

Tampa Electric Company

Ten-Year Site Plan Comparison

Customer Forecast

	2021 TYSP			2022 TYSP		
Year	Residential Customers	Commercial Customers	Industrial Customers	Residential Customers	Commercial Customers	Industrial Customers
2019	685,122	76,038	1,516	N/A	N/A	N/A
2020	698,493	76,790	1,408	698,493	76,790	1,408
2021	710,565	77,160	1,400	713,135	78,115	1,382
2022	722,797	77,855	1,402	724,906	79,374	1,392
2023	734,626	78,464	1,403	737,780	80,193	1,393
2024	746,020	79,002	1,404	750,216	80,925	1,394
2025	756,932	79,497	1,403	762,148	81,493	1,395
2026	767,181	79,947	1,403	773,350	81,711	1,396
2027	777,030	80,373	1,403	784,094	81,737	1,397
2028	786,505	80,788	1,402	794,413	81,857	1,397
2029	795,630	81,194	1,401	804,351	82,105	1,397
2030	804,321	81,591	1,401	813,840	82,451	1,397
2031	N/A	N/A	N/A	822,806	82,762	1,398
Average Annual Growth Rate (%)	1.42	0.61	-0.05	1.44	0.58	0.12

Other Forecast Values

2021 TYSP

Metric	2020 Starting Value	Average Annual Growth Rate (%)
Summer Peak Demand (MW)	4,053	1.06%
Winter Peak Demand (MW)	3,336	1.18%
Net Energy for Load (GWh)	21,055	0.87%
Natural Gas (\$/MMBtu)	2.28	7.3%

2022 TYSP

Metric	2021 Starting Value	Average Annual Growth Rate (%)
Summer Peak Demand (MW)	4,108	0.67%
Winter Peak Demand (MW)	3,247	0.84%
Net Energy for Load (GWh)	21,033	0.60%
Natural Gas (\$/MMBtu)	4.03	1.2%

Source: Schedule 3.1.1, 3.2.1, 3.3.1

Generation Additions

	WINTER	2021 TYSP	2022 TYSP
Year	Type	MW ¹	MW ¹
2021	PV ²	287	N/A
	CC	-	
	CT	700	
	Battery Storage	-	
	Other	(395)	
	Retirements	(395)	
	Total	197	
2022	PV ²	224	361
	CC	335	335
	CT	84	84
	Battery Storage	-	-
	Other		
	Total	643	780
2023	PV ²	150	234
	CC	-	-
	CT	-	-
	Battery Storage ³	-	15
	Other	65	65
	Retirements	(400)	(400)
	Total	(185)	(86)
2024	PV ²	150	-
	CC	-	-
	CT	-	-
	Battery Storage ³	-	100
	Other	37	-
	Other	80	80
	Total	267	180

Source: Schedule 8

¹ Values shown are Winter capabilities

² TEC assumes zero firm capacity value for solar in the winter reserve margin calculation.

³ Supports winter reserve margin and provides system resiliency, system operational flexibility, and system efficiency.

Generation Additions

	WINTER	2021 TYSP	2022 TYSP
Year	Type	MW¹	MW¹
2025	PV ²	-	300
	CC	-	-
	CT	-	-
	Battery Storage ³	50	-
	Other	-	37
	Retirements	-	-
	Total	50	337
2026	PV ²	150	74
	CC	-	-
	CT	-	-
	Battery Storage ³	50	-
	Other	-	-
	Retirements	-	-
	Total	200	74
2027	PV ²	-	74
	CC	-	-
	CT	-	-
	Battery Storage ³	50	50
	Other	-	-
	Retirements	-	-
	Total	50	124
2028	PV ²	150	74
	CC	-	-
	CT	-	-
	Battery Storage ³	50	-
	Other	-	37
	Retirements	-	-
	Total	200	111

Source: Schedule 8

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Generation Additions

	WINTER	2021 TYSP	2022 TYSP
Year	Type	MW ¹	MW ¹
2029	PV ²	-	74
	CC	-	-
	CT	-	-
	Battery Storage ³	50	50
	Other	-	-
	Retirements	-	-
	Total	50	124
2030	PV ²	150	74
	CC	-	-
	CT	-	-
	Battery Storage ³	50	-
	Other	-	-
	Retirements	-	-
	Total	200	74
2031	PV ²	N/A	74
	CC		-
	CT		-
	Battery Storage ³		50
	Other		-
	Retirements		-
	Total		124

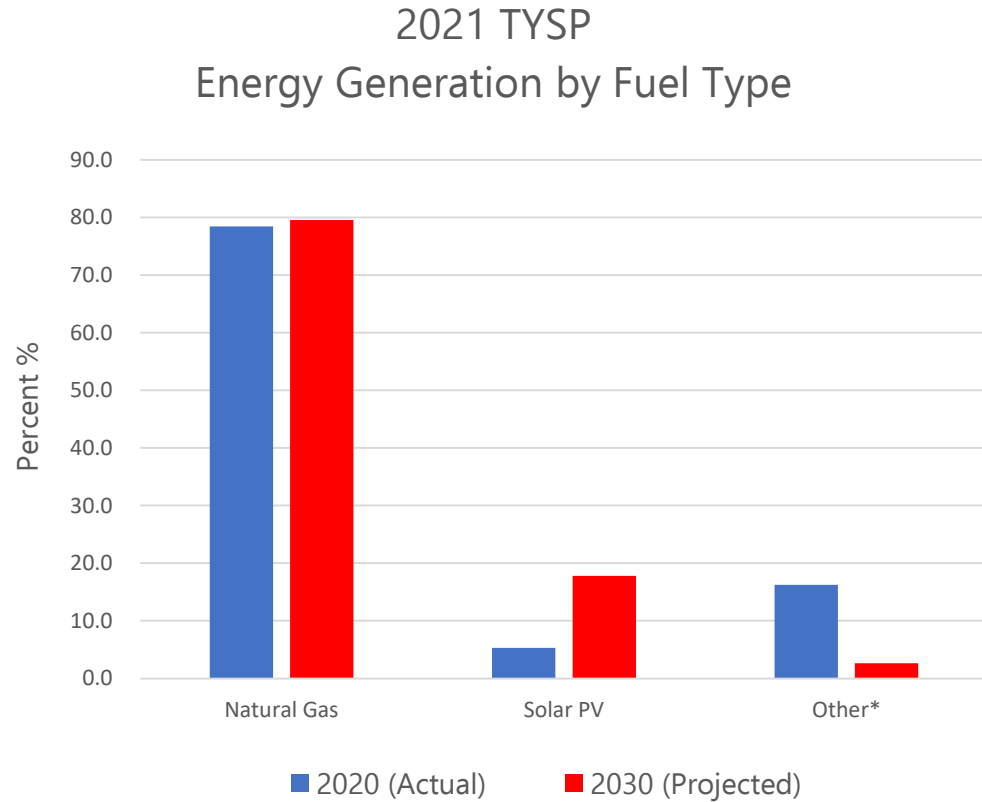
Source: Schedule 8

¹ Values shown are Winter capabilities

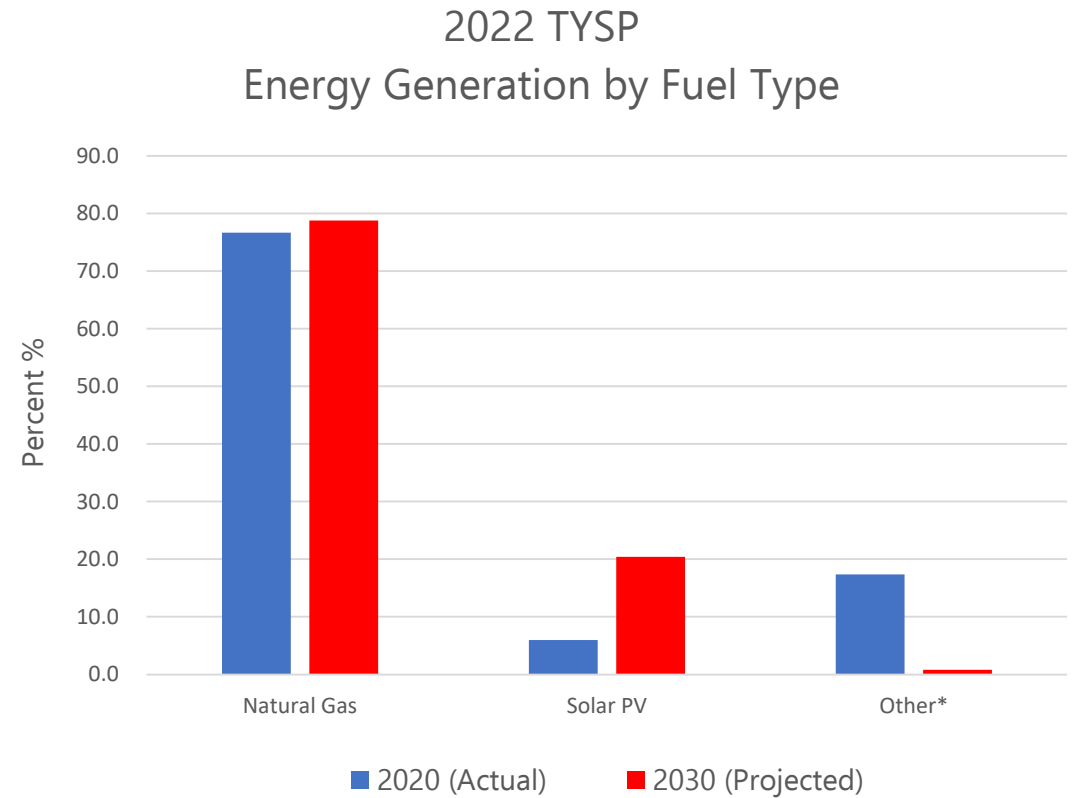
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Energy Generation by Fuel Type



*Includes Coal, Oil, and Purchased Power Contracts



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Summer Reserve Margins

Summer	2021 TYSP		2022 TYSP	
Year	Reserve Margin (MW)	% of Peak	Reserve Margin (MW)	% of Peak
2021	821	21%	N/A	N/A
2022	1,166	29%	1,177	29%
2023	1,287	32%	1,294	32%
2024	1,414	34%	1,565	38%
2025	1,492	36%	1,568	38%
2026	1,500	36%	1,708	41%
2027	1,591	38%	1,774	43%
2028	1,597	37%	1,827	44%
2029	1,687	39%	1,893	45%
2030	1,697	39%	1,910	45%
2031	N/A	N/A	1,978	47%

Winter Reserve Margins

Winter Year	2021 TYSP		2022 TYSP	
	Reserve Margin (MW)	% of Peak	Reserve Margin (MW)	% of Peak
20/21	1,046	25%	N/A	N/A
21/22	872	20%	1,182	28%
22/23	967	22%	989	23%
23/24	919	21%	966	22%
24/25	904	20%	1,022	23%
25/26	908	20%	1,023	23%
26/27	912	20%	1,040	23%
27/28	916	20%	1,046	23%
28/29	919	20%	1,064	24%
29/30	925	20%	1,034	23%
30/31	N/A	N/A	1,056	23%