RAC GENERATION PLAN PORTFOLIO SCORING

December 6, 2022

PORTFOLIO METRIC RESULTS

	System Reliability & Climate Resiliency				Environmental Sustainability				Affordability				System Flexibility		Workforce Impact	
	Diversity of Generation Mix	Capacity Head-room	Extreme Weather Exposure		Progress Towards City of SA CAAP Goals				Energy Cost ($/MWh)		Present Value (PV) Revenue Requirements		Market Purchases	Dispatch-ability	CPS Energy Workforce Impact	Local Economic Impact
	Generation Mix (MWh)	Expected Reserve Margin (%)	Rev. Req. Extreme Weather ($Billion)	% of CPS Energy Consumption That Is Met Through ERCOT Market Purchases	% CO2 Intensity Reduction Relative to 2016 (Ref Scenario)	Emission Intensity (lb CO2/MWh)		% Reduction In Consumption Due To STEP	Reference Scenario Average Cost ($/MWh)	Range in Cost in all Scenarios ($/MWh)	Ref Scenario ($Billion)	Range Across all Scenarios ($Billion)	% Of CPS Energy Consumption that is Met Through ERCOT Market Purchases	% of CPS Energy Capacity that is Dispatchable	# of Impacted CPS Energy Generation Employees	Capital Expenditures For New Generation Capacity Built In Greater San Antonio Area ($Millions)
	2030	*2030*	*2030*	*2030*	*2030*	*2030*	*2040*	*2030*	*2023 - 2030*		*2023 – 2030*	*2023 – 2030*	*2030*	*2030*	*2030*	*2023 – 2030*
P1		13.7%	$1.70	1.0%	37%	578	547	9.7%	$58.07	$52-60	$8.58	$7.87-8.58	1%	61%	155	$2,758
P2		15.7%	$2.04	3.1%	44%	518	350	9.7%	$60.04	$55-63	$8.85	$8.19-8.99	4%	57%	170	$2,004
P3		14.5%	$3.26	12.8%	65%	321	161	9.7%	$60.58	$56-63	$8.90	$8.36-8.98	13%	46%	345	$1,310
P4		15.3%	$2.02	6.1%	30%	641	361	9.7%	$59.16	$53-61	$8.72	$7.99-8.72	7%	63%	90	$1,787
P5		15.0%	$3.28	13.5%	65%	325	161	9.7%	$60.47	$55-62	$8.88	$8.23-8.88	13%	46%	355	$866
P6		13.2%	$3.27	19.6%	78%	200	31	9.7%	$65.34	$61-69	$9.54	$9.07-9.68	18%	39%	355	$4,041
P7		13.1%	$3.34	19.7%	78%	202	35	9.7%	$65.96	$61-69	$9.63	$9.14-9.76	18%	39%	355	$4,041
P8		15.4%	$2.79	11.2%	59%	378	160	9.7%	$60.67	$55-62	$8.92	$8.20-8.92	11%	48%	295	$548
P9		14.6%	$2.69	7.9%	60%	371	160	9.7%	$58.64	$54-59	$8.65	$8.04-8.65	9%	46%	295	$548

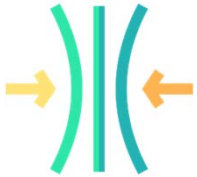
Nuclear · Geothermal · Coal · Gas
Gas Toll · Wind · Solar · Other
Storage · Hydrogen · Energy Efficiency

Legend: Less Favorable — More Favorable

GENERATION PLANNING OBJECTIVES

AS SCORED BY RAC MEMBERS

System Reliability
RAC: 18 (31%)



System Flexibility
RAC: 5 (8%)

Environmental
Sustainability
& Climate Resiliency*
RAC: 13 (22%)

Workforce Impact
RAC: 1 (2%)

Affordability
RAC: 12 (20%)

CPS Energy
Financial Stability
RAC: 10 (17%)

Adjusted RAC Dot Plot	Count	Percent
Reliability	18	37%
Environmental	13	27%
Affordability	12	24%
Flexibility	5	10%
Workforce	1	2%
Total	49	100%
Notes:		
1. Financial Stability Removed		

Adjusted dot plot tallies applied to quantitative assessment on next slide.

RAC numbers represent "Dot Plot" vote tallies out of 59 total from August RAC meeting

* "Climate Resiliency" was later paired with "System Reliability" per RAC advice.

RAC QUANTITATIVE SCORING - UNWEIGHTED

1. Assigned metric scores per the scale (Table 1)
2. Calculated an unweighted average score by Objective (Table 2)
3. Calculated a weighted total score by Portfolio (Table 3)

Scale

1	2	3	4

Note: Refer to Portfolio Metric Results Scorecard

Portfolios	System Reliability & Climate Resiliency				Environmental Sustainability				Affordability				System Flexibility		Workforce Impact	
	Diversity of Generation Mix	Capacity Headroom	Extreme Weather Exposure		Progress Towards City of SA CAAP Goals				Energy Cost ($/MWh)		Present Value (PV) Revenue Requirements		Market Purchases	Dispatchability	CPS Energy Workforce Impact	Local Economic Impact
	Generation Mix (MWh)	Expected Reserve Margin (%)	Rev. Req. Extreme Weather ($Billion)	%of CPS Energy consumption that is met through ERCOT market purchases	%CO2 Intensity Reduction Relative to 2016 (Ref Scenario)	Emission Intensity (lb CO2/MWh)		%reduction in consumption due to STEP	Reference Scenario Average Cost ($/MWh)	Range in Cost in all Scenarios ($/MWh)	Ref Scenario ($Billion)	Range Across all Scenarios ($Billion)	%of CPS Energy consumption that is met through ERCOT market purchases	%of CPS Energy Capacity that is Dispatchable	# of Impacted CPS Energy Generation Employees	Capital expenditures for new generation capacity built in greater San Antonio area ($Millions)
	2030	2030	2030	2030	2030	2030 | 2040		2030	2023 - 2030		2023 – 2030	2023 – 2030	2030	2030	2030	2023 – 2030
P1	1	2	4	4	See Note 1	1	1	4	4	2	See Note 2	2	4	4	3	3
P2	2	4	4	4	See Note 1	2	2	4	2	2	See Note 2	2	4	4	3	3
P3	3	2	1	2	See Note 1	3	3	4	2	2	See Note 2	4	2	2	1	2
P4	2	4	4	3	See Note 1	1	2	4	4	2	See Note 2	2	4	4	4	2
P5	3	4	1	2	See Note 1	3	3	4	2	4	See Note 2	2	2	2	1	1
P6	2	1	1	1	See Note 1	4	4	4	1	2	See Note 2	4	1	1	1	4
P7	2	1	1	1	See Note 1	4	4	4	1	2	See Note 2	4	1	1	1	4
P8	4	4	2	2	See Note 1	3	3	4	2	2	See Note 2	2	2	2	2	1
P9	4	2	2	3	See Note 1	3	3	4	4	4	See Note 2	4	4	2	2	1

Unweighted Portfolios	System Reliability & Climate Resiliency	Environmental Sustainability	Affordability	System Flexibility	Workforce Impact	Unweighted Total Score
P1	2.75	2.00	2.67	4.00	3.00	14.42
P2	3.50	2.67	2.00	4.00	3.00	15.17
P3	2.00	3.33	2.67	2.00	1.50	11.50
P4	3.25	2.33	2.67	4.00	3.00	15.25
P5	2.50	3.33	2.67	2.00	1.00	11.50
P6	1.25	4.00	2.33	1.00	2.50	11.08
P7	1.25	4.00	2.33	1.00	2.50	11.08
P8	3.00	3.33	2.00	2.00	1.50	11.83
P9	2.75	3.33	4.00	3.00	1.50	14.58

Notes:

1. **% CO2 intensity metric was not used since it is redundant to CO2 intensity in lb/MWh.**
2. **Reference PV of Revenue Requirements in $B was not used since it is redundant to Reference Average Cost in $/MWh.**

RAC QUANTITATIVE SCORING - WEIGHTED

1. Assigned metric scores per the scale (Table 1)
2. Calculated an unweighted average score by Objective (Table 2)
3. Calculated a weighted total score by Portfolio (Table 3)

Scale

1	2	3	4

Note: Refer to Portfolio Metric Results Scorecard

Portfolios	System Reliability & Climate Resiliency				Environmental Sustainability				Affordability				System Flexibility		Workforce Impact	
	Diversity of Generation Mix	Capacity Headroom	Extreme Weather Exposure		Progress Towards City of SA CAAP Goals				Energy Cost ($/MWh)		Present Value (PV) Revenue Requirements		Market Purchases	Dispatchability	CPS Energy Workforce Impact	Local Economic Impact
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P1	1	2	4	4	See Note 1	1	1	4	4	2	See Note 2	2	4	4	3	3
P2	2	4	4	4	See Note 1	2	2	4	2	2	See Note 2	2	4	4	3	3
P3	3	2	1	2	See Note 1	3	3	4	2	2	See Note 2	4	2	2	1	2
P4	2	4	4	3	See Note 1	1	2	4	4	2	See Note 2	2	4	4	4	2
P5	3	4	1	2	See Note 1	3	3	4	2	4	See Note 2	2	2	2	1	1
P6	2	1	1	1	See Note 1	4	4	4	1	2	See Note 2	4	1	1	1	4
P7	2	1	1	1	See Note 1	4	4	4	1	2	See Note 2	4	1	1	1	4
P8	4	4	2	2	See Note 1	3	3	4	2	2	See Note 2	2	2	2	2	1
P9	4	2	2	3	See Note 1	3	3	4	4	4	See Note 2	4	4	2	2	1

Weighted Portfolios	System Reliability & Climate Resiliency / System Flexibility	Environmental Sustainability	Affordability	System Flexibility	Workforce Impact	Weighted Total Score
Weighting	**37%**	**27%**	**24%**	**10%**	**2%**	**100%**
P1	1.01	0.53	0.65	0.41	0.06	2.19
P2	1.29	0.71	0.49	0.41	0.06	2.48
P3	0.73	0.88	0.65	0.20	0.03	2.27
P4	1.19	0.62	0.65	0.41	0.06	2.47
P5	0.92	0.88	0.65	0.20	0.02	2.46
P6	0.46	1.06	0.57	0.10	0.05	2.09
P7	0.46	1.06	0.57	0.10	0.05	2.09
P8	1.10	0.88	0.49	0.20	0.03	2.48
P9	1.01	0.88	0.98	0.31	0.03	2.87

Notes:

1. **% CO2 intensity metric was not used since it is redundant to CO2 intensity in lb/MWh.**
2. **Reference PV of Revenue Requirements in $B was not used since it is redundant to Reference Average Cost in $/MWh.**

DISCUSSION