

Post-2028
Perspectives from
Puget Sound
(P³)

Seattle City Light, Tacoma Public Utilities,
and Snohomish PUD

12.14.22

Who We Are

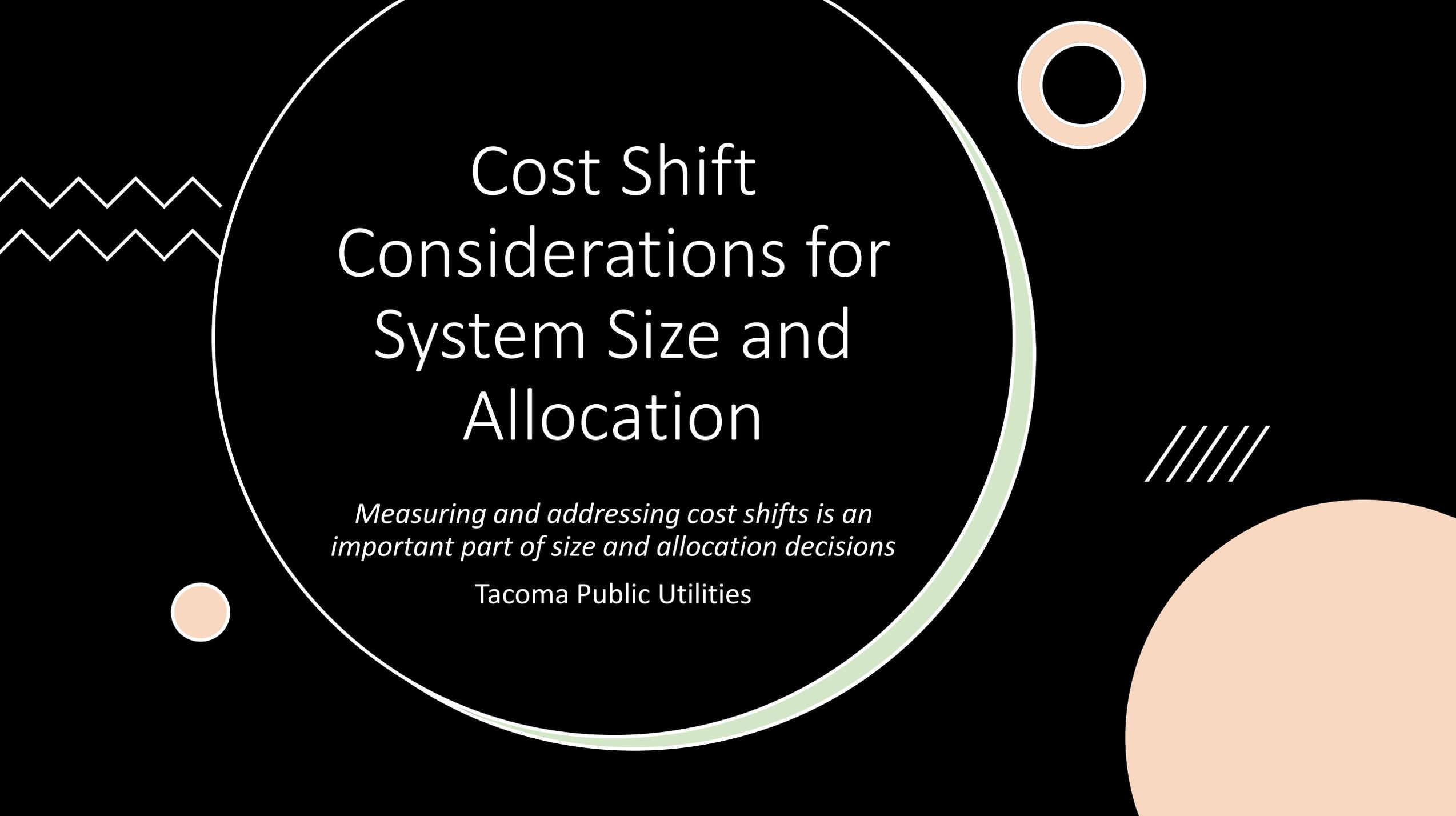
Customer/Utilities represented in this Presentation:

- **Seattle City Light** (~955k residents, 483,000 customers; TOCA=6.39%)
 - **Snohomish PUD** (~900k residents; 360,000 customers; TOCA=10.65%)
 - **Tacoma Power** (~220k residents, 184,000 customers; TOCA=5.66%)
- **Of the 3 listed Washington utilities, we represent ~27% of residents in the state & ~23% BPA's customer basis per TOCA.**

Listening with an Open Mind

KEY MESSAGES:

- ✓ *A Balanced Approach to System Size and Allocation*
 - ✓ *Tiered Rates and marginal costs*
 - ✓ *Non-Federal Resource development tools*
-
- We have heard our peers: Lanes available to achieve a balanced proposal
 - Possibilities for allocation (CHWM) & System Size (Including augmentation)
 - WPAG proposal is promising
 - EE needs more discussion
 - Need some value for all 3 groups: Growing, Flat/Declining, Conserving
 - Key distinction: Transitioning RD load service choices in next contract
 - New contract should send proper price signals

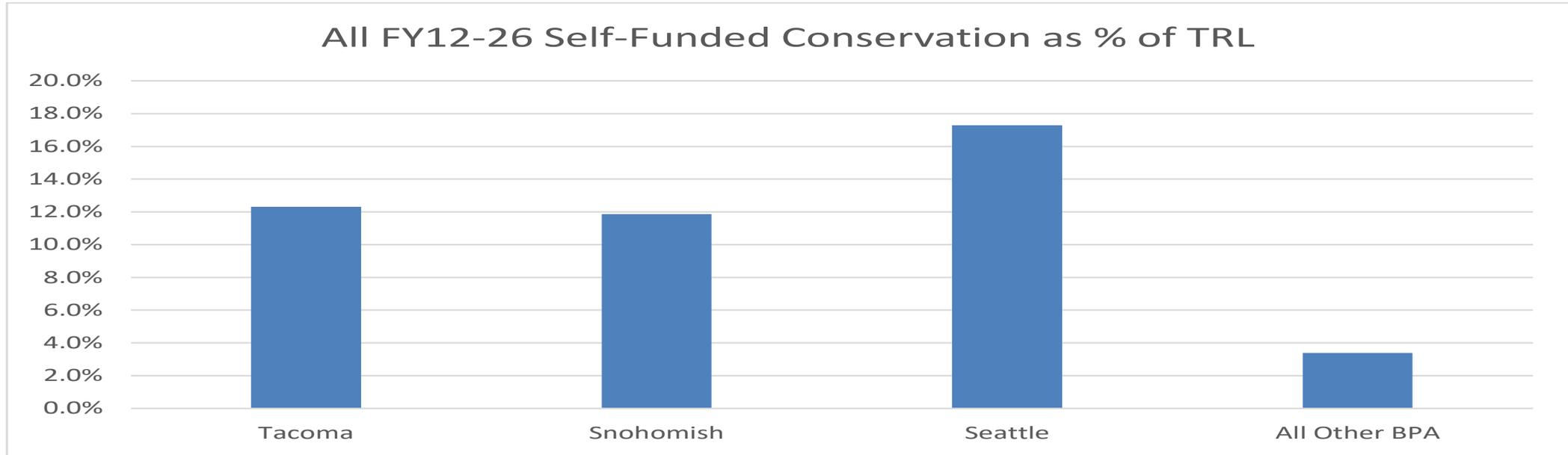


Cost Shift Considerations for System Size and Allocation

*Measuring and addressing cost shifts is an
important part of size and allocation decisions*

Tacoma Public Utilities

Regional Dialogue Conservation Achievements



		<u>Tacoma</u>	<u>Snohomish</u>	<u>Seattle</u>	
1	FY10 TRL	565	819	1156	(FY10 NR + Dedicated Resources)
2	FY12-26 Load Growth	77	108	166	
3	FY12-26 Conservation	96	161	239	
4	FY26 TRL	545	766	1083	(Ln1 + Ln 2 - Ln3)
5	Conservation > Load Growth	20	53	73	(Ln3 - Ln2)
6	Current CHWM "Headroom"	35	84	65	BP-24 RHWM
7	FY12-26 "Self-Funded" Conservation	68	94	194	(Created our current headroom)

Cost Impacts from a Pure CHWM Rest (Assumptions)

Tier 1 PF	Tier 2 PF	PF "Melded"	Augmentation (aMWs)	Augm. Cost (\$/MWh)	PF "Melded + Augm"
\$35.00	\$62.00	\$36.75	400	\$50.00	\$37.47
				Utility A	Utility B
				(High Consev)	(High Load Growth)
		RD FY10 Net Requirement		100	100
			RD CHWM	100	100
		RD Load Growth		20	50
		Conservation (Self-Funded)		30	0
		POC CHWM (no Conserv add-back)		90	150

Note – Utility A has 10 aMWs of D Headroom due to aggressive self-funded conservation (RD CHWM of 100 less FY26 NR of 90)

The 4 CHWM Re-Set Cost Impacts

(Annual and Life-of-Contract)

	<u>Utility A</u>		<u>Utility B</u>	
FY25 RD BPA Power Bill ("Status Quo")	\$27,594,000	90 AMW	\$57,816,000	150 aMW
Cost Shift #1 (Melding Tier1 and Tier 2 PF Rate Impact)	1,378,282	5.0%	(9,528,863)	-16.5%
Cost Impact #2 (System Augmentation PF Rate Impact)	601,308	2.1%	1,002,179	2.1%
Cost Shift #4 (Post-2028 Rate Design Changes ???)	???	?	???	?
Total Annual Post-2028 Annual PF Bill	\$29,573,590		49,289,316	
Post-2028 Annual Increase/(Decrease)	\$1,979,590	7.1%	(8,526,684)	-14.4%
Cost Impact #3 (Loss of Self-funded Conservation Investment)	\$20,000,000			
Total Post-2028 Life-of-Contract Cost Impact (FY29-45, \$2022)	\$51,673,432		(\$136,426,946)	

* Large rate increase for Utility A and large rate decrease for Utility B...AND, Utility A lost \$20M of investment!

* While these are “bookends”, these cost shift occur across all of public power at disparate impacts.



Conservation Considerations

*Conservation credits should be consistent with RD contract,
regional, and national policy goals*

Snohomish PUD



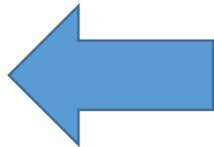
A tale of two utilities.....

Utilities have same "natural load growth". Utility B has done twice as much conservation as Utility A

Utility A						
2022-2026		0.5	0.5	0.5		
	Natural Load	BPA Conservation	Self-Funded conservation	Non-Reportable Conservation	Resulting Load	
2012	150	0.5	0.5	0.5	149	
2013	152	0.5	0.5	0.5	149	
2014	154	0.5	0.5	0.5	149	
2015	156	0.5	0.5	0.5	150	
2016	158	0.5	0.5	0.5	150	
2017	160	0.5	0.5	0.5	151	
2018	162	0.5	0.5	0.5	151	
2019	164	0.5	0.5	0.5	152	
2020	166	0.5	0.5	0.5	152	
2021	168	0.5	0.5	0.5	153	
2022	170	0.5	0.5	0.5	153	
2023	172	0.5	0.5	0.5	154	
2024	174	0.5	0.5	0.5	155	
2025	176	0.5	0.5	0.5	155	
2026	178	0.5	0.5	0.5	156	

Utility B						
2023-2026		1	1	1		
	Natural Load	BPA Conservation	Self-Funded Conservation	Non-Reportable Conservation	Resulting Load	
2012	150	1	1	1	147	
2013	152	1	1	1	146	
2014	154	1	1	1	145	
2015	156	1	1	1	144	
2016	158	1	1	1	143	
2017	160	1	1	1	142	
2018	162	1	1	1	141	
2019	164	1	1	1	140	
2020	166	1	1	1	139	
2021	168	1	1	1	138	
2022	170	1	1	1	137	
2023	172	1	1	1	136	
2024	174	1	1	1	135	
2025	176	1	1	1	134	
2026	178	1	1	1	133	

	A	B
2026 Total Retail Load	156	133
2026 Net Requirements	156	133
2018-2026 BPA Self Funded EE	4.5	9
Next Contract CHWM if Reset	160	142



Utility B receives smaller allocation despite staying within initial allocation through load management

Utility B gets larger allocation at lower cost from doing no more new Non-Reportable Conservation

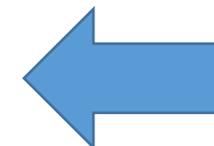
Utility A						
2022-2026		0.5	0.5	0.5		
	Natural Load	BPA Conservation	Self-Funded conservation	Non-Reportable Conservation	Resulting Load	
2012	150	0.5	0.5	0.5	149	
2013	152	0.5	0.5	0.5	149	
2014	154	0.5	0.5	0.5	149	
2015	156	0.5	0.5	0.5	150	
2016	158	0.5	0.5	0.5	150	
2017	160	0.5	0.5	0.5	151	
2018	162	0.5	0.5	0.5	151	
2019	164	0.5	0.5	0.5	152	
2020	166	0.5	0.5	0.5	152	
2021	168	0.5	0.5	0.5	153	
2022	170	0.5	0.5	0.5	153	
2023	172	0.5	0.5	0.5	154	
2024	174	0.5	0.5	0.5	155	
2025	176	0.5	0.5	0.5	155	
2026	178	0.5	0.5	0.5	156	

Utility B						
2023-2026		1	1	0		
	Natural Load	BPA Conservation	Self-Funded Conservation	Non-Reportable Conservation	Resulting Load	
2012	150	1	1	1	147	
2013	152	1	1	1	146	
2014	154	1	1	1	145	
2015	156	1	1	1	144	
2016	158	1	1	1	143	
2017	160	1	1	1	142	
2018	162	1	1	1	141	
2019	164	1	1	1	140	
2020	166	1	1	1	139	
2021	168	1	1	1	138	
2022	170	1	1	0	138	
2023	172	1	1	0	138	
2024	174	1	1	0	138	
2025	176	1	1	0	138	
2026	178	1	1	0	138	



Original Allocation			
	A	B	
2026 Total Retail Load	156	133	
2026 Net Requirements	156	133	
2018-2026 BPA Self Funded EE	4.5	9	
Next Contract CHWM if Reset	160	142	

	A	B	
2026 Total Retail Load	156	138	
2026 Net Requirements	156	138	
2018-2026 BPA Self Funded EE	4.5	9	
Next Contract CHWM if Reset	160	147	



Utility B receives larger allocation than previous "plan" by growing load

Utility B gets larger allocation at lowest cost from doing no new Self-Funded Conservation at all

Utility A						
2022-2026						
		0.5	0.5	0.5		
	Natural Load	BPA Conservation	Self-Funded conservation	Non-Reportable Conservation	Resulting Load	
2012	150	0.5	0.5	0.5	149	
2013	152	0.5	0.5	0.5	149	
2014	154	0.5	0.5	0.5	149	
2015	156	0.5	0.5	0.5	150	
2016	158	0.5	0.5	0.5	150	
2017	160	0.5	0.5	0.5	151	
2018	162	0.5	0.5	0.5	151	
2019	164	0.5	0.5	0.5	152	
2020	166	0.5	0.5	0.5	152	
2021	168	0.5	0.5	0.5	153	
2022	170	0.5	0.5	0.5	153	
2023	172	0.5	0.5	0.5	154	
2024	174	0.5	0.5	0.5	155	
2025	176	0.5	0.5	0.5	155	
2026	178	0.5	0.5	0.5	156	

Utility B						
2023-2026						
		1	0	0		
	Natural Load	BPA Conservation	Self-Funded Conservation	Non-Reportable Conservation	Resulting Load	
2012	150	1	1	1	147	
2013	152	1	1	1	146	
2014	154	1	1	1	145	
2015	156	1	1	1	144	
2016	158	1	1	1	143	
2017	160	1	1	1	142	
2018	162	1	1	1	141	
2019	164	1	1	1	140	
2020	166	1	1	1	139	
2021	168	1	1	1	138	
2022	170	1	0	0	139	
2023	172	1	0	0	140	
2024	174	1	0	0	141	
2025	176	1	0	0	142	
2026	178	1	0	0	143	



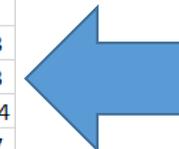
Original Allocation

	A	B
2026 Total Retail Load	156	133
2026 Net Requirements	156	133
2018-2026 BPA Self Funded EE	4.5	9
Next Contract CHWM if Reset	160	142

Second Allocation

	A	B
2026 Total Retail Load	156	138
2026 Net Requirements	156	138
2018-2026 BPA Self Funded EE	4.5	9
Next Contract CHWM if Reset	160	147

	A	B
2026 Total Retail Load	156	143
2026 Net Requirements	156	143
2018-2026 BPA Self Funded EE	4.5	4
Next Contract CHWM if Reset	160	147



Utility B receives largest, lowest-cost allocation by doing no new self-funded EE

Summary Thoughts

- Current conservation credit constructs result in economic incentives to:
 - Stop all forms of self-funded conservation immediately
 - Address load growth in next contract with term-limited supply-side PPAs so as not to be penalized in future allocations and effectively strand assets
 - Update conservation resource economics to price in penalty of load outcome at end of contract below starting allocation, for this contract and beyond
- These incentives feel out of alignment with RD policy goals, and big-picture national and regional goals
- More conversation is needed to create better constructs for conservation credit
 - There are many paths to better alignment
 - Inter-contract allocation incentives are most powerful conservation incentive



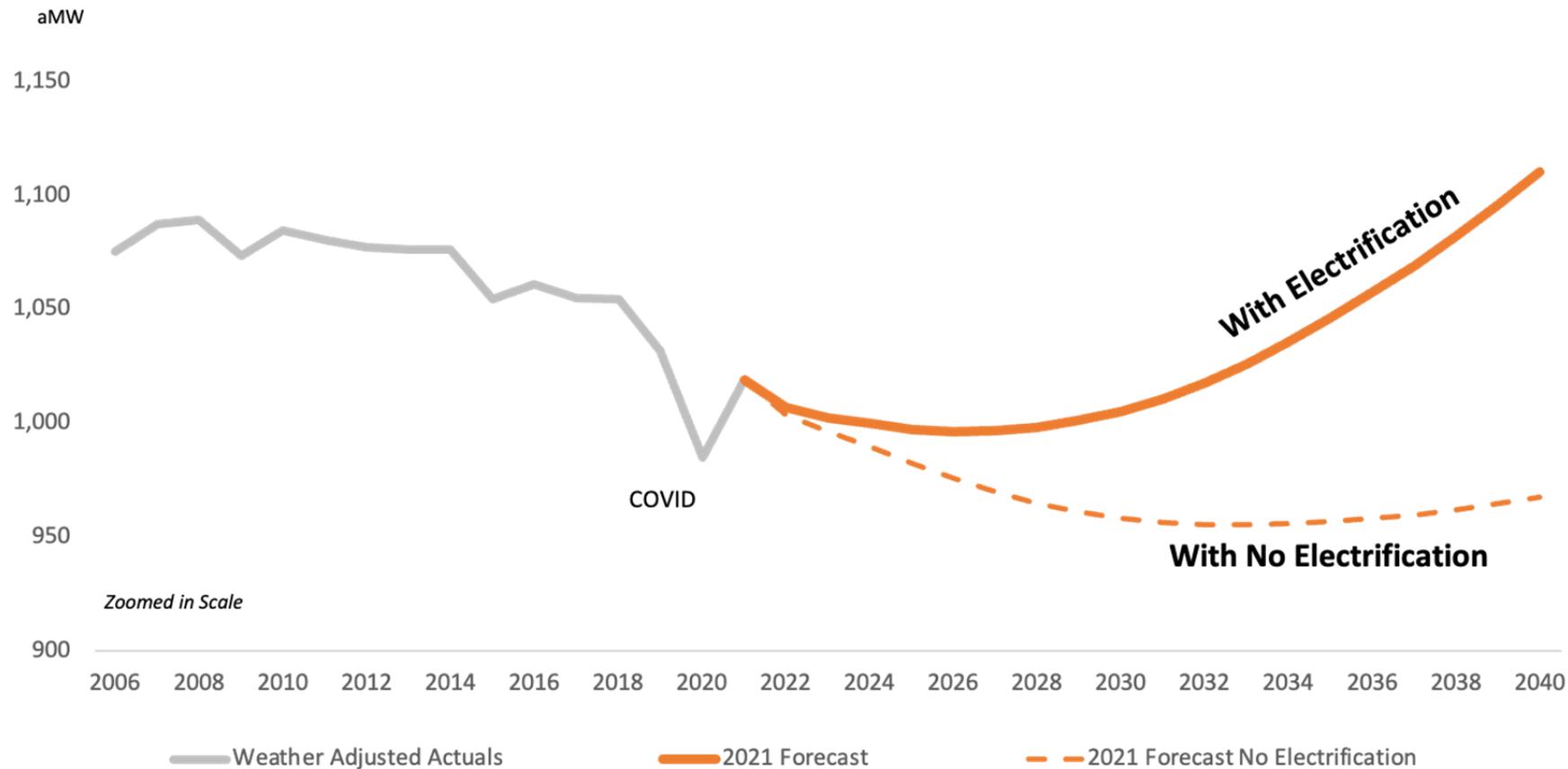
Past, Present and Future Load Growth

*Investments made to prepare for future load growth should
help contribute to coming electrification load*

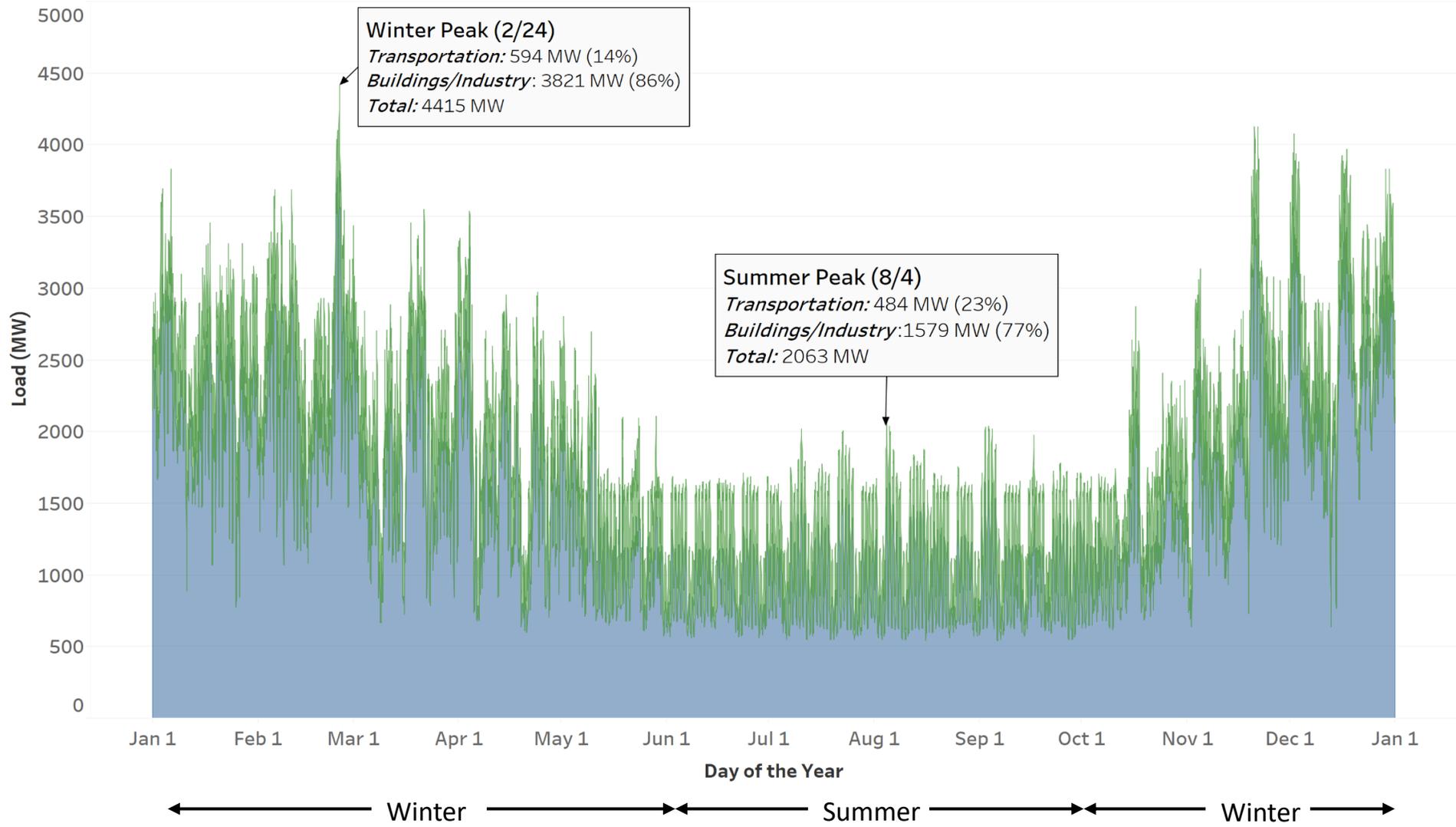
Seattle City Light

Electrification will Increase Loads

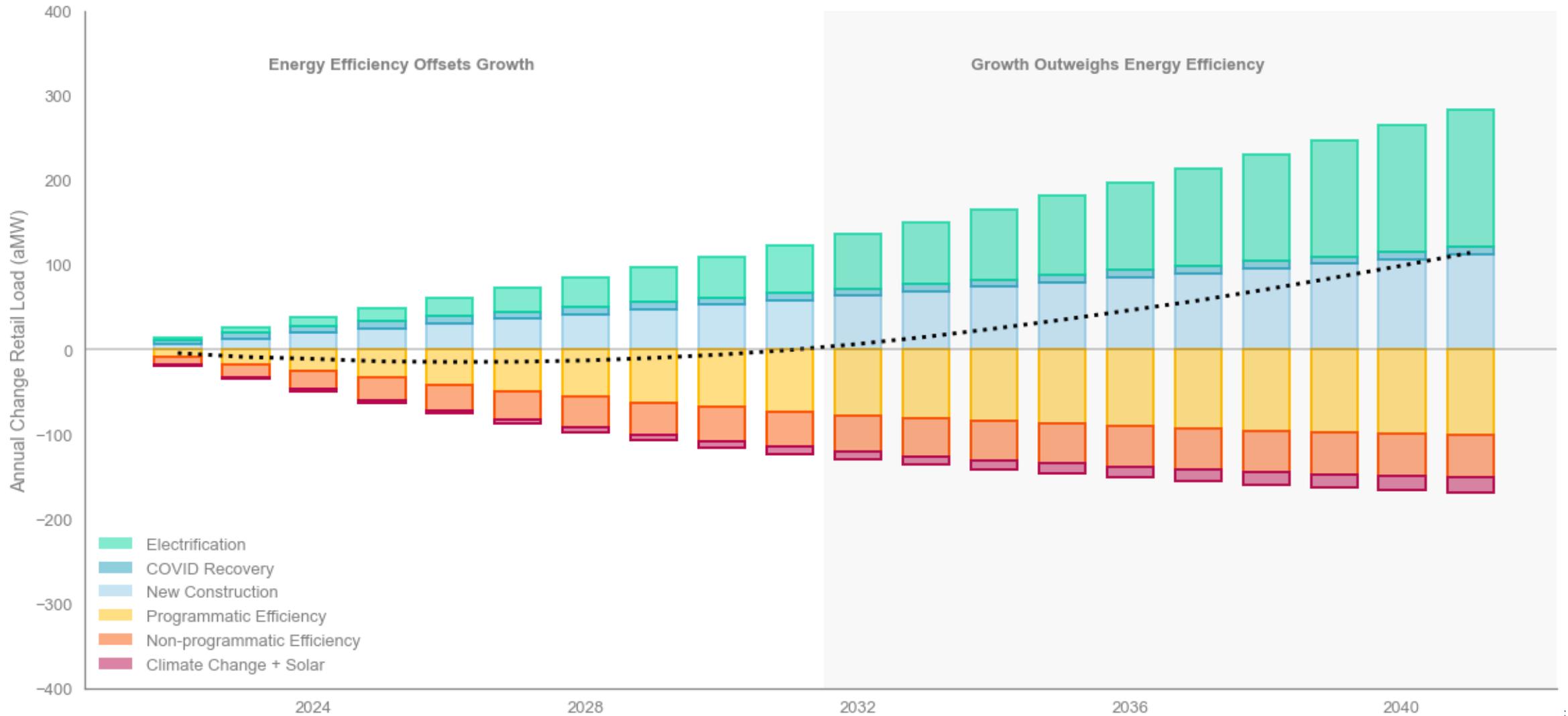
- Energy consumption has decreased by $\approx 0.7\%$ per year recently
- Decarbonization \rightarrow Electrification \rightarrow load growth

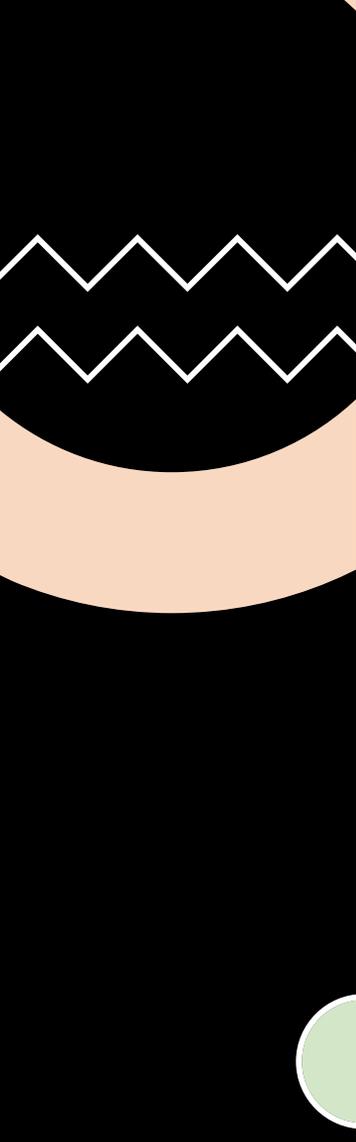


2042 SCL yearly load: Rapid Market Advancement Scenario



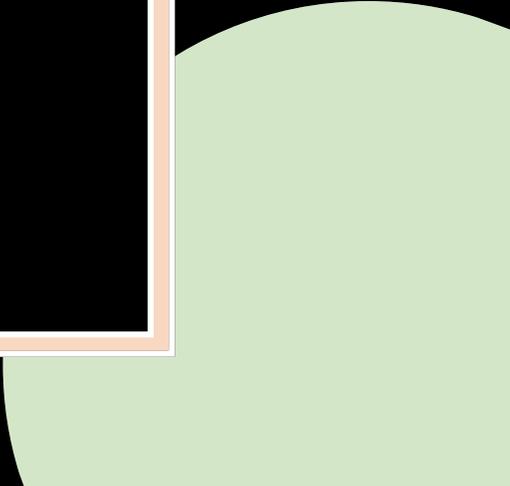
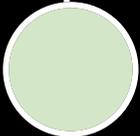
SCL Corporate Load Forecast





Where do we go from here?

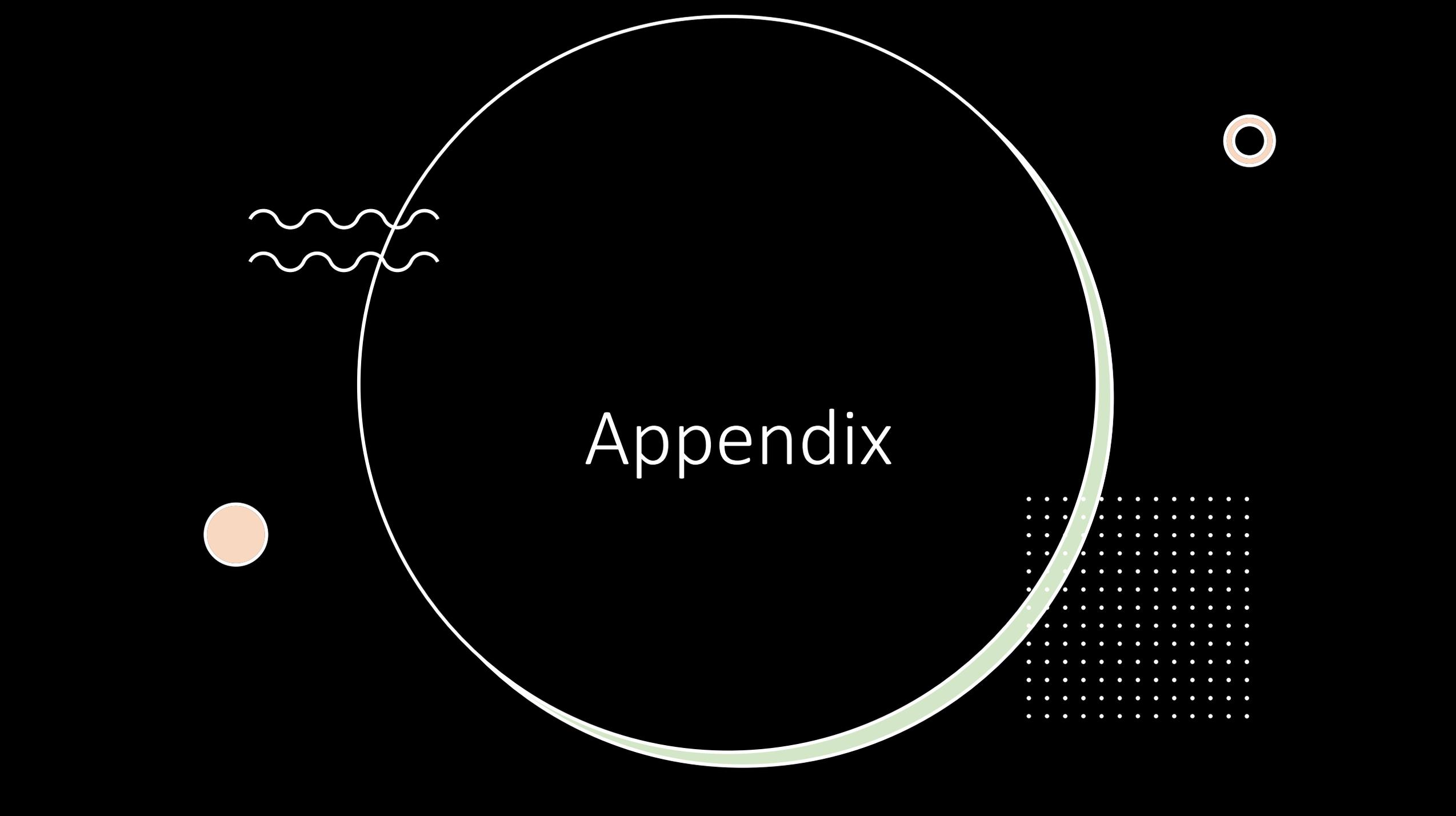
We should seek a balanced pathway that allows utilities to plan for the future, is aligned with regional and national policy goals, and results in equitable outcomes



Summary

KEY MESSAGES:

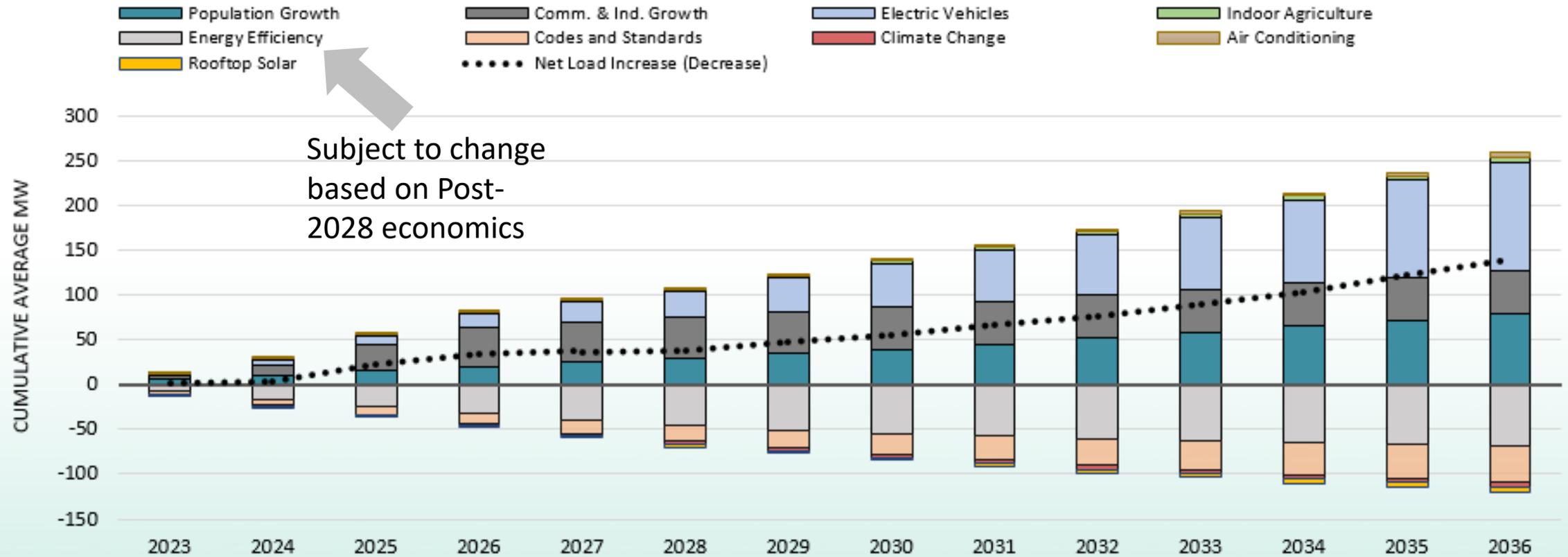
- ✓ *A Balanced Approach to System Size and Allocation*
 - ✓ *Minimize cost shifts*
 - ✓ *Recognize good faith RD contract actions made to realize RD policy goals*
 - ✓ *Transitioning to new contract requires compromise*
- ✓ *Interest in Building off WPAG's No Worse Off Framework*
 - ✓ *Thoughtful framing of what equity means for three groups: Growing, Flat, Conserving*
- ✓ *Tiered Rates and marginal costs*
 - ✓ *Send proper price signals*
- ✓ *Non-Federal Resource development tools*
 - ✓ *Lots of interest in a fully subscribed system; little BPA risk of development displacing firm critical output subscription*
 - ✓ *We have been preparing for future load growth, we need to continue to have options*
- We have heard our peers: Lanes appear available to achieve a balanced proposal
 - Possibilities for allocation (CHWM) & System Size (potentially including augmentation)

The word "Appendix" is centered in a white sans-serif font. It is surrounded by several decorative elements: a large white circle with a thick light green border, a smaller orange circle with a white outline to the left, a double orange circle with a white outline to the top right, two white wavy lines to the left, and a white dotted grid to the bottom right.

Appendix

The Driving Factors

Factors Contributing to SnoPUD's Changing Load Over Time vs. 2022



2010-2022 Energy Efficiency/Conservation Efforts at SCL

	Energy Savings		Expenditures	BPA Funding	Incremental MW Value
2010	141,581	MWh	\$ 34,524,554	\$10,000,000	16.16
2011	107,729	MWh	\$ 32,672,296		12.30
2012	137,374	MWh	\$ 29,800,000	\$9,582,415	15.68
2013	138,159	MWh	\$ 39,100,000		15.77
2014	186,516	MWh	\$ 42,500,000	\$8,947,094	21.29
2015	156,911	MWh	\$ 43,700,000		17.91
2016	125,725	MWh	\$ 44,872,776	\$11,140,165	14.35
2017	145,336	MWh	\$ 45,012,297		16.59
2018	150,828	MWh	\$ 37,237,793	\$10,486,079	17.22
2019	137,805	MWh	\$ 32,920,361		15.73
2020	109,006	MWh	\$ 26,771,878	\$9,832,979	12.44
2021	116,721	MWh	\$ 27,135,360		13.32
2022	N/A	MWh	N/A	\$8,725,508	
Total			\$ 436,247,314	\$68,714,240	188.78

There's an awful lot we seem to agree on

- Tiered Rates Methodology as the core of the next contract
- Existing products seem to have core value propositions that endure
- Balanced Non-Federal Resource Treatment that recognizes unique need of resources developed for anticipated load growth in the RD contract
- Provide conducive framework to encourage or facilitate further Non-Federal Resource Development
- Providing a 100% clean option for those that need it
- Providing a Conservation Credit in CHWM calculation
- A One-Time Tier 2 Election could be hard for folks
- Fix size of Federal System to provide for planning certainty