# Tacoma Power Rate Overview 2019/2020 Biennium

Chris Robinson, Tacoma Power September 26, 2018





# TABLE OF CONTENTS

01	02	<b>0</b> A
Rates Process	Public & Customer Outreach	Appendix
Page 3	Page 22	Page 28
<ul> <li>+ Revenue Requirement</li> <li>+ Cost-of-Service Analysis</li> <li>+ Rate Design: Existing Classes</li> <li>+ Rate Design: New Class</li> <li>+ Rate &amp; Financial Policy</li> </ul>	<ul> <li>+ Public Outreach</li> <li>+ McChord Participation Protocol</li> <li>+ Next Steps</li> </ul>	<ul> <li>+ Cost-of-Service Theory Diagram</li> <li>+ Class Increase Detail</li> <li>+ Current and Projected Class Rates: ¢/kWh</li> </ul>



# Rates Process

+ Revenue Requirement

01

- + Cost-of-Service Analysis
- + Rate Design: Existing Classes
- + Rate Design: New Class
- + Rate & Financial Policy



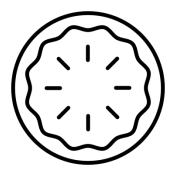
**Rates Process** 

# **Ratemaking Process**

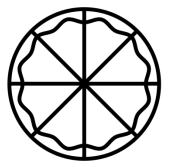
How Big is the Pie?

How to Slice the Pie?

How to Eat Each Slice?











Revenue Requirement

COSA

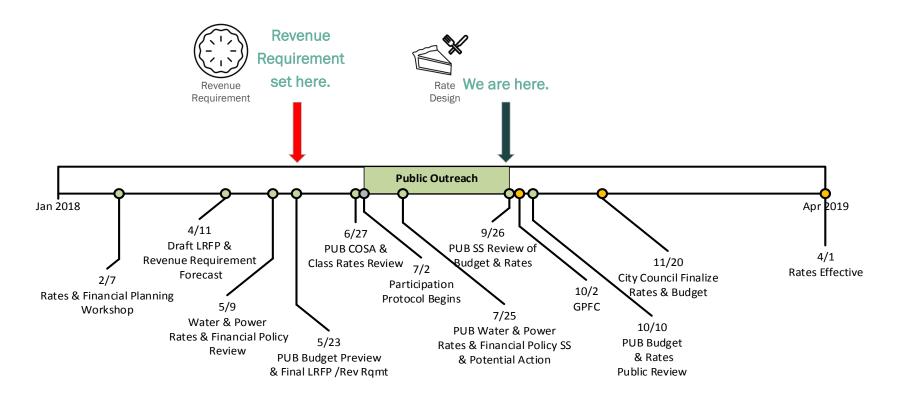
Rate Design



Rates Process Section 1.1



## **Budget and Rate Timeline**

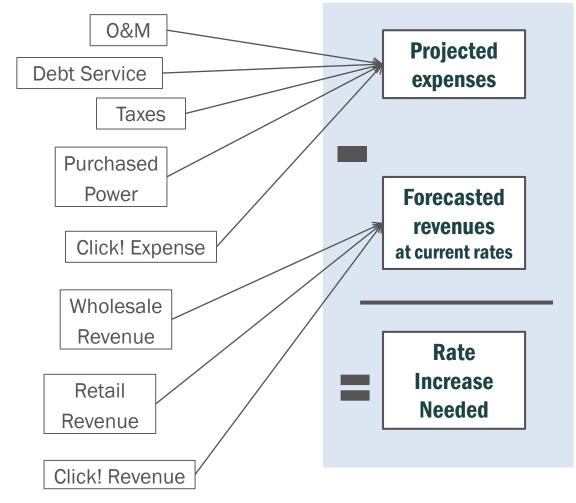




## **Revenue Requirement Illustration**

The Tacoma Power Revenue Requirement is a forecast of the amount we needed to cover all of the utility's expenses and meet financial plan goals.

Tacoma Power's 2019/2020 Revenue Requirement forecast assumptions are provided in the June 27, 2018 Revenue Requirement presentation.





## Revenue Requirement versus Budget

		Forecast for Revenue Requirement	Forecast for Budget
Total Fore	cast Expenditures	\$949,791,059	\$958,830,957
	Wholesale Sales	95,403,408	95,840,208
less SI	Click! Revenue	49,038,460	54,732,255
	Other Revenue*	\$52,921,434	52,608,754
	Spenddown of Cash	6,660,427	9,179,049
Remaining	5	\$745,767,330	\$746,470,691
less	Retail Revenue at Existing Rates	729,438,197	729,929,146
Rate Increase Needed		\$16,329,133	\$16,541,545

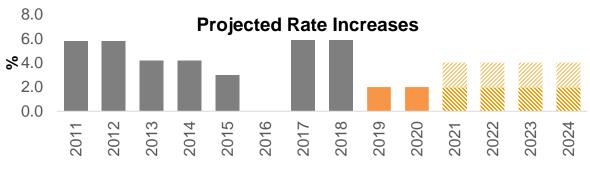
**Difference in Revenue** Requirement and Budget will be managed by Tacoma Power through controlling expenses, use of the **Note Purchase** Agreement (\$100M), or cash balances. A request for an additional rate increase may also be made as a last resort.

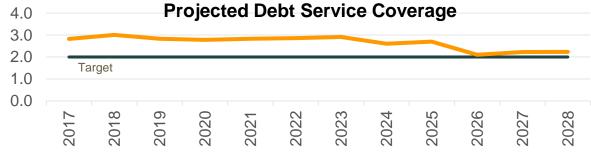
-1.3%

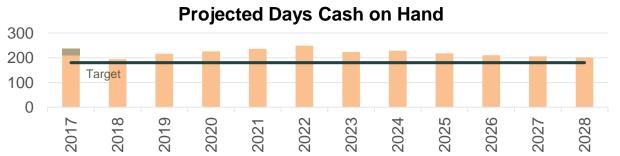
In response to 6/27 Study Session from Board Member Flint (ACTION ITEM 27).



# **Revenue for Financial Stability**







The recommended 2% system-average rate increase in 2019 and 2020 is designed to **meet** DSCR targets, manage cash levels, and minimize rate spikes in the future.



# Cost-of-Service Analysis Results

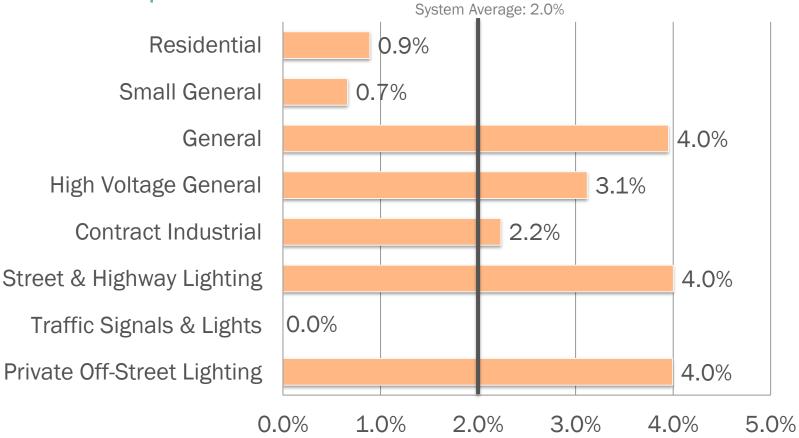
Rates Process Section 1.2



# Cost-of-Service Analysis Results

### Increase by Class

#### Annual Step Increase



Preliminary, subject to change.



# Results of Rate Design: Existing Classes

Rates Process Section 1.3



**Rate Design** 

# **Residential & Small Commercial**

Schedule A	Residential				
Schedule A	Current	2019	2020		
Customer Charge	\$ 16.50	\$ 16.90	\$ 17.30		
Energy Charge	0.045351	0.045351	0.045351		
Delivery Charge	0.034435	0.034891	0.035353		
Total per-kWh Charges	\$ 0.079786	\$ 0.080242	\$0.080704		

Schedule B	Small General			
Schedule D	Current	2019	2020	
Customer Charge	\$ 22.50	\$ 23.00	\$ 23.50	
Energy Charge	0.044616	0.044616	0.044616	
Delivery Charge	0.034587	0.034895	0.035207	
Total per-kWh Charges	\$ 0.079203	\$ 0.079511	\$ 0.079823	

Place 50% of increase in customer charge.



**Rate Design** 

### **General Service**

Schedule G	General			
Schedule G	Current	2019	2020	
Customer Charge	\$ 76.00	\$ 78.00	\$ 80.00	
Energy Charge	\$0.044813	\$ 0.047317	\$0.049961	
Delivery Charge	\$ 8.35	\$ 8.43	\$ 8.51	

Increase all rate elements.



#### **Rate Design**

### **Industrial Classes**

Schedule HVG	High-Voltage General				
	Current	2019	2020		
Customer Charge	\$ 1490.00	\$ 1590.00	\$ 1690.00		
Energy Charge	\$ 0.041691	\$ 0.042915	\$ 0.044175		
Delivery Charge	\$ 4.75	\$ 4.89	\$ 5.03		
Transformer Discount	24.00%	20.00%	20.00%		

**Contract Industrial** Schedule CP 2020 Current 2019 **Customer Charge** \$2980.00 \$ 3980.00 \$4980.00 **Energy Charge** \$ 0.033038 \$ 0.033038 \$ 0.033038 **Demand Charge** \$ 4.33 \$ 4.68 \$ 5.07 \$ 4.00 \$ 4.22 \$ 4.45 **Delivery Charge** 

Adjust all or most rate elements.

Preliminary, subject to change.



# Rate Design: New Class

Rates Process Section 1.4

# Transition DC Fast Chargers to Demand



#### **Fast Charge Service (Schedule FC)**

- Rate structure mirrors a Public DC Fast Charger Optional Transition
   Rate adopted by PacifiCorp in Oregon and Washington
- Rate prices are derived from Tacoma Power's Small General Service and General Service rate schedules

Charge	Over 13-Year Transition Period (2019 – 2031)
per Month	remains the effective Schedule G per Month charge \$80.00 per Month
per kWh	transitions from Schedule B per kWh charges to Schedule G per kWh charge \$0.079203 in 2019 to \$0.049959 in 2031
per kW	introduces Schedule G per kW charge \$0.00 in 2019 to \$8.51 in 2031

NOTE: illustrated prices hold Recommended 2020 rates constant. These rates are subject to change.



# Information will Inform Future Rates



#### To qualify for the rate, Electric Vehicle Charging Stations must...

- Have separately metered service
- Be broadly available to the general public
- Have at least one DC fast charger
- Demand no more than 1 megawatt of load



#### Pilot is limited to...

- 13 Years, January 1, 2019 December 31, 2031
- 25 public DC Fast Charging Stations, on a first-come, first-served basis



#### **Bi-annual reports will include...**

- Locations of participating stations
- Aggregated utilization and sales statistics



# Limited Ancillary Loads Permitted



#### Ancillary loads...

- must be related to the provision of Electric Vehicle charging
- must not collectively exceed 5 kilovolt amps (5 kVa)



#### What will 5kVa support?

It depends on the characteristics of the ancillary loads. With 5kVa, a site would be capable of providing vending machines and ample lighting for its patrons.



# Rate & Financial Policy

Rates Process Section 1.5



#### **Rate & Financial Policy**

# **Rate and Financial Policy Updates**

#### 1. Low-Income and Senior/Disabled Assistance Programs

Addresses programs available through utility assistance programs. "The needs of low-income, senior, and disabled electric customers will be considered when establishing rate levels, providing bill assistance, and offering financial education."

#### 2. Rate Stability

**Sets an objective that seeks to stabilize rates and better align with Water's rate and financial policies.** *"To the extent possible, rate adjustments should be as level across years and not exceed general inflationary trends."* 

#### 3. Class Rate Increase Cap

Addresses caps for class rate increases and enables better alignment with Water's rate and financial **policies.** "Rate adjustments may be phased-in over a limited time period and may be used if a disproportionate change in rate levels is expected for certain classes. Inter-class revenue requirements adjustments significantly in excess of the system average may be allocated proportionally to the remaining customer classes. A gradual approach may be used for the subsidized class to set subsequent rate increases until cost-of-service rates are reestablished."



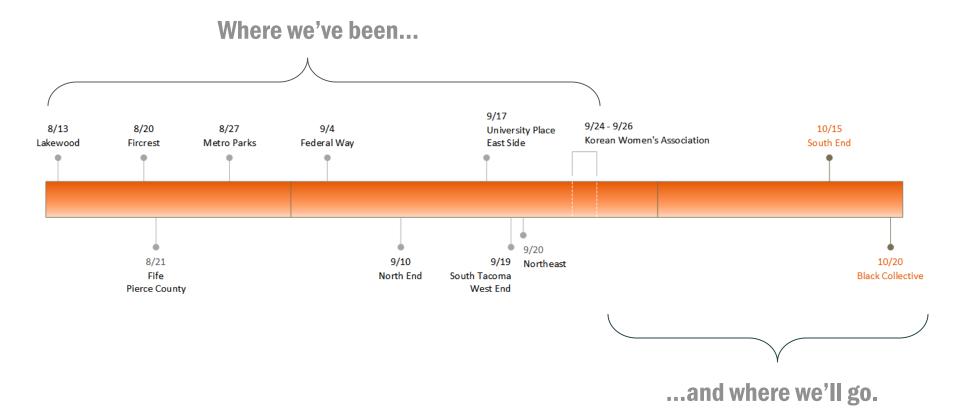
+ Public Outreach

+ McChord Participation Protocol

+ Next Steps



# **Public Outreach Timeline**





# **Public Outreach Themes**

Rate proposal has been generally well-received.

- Common Themes from Franchise Jurisdictions:
  - Value proposition generally well-received by audiences
  - Desire for more representation for outside-City customers
  - Questions about AMI rollout and related cybersecurity/data privacy risks
  - Request for more outreach to low-income customers
- Common Themes from Tacoma Neighborhood Councils:
  - Value proposition generally well-received by audiences without any major issues or concerns



# **Rates Outreach & Communications**

#### **Communications**

- Complete
  - July Utilities and You newsletter story
  - Updated web page and banners
  - E-mail list sign up online
  - Bill message
  - Handout for public meetings
  - Translated versions of handouts
  - Updated public meeting info online and social media
- Upcoming
  - October Utilities and You newsletter update
  - Video
  - E-mail notification to customers
  - Newsletter content for business customers and other orgs
  - Lobby messaging
  - Materials for Oct 10 evening session (to be posted in advance)



# **McChord Participation Protocol**

#### Negotiations focused on three issues, with most focus on the third.

- 1. Classification of Tacoma-Power-Owned Hydroelectric Production Cost.
- 2. Classification of Bonneville Power Administration (BPA) Power Cost.
- 3. Allocation of Demand-Classified Production Cost. In the initial COSA, this cost is allocated based on an load patterns during the entire year. The military consultants advocated for an allocator based on load patterns during the winter only. This results in a lower rate increase for the HVG and CP classes, and a higher increase for the Residential class, because residential usage is the most seasonal.

## Tacoma Power has recommended studying this issue and producing a full report and recommendation for use in the 2021/2022 rate case, because:

- 1. This is a significant change from longstanding practice.
- 2. Area utilities with similar power supplies use a wide variety of methods.
- 3. Changing methodologies would have a substantial impact on the residential class.

The rate recommendations shown in this presentation assume no change to allocation methodology for the current rate case.



# Next Steps

#### September 26<sup>th</sup>

Study Session: Public Utility Board Budget & Rates Presentation

#### October 2nd

GPFC Power, Water and Rail Rates Presentation

#### October 10th

Public Utility Board Budget & Rates Public Review

#### October 16th

Joint Council/Public Utility Board Study Session Budget & Rates Presentation

#### October 24th

Public Utility Board approval of preliminary budget & rates

#### November 13th

City Council first reading of budget & rates

#### November 20th

City Council second reading of budget & rates



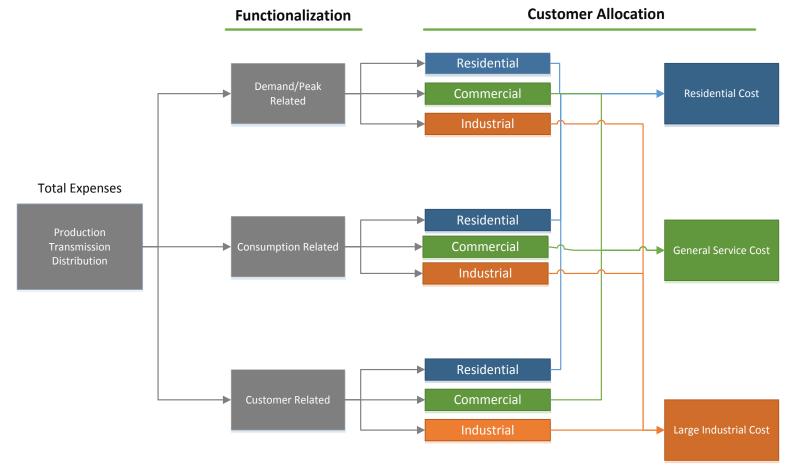
# 0A Appendix

- + Cost-of-Service Theory Diagram
- + Class Increase Detail
- + Current and Projected Class Rates:
   ¢/kWh



**Appendix** 

### Cost-of-Service Study





#### Appendix

### **Class Increase Detail**

Description		Final COSA	COSA Rate Change		Redistribution for Gradualism Cap	Recommended Rate Change	
		Results*	Amount	Annual Increase	(Increase Cap at 2x System)	Amount	Annual Increase
Residential	\$365,351,989	\$ 369,155,763	\$ 3,803,774	0.7%	\$ 1,124,158	\$ 4,927,932	0.9%
Small General	57,070,622	57,533,266	462,645	0.5%	112,664	575,309	0.7%
General	207,180,477	219,582,683	12,402,206	3.9%	18,210	12,420,416	4.0%
High Voltage General	45,870,568	48,039,170	2,168,602	3.1%	48	2,168,651	3.1%
Contract Industrial	48,523,303	50,119,155	1,595,852	2.2%	15	1,595,866	2.2%
Street & Highway (H1)	1,834,191	2,221,130	386,939	13.6%	(276,335)	110,604	4.0%
Traffic Signals (H1)	168,602	166,802	(1,800)	-0.7%	1,800	-	0.0%
Private Off-Street (H2)	3,005,788	4,167,603	1,161,814	24.0%	(980,561)	181,253	4.0%
Total	\$ 729,005,540	\$ 750,985,571	\$ 21,980,032	2.0%	-	\$ 21,980,031	2.0%

\*Retail Revenue and Cost of Service for 2019/2020 Rate Period (April 2019 through March 2021).

#### Preliminary, subject to change.

# Average Rates: Current & Proposed

Average per-kWh Rate	Current Rates	Proposed Rates*
Residential	9.68¢	9.81¢
Small General	9.36 ¢	9.46 ¢
General	7.05 ¢	7.47 ¢
High Voltage General	5.14 ¢	5.38 ¢
Contract Industrial	4.70 ¢	4.85 ¢
Street & Highway Lighting (H1)	5.24 ¢	5.56 ¢
Traffic Signals & Lights (H1)	9.77¢	9.77¢
Private Off-Street Lighting (H2)	21.13 ¢	22.41 ¢
Total	7.84 ¢	8.07 ¢

\*average for 19/20 rate period