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June 29, 2022

**VIA: ELECTRONIC FILING**

Mr. Adam J. Teitzman  
Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

Re: Review of Tampa Electric Company's 2022 Ten-Year Site Plan  
Staff's Third Data Request (Nos. 1-11)  
**Undocketed 20220000-OT**

Dear Mr. Teitzman:

Pursuant to an email from Donald Phillips to Tampa Electric Company dated June 8, 2022, enclosed for filing on behalf of Tampa Electric Company is the company's responses to Staff's Third Data Request (Nos. 1-11) regarding the company's 2022 Ten-Year Site Plan.

Thank you for your assistance in connection with this matter.

Sincerely,

A handwritten signature in blue ink that reads 'Malcolm N. Means'.

Malcolm N. Means

MNM/bmp  
Attachments

cc: Donald Phillips (w/o enc.) [dphillip@psc.state.fl.us](mailto:dphillip@psc.state.fl.us)  
TECO Regulatory Department

**TAMPA ELECTRIC COMPANY  
UNDOCKETED: REVIEW OF TYSP'S  
THIRD DATA REQUEST  
REQUEST NO. 1  
BATES PAGE: 1  
FILED: JUNE 29, 2022**

1. Page 40 of TECO's 2022 Ten Year Site Plan (TYSP), Schedule 3.1, History and Forecast of Summer Peak Demand (MW), reflects 5 MWs of summer peak demand reductions for Residential Conservation in 2021 (the 2021 value for Column 7 [174] less the 2020 value for Column 7 [169]), and no reductions for Residential Load Management. In TECO's Demand Side Management Annual Report for 2021, dated April 14, 2022 (a/k/a "FEECA filing"), Page 1, the Company reported that it achieved 6.4 MWs of residential summer peak demand reductions in 2021. Please explain the variance between the amount of residential summer peak demand reduction reported in Schedule 3.1 for 2021, compared to the amount reflected the FEECA filing.
  - A. The variance between the amount of residential summer peak demand reduction reported in the company's Ten Year Site Plan Schedule 3.1 for 2021 and the amount reflected in the company's Annual Demand Side Management ("DSM") report for 2021 (FEECA filing) is due to adjustments made to build into the company's load forecast a more accurate reflection of the energy and demand contributions from the conservation participating customers. These adjustments are necessary due to actual system parameters and the timing difference of DSM participants. For example, if a customer participates in one of the company's DSM Programs, the contributions of energy and demand for the FEECA filing will be the same regardless of the participation occurring on the first day or the last day of the year. These adjustments include using average incremental change customer counts for the year and using different line-loss percentages.

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- 2.** Page 46 of TECO's 2022 Ten Year Site Plan (TYSP), Schedule 3.3, History and Forecast of Annual Net Energy for Load (GWh), reflects 12 GWhs of reductions for Residential Conservation in 2021 (the 2021 value for Column 3 [656 GWhs] less the 2020 value for Column 3 [644 GWhs]). In TECO's Demand Side Management Annual Report for 2021, dated April 14, 2022 (a/k/a "FEECA filing"), Page 1, the Company reported that it achieved 16.4 GWhs of reductions in 2021. Please explain the variance between the amounts of residential reduction reported in in Schedule 3.3 for 2021, compared to the amount reflected the FEECA filing.
  - A.** The variance between the amount of residential annual energy reported in the company's TYSP Schedule 3.1 for 2021 and the amount reflected in the company's Annual FEECA filing for 2021 is due to the same adjustments explained in Response No. 1 above.

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 REQUEST NO. 3  
 BATES PAGES: 3 – 4  
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3. For the purpose of this question, please review the following table. For each time period presented in the table, please explain the variance between the values presented in the Goals Order (as shown in Column 2) and the TYSP values shown in Column 3.

(1)	(2)	(3)
Year	Summer Peak Demand Goals – Residential (MW)*	Residential Load Management and Conservation (MW)**
2022	3.0	14 (2022 value for Column 6 minus the 2021 value for Column 6 [1] + 2022 value for Column 7 minus the 2021 value for Column 7 [13])
2023	2.9	14 (2023 value for Column 6 minus the 2022 value for Column 6 [3] + 2023 value for Column 7 minus the 2022 value for Column 7 [11])
2024	2.5	15 (2024 value for Column 6 minus the 2023 value for Column 6 [4] + 2024 value for Column 7 minus the 2023 value for Column 7 [11])
*Summer Peak Demand Goals (Residential) appear on Page 18, in Order No. PSC-2019-0509-FOF-EG (“Goals Order”). **TECO 2022 TYSP Base Case, Schedule 3.1, History and Forecast of Summer Peak Demand, Page 40, Columns (6) and (7).		

- A. The table below provides the Residential Summer Peak Demand (‘kW”) Goals in MegaWatts (“MW”) for Tampa Electric’s for the years 2022, 2023, and 2024 in comparison to the company’s TYSP that was filed on April 1, 2022, and to the projected Summer Peak kW savings that were included in the company’s Commission approved DSM Plan that was approved in Order No. PSC-2020-0291-CO-EG on August 28, 2020. The TYSP values used in the Base Case are values that are updated for the future years based upon three inputs. The first input would be the projected participation for each DSM program and the projected typical savings that savings within the company’s DSM Plan. The second input could be a potential change to the projected participation the company is seeing in an individual DSM program and finds it necessary to adjust the future participation. The third input to the TYSP which would cause a difference between the Summer Peak kW is that not all of the company’s Residential DSM programs are allowed to contribute toward the achievement of the company’s Commission approved DSM Goals. These residential DSM programs that are not included in the contribution are: Residential Walk-Through

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Energy Audit (Free Energy Check), Residential Customer Assisted Energy Audit (Online), and Residential Computer Assisted Energy Audits (RCS-Paid Audit).

	Summer Peak Demand Goals Residential (MW)	TYSP Values "Base Case" Residential (MW)	Approved 2020-2029 DSM Plan Projected
2022	3.0	14	12.9
2023	2.9	14	15.6
2024	2.5	15	15.6

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 REQUEST NO. 4  
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4. For the purpose of this question, please review the following table. For each time period presented in the table, please explain the variance between the values presented in the Goals Order (as shown in Column 2) and the TYSP values shown in Column 3.

(1)	(2)	(3)
Year	Winter Peak Demand Goals – Residential (MW)*	Residential Load Management and Conservation (MW)**
2022	7.4	10 (2022 value for Column 6 minus the 2021 value for Column 6 [0] + 2022 value for Column 7 minus the 2021 value for Column 7 [10])
2023	6.8	12 (2023 value for Column 6 minus the 2022 value for Column 6 [2] + 2023 value for Column 7 minus the 2022 value for Column 7 [10])
2024	6.1	14 (2024 value for Column 6 minus the 2023 value for Column 6 [4] + 2024 value for Column 7 minus the 2023 value for Column 7 [10])
<p>*Winter Peak Demand Goals (Residential) appear on Page 18, in Order No. PSC-2019-0509-FOF-EG (“Goals Order”).</p> <p>**TECO 2022 TYSP Base Case, Schedule 3.1, History and Forecast of Winter Peak Demand, Page 43, Columns (6) and (7).</p>		

- A. The table below provides the Residential Winter Peak kW Goals in MW for Tampa Electric’s for the years 2022, 2023, and 2024 in comparison to the company’s TYSP that was filed on April 1, 2022, and to the projected Winter Peak kW savings that were included in the company’s Commission approved DSM Plan that was approved in Order No. PSC-2020-0291-CO-EG on August 28, 2020. The TYSP values used in the Base Case are values that are updated for the future years based upon three inputs. The first input would be the projected participation for each DSM program and the projected typical savings that savings within the company’s DSM Plan. The second input could be a potential change to the projected participation the company is seeing in an individual DSM program and finds it necessary to adjust the future participation. The third input to the TYSP which would cause a difference between the Winter Peak kW is that not all of the company’s Residential DSM programs are allowed to contribute toward the achievement of the company’s Commission approved DSM Goals. These residential DSM programs that are not included in the contribution are: Residential Walk-Through Energy Audit (Free Energy Check),

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Residential Customer Assisted Energy Audit (Online), and Residential Computer Assisted Energy Audits (RCS-Paid Audit).

	Winter Peak Demand Goals Residential (MW)	TYSP Values "Base Case" Residential (MW)	Approved 2020-2029 DSM Plan Projected
2022	7.4	10	12.1
2023	6.8	12	14.3
2024	6.1	14	14.3

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5. For the purpose of this question, please review the following table. For each time period presented in the table, please explain the variance between the values presented in the Goals Order (as shown in Column 2) and the TYSP values shown in Column 3.

(1)	(2)	(3)
Year	Summer Peak Demand Goals - Commercial/ Industrial (MW)	Commercial/Industrial Load Management and Conservation (MW)
2022	3.3	16 (2022 value for Column 8 minus the 2021 value for Column 8 [8] + 2022 value for Column 9 minus the 2021 value for Column 9 [8])
2023	3.5	6 (2023 value for Column 8 minus the 2022 value for Column 8 [0] + 2023 value for Column 9 minus the 2022 value for Column 9 [6])
2024	3.2	6 (2024 value for Column 8 minus the 2023 value for Column 8 [0] + 2024 value for Column 9 minus the 2023 value for Column 9 [6])
<p>*Summer Peak Demand Goals (Commercial/Industrial) appear on Page 18, in Order No. PSC-2019-0509-FOF-EG ("Goals Order").  **TECO 2022 TYSP Base Case, Schedule 3.1, History and Forecast of Summer Peak Demand, Page 40, Columns (8) and (9).</p>		

- A. The table below provides the Commercial/Industrial Summer Peak kW Goals in MW for Tampa Electric's for the years 2022, 2023, and 2024 in comparison to the company's TYSP that was filed on April 1, 2022, and to the projected Summer Peak kW savings that were included in the company's Commission approved DSM Plan that was approved in Order No. PSC-2020-0291-CO-EG on August 28, 2020. The TYSP values used in the Base Case are values that are updated for the future years based upon three inputs. The first input would be the projected participation for each DSM program and the projected typical savings that savings within the company's DSM Plan. The second input could be a potential change to the projected participation the company is seeing in an individual DSM program and finds it necessary to adjust the future participation. The third input to the TYSP which would cause a difference between the Summer Peak kW is that not all of the company's Commercial/Industrial DSM programs are allowed to contribute toward the achievement of the company's Commission approved DSM Goals. These Commercial/Industrial DSM programs that are not included in the contribution are: Commercial/Industrial Audit (Free),



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Comprehensive Commercial/Industrial Audit (Paid), and the Street and Outdoor Lighting Conversion program.

	Summer Peak Demand Goals Commercial/Industrial (MW)	TYSP Values "Base Case" Commercial/Industrial (MW)	Approved 2020-2029 DSM Plan Projected
2022	3.3	16	5.4
2023	3.5	6	5.5
2024	3.2	6	5.5

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6. For the purpose of this question, please review the following table. For each time period presented in the table, please explain the variance between the values presented in the Goals Order (as shown in Column 2) and the TYSP values shown in Column 3.

(1)	(2)	(3)
Year	Winter Peak Demand Goals – Commercial/Industrial (MW)*	Commercial/Industrial Load Management and Conservation (MW)
2022	1.9	11 (2022 value for Column 8 minus the 2021 value for Column 8 [5] + 2022 value for Column 9 minus the 2021 value for Column 9 [6])
2023	1.8	5 (2023 value for Column 8 minus the 2022 value for Column 8 [0] + 2023 value for Column 9 minus the 2022 value for Column 9 [5])
2024	1.7	6 (2024 value for Column 8 minus the 2023 value for Column 8 [1] + 2024 value for Column 9 minus the 2023 value for Column 9 [5])
*Winter Peak Demand Goals (Commercial/Industrial) appear on Page 18, in Order No. PSC-2019-0509-FOF-EG (“Goals Order”) **TECO 2022 TYSP Base Case, Schedule 3.1, History and Forecast of Winter Peak Demand, Page 43, Columns (8) and (9).		

- A. The table below provides the Commercial/Industrial Winter Peak kW Goals in MW for Tampa Electric’s for the years 2022, 2023, and 2024 in comparison to the company’s TYSP that was filed on April 1, 2022, and to the projected Winter Peak kW savings that were included in the company’s Commission approved DSM Plan that was approved in Order No. PSC-2020-0291-CO-EG on August 28, 2020. The TYSP values used in the Base Case are values that are updated for the future years based upon three inputs. The first input would be the projected participation for each DSM program and the projected typical savings that savings within the company’s DSM Plan. The second input could be a potential change to the projected participation the company is seeing in an individual DSM program and finds it necessary to adjust the future participation. The third input to the TYSP which would cause a difference between the Winter Peak kW is that not all of the company’s Commercial/Industrial DSM programs are allowed to contribute toward the achievement of the company’s Commission approved DSM Goals. These Commercial/Industrial DSM programs that are not included in the contribution are: Commercial/Industrial Audit (Free),

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Comprehensive Commercial/Industrial Audit (Paid), and the Street and Outdoor Lighting Conversion program.

	Winter Peak Demand Goals Commercial/Industrial (MW)	TYSP Values "Base Case" Commercial/Industrial (MW)	Approved 2020-2029 DSM Plan Projected
2022	1.9	11	10.2
2023	1.8	5	6.9
2024	1.7	6	4.3

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7. For the purpose of this question, please review the following table. For each time period presented in the table, please explain the variance between the values presented in the Goals Order (as shown in Column 2) and the TYSP values shown in Column 3.

(1)	(2)	(3)
Year	Annual Energy Conservation Goals - Residential (GWh)*	Residential Conservation (GWh)**
2022	6.9	30 (2022 value for Column 3 minus the 2021 value for Column 3)
2023	6.3	27 (2023 value for Column 3 minus the 2022 value for Column 3)
2024	5.5	27 (2024 value for Column 3 minus the 2023 value for Column 3)
*Annual Energy Conservation Goals (Residential) appear on Page 18, in Order No. PSC-2019-0509-FOF-EG ("Goals Order"). **TECO 2022 TYSP Base Case, Schedule 3.3, History and Forecast of Annual Net Energy for Load, Page 46, Column (3).		

- A. The table below provides the Residential Annual Energy Conservation Goals in GigaWatt hours ("GWh") for Tampa Electric's for the years 2022, 2023, and 2024 in comparison to the company's TYSP that was filed on April 1, 2022, and to the projected Annual Energy GWh savings that were included in the company's Commission approved DSM Plan that was approved in Order No. PSC-2020-0291-CO-EG on August 28, 2020. The TYSP values used in the Base Case are values that are updated for the future years based upon three inputs. The first input would be the projected participation for each DSM program and the projected typical savings that savings within the company's DSM Plan. The second input could be a potential change to the projected participation the company is seeing in an individual DSM program and finds it necessary to adjust the future participation. The third input to the TYSP which would cause a difference between the Annual Energy GWh is that not all of the company's Residential DSM programs are allowed to contribute toward the achievement of the company's Commission approved DSM Goals. These residential DSM programs that are not included in the contribution are: Residential Walk-Through Energy Audit (Free Energy Check), Residential Customer Assisted Energy Audit (Online), and Residential Computer Assisted Energy Audits (RCS-Paid Audit).

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	Annual Energy Conservation Goals Residential (GWh)	TYSP Values "Base Case" Residential (GWh)	Approved 2020-2029 DSM Plan Projected
2022	6.9	30	25.8
2023	6.3	27	27.0
2024	5.5	27	27.0

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 REQUEST NO. 8  
 BATES PAGES: 13 - 14  
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8. For the purpose of this question, please review the following table. For each time period presented in the table, please explain the variance between the values presented in the Goals Order (as shown in Column 2) and the TYSP values shown in Column 3.

(1)	(2)	(3)
Year	Annual Energy Conservation Goals - Commercial/Industrial (GWh)*	Commercial/Industrial Conservation (GWh)**
2022	10.2	35 (2022 value for Column 4 minus the 2021 value for Column 4)
2023	9.9	29 (2023 value for Column 4 minus the 2022 value for Column 4)
2024	9.6	29 (2024 value for Column 4 minus the 2023 value for Column 4)
*Annual Energy Conservation Goals (Commercial/Industrial) appear on Page 18, in Order No. PSC-2019-0509-FOF-EG ("Goals Order").		
**TECO 2022 TYSP Base Case, Schedule 3.3, History and Forecast of Annual Net Energy for Load, Page 46, Column (4).		

- A. The table below provides the Commercial/Industrial Annual Energy Conservation Goals in GWh for Tampa Electric's for the years 2022, 2023, and 2024 in comparison to the company's TYSP that was filed on April 1, 2022, and to the projected Annual Energy GWh savings that were included in the company's Commission approved DSM Plan that was approved in Order No. PSC-2020-0291-CO-EG on August 28, 2020. The TYSP values used in the Base Case are values that are updated for the future years based upon three inputs. The first input would be the projected participation for each DSM program and the projected typical savings that savings within the company's DSM Plan. The second input could be a potential change to the projected participation the company is seeing in an individual DSM program and finds it necessary to adjust the future participation. The third input to the TYSP which would cause a difference between the Annual Energy GWh is that not all of the company's Commercial/Industrial DSM programs are allowed to contribute toward the achievement of the company's Commission approved DSM Goals. These Commercial/Industrial DSM programs that are not included in the contribution are: Commercial/Industrial Audit (Free), Comprehensive Commercial/Industrial Audit (Paid), and the Street and Outdoor Lighting Conversion program.

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	Annual Energy Conservation Goals Commercial/Industrial (GWh)	TYSP Values "Base Case" Commercial/Industrial (GWh)	Approved 2020-2029 DSM Plan Projected
2022	6.9	35	44.9
2023	6.3	29	31.2
2024	5.5	29	20.0

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REQUEST NO. 9  
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9. Please refer to TECO's 2021 TYSP, pages 36 and 39, TECO's 2022 TYSP, pages 34 and 37, and Table 1 below for the following questions:

Table 1: TECO's Projections of Retail Sales and Total Number of Customers								
Year	Schedule 2.2, Base Case, column (8)				Schedule 2.3, Base Case, column (6)			
	Total Sales to Ultimate Customers				Total No. of Customers			
	2021 TYSP, page 36		2022 TYSP, page 34		2021 TYSP, page 39		2022 TYSP, page 37	
	GWH	Annual Growth (%)	GWH	Annual Growth (%)	No. of Customers	Annual Growth (%)	No. of Customers	Annual Growth (%)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2020	19,954		19,954		786,047		786,047	
2021	19,553	-2.01%	20,093	0.70%	798,579	1.59%	802,050	2.04%
<b>2022</b>	19,776	1.14%	<b>19,812</b>	<b>-1.40%</b>	811,592	1.63%	<b>815,178</b>	<b>1.64%</b>
2023	19,980	1.03%	19,965	0.77%	824,116	1.54%	828,917	1.69%
2024	20,131	0.76%	20,109	0.72%	836,133	1.46%	842,136	1.59%
2025	20,292	0.80%	20,233	0.62%	847,627	1.37%	854,689	1.49%
2026	20,446	0.76%	20,345	0.55%	858,412	1.27%	866,163	1.34%
2027	20,607	0.79%	20,450	0.51%	868,773	1.21%	876,988	1.25%
2028	20,788	0.88%	20,564	0.56%	878,751	1.15%	887,484	1.20%
2029	20,973	0.89%	20,687	0.60%	888,371	1.09%	897,725	1.15%
2030	21,141	0.80%	20,800	0.55%	897,545	1.03%	907,615	1.10%
2031			20,905				916,948	1.03%
Average Annual Growth Rate (AAGR):								
2021-2030		0.87%				1.31%		
2022-2031				0.60%				1.32%
Sources of Data: TECO's 2021 TYSP, pages 36 and 39; and TECO's 2022 TYSP, pages 34 and 37.								

- a. Referring to Table 1, columns (1), (2), (7) and (8), please explain the reasons or causes for the projected 2022 decreases in retail sales given the projected increase in customer numbers for the same year.
- b. As indicated in Table 1, over the 2021 TYSP forecast horizon, TECO's projected average annual growth rate (AAGR) of Total Number of Customers and Total Sales to Ultimate Customers is 1.31 percent and 0.87 percent, respectively. Over the 2022 TYSP forecast horizon, TECO's projected AAGR of Total Number of Customers and Total Sales to Ultimate Customers is 1.32 percent and 0.60 percent, respectively. Please explain why, in the 2022 TYSP, the Company projected 10-year AAGR of Total Number of Customers is similar to that which was projected in the 2021 TYSP, but the 10-year AAGR of Total Sales to Ultimate Customers is much lower than that was projected in the 2021 TYSP.



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- A.** a. The reasons for the projected 2022 decreases in retail sales given the projected increase in customer numbers for the same year is due to lower average use. Factors impacting average use include appliance efficiencies (especially lighting efficiencies), conservation, energy efficiencies of new homes and housing mix. In addition, there is an expectation of a return to more normal sales post pandemic with fewer individuals working/schooling from home which will also lower average use for the residential class.
- b. Within the 2022 TYSP, the company projected a 10-year AAGR of the Total Sales to Ultimate Customers of 0.60 percent and had reported a slightly more positive AAGR within to the 2021 TYSP of 0.87 percent for the same reasons as stated in the above answer.

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REQUEST NO. 10  
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- 10.** Please refer to TECO's Response to Staff's First Data Request, No. 19 for the following questions:
- a. Please identify the "independent third-party analyst" referenced in this response.
  - b. Please cite and identify any sources that support TECO's PEV forecast methodology.
- A.**
- a. The "independent third-party analyst" referenced in the response is IHS Markit.
  - b. Tampa Electric meets with an EIA transportation subject-matter-expert on at minimum once per year to discuss EV assumptions for reasonableness in addition to gaining insight on EV auto manufacturing and EV consumer trends.

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REQUEST NO. 11  
BATES PAGE: 18  
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11. Please refer to staff's First Data Request No. 19 (TECO's 2021 TYSP) and Staff's First Data Request No. 20 (TECO's 2022 TYSP). Comparing TECO's 2021 and 2022 TYSP's, the Company has increased its PEV forecast for 2022 by 56.3 percent (see charts/calculations below). Please identify the major drivers/factors in TECO's PEV forecasting models that have contributed to this significant increase.

A. A major driver which contributed to the significant increase in 2022's forecasted EV count was the new actual count of EVs for 2020 which grew by 56.6 percent over 2019's counts. Refer to the chart and graph below. A second major driver contributing to stronger growth in the 2022 TYSP was stronger Energy Information Administration [EIA] EV market penetration projections for the South Atlantic region compared to the prior year.

TYSP 2021					
actual	actual	actual	forecast	forecast	forecast
2017	2018	2019	2020	2021	2022
2,615	3,666	4,564	5,459	6,530	7,815
58.2%	40.2%	24.5%	19.6%	19.6%	19.7%

TYSP 2022					
actual	actual	actual	actual	forecast	forecast
2017	2018	2019	2020	2021	2022
2,615	3,666	4,564	7,145	9,634	12,218
58.2%	40.2%	24.5%	56.6%	34.8%	26.8%

Fcst 22 vs. Fcst 21
2022
56.3%

