

RATE ADVISORY COMMITTEE (RAC) BUDGET PROCESS DISCUSSION

PRESENTED BY:

CPS ENERGY

August 19, 2021

Informational Update



- RECAP KEY TAKEAWAYS FROM COST OF SERVICE PRESENTATION
- SUMMARIZE HOW MISALIGNED RATES IMPACT CUSTOMERS
- COMMUNICATE PROCESS FOR DEVELOPING A BUDGET (EXPECTED REVENUE VS. EXPECTED COSTS)

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AGENDA



- HIGHLIGHTS FROM LAST PRESENTATION
- RATES & COST SHIFTING
- INTEGRATED PLANNING
- BUDGETING: REVENUE FORCASTING & REVENUE REQUIREMENTS



TAKE-AWAYS FROM PRIOR RAC MEETING



- The Cost of Service study is backward looking & does not define our forward looking costs, known as Revenue Requirements
- Customers' usage patterns determine the cost of serving them
 - \circ $\;$ Inefficient customers disproportionately create fixed cost $\;$
 - Efficient customers make better use of fixed cost infrastructure
- Commercial customers pay more than their cost of service, while residential customers pay a little less than their cost of service
- Our current rate designs do not align with our cost structure
- "Effective Price," which is the sum of all fees on a bill divided by the number of units purchased, is a poor indicator of fairness
 - More efficient users will have a lower effective price, but are contributing more that their cost of service
 - A lower effective pricing does not mean there is no incentive to conserve; every rate we have includes a conservation price signal



COST OF SERVICE DEFINITION

A cost of service study <u>is</u>...

- A snapshot of a utility's cost structure
- Backward looking
- A study of how customers create cost and contribute to cost recovery
- Used to inform rate design

A cost of service study *is not*...

- Used to determine "revenue requirements" (i.e., funding needed to run the business)
- Forward looking
- An indicator of needing a rate increase
- A driver of the price charged to customers

EFFECTIVE PRICE BY CUSTOMER GROUP



<u>Customer</u>	Effective Price		Conservation
<u>Group</u>	<u>in ¢ per kWh</u>	<u>Utilization</u>	<u>Incentive</u>
Residential	10.8	40%	Yes
PL (Small & Med Business)	9.5	54%	Yes
LLP (Large Business)	8.4	60%	Yes
ELP (Extra Large Comm & Industria	al) 7.6	71%	Yes
SLP (Super Large Comm & Industr	ial) 6.7	74%	Yes

<u>Effective Price</u> is the total of all fees divided by the number of units purchased. Commercial customers pay a lower effective price because they utilize our system much more efficiently than residential customers (i.e., their customer & demand charges are spread across more kWh). Rate structures for <u>ALL</u> customer groups include a seasonal incentive to conserve energy.

CUSTOMER PRICING



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QUESTIONS & DISCUSSION





RATES & COST SHIFTING



REVENUE VS. COST BY CUSTOMER GROUP



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Revenues

\$ in thousands

			Residenti	ial		PL			LLP			ELP			SLP	
Fixed	Customer	\$	69,207	7%	\$	8,032	2%	\$	4,149	2%	\$	2,035	2%	\$	448	0%
FIXEU	Demand		136	0%		-	0%		66,547	25%		31,418	26%		50,991	30%
	Energy		737,804	93%		361,858	98%		134,192	74%		55,188	72%		68,807	69%
Variable	Energy (fuel adj)		121,237			62,344			40,485			19,594			31,374	
	Energy (reg adj)		103,917			36,071			23,680			10,326			16,111	
	Total	\$ 1,	032,301	100%	\$ 4	468,305	100%	\$ 2	269,052	100%	\$ 1	18,560	100%	\$ 1	.67,731	100%

Cost to Serve

			Resident	ial	PL		LLP			ELP			SLP	
Fixed -	Customer	\$	184,004	17%	\$ 37,503	9%	\$ 7,061	3%	\$	1,817	2%	\$	2,862	2%
Fixeu	Demand		472,529	43%	185,514	43%	109,279	44%		45,246	41%		65,160	38%
	Energy		209,734	40%	107,853	48%	70,024	54%		33,862	58%		53,953	60%
Variable -	Energy (fuel adj)		121,237		62,344		40,485			19,594			31,374	
	Energy (reg adj)		103,917		36,071		 23,680			10,326			16,111	
	Total	\$ 1,	,091,421	100%	\$ 429,285	100%	\$ 250,529	100%	\$ 1	L10,845	100%	\$ 1	L69,459	100%
% Cost to	Serve		95%		109%	,	107%			107%			99%	

Note: Based on normalized data (i.e., total revenue = total cost to serve).

OUR RATES NEED BETTER COST-TO-BILL ALIGNMENT





The misalignment of our rate structures becomes a significant challenge if customer usage suddenly decreases.

Note: Values based on FY2017 Cost of Service study



THE IMPORTANCE OF RATE DESIGN HYPOTHETICAL ELECTRIC BILL EXAMPLE



When fixed costs are recovered through variable charges, a reduction in volume delivers insufficient revenue.



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RESIDENTIAL TYPICAL CUSTOMER COST TO SERVE VS BILLS



Over the course of a year, a typical customer with no rooftop solar will mostly cover their cost of service...

RESIDENTIAL SOLAR CUSTOMER COST TO SERVE VS BILLS



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... but customers with solar PV don't even cover their fixed cost of service.



QUESTIONS & DISCUSSION





BUDGETING PROCESS



FINANCIAL OBJECTIVE

- Fundamentally, we are a <u>cost recovery</u> business
- <u>Every dollar we spend</u> on behalf of the community <u>ends up in customers' bills</u>
- We do not generate "profit"
- This model is a unique advantage of municipally owned utilities





Our rates are designed to deliver revenue that fully covers our operating expenses, capital investments, payments to debt holders, and city payment.

BUDGETARY FOCUS

- A full budgeting process is conducted every single year
- First, we develop a *revenue forecast* (estimated units to be sold x price)
- Second, we develop a comprehensive, bottom's up budget
 - The budget is the sum of all the costs we expect to incur in the future
 - The budget represents the level of funding we need to receive as revenue (i.e., our <u>revenue requirements</u>)





FORECASTING OVERVIEW

Generation Resource = Load (Demand) + Reserve Margin

FORECAST INPUTS

WE DEPLOY

- Customer Growth (Electric & Gas Sales)
- Regulatory Costs (TCOS, ERCOT)
- Fuel Cost (gas, coal, nuclear, renewables)
- Generation Resource Plan

- Market Power Prices
- Wholesale price, revenue & margin
- Interest Rates



cycles, so they are considered preliminary & subject to change)

A robust long range planning process is essential for long-term resource planning & yields budget targets, financial metric performance, & revenue support requirements.



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IS OUR REVENUE SUFFICIENT?





LOAD FORECAST

The load forecast is developed based on:

- Forecasted number of customers & bills for each customer segment
- Forecasted average consumption for each customer segment
- Guidance from large
 commercial account managers
- Weather



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We examine every customer group to identify factors that will impact their usage.

FUEL FORECAST



The fuel cost forecast is developed based on:

- Existing commodity fuel contracts (for natural gas or coal)
- Forecasted natural gas prices
- Forecasted ERCOT wholesale market power prices



REGULATORY FORECAST

The regulatory cost forecast is developed based on:

- Forecasted ERCOT peak demand
- Forecasted CPS Energy peak demand
- Forecasted rate cases by other utilities
- CPS Energy's strategy for filing transmission cost recovery applications with the PUCT





RETAIL REVENUE FORECAST



CHARTS ARE ILLUSTRATIVE

The retail revenue forecast is developed based on:

- Load forecast
- Fuel cost forecast
- Regulatory cost forecast
- Current or proposed rates

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	2039	25.792%	25 792%	25.792%	25.792%	25.792%	25.792%	25.792%	28.308%	28.308%	28.308%	28.308%	
1	2040	28.308%	28,308%	28.308%	28.308%	28.308%	28.308%	28,308%	28.308%	28.308%	28.308%	28.308%	
	2041	28.308%	28.308%	28.308%	28 308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	
1	2042	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	
	2043	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	
	2044	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	28.308%	
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F	r	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JA
	2019	51,819,161.75	47,095,971.76	45,334,677.06	54,004,495.56	84,796,807.91	96,052,772.20	97,170,837.21	97,706,572.32	58,333,682.16	52,381,096.19	49,724,613.47	
	2020	52,646,642.36	47,464,080.99	45,917,921.74	55,067,609.48	82,760,072.80	95,398,003.51	102,569,969.78	95,470,898.94	61,236,783.30	50,521,785.67	51,053,699.71	
	2021	58,602,422.68	52,604,161.27	53,750,987.31	58,514,497.47	87,143,479.19	107,374,274.82	108,813,694.69	99,813,594.87	68,165,799.07	54,935,286.19	56,898,027.50	
3	2022	58,339,282.75	53,727,139.62	54,195,060.12	58,889,166.56	92,782,491.91	105,280,114.67	104,507,010.55	107,372,384.73	67,772,923.46	57,649,031.07	57,315,137.59	
	2023	62,986,956.43	57,867,635.13	56,491,567.84	65,561,940,11	99,913,177.12	112,344,081.97	113,468,864.04	114,587,473.10	70,640,304.06	64,084,331.35	59,995,147.24	
	2024	64,330,118.08	58,719,787.44	57,012,527.16	67,141,413.71	98,157,248.11	112, 196, 431.86	120,180,606.48	112,649,774.09	74,195,588.59	62,227,168.46	62,607,743.74	
-	2025	68,950,988.53	62,1/1,541.89	63,623,294.90	68,918,267.86	102,741,908.12	126,601,376.74	128,158,865.32	117,966,992.35	80,447,035.59	64,824,775.09	66,975,364.26	
-	2026	68,767,167.93	63,607,115.19	64,303,130.28	69,512,708.55	109,633,685.14	124,319,610.20	123, 162, 835.69	127,223,737.67	80,205,465.74	68,245,342.05	67,506,063.52	
-	2027	72,576,490.04	67,020,866.19	65,648,508.94	75,892,233.89	115,744,358.01	130,008,078.81	131,211,309.53	132,993,001.61	81,943,358.53	74,408,765.30	69,160,219.66	
-	2028	74,120,263.06	60,064,900,30	00,201,710.77	77,755,417,40	113,714,569.35	129,945,824.44	139,219,734.12	130,649,169.70	86,145,941.30	72,274,958.01	72,315,761.99	
-	2029	79,430,020.70	71,870,564.49	73,711,556.45	79,751,094.19	110,921,115.76	140,000,737.05	140,300,020.40	130,959,723.63	93,204,247.77	75,170,002.00	70.005.005.40	
-	2030	0 407 009 11	74,940,650,60	73 200 229 07	00,501,330.20	127,175,200.00	144, 143,034.32	146 251 016 72	140.011.040.07	93,071,105.30	13,213,321.35 93,107,676,47	76,025,035.43	
1	2031	92 212 649 81	76.013.003.09	74 035 321 00	96,936,330,506,46	127,240,138,13	145,100,418.88	140,351,310.72	145,011,040.97	01,007,700.10	80 977 495 90	90,507,409,10	
-	2032	02,212,043.01 04 127 622 11	76 544,075.51	70 607 646 04	95 022 411 99	120,000,110,00	166 626 240 27	100,003,317.44	140,734,520.40	09 676 222 42	80 270 049 24	92 200 909 42	
-	2033	94 295 955 71	70,044,103.03	70 602 410 02	95,032,411.00	120,000,110.00	154 091 322 24	162 699 670 29	169 227 620 29	00 620 220 47	24 740 697 94	92,309,000.42	
-	2034	86 291 331 30	79 957 665 88	78 519 727 10	90 801 057 67	138 690 407 76	155 757 450 56	157 088 257 94	160 026 333 11	98 176 174 97	89 277 978 12	82 810 722 12	
-	2036	88 572 926 17	81 529 015 32	79 629 873 28	93 402 727 31	136 784 910 45	156 346 551 52	167 403 260 76	157 912 762 09	103 648 143 94	87 076 026 23	86 933 908 89	
	2037	90 748 518 51	82 207 548 94	84 687 545 09	91 418 070 90	136 453 897 25	168 390 210 17	170 265 656 22	163 037 267 65	111 030 068 30	89 473 435 47	91 998 587 41	
	2038	94 061 872 54	87 383 353 32	88 916 703 37	95 908 095 81	151 717 346 05	171 859 173 84	170 235 191 21	176 438 586 51	111 030 909 45	94 540 786 72	93 092 790 41	
	2039	96 303 935 76	89.035.553 72	87 534 486 19	101.144.038 94	154 452 465 56	173 402 747 37	174 857 336 62	181 603 443 61	111.473 184 21	101,495,415,92	94 129 338 30	
1	2040	100 809 401 58	92 586 383 51	90 234 450 15	106.113.414.43	155 279 803 41	177.311.569.05	190.010.785.13	179.061.102.30	117,586,524,84	98 837 307 05	98 973 411 29	
	2041	102 962 751 28	92 992 220 10	95 898 279 00	103 541 142 50	154 637 756 04	190 739 906 71	192 868 842 08	178 494 622 51	121 252 753 22	97 925 046 34	100 824 103 85	
	2042	102,965,945 04	95,473,615 92	97.163.868.13	104.671.619.42	165,793,386,76	187,868,703 24	185.871.684.78	193,129,987 42	121,233,078 04	103.272.399.58	102.082.054.92	
	2043	105.422.584.02	97.080.909.68	95.608.370.24	110.427.693.33	168,720,586.05	189,530,513.02	190.914.543.84	194,702,352,53	119,433,152,85	108.694.339.65	100.926.240.77	
5	2044	107.879.149.27	98.690.664.30	96.609.231.72	113,493,182,86	166.233.028.43	189,779,067,45	203.315.975.92	191.399.795.32	125,793,915,01	105.622.163.81	105.671.626.04	

The retail revenue forecast estimates revenue for the next 25 years.

WHOLESALE REVENUE FORECAST

Wholesale revenue forecast is developed based on:

- Projected cost to operate • generators
- Projected wholesale ٠ market power prices
- Known or expected long • term contracts
- ERCOT market conditions •
- Weather •



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REVENUE FORECAST (SOURCES OF REVENUE)



* To be refreshed in subsequent planning cycles.

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QUESTIONS & DISCUSSION



GENERATION PLANNING

A generation forecast is developed based on:

- Load forecast for the community
- Existing generation units & their capacity
- Forecasted wholesale market prices
- Weather
- Strategic initiatives



REVENUE REQUIREMENTS (USES OF REVENUE)



	Historica	al		Proposed	Projected *
\$3,500					\$3,044.3
\$3,000 \$2,808. ທ	3 \$2,602.	2 \$2,5	511.2	\$2,715.7	
<u>0</u> \$2,500		+- / -			
\$2,000					
_ \$1,500 በ					
\$1,000					
\$500				_	
\$0					
FY2019	FY2020	FY2	2021	FY2022	FY2023
Operating Expenses	Debt Requirement	nts R&R 6%	of Revenue	City Payment	R&R Remaining
	FY2019	FY2020	FY2021	FY2022	FY2023
Operating Expense	es <u>\$ 1,608.4</u>	\$ 1,497.2	\$ 1,555.5	5 \$ 1,712.8	\$ 1,822.1
Debt Requirement	s 419.7	393.8	394.1	1 410.3	469.4
R&R 6% of Reven	ue 168.5	156.1	150.7	7 162.9	182.7
City Payment	361.4	343.0	330.6	5 360.3	399.5
R&R Remaining	250.3	212.1	80.3	3 69.4	170.6
Total Uses	\$ 2,808.3	\$ 2,602.2	\$ 2,511.2	2 \$ 2,715.7	\$ 3,044.3

* To be refreshed in subsequent planning cycles.

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O&M & CAPITAL PLANNING

O&M and Capital Plans are developed based on:

- Forecasted number of employees, salaries & cost of benefits
- Expected transmission, distribution & generation projects
- Cost of energy efficient & demand response programs
- Expected technology projects



O&M DETAIL: LABOR PLANNING





Labor planning is developed based on:

- Current employee
 headcount
- Current vacancies & timing of filling those positions
- Estimated overtime & employee expenses
- Estimated pension & benefits costs



O&M DETAIL: NON-LABOR O&M

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Non-Labor O&M planning is developed based on:

- System reliability & asset management maintenance schedules
- Estimated resources & capacity needed from outside contractors
- Costs of materials & supplies
- Costs of tools, equipment & software
- Maintenance costs for facilities & vehicles



CAPITAL DETAIL: PROJECT PLANNING





Capital project planning is developed based on:

- Estimated customer requests (system growth)
- System reliability & asset management maintenance schedules
- Replacement timing for equipment (major & minor)
- Costs for facilities & vehicles



FINANCING PLAN

A financing plan is developed based on:

- Projected capital expenditures
- Projected cash balances & capital funding mix (i.e., funding debt vs. cash)
- Meeting financial metric targets:
 - Debt-to-capitalization
 - Adjusted Debt Service
 Coverage Ratios
- State of current capital markets



FINANCING PLAN FUNDING ALLOCATIONS





he plan to fund capital is developed to provide for adequate cash balances & long-term debt / equity targets.

* To be refreshed in subsequent planning cycles.



WHAT'S IMPORTANT TO RATING AGENCIES? (UNDER MOODY'S METHODOLOGY) CDS

FACTOR	WEIGHT
Management of Generation Risk, Cost, Reliability	10%
Rate Competitiveness	10%
Financial Strength & Liquidity	30%
Cost Recovery Framework	25%
Willingness & Ability to Recover Costs	25%



Our Moody's rating of Aa1 is based upon these factors, as well as an overall qualitative assessment of our Company.



FINANCIAL METRICS



The number of times our operating cash flow could cover our debt costs.	(Gross Rev. – Oper. Expense – City Payment) ÷ Debt Service
The number of days of operating expenses that our current level of cash could cover.	(R&R Account + General Fund) ÷ (Operating Expense ÷ 365)
The proportion of our total capital structure that is comprised of issued debt.	(Outstanding Debt) ÷ (Outstanding Debt + Equity)
ese metrics to ensure fi liquidity.	inancial strength and
	The number of times our operating cash flow could cover our debt costs. The number of days of operating expenses that our current level of cash could cover. The proportion of our total capital structure that is comprised of issued debt.

FINANCIAL TARGETS





Strat	egic	Levers
	_	

- 1. Financing Plan (new debt)
- 2. Rate Plan
- 3. Reduction of O&M / Capital

The budget is developed to maintain key financial metrics at target levels. Meeting financial metrics is necessary to maintain strong credit ratings.

RATING ACTIONS WINTER STORM URI



	Rating (Changes	New Outlook /
Rating Agency	Ser	nior	Watch
	Prior	New	
Fitch	AA+	AA-	Negative Outlook
Moody's	Aa1	No Change	Negative Outlook
Standard & Poor's (S&P)	AA	AA-	Credit Watch Negative

Strong credit keeps our borrowing costs low.

RATINGS AGENCIES RECENT RATING ACTIONS





MOODY

"The Negative Outlook also reflects the broader economic stress caused by the pandemic, coupled with community perceptions ... which could impact city council's willingness to approve, without delay, any proposed rate increases."

CPS Energy's various strengths include: "competitive retail rates <u>despite a high General Fund transfer requirement</u>, a competitive, reliable and diverse power supply ..."

S&P Global Ratings

"In particular, we will consider whether the magnitude of any rate increases the utility may need to seek weakens our assessment of its market position or if fixed-charge coverage metrics come under pressure."

The ratings agencies recognized the need for us to seek rate increases to maintain financial stability and keep metrics healthy. A_{40}



QUESTIONS & DISCUSSION





INTEGRATED PLANNING PROCESS



INTEGRATED PLANNING PROCESS



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Integrated Planning results in a strategic business plan for each business unit.





Strategic & Risk Landscape Align on key Risks & AES's through Guiding Pillars

Financial & Budget Planning Forecast cost & revenues to inform budget allocation

Enterprise Portfolio & Projects Prioritize & plan work to insure wisest investments

Risk & Compliance Planning Assess & develop mitigations to tactical risks

Business & Metrics Planning

Incorporated plans with measurements of performance

Benchmarking

Assessment of performance compared to peers

Leadership & Business Area Engagement



BUSINESS PLANS



- STRATEGIC CONT
- The utility industry is rapidly evolving. \underline{T} <u>& analysis</u> are key to making sound decis
- Customer expectations continue to rise. to meet their needs, they will look to othe
- Our team members are interested in grov in their careers. <u>Engagement & developr</u> opportunities are paramount to retaining
- Key stakeholders are looking at our decis Environmental, Social & Governance (ESG) prism.
- New rules, regulations & our rapidly changing industry require our team to be <u>continuous learners</u>.
- We have to challenge ourselves as much about <u>what could</u> <u>happen (risks)</u> as we do about what we expect to happen. Our ability to <u>embrace & optimize new technology</u> will be
- Our ability to emprace & optimize new technology will be critical in our success.
- Teaching our teams to make connections is "powerful".
- COVID-19 has likely forever changed the way we will function. <u>Adapting to the "new normal</u>" will determine success.

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TOTAL TOTAL BILL THE FULL IMPACT ON THE CUSTOMER MATTERS



	stomer Numb	per:		7000076
Previous B	ill			\$187.58
Payments Payment 0 Subtotal	& Adjustmer 7/16/21	its		-\$188.00
Balance				-\$0.42
Residentia Service Av. Energy Ch Peak Capa Fuel Adjust Regulatory Total Elect	al Electric ailability Charg arge 2,235 kW city Charge 1, ment 2,235 kW Adj 2,235 kW tric Bill (Non-	ge /h x \$0.0691 .635 kWh x \$ Wh x \$0.017 h x \$0.01230 Taxable)	60.0198 51 6	\$8.75 \$154.44 \$32.37 \$39.13 <u>\$27.62</u> \$262.31
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The "Total Total Bill" impact to customers includes:

- Current and future trend in usage
- Current and future fuel & regulatory costs
- The cost of the strategic initiative being considered



QUESTIONS & DISCUSSION





Thank You





Appendix

