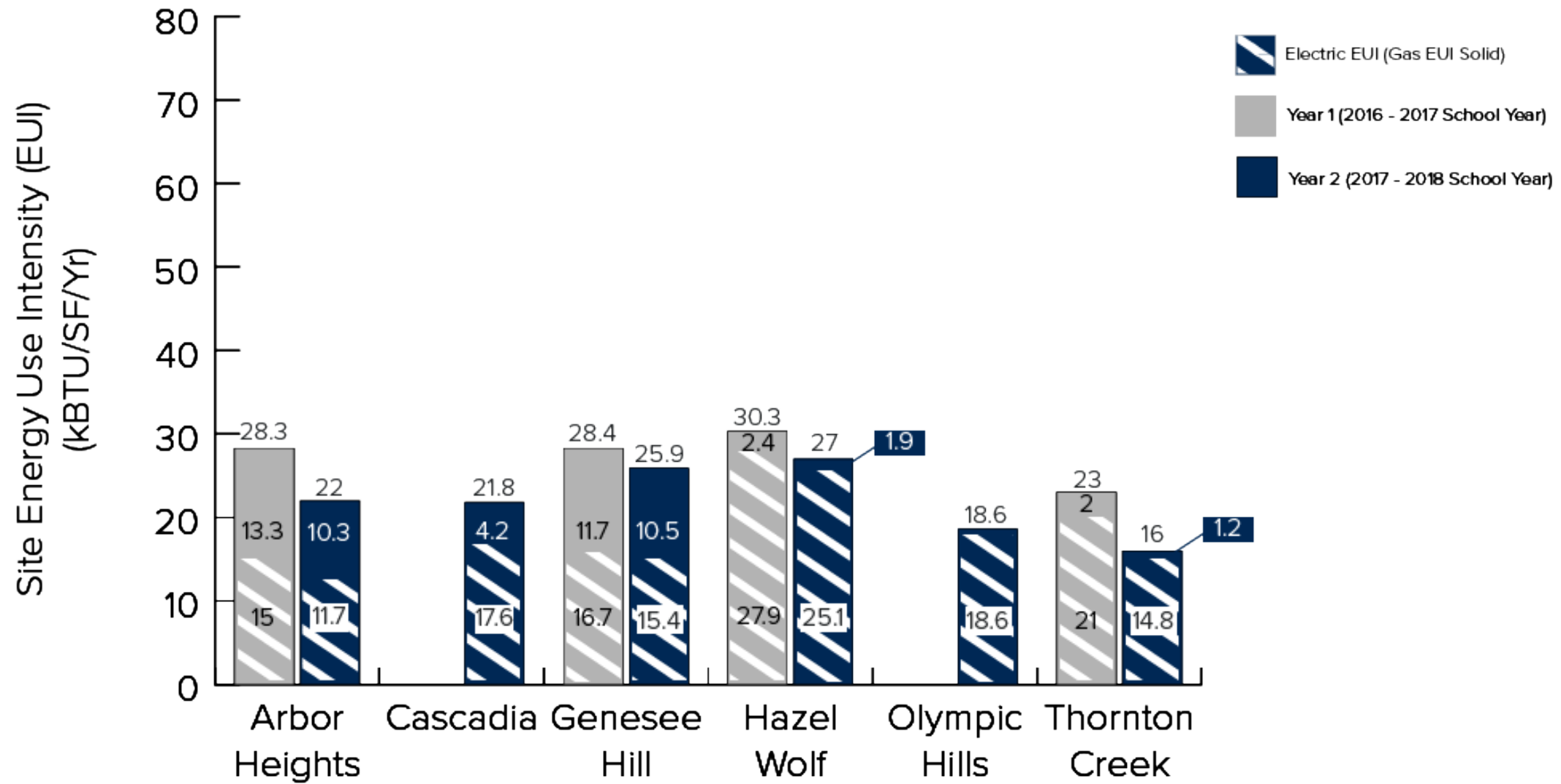
- Identify and better understand which schools are operating most effectively, both from an energy and total cost of ownership (TCO) perspective
- Apply lessons learned from BEX IV projects to inform discussions for future BEX V projects
- Schools evaluated: Arbor Heights ES, Cascadia ES, Genesee Hill ES, Hazel Wolf K-8, Olympic Hills ES, and Thornton Creek ES (partial analysis of E.C. Hughes & Loyal Heights ES)

- Data Collection and synthesis*
 - Key factors for each school (e.g. envelope, HVAC, lighting, controls, project team, known operational issues, hours of operation)
 - Monthly utility bills (worked with SCL/PSE to back-check data and correct issues)
 - Electrical sub-metering
 - Trending of control system
 - Envelope characteristics for each classroom
 - Site observations
- Analysis*
 - Energy & costs
 - Carbon
 - Sub-metering
 - Envelope
 - Total Cost of Ownership
- Recommendations

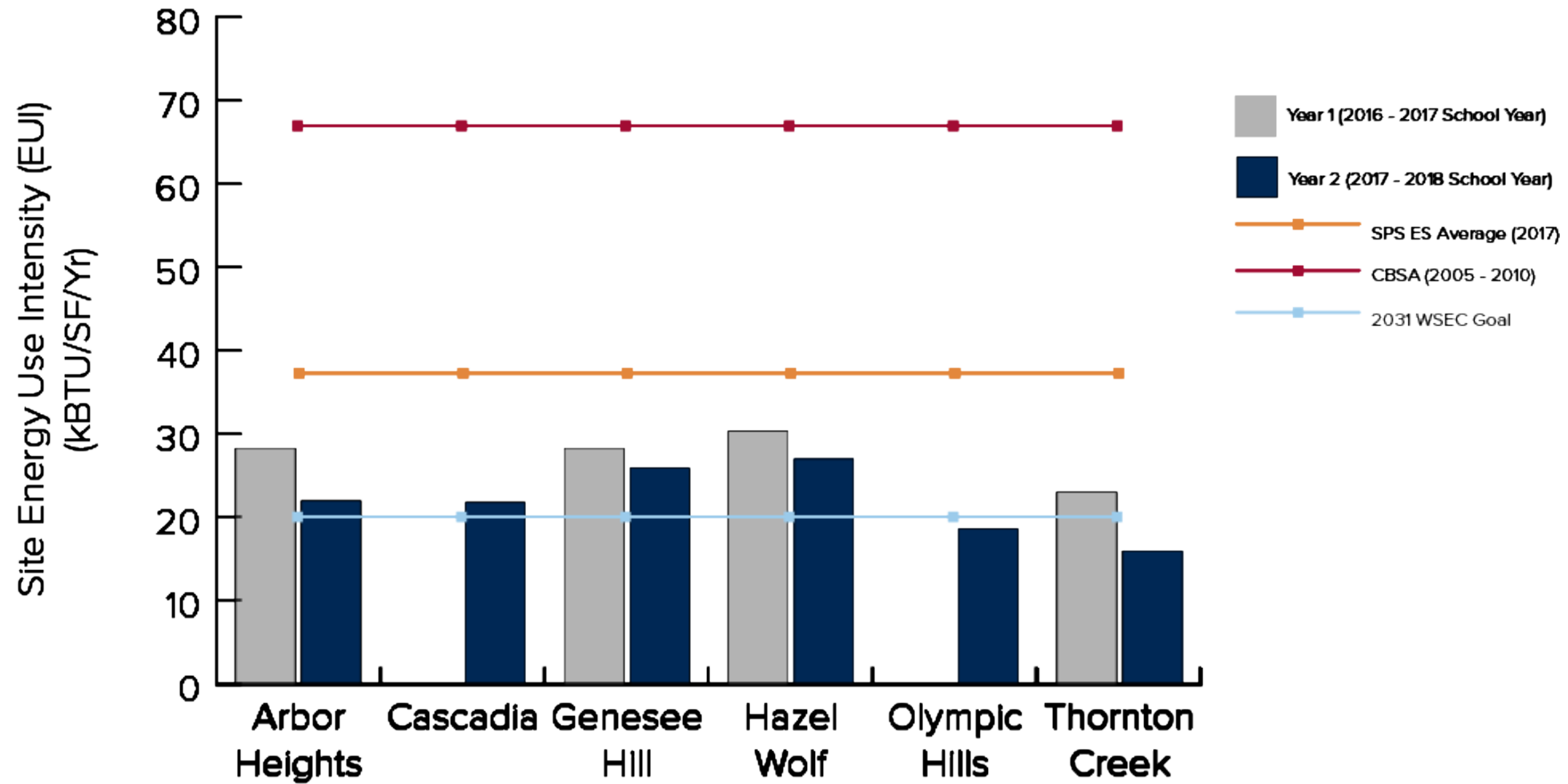
*All information has been consolidated into Tableau, a *dynamic* data visualization tool that can summarize and visualize large quantities of data



Energy Performance



Energy Performance



Energy Performance

Schools performing as predicted based on HVAC system type, with exception to Hazel Wolf K-8



Genesee Hill ES

- ▶ Traditional heating plant (condensing boiler)
- ▶ Centralized VAV-AHUs (medium pressure system)



Arbor Heights ES

- ▶ Traditional heating plant (condensing boiler)
- ▶ Decentralized FCUs (low pressure system)



Cascadia ES*

- ▶ Hybrid System (heat pump chiller/ condensing boiler)
- ▶ Decentralized FCUs (low pressure system)



Olympic Hills ES*

- ▶ Hybrid System (ground source / electric boiler)
- ▶ Decentralized WSHPs (low pressure system)



Thornton Creek ES* / Hazel Wolf K-8*

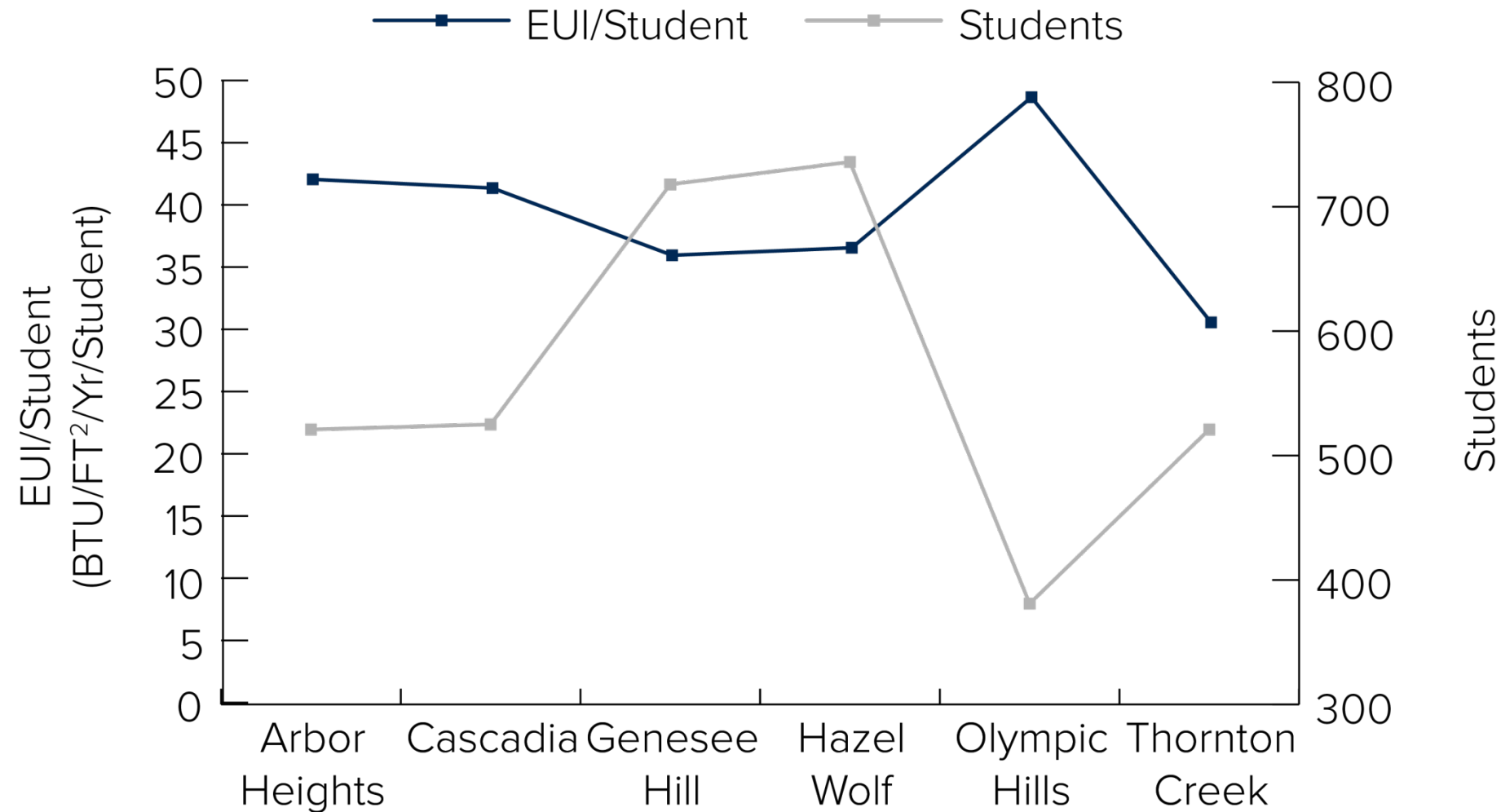
- ▶ Hybrid System (ground source / electric boiler)
- ▶ Decentralized WSHPs (low pressure system)
- ▶ Energy Recovery



*School has full mechanical cooling



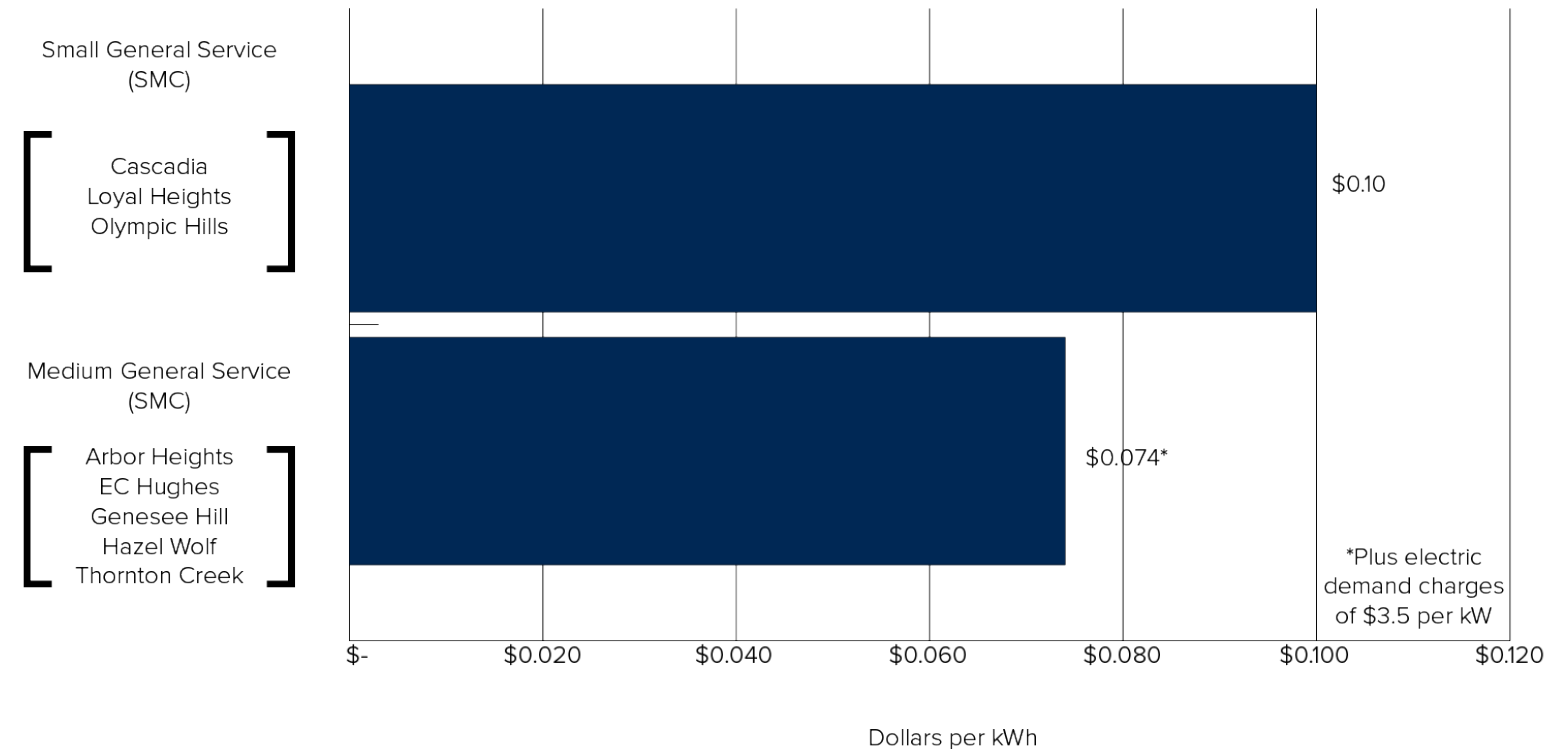
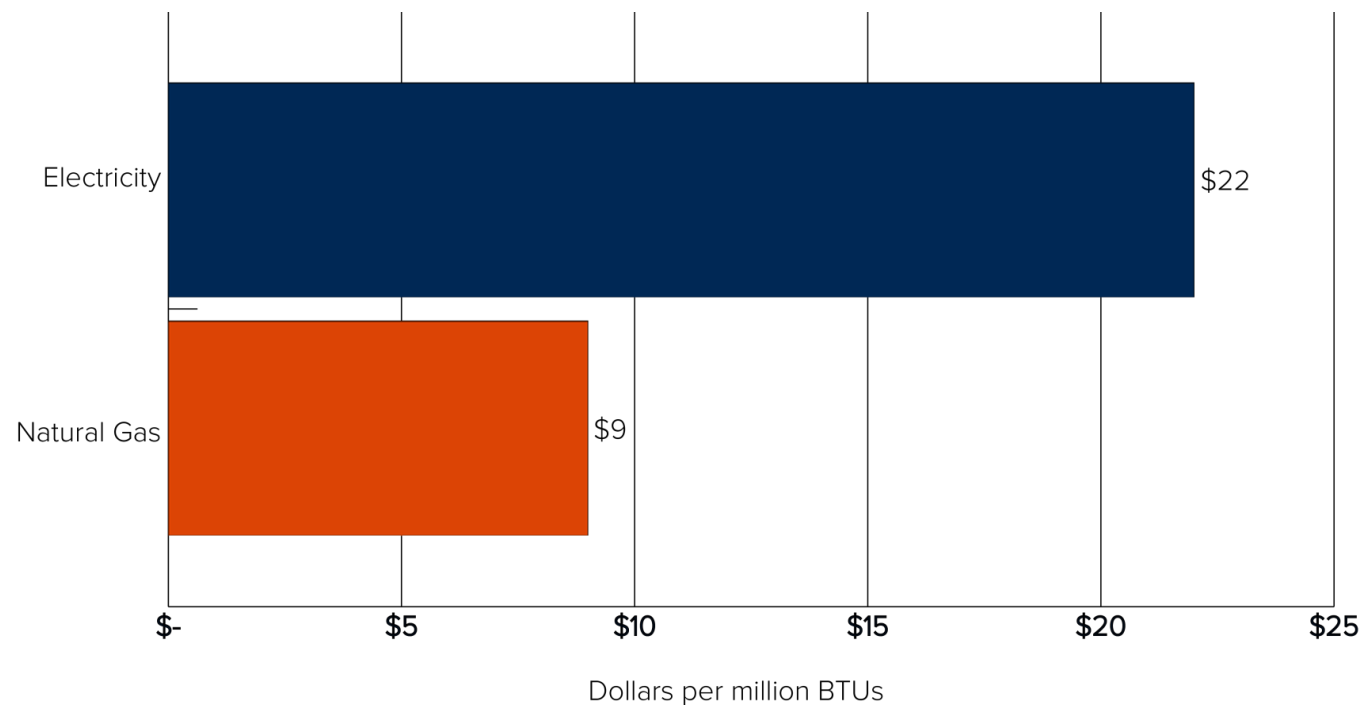
Energy Performance



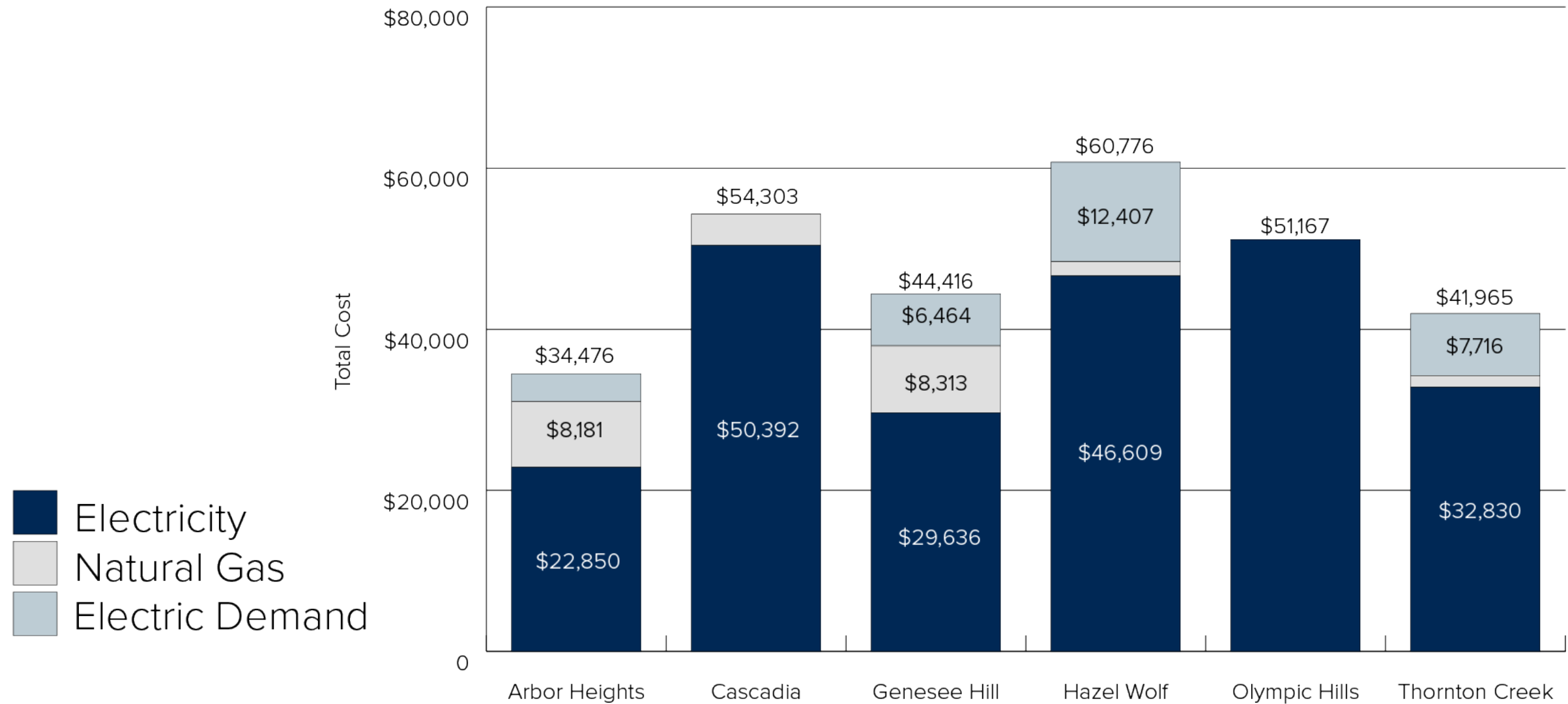
- Schools with longer operating hours will consume more energy
- Occupancy rates will increase energy consumption, primarily as a result of increased ventilation airflow and plug loads

Utility Costs

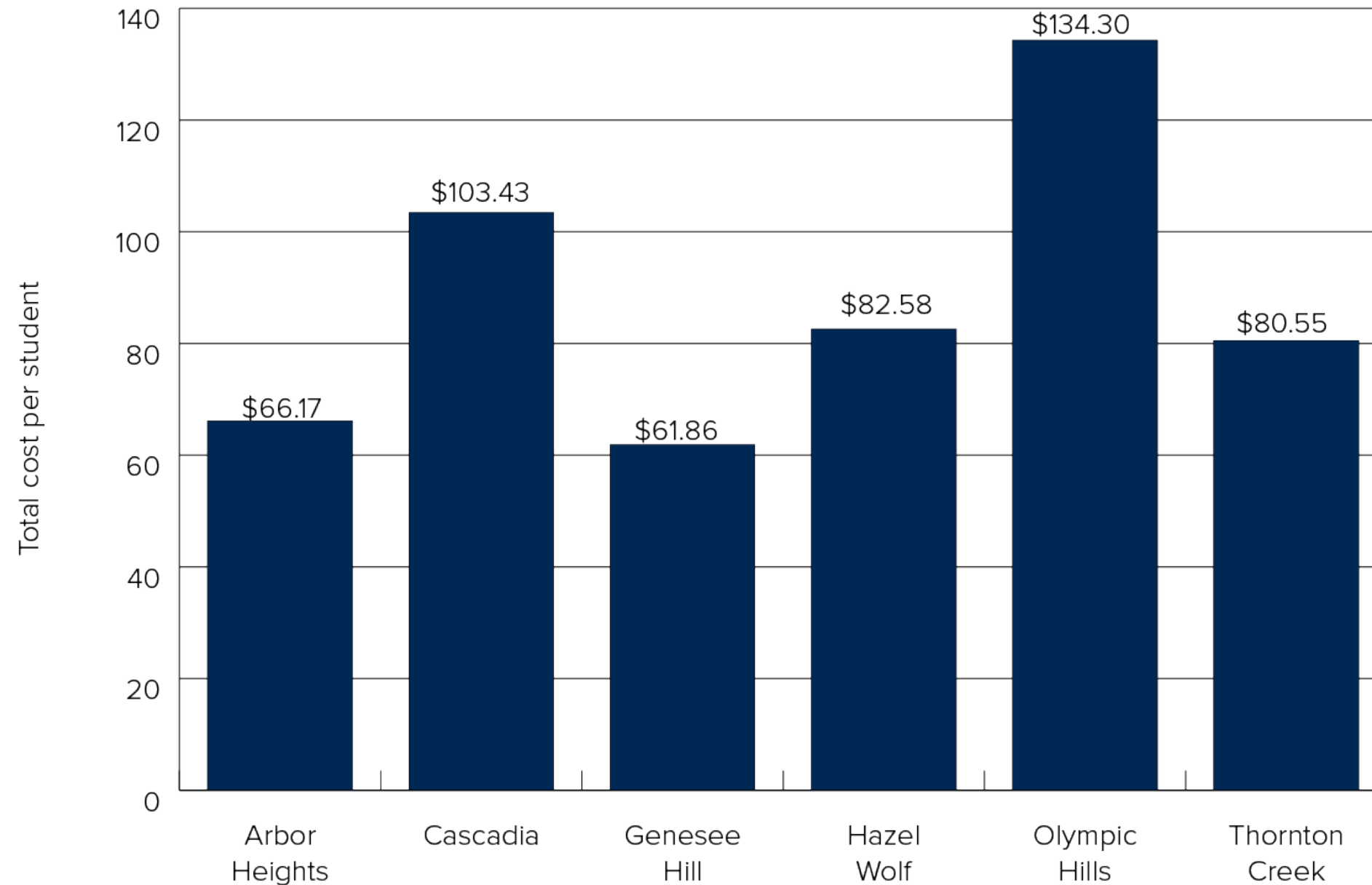
- Natural gas is inexpensive
- Schools utilizing natural gas as the primary heating source have the lowest operating cost potential based on current utility rates
- Electric rate schedule significantly impacts costs



Utility Costs



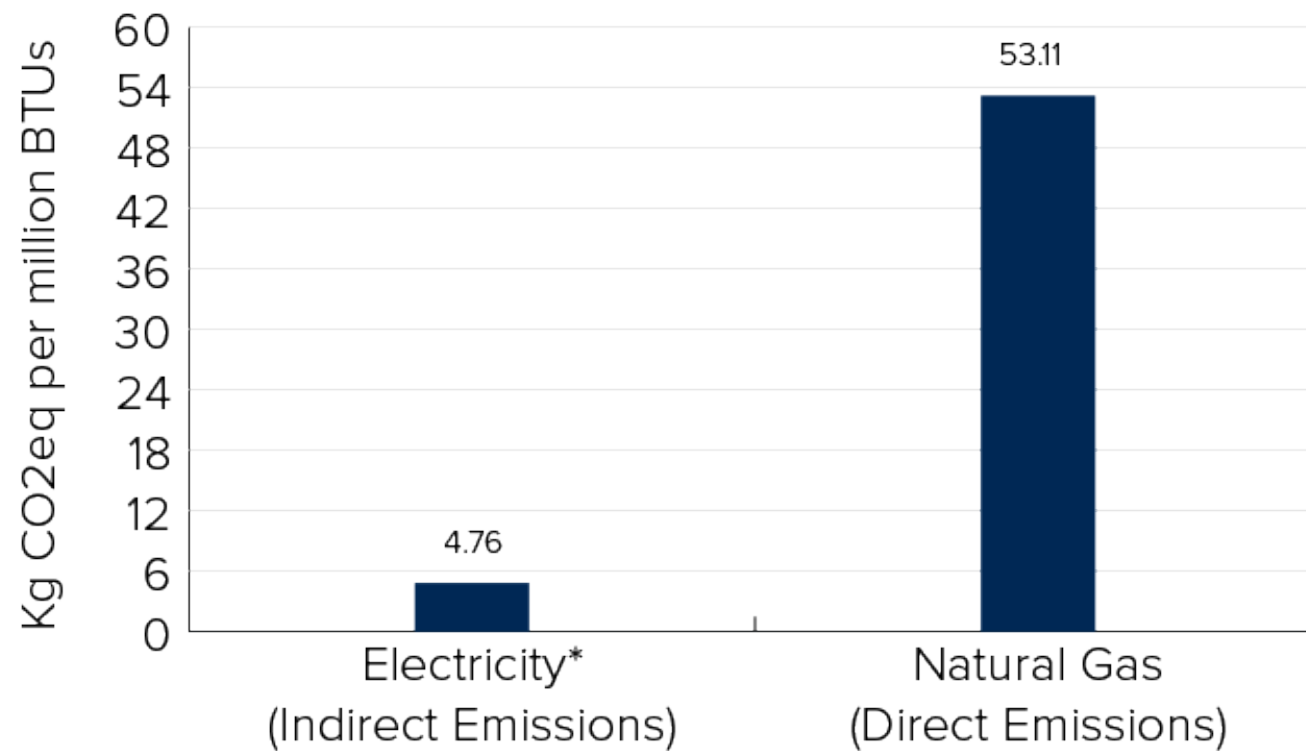
Utility Costs Per Student



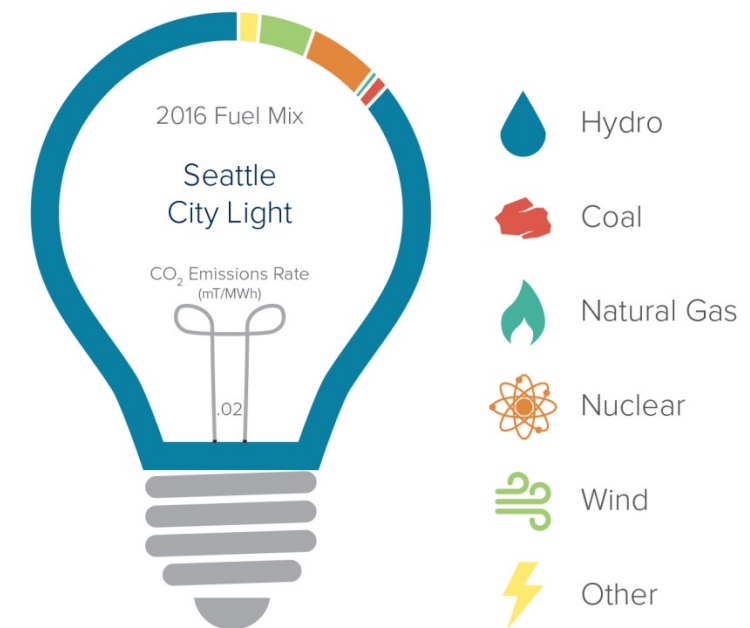
Greenhouse Gas Emissions

Greenhouse gas (GHG) emissions heavily dependent on:

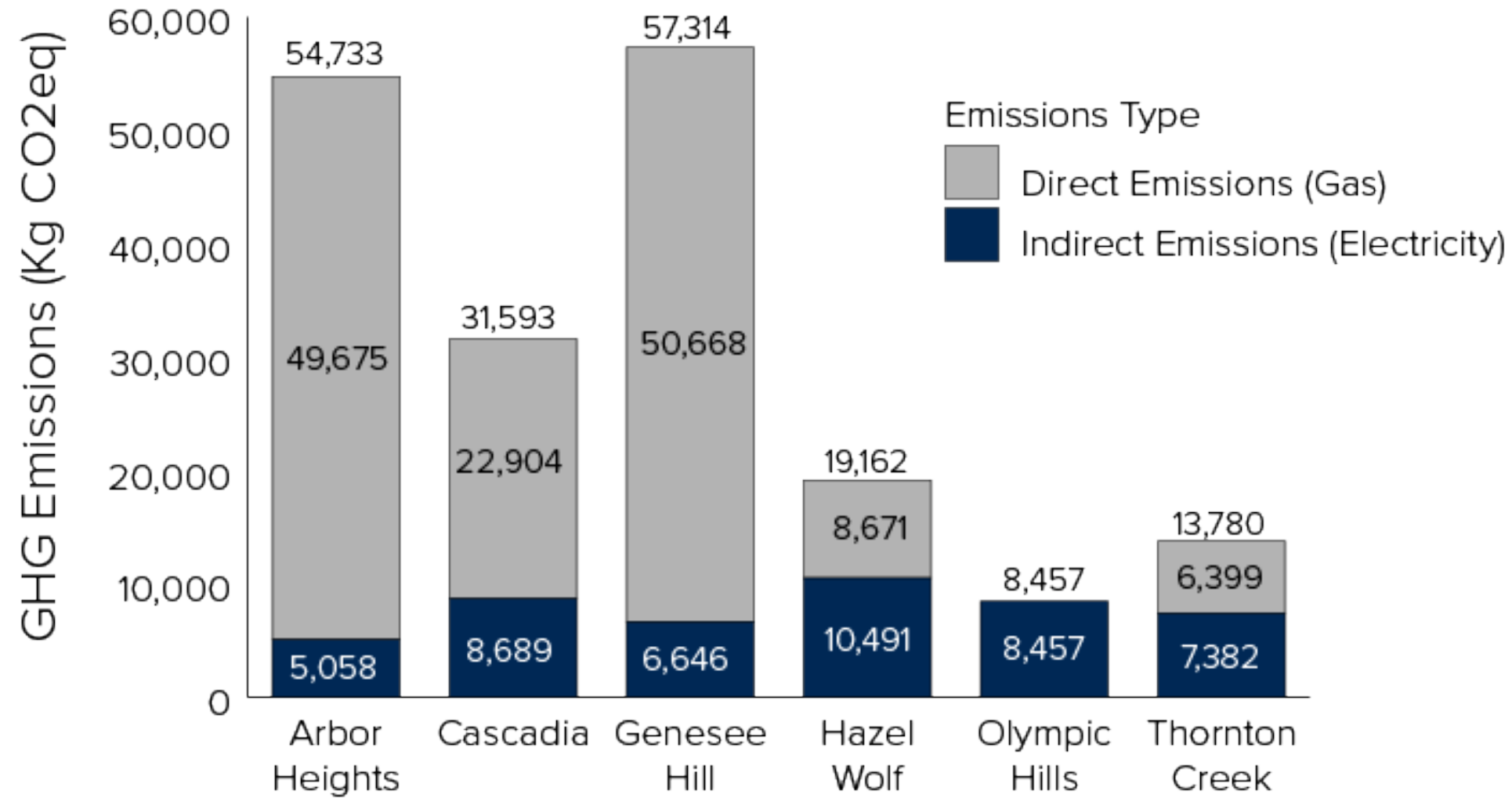
- Energy consumption (EUI)
- Fuel mix (electricity vs. natural gas)
- Emissions factor utilized for electricity consumption



*Seattle City Light's 2016 Emissions Rate.
For comparison, regional rate is 87.13



Greenhouse Gas Emissions

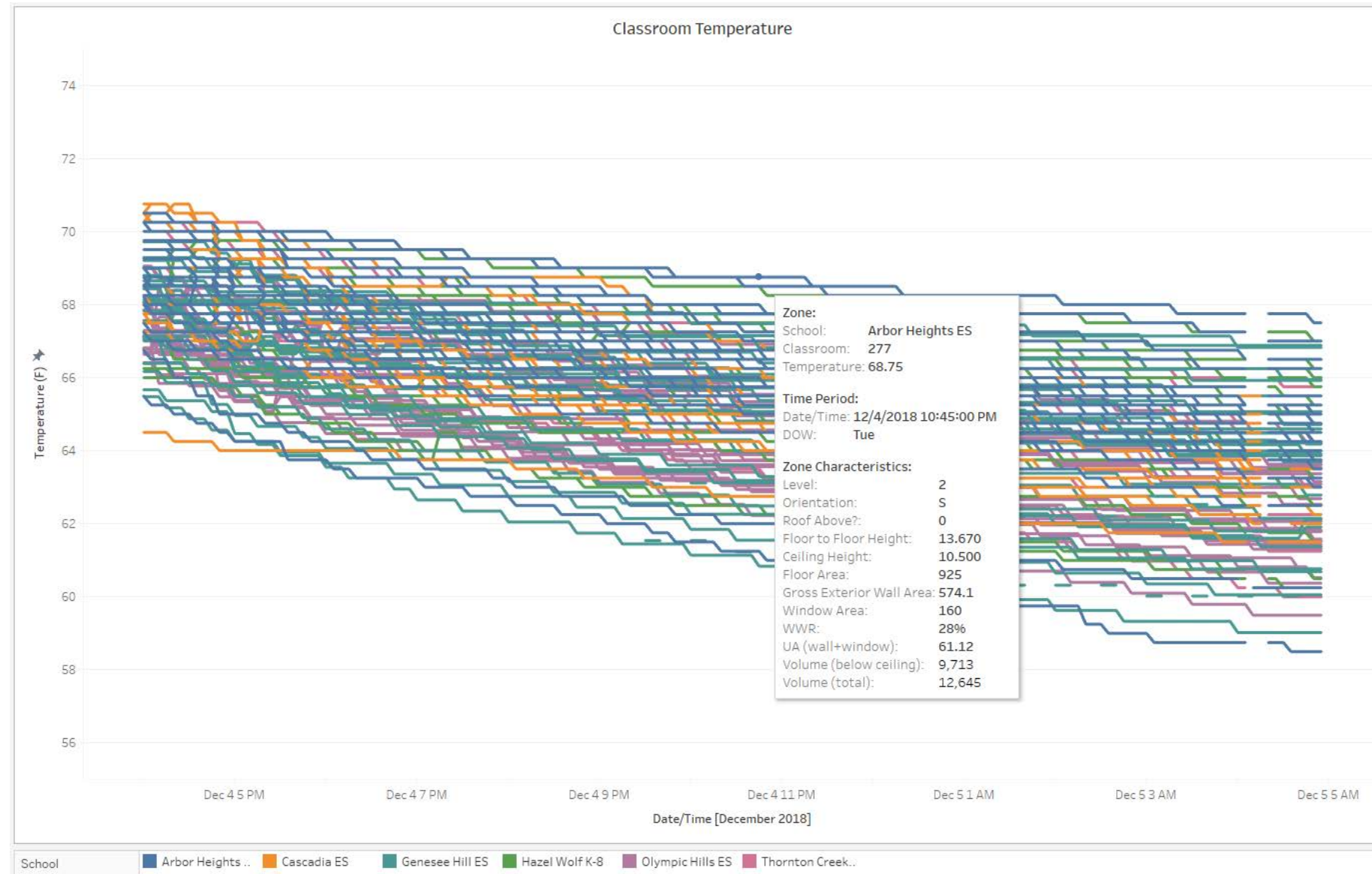


Building Envelope

- Difficult to analyze envelope performance given the large number of variables between schools
- **Solution:** A test was conducted to evaluate the temperature drop in classroom zones on a cold winter evening during a 12-hour unoccupied period
- smaller temperature variance indicates a better performing envelope



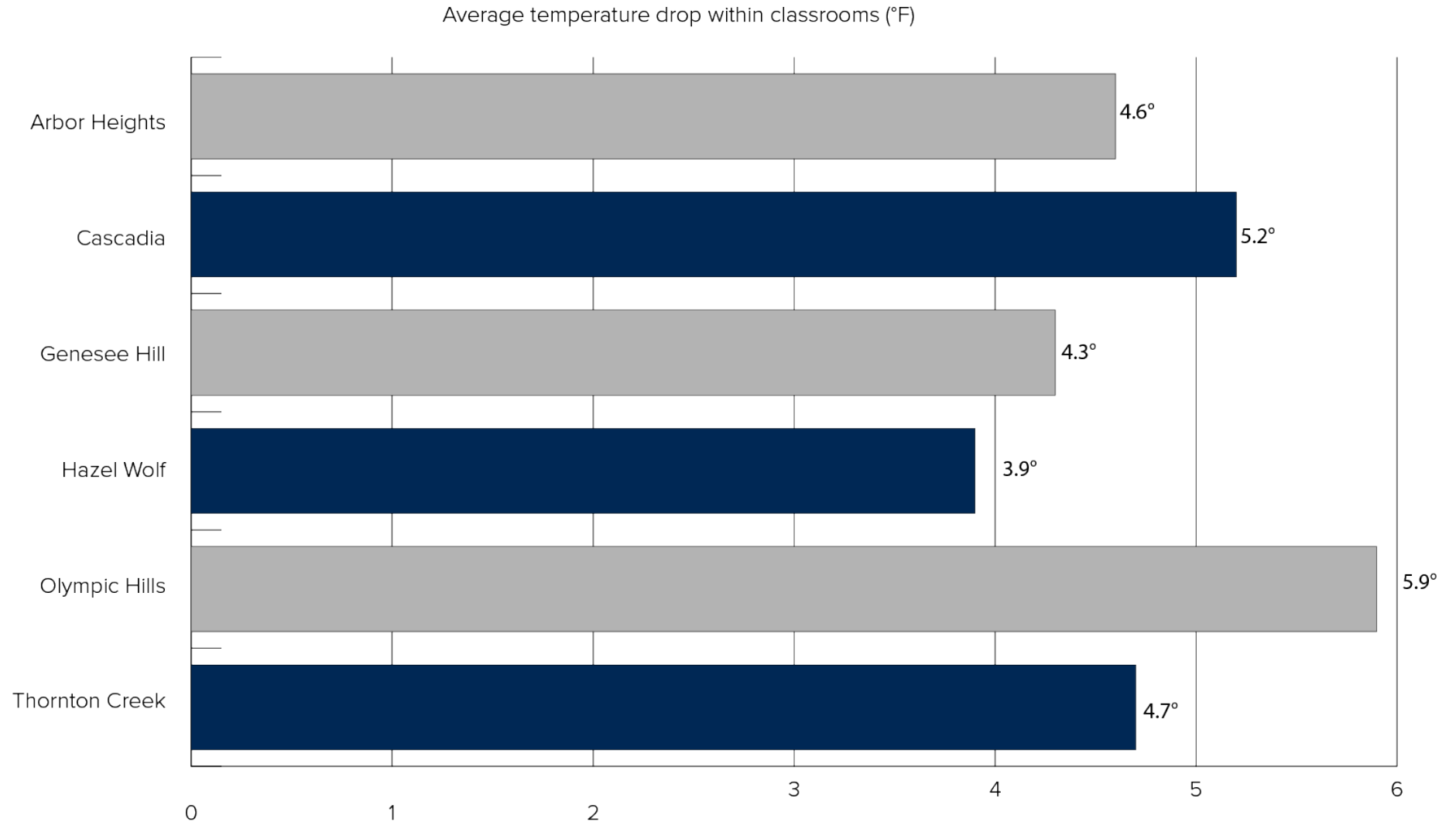
Building Envelope



Building Envelope

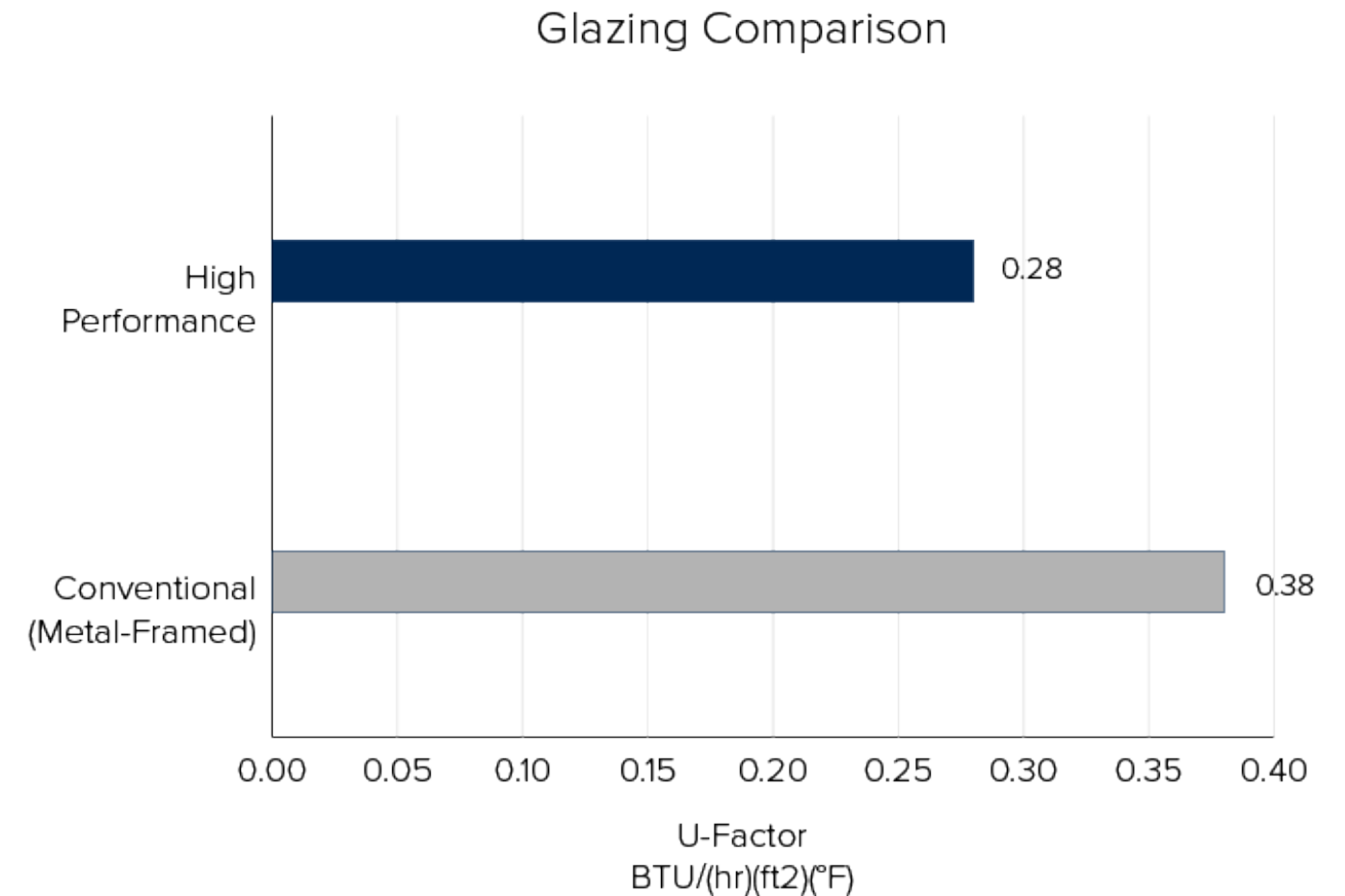
Results: Envelope systems in ALL schools are performing very well

Classrooms averaged only a **5°F temperature drop**, even with outside air temperatures approaching 30°F



Building Envelope

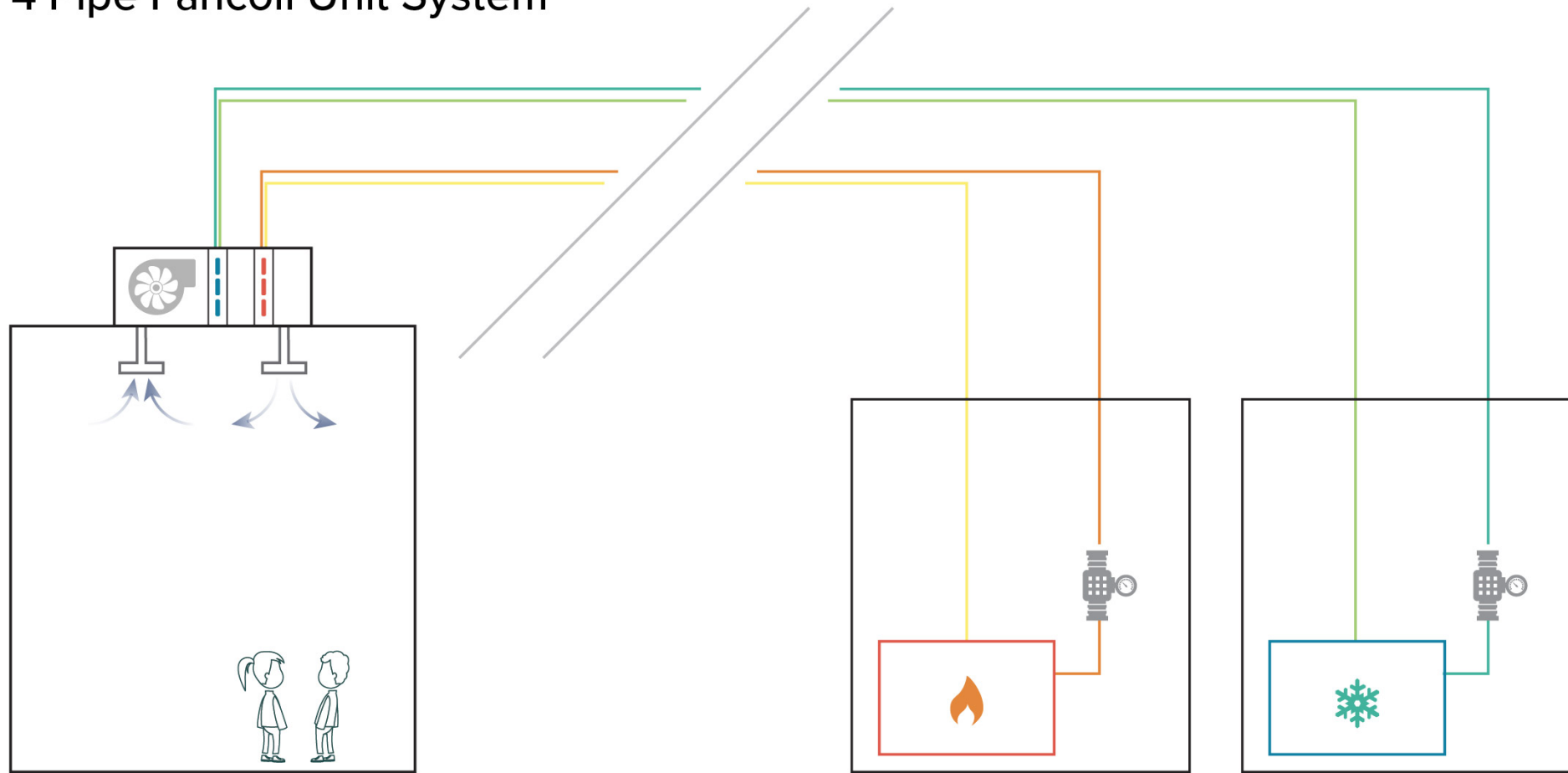
- A few correlations were observed:
 - Schools with high-performance glazing outperformed those without (on average);
 - High-performance glazing offers ~35% less heat transfer
 - Schools with spray foam insulation outperformed those without (on average)
- All construction types are yielding tight construction; small improvements in air leakage test results did not correlate to reduced heat loss



- Due to differences between schools, a direct comparison of Total Cost of Ownership (TCO) is not valid
- Therefore, a TCO comparison of four system types endorsed by SPS was completed for a theoretical 100,000 ft² elementary school

System Types - Schematics

System 1
4 Pipe Fancoil Unit System



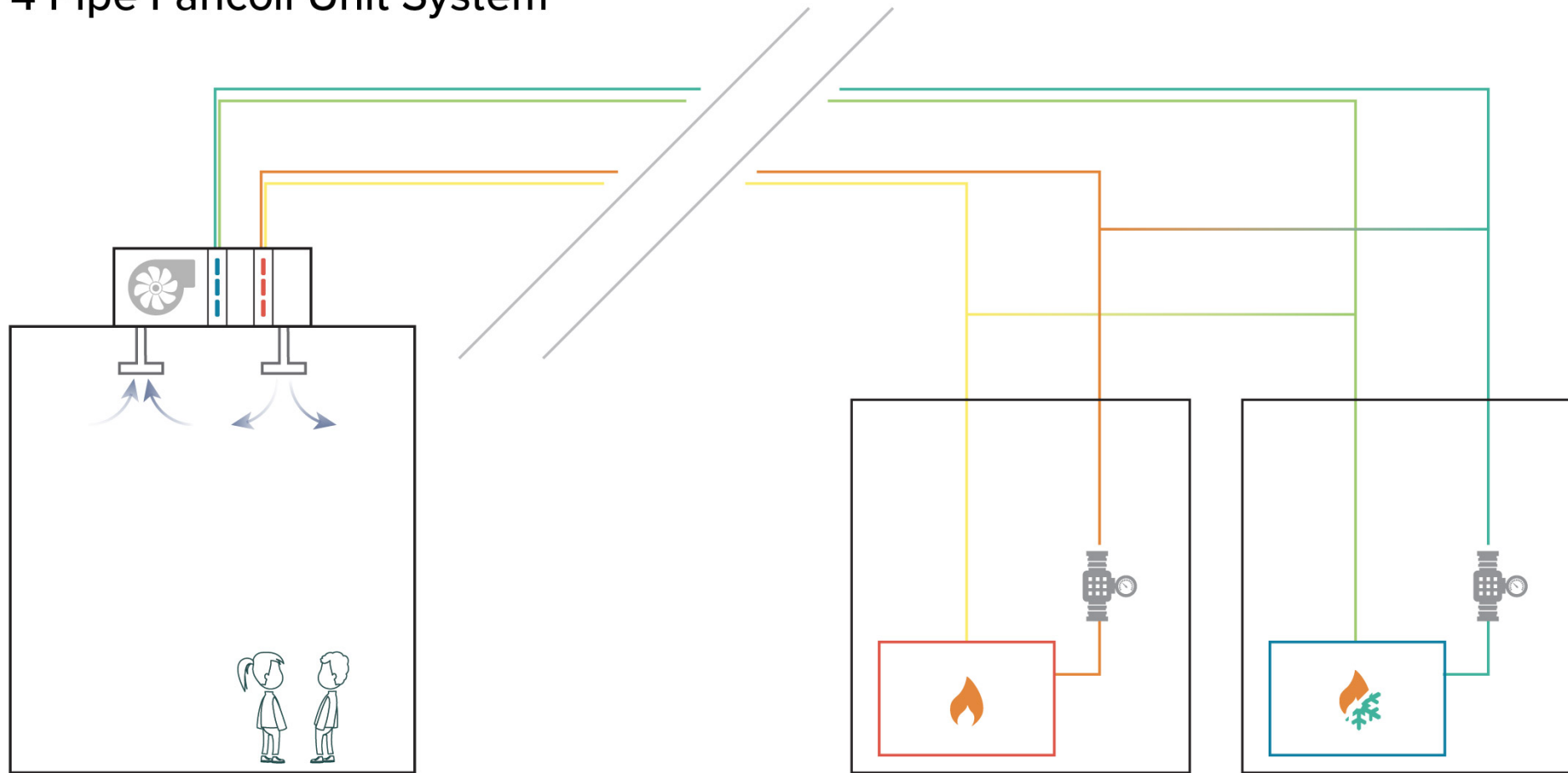
Four-pipe fan coil units, boiler, air chilled cooler

equipped with VAV-DOAS with energy recovery

representative School: Heights

System Types - Schematics

System 2
4 Pipe Fancoil Unit System

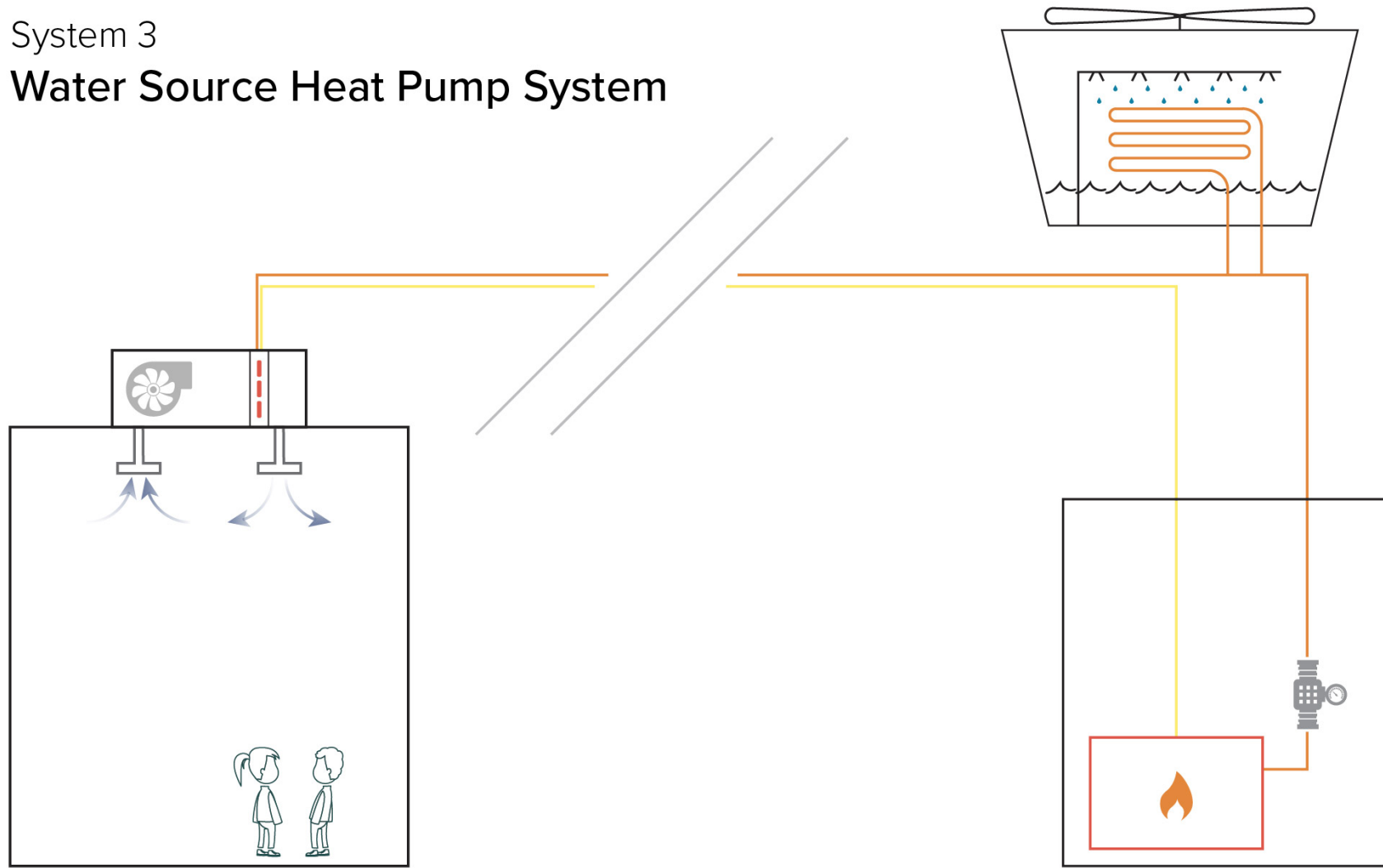


Four-pipe fan coil units, heat pump chiller, back-up boiler
Coupled with VAV-DOAS with energy recovery

Representative School:
Cascadia

System Types - Schematics

System 3
Water Source Heat Pump System

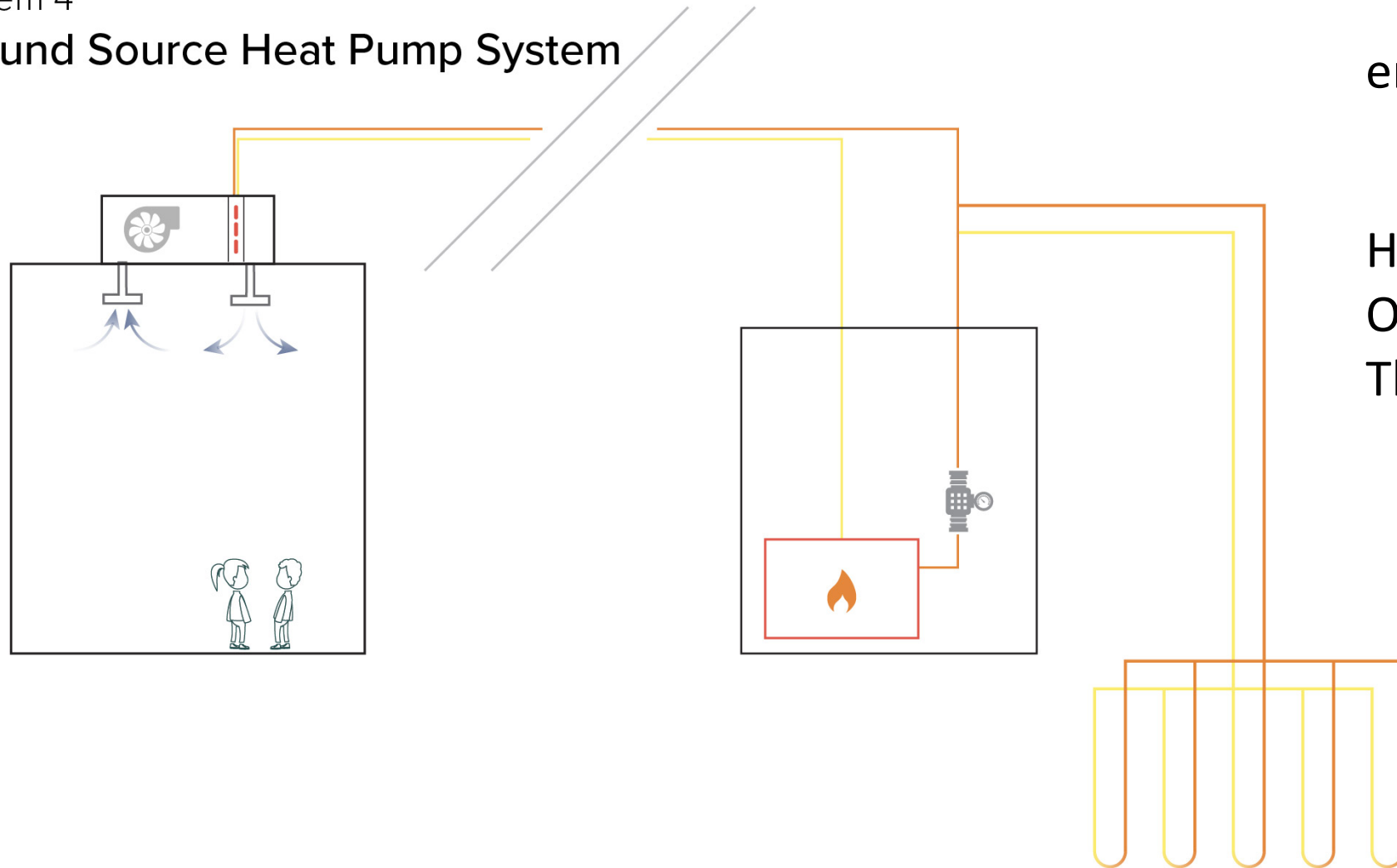


Two-pipe water-source heat pumps (distributed), boiler, fluid cooler
with VAV-DOAS with
recovery

Intuitive School: N/A

System Types - Schematics

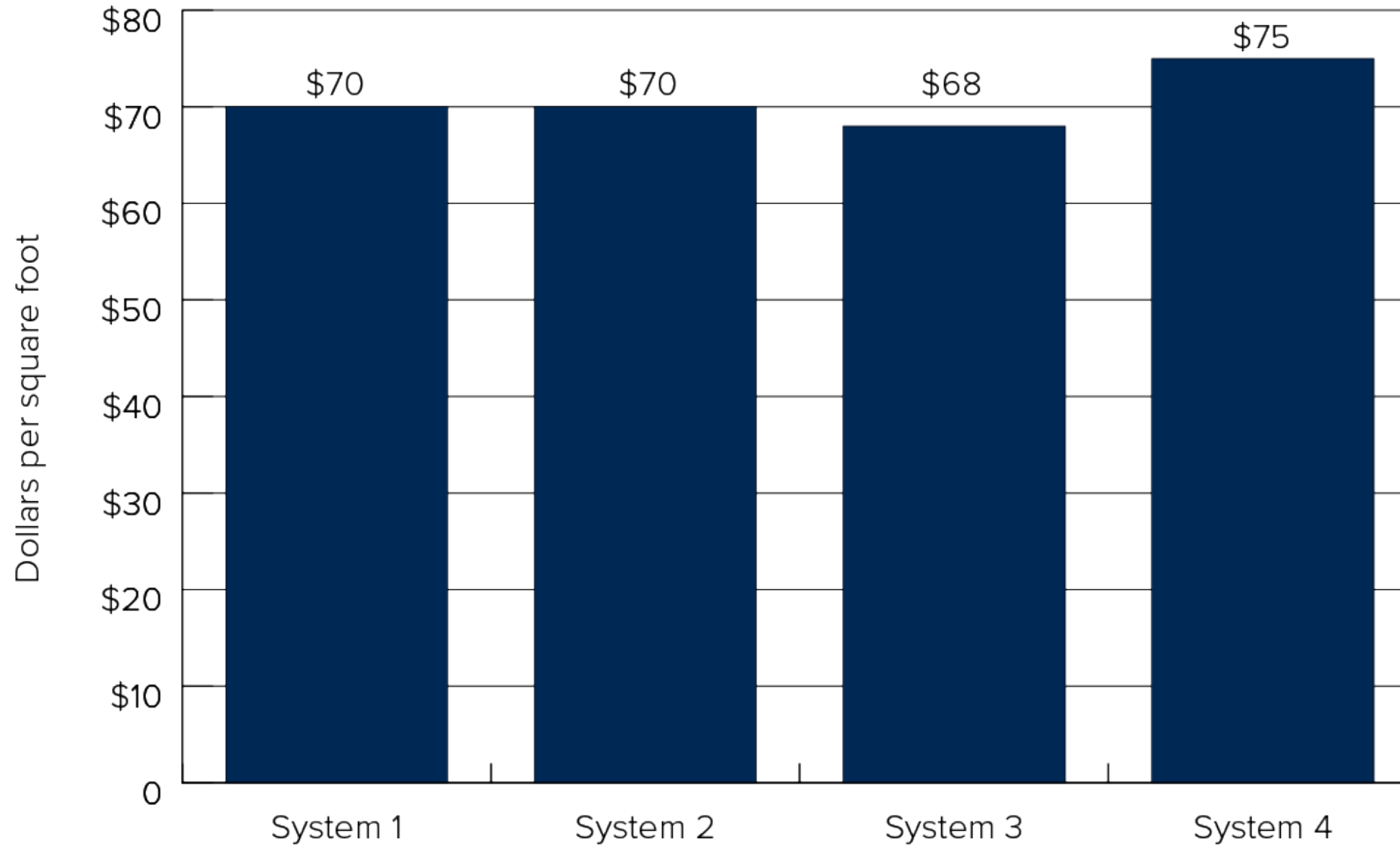
System 4
Ground Source Heat Pump System



Two-pipe water-source heat pumps
(distributed), hybrid ground source with
back-up boiler
with VAV-DOAS with
energy recovery

tative School:
Hazel Wolf
Olympic Hills
Thornton Creek

First Cost



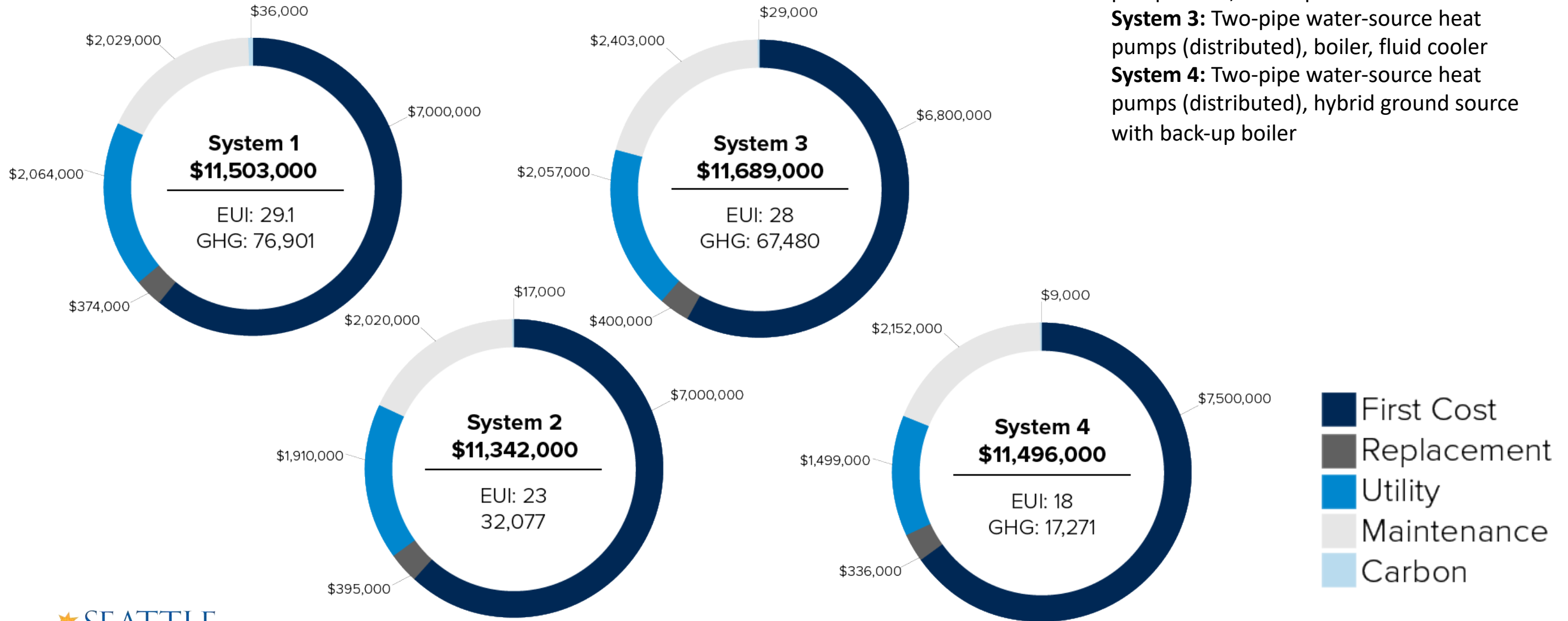
50-Year Life Cycle Cost

System 1: Four-pipe fan coil units, boiler, air cooled chiller

System 2: Four-pipe fan coil units, heat pump chiller, back-up boiler

System 3: Two-pipe water-source heat pumps (distributed), boiler, fluid cooler

System 4: Two-pipe water-source heat pumps (distributed), hybrid ground source with back-up boiler



Trending – Consideration for Future Projects

- The 2030 Challenge promotes no fossil fuel GHG-emitting energy to operate
- City of Seattle’s Climate Action Plan goal of carbon neutrality by 2050
- Governor Inslee’s executive order (18-01) requiring all state-owned buildings to be designed for net-zero energy
- Future carbon tax should be considered when evaluating fuel source options
- Utility escalations are volatile, especially for natural gas (per OFM ELCCA tool)

Stewards of Public Funding

- **Identify Priorities and Set Goals**
 - Energy efficiency vs. operating costs vs. GHG emissions
 - First costs vs. life cycle costs
 - Net-zero energy
 - Stipulate a required EUI during RFP process
 - All of the above?

Design Strategies

- Sequencing
- Envelope
- HVAC
- Lighting
- Plug Loads
- HVAC Controls
- Renewables
- Energy Code Compliance



Operational Strategies

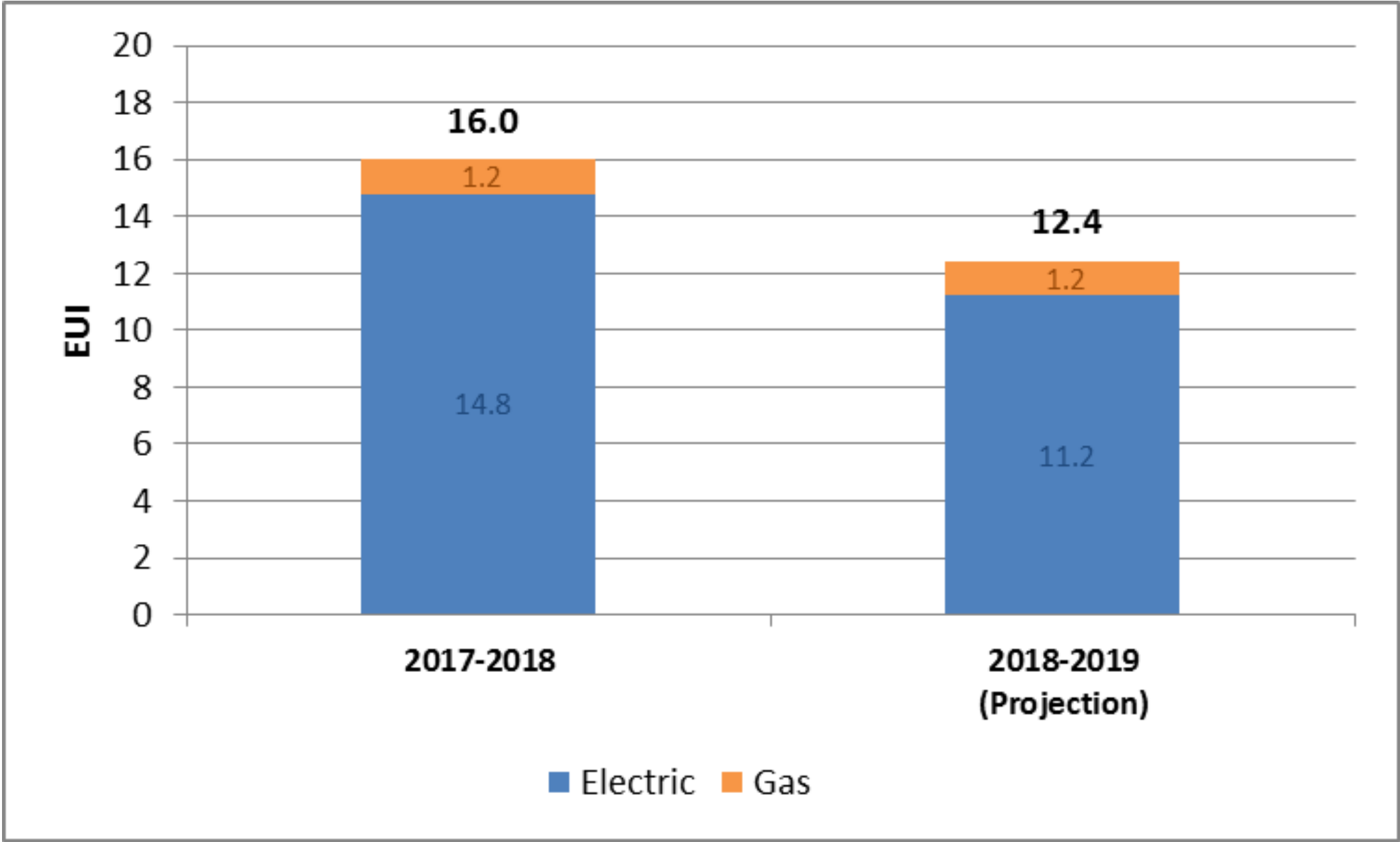
- **Commissioning (Cx)**
 - Consider (2) periods, one in winter and one in summer
- **Measurement and verification (M&V)**
 - Integrate M&V into the Cx process to help reduce ‘burn-in’ period
 - Provide an as-built energy model that can be used to compare predicted vs. operating performance
- **System Training**
 - Develop training for end-users
 - Provide training to custodians to avoid ‘all-on’ system operation
- **Resource Conservation Managers (RCM)**
 - Develop tools to help RCMs evaluate ongoing building performance
 - Evaluate success of existing Shared Savings program; adjust based on user feedback
 - Identify green team at each site to help spearhead conservation

Path to Net-Zero Energy



**Current
Performance**

+

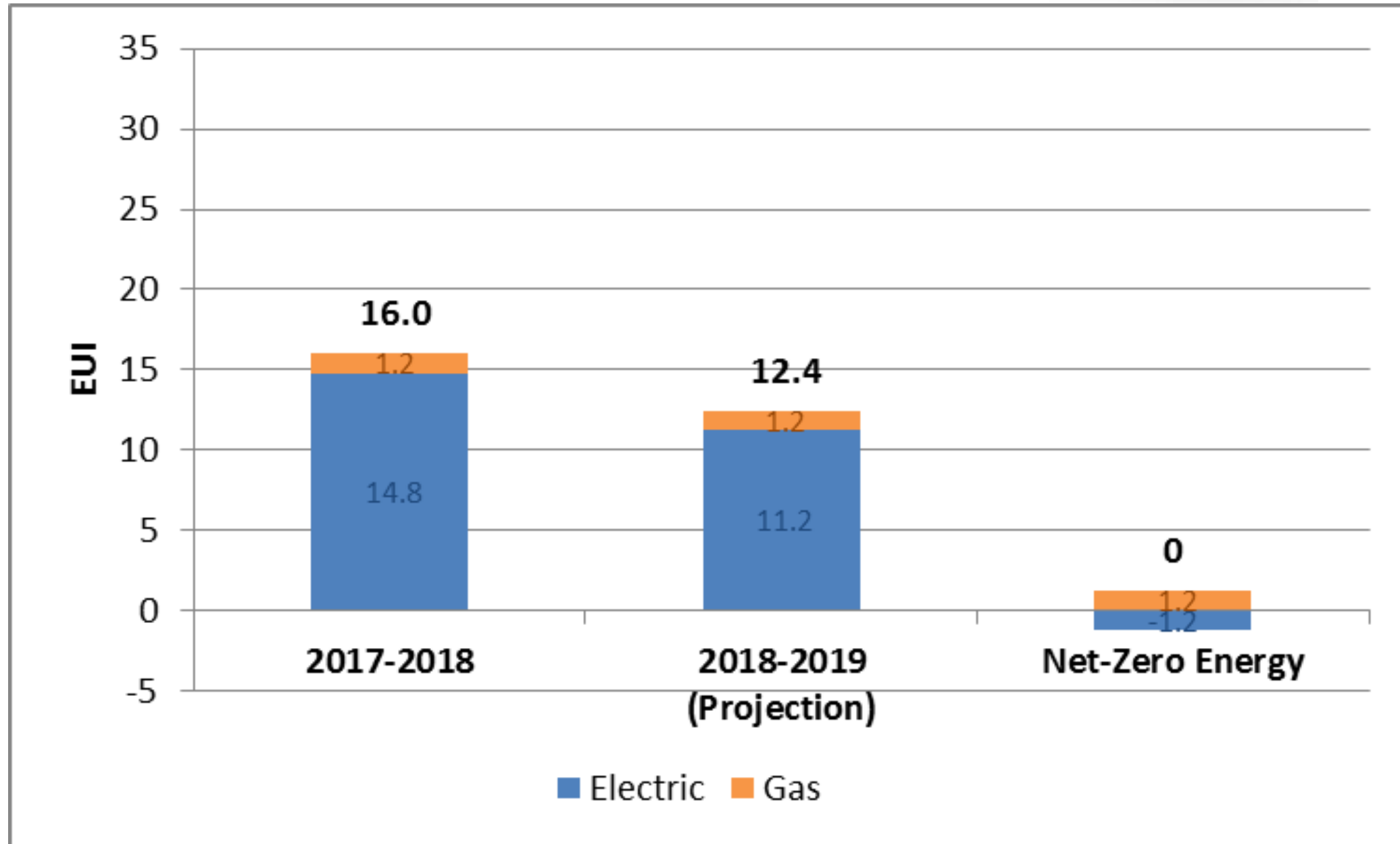


Current Performance

+



+



DRAFT BEX V CAPITAL LEVY IMPLEMENTATION PLAN

BEX IV CAPITAL LEVY		BEX V CAPITAL LEVY (2020-2025)							BEX VI CAPITAL LEVY			
School Type	Estimated School Year of Major Project Opening											
	2018 19	2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27	2027 28	2028 29	
Elementary Schools (K-5)	Loyal Heights Capacity = 660 Modernization/Addition BEX IV 360 <i>Current Capacity 300</i>	Magnolia (Phase I) Capacity = 396 Modernization/Addition BTA IV 396 <i>Current Capacity 0</i> <i>Daniel Bagley Const.</i> <i>Magnolia Phase II Construction</i>	Daniel Bagley Capacity = 503 Modernization/Addition BEX IV 150 <i>Current Capacity 353</i>	Magnolia (Phase II)* Capacity = 460 Addition (6 Classrooms) State Distressed School Fund 64 <i>Current Capacity 396</i> <i>Viewlands Const. (Interim John Marshall)</i> <i>John Rogers Design/ Planning</i>			Viewlands Capacity = 650 New Replacement State Distressed School Fund/BEX V 450 <i>Current Capacity 200</i> <i>Sacajawea Design/ Planning</i> <i>John Rogers Const. (Interim John Marshall)</i>		John Rogers Capacity = 500 New Replacement State Distressed School Fund/BEX V 236 <i>Current Capacity 264</i> <i>If Approved for BTA V - Sacajawea Const.</i>		Sacajawea Capacity = 500 New Replacement BEX V Design Only 280 <i>Current Capacity 220</i>	
		Queen Anne Capacity = 500 Addition (8 Classrooms) BEX IV 170 <i>Current Capacity 330</i> <i>Wing Luke Construction</i>		Wing Luke Capacity = 500 New Replacement BEX IV 180 <i>Current Capacity 320</i> <i>N. Queen Anne Design/ Planning</i> <i>Northgate Design/ Planning</i>	Frantz H. Coe* Capacity = 550 Addition (6 Classrooms) State Distressed School Fund 132 <i>Current Capacity 418</i> <i>F. Coe Construction</i>	North Queen Anne Modernization BTA IV/BEX V 0 <i>Current Capacity 320</i> <i>N. Queen Anne Const.</i> <i>Northgate Const. (Phased Replacement)</i>	Northgate Capacity = 650 On Site Replacement BEX V 430 <i>Current Capacity 220</i> <i>Montlake Design/ Planning</i> <i>Montlake Const. (Interim John Marshall)</i>		Montlake Capacity = 500 Modernization/Addition BEX V 346 <i>Current Capacity 154</i> <i>Alki Const. (Interim Schmitz Park)</i>			
		E. C. Hughes Capacity = 260 Modernization/Addition BTA IV 0 <i>Current Capacity 260</i> <i>West Seattle Design/ Planning</i> <i>Kimball Design/ Planning</i> <i>W. Woodland Design</i>	Webster K-5 Capacity = 375 Modernization/Addition BTA IV 375 <i>Current Capacity 0</i> <i>W. Woodland Const.</i>	West Woodland Capacity = 620 Addition (12 Classrooms) Distressed School/BEX V/CSR 224 <i>Current Capacity 396</i> <i>West Seattle ES Const.</i> <i>Kimball Const. (Interim Orig. Van Asselt)</i> <i>Alki Design/ Planning</i>	West Seattle Elementary Capacity = 500 Addition (8 Classrooms) BEX V 180 <i>Current Capacity 320</i> <i>Alki Const. (Interim Schmitz Park)</i>		Kimball Capacity = 650 New Replacement BEX V 290 <i>Current Capacity 360</i>		Alki Capacity = 500 New Replacement BEX V 170 <i>Current Capacity 330</i>			
							Original Van Asselt Capacity = 1,000 30 Classroom Addition BEX V Interim Site Expansion <i>Orig. Van Asselt Design/ Planning</i> <i>Orig. Van Asselt Constuction</i> <i>Asa Mercer Design/ Planning</i> <i>Asa Mercer Construction (Interim OVA)</i>		Asa Mercer Capacity = 1,000 New Replacement BEX V 208 <i>Current Capacity 792</i> <i>If Approved for BTA V - Aki Kurose Const. (Interim OVA)</i>		Aki Kurose Capacity = 1,000 Modernization BEX V Design Only 132 <i>Current Capacity 868</i>	
			Ingraham Capacity = 1,696 Addition (20 classrooms) BTA IV 500 <i>Current Capacity 1,196</i> <i>Rainier Beach Design/ Planning</i>				Rainier Beach (Phase I) Capacity = 1,600 On Site Replacement BEX V 512 <i>Current Capacity 1088</i> <i>Rainier Beach Construction (Phased On Site)</i>	Rainier Beach (Phase II) Capacity = 1,600 On Site Replacement BEX V 512 <i>Current Capacity 1088</i>	Rainier Beach (Phase III) Capacity = 1,600 On Site Replacement BEX V 512 <i>Current Capacity 1088</i>			
		Lincoln Capacity = 1,600 Modernization/Addition BEX IV 1,600 <i>Current Capacity 0</i> <i>Lincoln Seismic Design/ Planning</i>		Lincoln (Seismic) Capacity = 1,600 Seismic Upgrade BEX V 0 <i>Current Capacity 1600</i> <i>Lincoln Seismic</i>								
Interim Schools	John Marshall	Bagley Middle College	West Woodland Middle College	Viewlands North Queen Anne	Viewlands	John Rogers (350) Montlake (250)		Sacajawea				
	Original Van Asselt	Wing Luke (4 Portables)	Wing Luke (4 portables)	Kimball (8 Portables) Addition for Interim Use		Mercer		Aki Kurose				
	Schmitz Park			West Seattle ES (16 Portables)	Seismic Improvement (BEX V)	Alki (9 Portables)						

Levy Amount: \$1,400,000,000

Elementary Schools (K-5)	
2020 Right Size Capacity	25,717
Right Size Capacity Added by BEX V Projects	2,102

Middle Schools (6-8)	
2020 Right Size Capacity	12,526
Right Sized Capacity Added by BEX V Projects	208

High Schools (9-12)	
2020 Right Size Capacity	13,466
Right Sized Capacity Added by BEX V Projects	512

Key:

School Name*	* Indicates school opening in mid school year (after Winter break)
Project Right Size Capacity	
Scope of Work	
Funding Source	
Added Right Size Capacity	
Current Right Size Capacity	



Draft BEX V Capital Levy Cash Flow

BEX V Implementation Plan

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For questions and more information about this document, please contact the following:

Richard Best
Director, Capital Projects and Planning
rlbest@seattleschools.org

This is a draft spread sheet showing cash flow for the Building Excellence V (BEX V) Capital Levy collection spending on capital projects, including scope of work and year of funding. It also shows the remaining expected expenditures for previous levy funding: Buildings, Technology, and Academics IV (BTA IV) and Building Excellence IV (BEX IV).

