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SOLAR IN THE SOUTHEAST

2018 Annual Report





INTRODUCTION

Solar in the Southeast illuminates the critical role of utilities in the growing southeastern solar market. Southeastern states, particularly Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee, grant monopoly utilities, rather than a competitive marketplace, the responsibility and control over power supplies. Consequently, the location of a home or business is the primary determinant not only of which utility will supply the electricity, but also the amount of solar within that portfolio.

To provide an equitable, unbiased comparison of various-sized utilities throughout the Southeast, SACE has ranked utilities on the basis of **watts per customer** (W/C) of solar power sourced to the customer. SACE has also calculated and forecast total installed capacity of solar power (in megawatts, MW) particularly for state comparisons.

Proper citation for this report: "Southern Alliance for Clean Energy (2019). Solar in the Southeast, 2018 Annual Report."

Solar in the Southeast 2018 Annual Report The purpose of this report is to document current progress and trends at both utility and state levels, as well as identify policies and practices to drive continued solar growth in the Southeast.

ABOUT SACE

The Southern Alliance for Clean Energy (SACE) is a nonprofit organization that promotes responsible energy choices to ensure clean, safe, and healthy communities throughout the Southeast. As a leading voice for energy policy in our region, SACE is a regional organization focused on transforming the way we produce and consume energy in the Southeast.





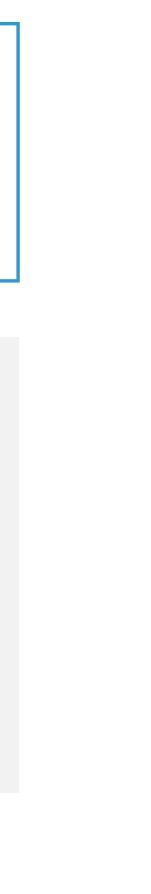
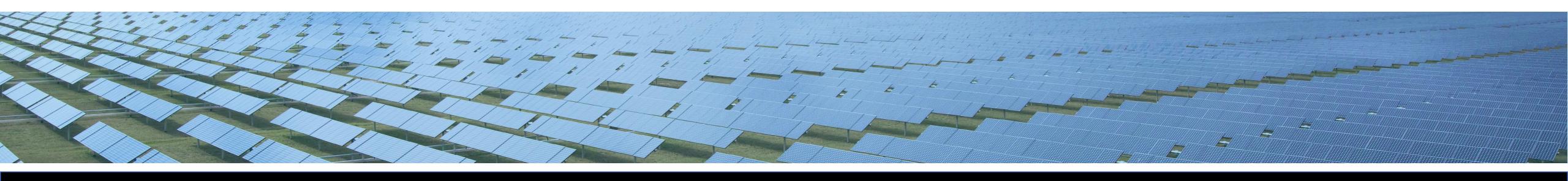


TABLE OF CONTENTS

- 1. Executive Summary
- 2. Southeast Solar Capacity Forecast
- 3. Large Utility System Rankings
- 4. Forecast for Select Utility Systems
- 5. Southeast Solar Momentum: "SunRis
- 6. 2018 Southeast Solar Snapshot
- 7. Forecast for Southeast States
- 8. State Profiles
- 9. Data Sources, Methods & Assumption
- 10. Contact Information
- 11. Appendices



	4
	5
	6
	7
sers"	8
	9
	11
	13
ons	21
	22
	23





EXECUTIVE SUMMARY

UTILITIES

- South Carolina Electric & Gas (SCE&G) emerged as a solar power player in 2018, joining Duke Energy Progress, Duke Energy Carolinas, and Georgia Power at the top of our leaderboard. Each of these utilities offers more than 400 watts of solar per customer (W/C).

- Fellow Palmetto State utility, Santee Cooper, resides at the bottom of the board for both 2018 and our 2022 forecast.

- Florida Power & Light (FPL) announced a bold commitment in 2019 that will propel it to solar leadership for the next decade.

STATES

- Florida is beginning to live up to its reputation as the Sunshine State, surpassing Georgia on installed capacity (MW) in 2018. By 2022, we also forecast solar capacity in Florida to exceed that of North Carolina.

- Even with major announcements from Facebook and Google, Tennessee and Alabama exhibit less than half the regional average throughout our forecast period (2022).

Solar growth continues in the Southeast (adding 65% in 2018). The region will surpass 10,000 MW in 2019. SACE now anticipates 19,000 MW by 2022, up from our prior projection of 15,000 by 2021.

2018 was a banner year for corporate leadership on solar (nationwide 2.8) gigawatts, GW according to Rocky Mountain Institute)¹ and the Southeast was no exception. Facebook drove major solar commitments in Georgia (203 MW), Alabama (227 MW) and Tennessee (150 MW). Google announced projects for Tennessee and Alabama (150 MW each) and also joined with Target, Walmart, and Johnson & Johnson, to contract with Georgia Power for 177 MW of solar.



Santee Cooper, North Carolina Electric Cooperatives, and Seminole Electric **Cooperative** are sticking with outdated plans for low levels of solar. Despite being home to several of the corporate projects above, **TVA** falls into this category, as well. We project that solar W/C for these four utilities will remain below today's

regional average W/C through at least 2022.

CONTINUED GROWTH

- CURRENT AND FUTURE LEADERS

Duke Energy Progress, SCE&G, Duke Energy Carolinas and Georgia Power are the current utility leaders ranked by watts per customer (W/C) offering unbiased identification of leaders in the southeast solar market. Walton EMC, FPL and Orlando Utilities Commission (OUC) join four returning "SunRisers" demonstrating leading levels of planned solar growth.

CORPORATE LEADERSHIP

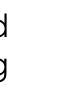
SUNBLOCKERS"

PV Magazine, December 18, 2018 Corporate solar procurement knocks it out of the park in 2018

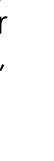










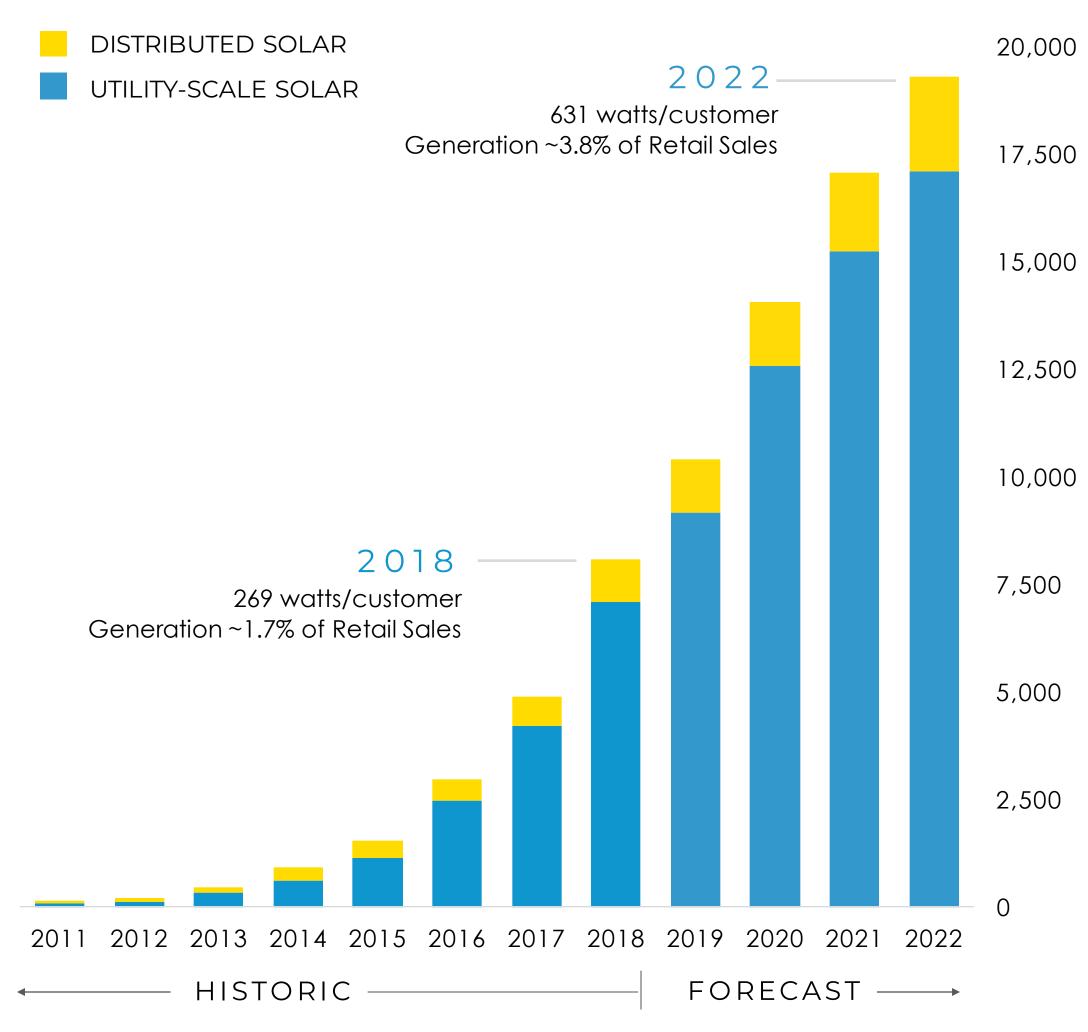






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Solar in the Southeast 2018 Annual Report

SOUTHEAST SOLAR CAPACITY FORECAST

GROWTH CONTINUES

The seven-state Southeast region featured over 8,000 MW of solar in 2018 and will comfortably surpass 10,000 MW in 2019. Based on utility and other industry forecasts, SACE has increased its forecast to 17,000 MW by 2021 and nearing 20,000 MW for 2022. Much of this growth represents existing contracts and commitments that remain highly certain.

UTILITY-SCALE SOLAR DOMINATES

Utility-scale solar is favored by an economic advantage, policies, and discretionary utility practices that discourage customer-sited solar ("behind the meter"). Individual projects as large as 200 MW are underway in the Southeast.

INCREASED ACCESS

Certain markets are poised for growth in distributed generation solar, as well. Legislation pending in South Carolina will extend net metering. The Florida Public Service Commission (PSC) approved solar lease designs that should promote further growth and opportunity. Florida utilities are also advancing shared/community solar programs that should expand access for customers interested in solar.

LIMITED GRID IMPACTS

Even with over 19,000 MW in 2022, the corresponding solar generation is less than 4% of retail sales, considerably below levels that could trigger changes in grid operation practices.



S



LARGE UTILITY SYSTEM RANKINGS

Systems with > 500,000 Customers	2018 WATTS/ CUSTOMER
DUKE ENERGY PROGRESSS	1,625
SC ELECTRIC & GAS	512
DUKE ENERGY CAROLINAS	508
GEORGIA POWER	426
SOUTHEAST AVERAGE	269
DUKE ENERGY FLORIDA	188
FLORIDA POWER & LIGHT	167
TAMPA ELECTRIC	157
OGLETHORPE POWER	152
TENNESSEE VALLEY AUTHORITY	84
ALABAMA POWER	67
NC ELECTRIC COOPERATIVES	45
SEMINOLE ELECTRIC CO-OP	24
SANTEE COOPER	22

Drivers of solar leadership vary. Currently the top three utilities (DEP, SCE&G, DEC) all hail from the Carolinas – North Carolina with a renewable energy and energy efficiency portfolio standard and South Carolina where major solar legislation is poised to pass for the second time in five years.

SCE&G leapt from below the Southeast regional average in 2017 to nearly double the regional average in 2018.

Georgia Power has continued deployment of its Renewable Energy Development Initiative (REDI). The Georgia Public Service Commission (PSC) has an opportunity to reinforce that legacy of leadership with comparable ambition in the 2019 Integrated Resource Plan (IRP).

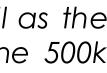
A four-year forecast to 2022 showcases three Florida utilities making great strides. FPL embarks on the boldest 10-year solar commitment of any utility in the country; Tampa Electric increases solar penetration almost six-fold; and the portfolio of Duke Energy Florida (DEF) starts to resemble that of its Carolina brethren.

Some southeastern utilities, however, fail to exhibit significant solar ambition. Of these largest utility systems (each serving > 500,000 customers), the bottom four (Santee Cooper, the North Carolina Electric Cooperatives, Seminole Electric, and the Tennessee Valley Authority, TVA) are each forecast in 2022 to remain below the 2018 regional average.

The 13 largest utility systems in the Southeast each serve more than 500k customers. This includes individual investor owned utilities like Georgia Power, as well as the combination of utilities organized into cooperatives like Oglethorpe and the federally-owned Tennessee Valley Authority. Also studied, but not exceeding the 500k customer benchmark, are several regional municipal power agencies.

SYSTEMS WITH > 500,000 CUSTOMERS	2(FORI
DUKE ENERGY PROGRESSS	2,
SC ELECTRIC & GAS	1,
TAMPA ELECTRIC	Ç
DUKE ENERGY CAROLINAS	Ç
GEORGIA POWER	3
FLORIDA POWER & LIGHT	7
DUKE ENERGY FLORIDA	6
SOUTHEAST AVERAGE	6
ALABAMA POWER	3
OGLETHORPE POWER	2
TENNESSEE VALLEY AUTHORITY	2
SEMINOLE ELECTRIC CO-OP	
NC ELECTRIC COOPERATIVES	
SANTEE COOPER	





FORECAST FOR SELECT UTILITY SYSTEMS

DUKE ENERGY LEADS THE SOUTHEAST

Duke Energy has more than half of all the solar in the Southeast. Duke Energy Progress (DEP) remains atop our leaderboard. Duke's Carolinas and Florida utilities (DEC and DEF) are both forecast to be above the regional average in 2022.

SOUTHERN COMPANY

Mississippi Power serves the smallest customer base but exhibits the highest solar ratio within Southern Company. The Georgia Public Service Commission has an opportunity with Georgia Power's 2019 Integrated Resource Plan (IRP) to ensure a legacy of solar leadership. Alabama Power is not yet demonstrating solar ambition comparable to the rest of Southern Company.

FLORIDA POWER & LIGHT

FPL recently announced the boldest 10-year solar commitment of any utility in the country. This will more than double the annual pace of solar expansion for the largest utility in the Southeast (4.9 million customers), FPL will exceed 3,500 MW of solar by 2022 (over 9,000 MW by 2029).

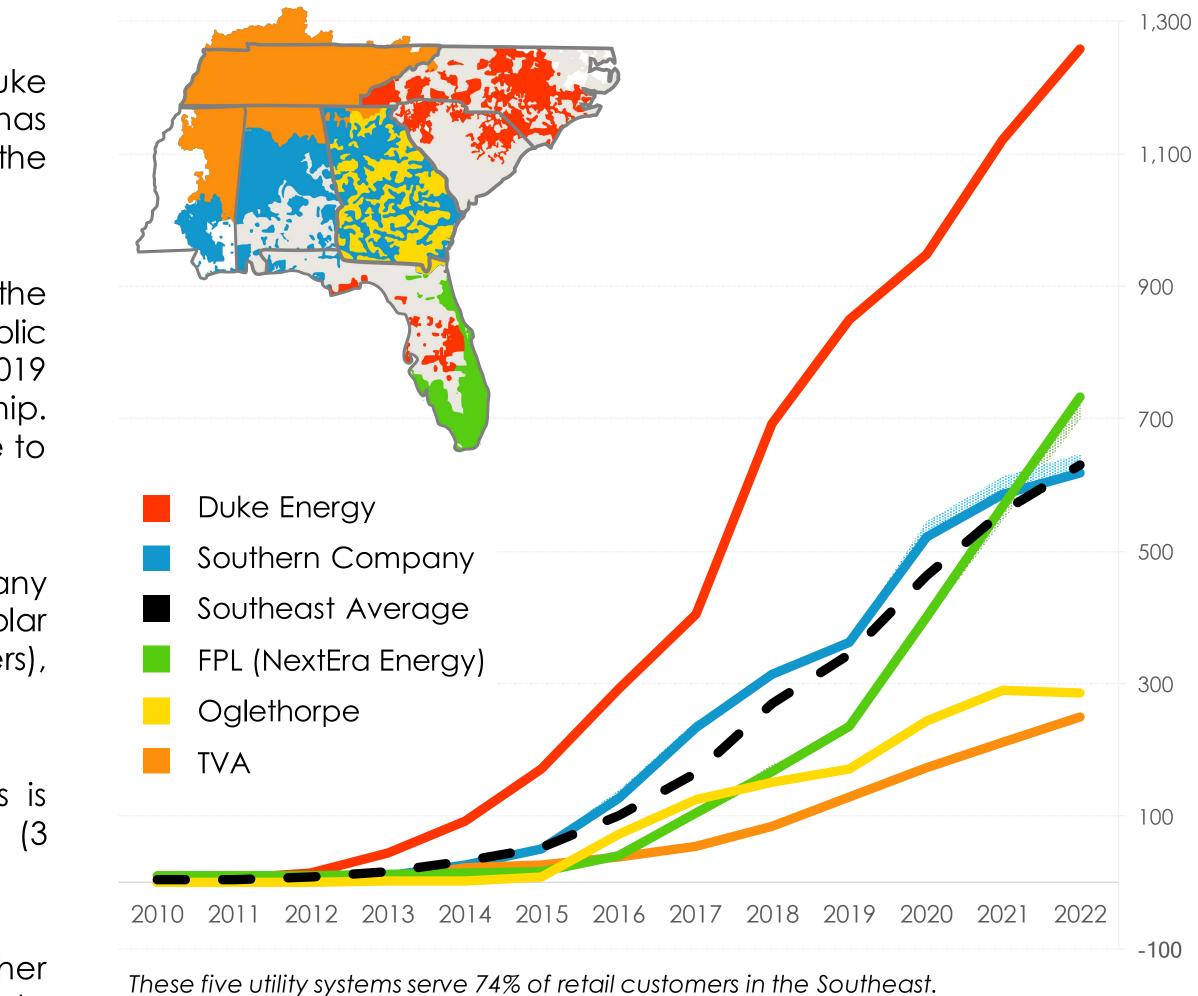
OGLETHORPE POWER

The increase in Oglethorpe's solar ratio over the next two years is largely attributable to the Walton EMC projects for Facebook (3) projects, 202.5 MW total).

TENNESSEE VALLEY AUTHORITY

TVA is planning solar exclusively for large corporate customers rather than serving its public power obligation. Despite being home to projects for Facebook and Google, TVA's forecast is just 251 W/C by 2022, well below the Southeast average.

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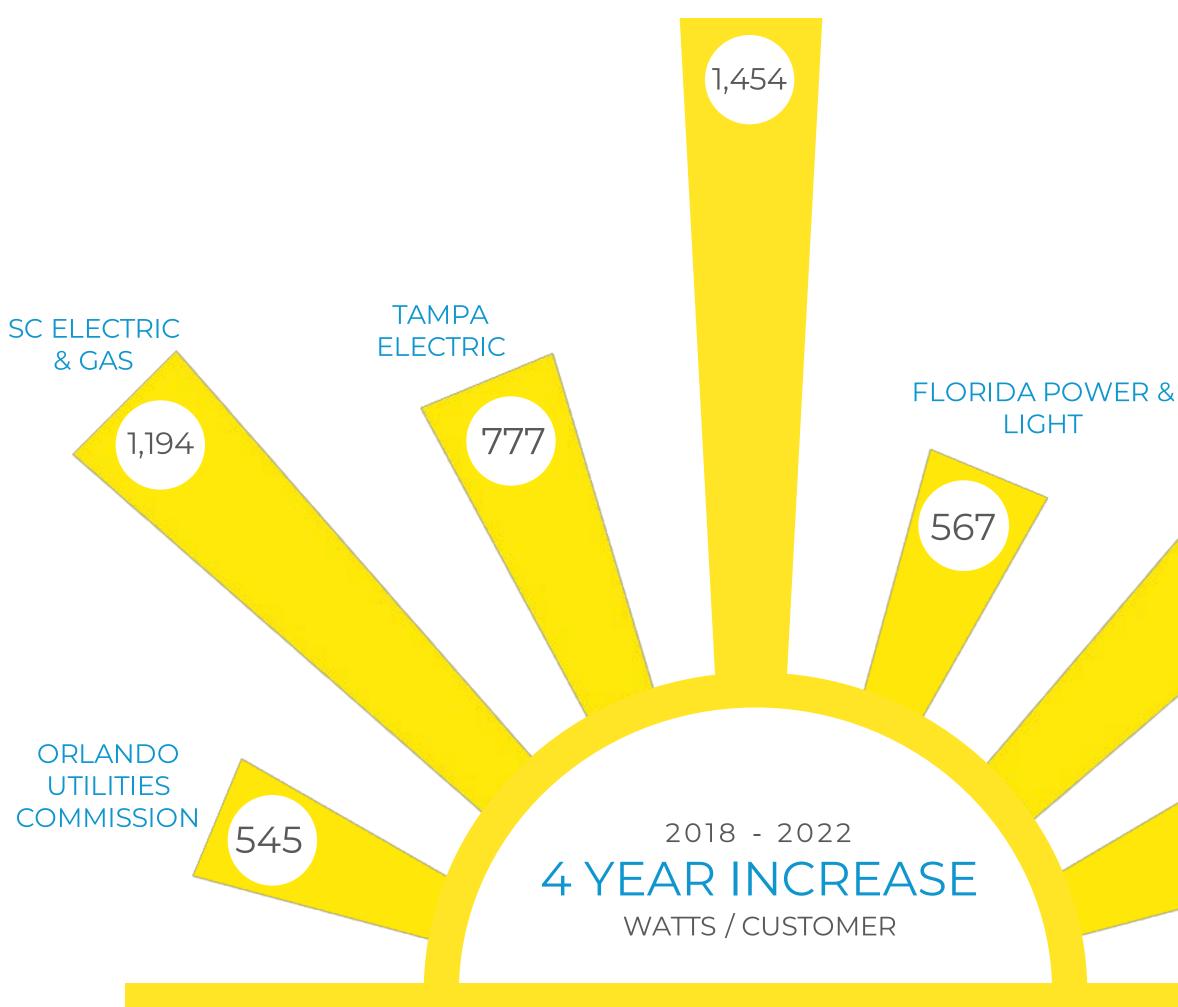
* Note: Gulf Power remained a unit of the Southern Company through 2018. That ownership transfer to NextEra will be reflected in the next update. Blue and green shaded areas illustrate the subtle effect that transaction will have on the forecast for both entities.





SOUTHEAST SOLAR MOMENTUM: SUNRISERS

WALTON EMC



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LOC SUNRISERS:

Walton EMC burst onto the SunRiser list by commissioning three major solar projects (202.5 MW total with two different developers) to serve a new Facebook datacenter in Georgia.

The other new entrants on the list include FPL with plans to double its annual pace of solar expansion (~750 MW per year for the next decade) and Orlando Utilities Commission (OUC) as the anchor tenant in a 223.5 MW project FMPA commissioned for 12 Florida municipal utilities. Through fulfillment of their ambitious plans, SCE&G, DEP, TECO, and JEA continue to earn distinction as SunRisers.

UTILITY	2018 W/C	2022 W/0
WALTON EMC	115	1,569
SC ELECTRIC & GAS	512	1,706
DUKE ENERGY PROGRESS	1,625	2,618
TAMPA ELECTRIC	157	934
FLORIDA POWER & LIGHT	167	734
ORLANDO (OUC)	168	713
JACKSONVILLE (JEA)	172	679

Minimum 100k customers

cleanenergy.org

DUKE **ENERGY PROGRESS** 993 JACKSONVILLE ELECTRIC **AUTHORITY** 507

Clean Energy







2018 SOUTHEAST SOLAR SNAPSHOT BY UTILITY



SOUTHERN COMPANY* 1,481 MW

FLORIDA **POWER & LIGHT** 797 MW

* Note: Gulf Power remained a unit of the Southern Company through 2018. That ownership transfer to NextEra will be reflected in the next update.

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OTHER UTILITIES 866 MW

OGLETHORPE POWER 305 MW

TENNESSEE VALLEY AUTHORITY 378 MW

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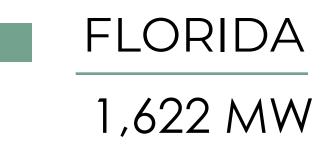




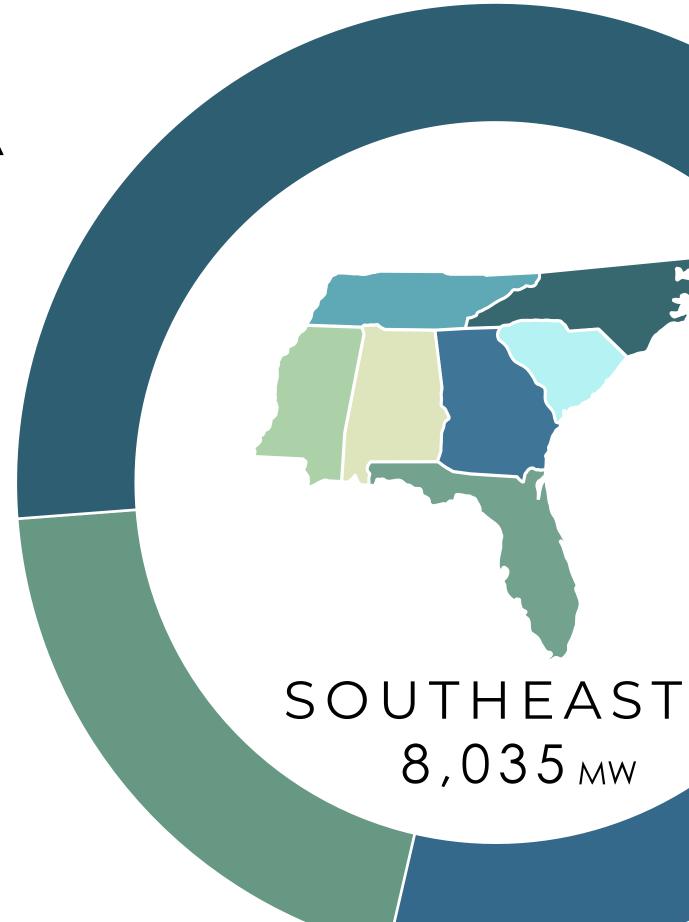


2018 SOUTHEAST SOLAR SNAPSHOT BY STATE









Solar in the Southeast 2018 Annual Report ALABAMA 153 MW

MISSISSIPPI 187 MW

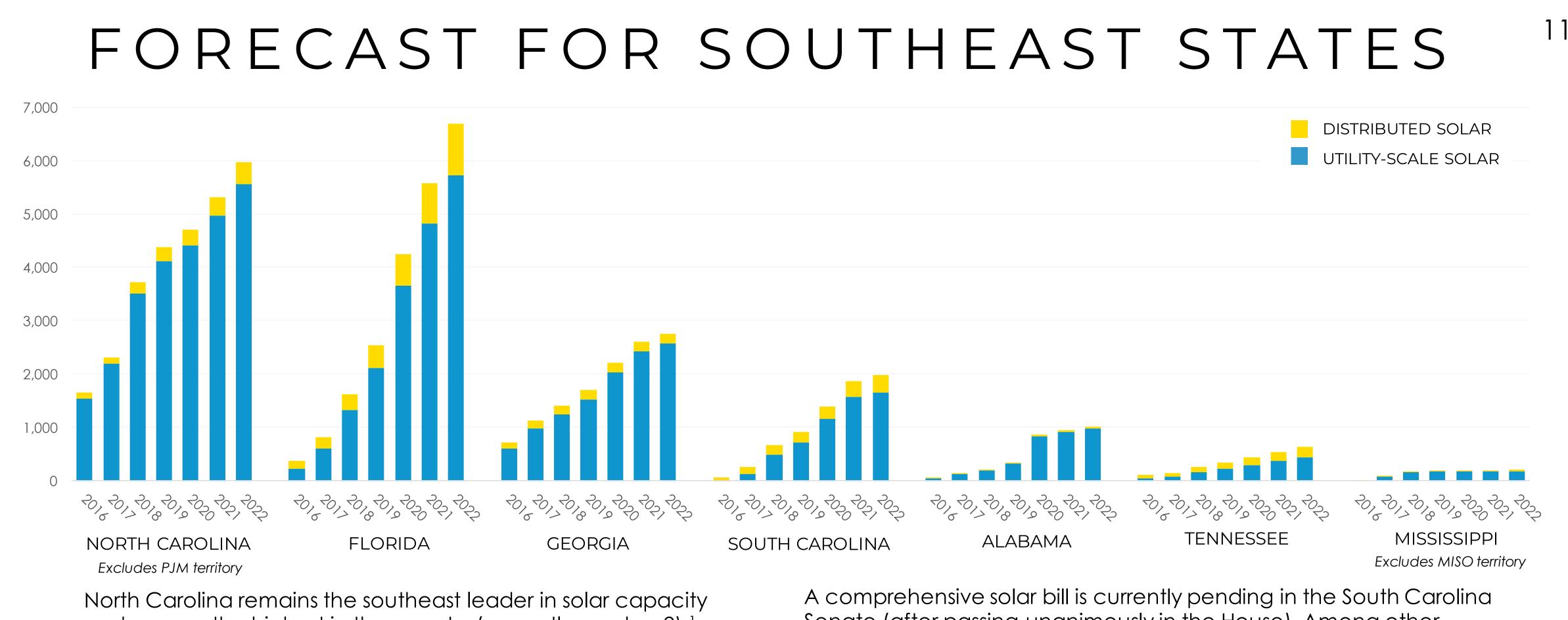
TENNESSEE 272 MW

SOUTH CAROLINA 1,116 MW

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and among the highest in the country (currently number 2).¹ Florida utilities surpassed Georgia in installed capacity (MW) during 2018 and will outshine North Carolina within this forecast period (by 2022). The Georgia PSC has an opportunity to ensure a legacy of leadership by insisting on expansion of both utility-scale and distributed solar in Georgia Power's 2019 IRP.

1. Solar Energy Industries Association. (2019, March 21). Solar Spotlight: North Carolina.

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Senate (after passing unanimously in the House). Among other provisions, the Energy Freedom Act will extend net metering in the Palmetto State. Our forecast includes additional expansion of distributed solar in Florida, as well, with approval last year of solar leasing programs from major parties.

Recent solar development in Alabama and Tennessee has been limited primarily to corporate purchases, rather than as an integrated resource serving all customers.





NORTH + SOUTH CAROLINA LEGISLATURES LEAD THE WAY

North Carolina's solar markets continue to thrive because of the 2017 Competitive Energy Solutions for North Carolina law (HB 589). That state will reach 6,000 MW by 2022.

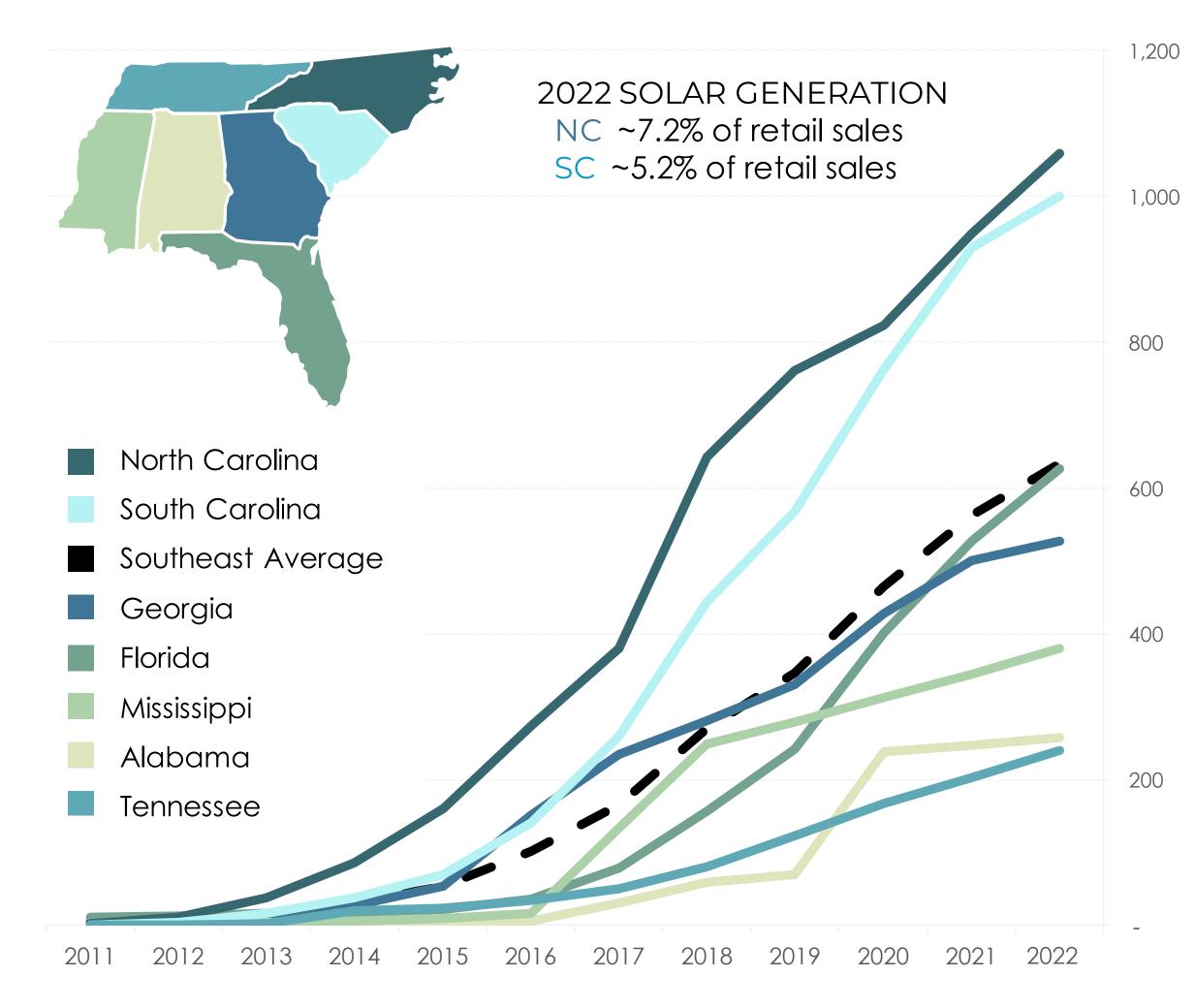
South Carolina's Energy Freedom Act, presently pending in the state Senate, is designed to sustain all segments of that vibrant solar market.

Florida is starting to live up to its moniker as the Sunshine State and will surpass Georgia on watts per customer solar ratio by 2021. However, that will only only reflect parity with the region average.

Tennessee, Alabama and Mississippi remain considerably off pace from the other states.

STATE	2017 W/C	2018 W/C	2022 W/C
NORTH CAROLINA	379	643	1,059
SOUTH CAROLINA	259	443	1,000
GEORGIA	235	280	527
SOUTHEAST	165	269	631
MISSISSIPPI	134	248	381
FLORIDA	78	157	626
TENNESSEE	51	81	240
ALABAMA	31	59	257

* This analysis excludes the portion of Kentucky served by TVA. Similarly, the PJM portion of North Carolina is excluded as is the MISO portion of Mississippi.





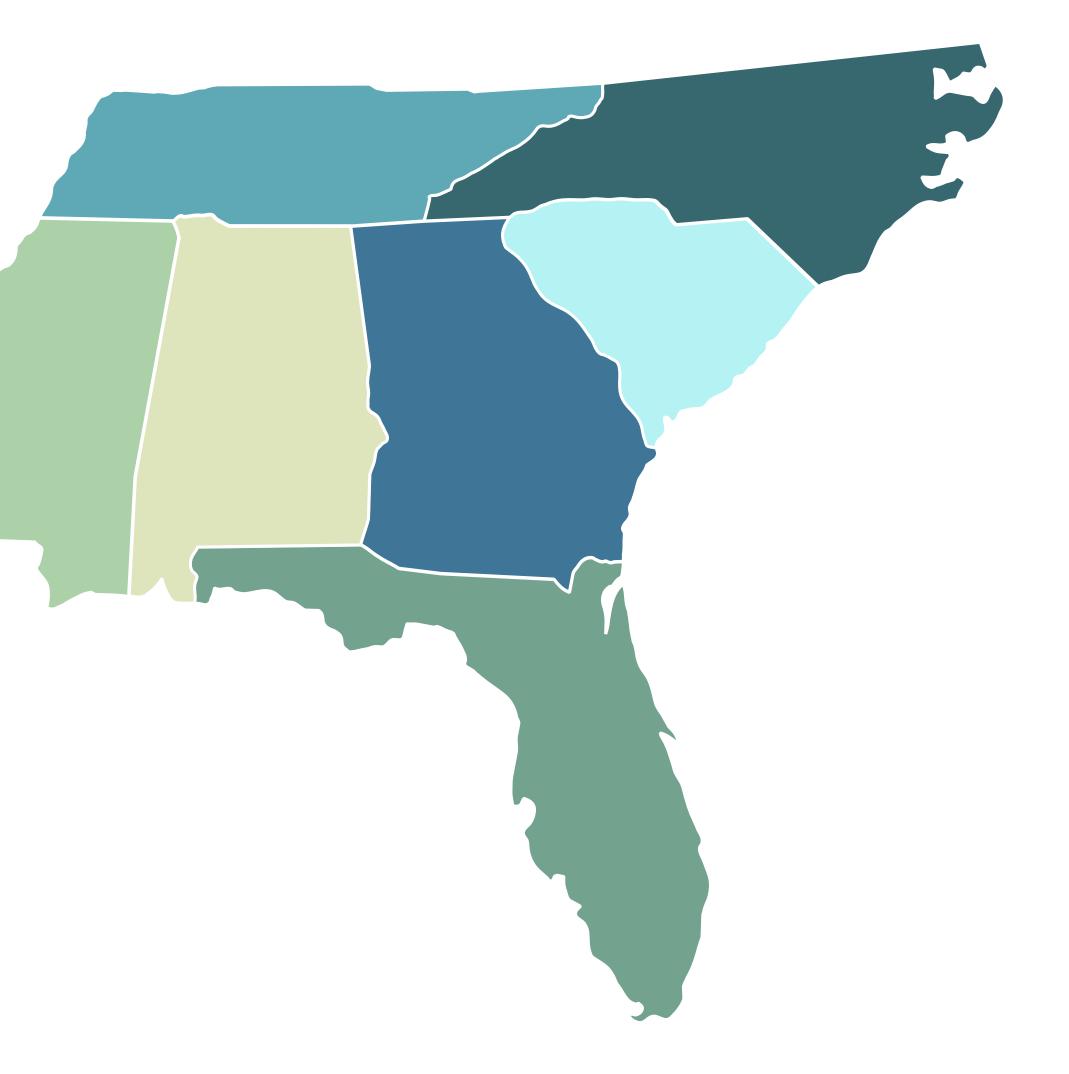




ALABAMA FLORIDA GEORGIA MISSISSIPPI NORTH CAROLINA SOUTH CAROLINA TENNESSEE

Solar in the Southeast 2018 Annual Report

STATE PROFILES







ALABAMA LARGE PROJECTS ANTICIPATED IN NEXT FOUR YEARS

UTILITY-SCALE SOLAR, MW

UTILITY	2018	2022
ALABAMA POWER	97	502
TVA	38	135
POWERSOUTH	0	0

DISTRIBUTED SOLAR, MW

UTILITY	2018	2022
ALABAMA POWER	4	8
TVA	14	26
POWERSOUTH	0.5	1.0

- Alabama remains the southeastern state exhibiting the lowest solar watts per customer (W/C) ratio. 59 W/C is less than one-fourth of the regional average from 2018.
- Facebook and Google announced significant solar projects with TVA (677 MW total) and 377 MW of those projects will be located within Alabama. Due to the nature of the TVA system, the majority of its solar power will actually serve load in Tennessee rather than Alabama.

Solar in the Southeast 2018 Annual Report

SOLAR WATTS PER CUSTOMER

	2022	2018	UTILITY
	631	269	Southeast average
	335	67	ALABAMA POWER
-2	263	83	TVA
	257	59	STATE AVERAGE
	2.7	1.4	POWERSOUTH

- The anticipated expansion of solar for Alabama Power through 2022 reflects authorization received from the Alabama Public Service Commission (APSC) in 2015 to develop or procure up to 500 MW of renewable energy. SACE has maintained this projection and expects to see it validated in the next resource plan.
- PowerSouth has not, to SACE's knowledge, engaged in any substantial solar development. The solar capacity attributed to PowerSouth is an artifact of allocating solar projects geographically when the utility buyer is unknown, along with small pockets of distributed generation solar.



FLORIDA BECOMING THE SUNSHINE STATE

	UTILITY SOLA	-SCALE R, MW	DISTRIE SOLAF		SOLAR WATTS	PER CUSTC	MER
UTILITY	2018	2022	2018	2022	UTILITY	2018	202
FLORIDA POWER & LIGHT	699	3,254	98	308	TAMPA ELECTRIC	157	
DUKE ENERGY FLORIDA	261	1,036	91	294	FLORIDA POWER & LIGHT	167	
TAMPA ELECTRIC	95	623	21	99	ORLANDO (OUC)	168	
JACKSONVILLE (JEA)	65	272	10	33	JACKSONVILLE (JEA)	172	
ORLANDO (OUC)	27	136	12	40	DUKE ENERGY FLORIDA	188	
GULF POWER	120	120	9	27	SOUTHEAST AVERAGE	269	
TALLAHASSEE	20	60	3	10	STATE AVERAGE	157	
Seminole	2	42	15	49	TALLAHASSEE	198	
LAKELAND	18	17	3	11	GULF POWER	291	
					GAINESVILLE (GRU)	266	
gainesville (gru)	6	14	23	27	LAKELAND	161	
POWERSOUTH	0	0	2.5	8.0	Seminole	24	
Iorida utilities are on a p	oath to grow	^r from 1,622	MW to ove	r 6,000 MW of	POWERSOUTH	21	

- solar by 2022. FPL recently announced a program that will double the annual pace of its solar expansion. SACE projects FPL to have 3,500 MW by 2022, with a watts per customer (W/C) solar ratio considerably above the regional average and a 4-year increase that earns it SunRiser status.
- Florida is home to four designated SunRisers including Tampa Electric projecting the highest W/C ratio for the state in 2022.

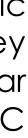
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The pace of Distributed Solar will increase in part due to Public Service Commission approval of solar leasing designs from key companies: SunRun, Vivint and Tesla. Shared/community solar options are also likely to expand access to solar pending PSC approval of petitions by Tampa Electric and FPL.











GEORGIA OPPORTUNITY TO SUSTAIN LEADERSHIP TRAJECTORY

UTILITY-SCALE SOLAR, MW

UTILITY	2018	2022
GEORGIA POWER	952	1,972
OGLETHORPE	291	595
TVA	6	20
MEAG	0	0

DISTRIBUTED SOLAR, MW

UTILITY	2018	2022
GEORGIA POWER	140	151
OGLETHORPE	15	21
TVA	6	8
MEAG	4	6

- Georgia's 2018 watts per customer (W/C) solar ratio is higher than the Southeast average – but will require additional ambition to avoid falling below average by 2022.
- The Georgia Public Service Commission (PSC) has an opportunity to demand additional solar development in the Georgia Power 2019 Integrated Resource Plan (IRP) and sustain Georgia's solar leadership.

Solar in the Southeast 2018 Annual Report

SOLAR WATTS PER CUSTOMER

UTILITY	2018	2022
GEORGIA POWER	426	809
Southeast average	269	631
STATE AVERAGE	280	527
OGLETHORPE	152	286
TVA	77	186
MEAG	13	17

- Georgia Power's proposed 2019 IRP anticipates less solar than approved in its 2016 IRP. Moreover, the plan is designed to offer that solar exclusively to corporate customers rather than as a truly integrated part of its portfolio to serve customers.
- Oglethorpe's increase is largely attributable to the Walton EMC projects for Facebook (3 projects, more than 200 MW total) to serve a new Facebook datacenter in Georgia. That project earned Walton EMC the top rank on our SunRiser list – representing the highest increase in W/C solar ratio over the next four years.



FORECAST BEHIND

UTILITY-SCALE SOLAR, MW

UTILITY	2018	2022
MISSISSIPPI POWER	158	158
TVA	24	88

DISTRIBUTED SOLAR, MW

UTILITY	2018	2022
MISSISSIPPI POWER	3	18
TVA	1	9

- Mississippi Power exhibits one of the highest watts per customer solar ratios of any utility in the southeast (826 W/C in 2018). A relatively small customer base (approximately 190,000 retail customers) denominates that ratio.
- SACE is not aware of plans to expand utility-scale solar development within Mississippi Power's territory. Our forecast does include considerable expansion of distributed solar for this Southern Company operating unit.
- An Integrated Resource Planning (IRP) process under development in Mississippi will offer more transparency and opportunity for stakeholder involvement.

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MISSISPPPI BEHIND THE REGIONAL AVERAGE

SOLAR WATTS PER CUSTOMER

UTILITY	2018	2022	
MISSISSIPPI POWER	826	926	
SOUTHEAST AVERAGE	269	631	
STATE AVERAGE	248	381	
TVA	59	222	6

Note: The Southeast region for SACE does not include the portion of Mississippi in the MISO territory served by Entergy Mississippi.

- Tennessee Valley Authority (TVA) operations in Mississippi offer far less solar at just 59 watts per customer. The consequent state average (248 W/C) is below the region average (270 W/C). Moreover, the state trajectory remains well under the region forecast for 2022.
- Presently, most of the solar provided by TVA to Mississippi customers is generated in Tennessee and Alabama. Less than 5 MW of the 25 MW of solar TVA supplies to Mississippi is installed in-state.
- Mississippi's state average in 2018 (248 W/C) was close to the Southeast average (269 W/C). Limited plans for expansion over the following four years, however, shows the state falling further behind the region.



NORTH CAROLINA SETTING A GOOD EXAMPLE

	UTILITY-S SOLAR,		DISTRIE SOLAF	
UTILITY	2018	2022	2018	2022
DUKE ENERGY PROGRESS	2,072	3,304	75	140
DUKE ENERGY CAROLINAS	884	1,572	105	198
NC EASTERN MUNICIPAL	63	63	1	3
NC ELECTRIC COOPERATIVES	31	43	17	33
TVA	1	4	17	32
NC MUNICIPAL POWER	0	0	0.7	1.3

- North Carolina has the most solar PV capacity in the Southeast (and second-most in the United States).¹ It is the only state in the Southeast with a renewable portfolio standard, which initiated solar development more than a decade ago.
- Favorable economics and a competitive bid process established by the North Carolina legislature² combined to ensure the solar growth in the state through 2022.
- Solar Energy Industries Association. (2019, March 21). Solar Spotlight: North Carolina
- 2. 2017 Competitive Energy Solutions for North Carolina law (HB 589).

Note: The Southeast region for SACE does not include the portion of North Carolina in the PJM territory served by Dominion Energy.

Solar in the Southeast 2018 Annual Report

SOLAR WATTS PER CUSTOMER

	2022	2018	UTILITY
	2,516	1,561	DUKE ENERGY PROGRESS
-]	1,059	643	STATE AVERAGE
	856	481	DUKE ENERGY CAROLINAS
ž	821	404	TVA
	631	269	Southeast average
	262	256	NC EASTERN MUNICIPAL
ž	71	45	NC ELECTRIC COOPERATIVES
	10	5	NC MUNICIPAL POWER

- Duke Energy Progress demonstrates particular solar leadership. DEP consistently tops our ranking of largest utilities in the Southeast. Despite having the highest base (from 2018), DEP still qualifies as a SunRiser, among the highest increases over our four-year forecast period.
- In general, co-ops and munis have been slower to adopt solar than investor-owned utilities. In this year's report, we designate NC Electric Cooperatives as a SunBlocker – one of four large utility systems forecast to have lower solar ratio in 2022 than the current average for the region.





SOUTH CAROLINA PALMETTO STATE SOLAR LEADERSHIP IN THE

UTILITY-SCALE SOLAR, MW

UTILITY	2018	2022
SCE&G	263	1,058
DUKE ENERGY CAROLINAS	332	590
DUKE ENERGY PROGRESS	350	557
SANTEE COOPER	4	8

DISTRIBUTED SOLAR, MW

UTILITY	2018	2022
SCE&G	110	230
DUKE ENERGY CAROLINAS	31	58
DUKE ENERGY PROGRESS	9	17
SANTEE COOPER	18	33

South Carolina's "Energy Freedom Act" (currently pending in the state Senate, after passing the House unanimously) is comprehensive solar legislation that will sustain this vibrant market. Targets set in South Carolina's Act 236 from 2014 had underestimated the demand for solar in the state. Instead of propelling growth of the distributed solar market through 2021 as intended, investor-owned utilities began encountering statutory caps three years early.

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SOLAR WATTS PER CUSTOMER

UTILITY	2018	2022
DUKE ENERGY PROGRESS	2,150	3,459
SCE&G	512	1,706
DUKE ENERGY CAROLINAS	599	1,064
STATE AVERAGE	443	1,000
SOUTHEAST AVERAGE	269	631
Santee Cooper	22	42

- The watts per customer (W/C) solar ratios for Duke Energy Progress (DEP) and Duke Energy Carolinas (DEC) are higher in South Carolina than its neighboring North Carolina utilities. DEP earned a return trip to SACE's SunRiser list – showcasing the leadership of utilities with the highest forecast four-year increase in W/C solar ratio.
- SCE&G dramatically expanded its utility-scale solar capacity in 2018 – joining DEP and DEC above the Southeast average solar ratio in 2018 and with a four-year forecast that reinforced its designation on SACE's list of SunRisers.
- State-owned utility Santee Cooper serves approximately one million retail customers, yet fails to offer sufficient solar resources and remains on SACE's list of SunBlockers for the second year.





















TENNESSEE FALLING FURTHER BEHIND UNDER TVA LEADERSHIP

UTILITY-SCALE SOLAR, MW

UTILITY	2018	2022
TVA	171	616

DISTRIBUTED SOLAR, MW

UTILITY	2018	2022
TVA	101	185

- The Tennessee Valley Authority, TVA, is unlike most of the other large utilities in the Southeast. They are a self-regulated monopoly not subject to federal or state regulatory oversight.
- TVA was an early leader in small-scale, distributed solar. Recently, however, it is aggressively using a self-regulated rate design process to undercut solar penetration and dis-incentivize distributed solar throughout the Valley.
- Instead of "net metering" a billing practice to support customerowned solar that exists in 38 states¹ – TVA implemented a "dual meter" scheme where it buys all the power owners generate onsite, and requires those same customers to buy all the power they consume from the local power company (LPC) at retail rates.
- After decreasing the rate it pays for solar power produced by these customer-generators in 2018, TVA has since announced it will sunset this Green Power Providers program at the end of 2019 with no current plan to replace it, further slowing solar development and planning ability.

SOLAR WATTS PER CUSTOMER

UTILITY	2018	2022	
Southeast average	269	631	
MEMPHIS (MLGW)	84	251	
CHATTANOOGA (EPB)	84	250	
TVA (TN) AVERAGE	81	240	ć
NASHVILLE (NES)	80	235	
MIDDLE TENNESSEE (EMC)	76	218	
KNOXVILLE (KUB)	74	215	
VOLUNTEER ELECTRIC CO-OP	64	175	

The 6 largest Local Power Companies (LPCs) in Tennessee are included above.

Kingsport, TN (served by AEP Appalachian Power) is not included in the Southeast region.

- TVA's has released a draft Integrated Resource Plan (IRP). Unfortunately this plan continues to reflect limited solar ambition throughout SACE's four-year forecast period.
- Facebook and Google announced significant solar projects with TVA (677 MW total) and 300 MW of those projects will be located in Tennessee. This reflects leadership by those corporations rather than signifying evolved thinking by TVA management.

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DATA SOURCES, METHODS & ASSUMPTIONS

Compiling data from publicly-available reports as well as proprietary forecasts, SACE has curated a system of information about electric power generation in the southeast United States. For the Solar in the Southeast Annual Report, primary datasets derive from the Energy Information Administration (EIA) and the Federal Energy Regulatory Commission – particularly, EIA 860 (Annual Electric Generator Data), EIA 861 (Annual Electric Power Industry Report), EIA 923 (Annual Electric Utility Data) and FERC 714 (Annual Electric Balancing Authority Area and Planning Area Report).

Future projections are informed by additional datasets including Wood Mackenzie Power & Renewables (formerly GTM Research), the EIA Annual Energy Outlook, utility Integrated Resource Plans (IRPs), interconnection queues, identified projects as well as utility announcements of ongoing and future plans, along with information gathered from solar developers and professional judgement of staff experts.

Solar data are reported as $MW_{(ac)}$ – alternating current. Where applicable, data identifiable as $MW_{(dc)}$ is derated to $MW_{(ac)}$ equivalent. AC reporting is becoming increasingly more common, particularly for utility-scale solar projects.

SACE tracks both capacity as well as generation, $MW_{(ac)}$ and MWh, respectively. Consequently, the capacity of solar projects that begin operation late in the year are only partially attributable in the first year. Tracking solar data in this manner enables a correlation between capacity and generation statistics.

Solar in the Southeast 2018 Annual Report In some cases, the utility that receives the generation from planned or existing solar projects is not known. In such cases, the capacity and generation is allocated to utilities based on proximity and the degree to which utilities needs are met by generation owned or contracted for. The amount of solar capacity allocated to utilities in this manner is a small fraction of all Southeastern generation, but it can make up a substantial portion of the solar generation reported for utilities with small solar portfolios.

SACE projects distributed generation solar (e.g., residential and commercial rooftop solar) independently for large utility systems. Smaller municipal and cooperative systems are projected at an aggregate level based on the averages for those systems.

State-level reports are aggregated using two, complementary methods. Total solar capacity (MW) is reported in the state where the generation originates. Watts per customer calculations are allocated to the state where the load is served. SACE apportions utility-scale solar generation to loads served across multi-state utility service territories. Smaller, distributed generation systems are assumed to serve their local load. This method establishes a close relationship with the retail sales and customers served by the respective utilities. For example, a solar project in Alabama contracted to the Tennessee Valley Authority (TVA) will proportionally serve customers in multiple states across TVA service territory.







Type FOCUS AXR-SD FORM 2S CL200 240V 3W 60Hz TA=30 Kh 7.2





















Southern Alliance for Clean Energy P.O. Box 1842 | Knoxville, TN 37901 | 865.637.6055

SOLAR IN THE SOUTHEAST

2018 Annual Report CONTACT INFORMATION

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APPENDIX A: SERVICE TERRITORIES OF FIVE SOUTHEAST UTILITY SYSTEMS

* Note: Gulf Power remained a unit of the Southern Company through 2018. That ownership transfer to NextEra will be reflected in the next update.

Solar in the Southeast 2018 Annual Report

UTILITY SERVICE TERRITORIES

- SOUTHERN COMPANY*
- TENNESSEE VALLEY AUTHORITY
- DUKE ENERGY COMPANY
- FLORIDA POWER & LIGHT
- OGLETHORPE POWER CORPORATION
- OTHER SOUTHEASTERN UTILITIES
- NON-SOUTHEASTERN BALANCING AREAS

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		Total	Solar (W/C)		Utility-Scal	e Solar (W/C		Distribut	ed Solar (W/	C)
UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
All SE Utility Systems	29,735,793	165	269	631	141	236	560	23	33	7
Alabama Cooperatives	35,964	-	1	3	-	-	-	-	1	
Black Warrior Electric Member Corp	26,623	-	1	3	-	-	-	-	1	
Tombigbee Electric Cooperative	9,341	-	1	3	-	-	-	-	1	3
Alabama Municipals	70,205	-	0	0	-	-	-	-	0	(
City of Alexander City	6,144	-	0	0	-	-	-	-	0	C
City of Dothan	30,581	-	0	0	-	-	-	-	0	C
City of Opelika	12,603	-	0	0	-	-	-	-	0	(
Sylacauga Utilities Board	6,144	-	0	0	-	-	-	-	0	(
Troy Utilities Department	8,095	-	0	0	-	-	-	-	0	(
City of Tuskegee	6,638	-	0	0	-	-	-	-	0	(
Duke Energy	5,891,193	404	692	1,257	371	641	1,143	33	51	115
Duke Energy Progress	1,558,749	809	1,625	2,618	778	1,570	2,516	31	54	102
Duke Energy Carolinas	2,557,117	407	508	903	372	457	808	35	51	96
Duke Energy Florida	1,775,327	45	188	676	12	139	527	33	48	150
Florida Cooperatives	1,025,456	16	24	163	1	3	98	15	21	65
Central Florida Electric Cooperative	33,538	11	23	109	-	2	44	11	21	64
Clay Electric Cooperative	173,804	22	24	121	-	3	56	22	21	64
Florida Keys Electric Cooperative Association	32,792	12	21	211	-	-	147	12	21	64
Glades Electric Cooperative	16,370	11	24	125	-	3	60	11	21	64
Lee County Electric Cooperative	213,636	12	21	65	-	-	1	12	21	64
Peace River Electric Cooperative	41,123	33	24	119	-	3	55	33	21	64
Reedy Creek Improvement Dist	1,447	691	799	36,405	691	746	36,296	-	52	109
Sumter Electric Cooperative	200,526	10	24	113	-	3	49	10	21	64
Suwannee Valley Electric Cooperative	25,932	11	24	126	-	3	61	11	21	64
Talquin Electric Cooperative	53,832	13	24	118	-	3	54	13	21	64
Tri-County Electric Cooperative	18,212	6	24	116	-	3	52	6	21	64
Withlacoochee River Electric Cooperative	214,244	17	24	119	-	3	54	17	21	64

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		Total	Solar (W/C)		Utility-Scal	e Solar (W/C)	Distribut	ed Solar (W/	C)
UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
Florida Municipals	1,445,737	71	140	509	37	97	402	34	44	107
City of Alachua	4,506	209	291	2,102	58	238	1,993	151	52	109
City of Bartow	12,266	106	58	1,121	1	6	1,012	105	52	109
City of Clewiston	4,100	1	59	113	1	7	4	-	52	109
Fort Pierce Utilities Authority	28,257	4	57	217	1	5	108	2	52	109
Gainesville Regional Utilities	97,245	270	266	298	32	46	38	238	219	260
City of Green Cove Springs	4,192	28	60	113	2	8	4	26	52	109
Havana Power & Light Company	1,458	275	56	111	1	4	2	274	52	109
City of Homestead	24,402	8	58	498	1	6	389	7	52	109
Beaches Energy Services	34,795	19	58	409	1	5	300	17	52	109
JEA	464,116	53	172	672	36	148	598	16	24	74
City of Key West	29,859	11	59	113	1	6	4	9	52	109
Kissimmee Utility Authority	71,770	11	54	503	0	2	394	11	52	109
City of Lake Worth	27,105	1	56	458	1	4	349	-	52	109
City of Lakeland	129,112	110	161	208	101	138	126	9	23	82
City of Leesburg	25,821	14	57	112	1	5	3	13	52	109
City of New Smyrna Beach	27,644	8	56	111	1	4	2	7	52	109
City of Ocala	52,953	22	59	290	1	6	181	20	52	109
- Orlando Utilities Commission	237,158	76	168	713	40	115	550	36	53	163
City of Starke	2,801	16	59	113	1	6	4	15	52	109
City of Tallahassee	115,556	100	198	572	88	172	491	11	25	82
City of Vero Beach	35,560	11	52	110	-	-	1	11	52	109
City of Wauchula	2,802	-	-	1,751	-	-	1,751	-	-	-
City of Winter Park	15,061	36	60	737	2	7	628	34	52	109
- Florida Power & Light	4,901,846	105	167	734	91	147	670	14	21	63
Florida Public Utilities Company	32,038	21	30	94	-	-	-	21	30	94





		Total	Solar (W/C)		Utility-Scal	e Solar (W/C))	Distribut	ed Solar (W _/	(C)
UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
Georgia Municipals	289,230	32	32	36	21	19	19	12	13	17
City of Adel	2,628	-	13	17	-	-	-	-	13	17
Albany Water Gas & Light Commission	37,083	-	13	17	-	-	-	-	13	17
City of Acworth	6,520	4	13	17	-	-	-	4	13	17
City of Buford	3,465	-	13	17	-	-	-	-	13	17
City of Cairo	4,461	-	13	17	-	-	-	-	13	17
City of Calhoun	5,368	6	13	17	-	-	-	6	13	17
City of Camilla	2,576	-	13	17	-	-	-	-	13	17
City of Cartersville	7,508	240	13	17	-	-	-	240	13	17
City of College Park	7,571	-	13	17	-	-	-	-	13	17
City of Covington	11,773	-	13	17	-	-	-	-	13	17
Crisp County Power Commission	11,948	3	13	17	-	-	-	3	13	17
Dalton Utilities	16,802	411	391	386	357	377	369	54	13	17
City of Douglas	5,868	-	13	17	-	-	-	-	13	17
City of East Point	15,682	-	13	17	-	-	-	-	13	17
City of Elberton	4,395	-	13	17	-	-	-	-	13	17
Fitzgerald Water Light & Bond Commission	5,641	-	13	17	-	-	-	-	13	17
Fort Valley Utility Commission	4,623	-	13	17	-	-	-	-	13	17
City of Griffin	15,019	-	13	17	-	-	-	-	13	17
City of La Grange	13,145	-	13	17	-	-	-	-	13	17
City of Lawrenceville	11,259	-	13	17	-	-	-	-	13	17
City of Marietta	41,413	13	13	17	-	-	-	13	13	17
City of Monroe	6,286	-	13	17	-	-	-	-	13	17
City of Moultrie	6,627	-	13	17	-	-	-	-	13	17
Newnan Water Sewer & Light Commission	10,023	-	13	17	-	-	-	-	13	17
City of Norcross	5,076	-	13	17	-	-	-	-	13	17
City of Sylvania	2,515	-	13	17	-	-	-	-	13	17
City of Thomaston	5,974	-	13	17	-	-	-	-	13	17
City of Thomasville	15,620	2	13	17	-	-	-	2	13	17
City of Washington	2,361	-	13	17	-	-	-	-	13	17

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			Total	Solar (W/C)		Utility-Scale	e Solar (W/C))	Distribut	ed Solar (W/	C)
	UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
	Mississippi Cooperatives	116,444	10	13	95	-	-	-	10	13	95
	Pearl River Valley Electric Power Association	49,167	16	13	95	-	-	-	16	13	95
	Southern Pine Electric Power Association	67,277	6	13	95	-	-	-	6	13	95
6	North Carolina Cooperatives	1,048,712	29	45	71	16	29	40	13	16	31
	Albemarle Electric Member Corp	12,818	11	32	52	7	16	21	3	16	31
	Blue Ridge Electric Member Corp	75,859	23	29	51	6	13	20	17	16	31
	Cape Hatteras Electric Member Corp	7,731	12	32	55	7	16	24	5	16	31
	Carteret-Craven Electric Member Corp	40,110	6	30	51	6	14	21	-	16	31
	Central Electric Membership Corp	22,619	8	33	56	8	17	26	-	16	31
	Edgecombe-Martin County Electric Member Corp	11,305	9	34	59	9	18	28	-	16	31
	Four County Electric Member Corp	33,091	15	42	69	12	26	39	3	16	31
	French Broad Electric Member Corp	36,970	28	29	50	6	13	20	22	16	31
	Halifax Electric Member Corp	11,736	14	244	481	6	228	451	9	16	31
	Haywood Electric Member Corp	26,701	17	26	46	5	10	15	13	16	31
	Jones-Onslow Electric Member Corp	74,639	11	31	53	7	15	23	4	16	31
	Lumbee River Electric Member Corp	60,825	20	35	60	9	20	30	11	16	31
	Pee Dee Electric Member Corp	21,037	22	33	57	8	17	26	14	16	31
	Pitt & Greene Electric Member Corp	8,719	10	37	62	10	21	31	-	16	31
	Piedmont Electric Member Corp	31,663	67	30	52	6	14	21	60	16	31
	Randolph Electric Member Corp	31,845	42	31	53	7	15	22	36	16	31
	Roanoke Electric Member Corp	14,294	8	34	58	8	18	27	-	16	31
	Rutherford Electric Member Corp	69,490	17	32	56	8	17	25	9	16	31
	South River Electric Member Corp	44,258	17	33	57	8	17	26	9	16	31
	Surry-Yadkin Electric Member Corp	27,017	17	29	50	6	13	19	11	16	31
	Tri-County Electric Member Corp	24,886	250	320	346	250	304	315	-	16	31
	Tideland Electric Member Corp	22,899	7	31	53	7	15	22	-	16	31
	Union Electric Membership Corp	75,609	34	32	55	7	16	24	27	16	31
	Wake Electric Membership Corp	43,323	17	32	55	7	16	24	9	16	31
	EnergyUnited Electric Member Corp	128,256	17	27	47	4	11	17	13	16	31
	Brunswick Electric Member Corp	91,012	20	30	52	6	14	21	13	16	31

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		Total	Solar (W/C)		Utility-Scal	e Solar (W/C))	Distribut	ed Solar (W/	C)
UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
North Carolina Municipals	539,850	67	122	127	63	116	116	4	5	10
City of Albemarle	12,124	-	5	10	-	-	-	-	5	10
Town of Apex	18,403	63	135	141	57	130	131	6	5	10
Town of Ayden	4,071	83	195	201	83	190	191	-	5	10
Town of Clayton	6,448	55	131	137	55	126	127	-	5	10
City of Concord	30,131	-	5	10	-	-	-	-	5	10
City of Elizabeth City	12,603	81	190	196	81	185	186	-	5	10
City of Fayetteville Public Works Commission	81,831	-	5	10	-	-	-	-	5	10
Town of Forest City	4,189	-	5	10	-	-	-	-	5	10
Town of Edenton	4,133	79	185	191	79	180	181	-	5	10
City of Gastonia	27,577	34	5	10	-	-	-	34	5	10
Greenville Utilities Commission	66,501	87	200	206	86	195	196	1	5	10
Town of High Point	42,244	2	5	10	-	-	-	2	5	10
Town of Huntersville	5,674	-	5	10	-	-	-	-	5	10
City of Kings Mountain	4,886	-	5	10	-	-	-	-	5	10
City of Kinston	11,604	129	300	306	129	294	296	-	5	10
City of Laurinburg	5,611	81	190	196	81	185	186	-	5	10
City of Lexington	18,692	4	5	10	-	-	-	4	5	10
City of Lumberton	11,560	80	187	193	80	181	182	-	5	10
City of Monroe	10,879	-	5	10	-	-	-	-	5	10
City of Morganton	8,326	96	5	10	-	-	-	96	5	10
City of New Bern	22,519	65	154	160	65	149	150	-	5	10
New River Light & Power	8,116	-	5	10	-	-	-	-	5	10
City of Newton	4,542	-	5	10	-	-	-	-	5	10
Town of Pineville	3,409	-	5	10	-	-	-	-	5	10
City of Rocky Mount	27,831	82	193	199	82	188	189	-	5	10





		Total	Solar (W/C)		Utility-Scal	e Solar (W/C)	Distribut	ed Solar (W/	C)
UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
North Carolina Municipals (continued)										
City of Shelby	8,251	-	5	10	-	-	-	-	5	10
Town of Smithfield	4,466	126	292	298	126	286	288	-	5	10
City of Statesville	13,381	16	5	10	-	-	-	16	5	10
Town of Tarboro	5,776	133	308	314	133	302	304	-	5	10
Town of Wake Forest	6,083	86	202	208	86	196	198	-	5	10
City of Washington	13,752	68	159	165	68	154	155	-	5	10
City of Wilson	34,237	117	273	279	117	267	269	-	5	10
Oglethorpe Power	1,900,723	124	152	286	118	144	276	6	7	10
Altamaha Electric Member Corp	20,630	41	76	123	40	69	114	0	7	10
Amicalola Electric Member Corp	48,382	39	61	98	31	54	88	8	7	10
Canoochee Electric Member Corp	21,447	45	77	125	41	70	115	4	7	10
Carroll Electric Member Corp	50,774	45	82	132	43	74	122	2	7	10
Central Georgia Electric Member Corp	56,234	47	84	135	44	76	126	3	7	10
Coastal Electric Member Corp	18,771	56	101	164	55	94	154	1	7	10
Cobb Electric Membership Corp	206,122	587	588	591	582	581	581	5	7	10
Coweta-Fayette Electric Member Corp	79,382	42	77	124	41	70	115	2	7	10
Excelsior Electric Member Corp	22,900	39	68	110	35	61	100	3	7	10
Flint Electric Membership Corp	85,299	244	268	304	241	261	294	3	7	10
GreyStone Power Corporation	130,295	40	76	123	39	69	113	1	7	10
Grady Electric Membership Corp	19,767	36	63	100	32	55	91	3	7	10
Habersham Electric Membership Corp	34,504	39	59	94	30	51	84	9	7	10
Hart Electric Member Corp	36,002	39	64	103	33	57	93	6	7	10
Irwin Electric Membership Corp	12,413	43	65	104	34	58	95	9	7	10
Jackson Electric Member Corp	225,087	16	38	58	5	31	49	11	7	10
Jefferson Electric Member Corp	34,114	35	67	108	35	60	98	0	7	10

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		Total	Solar (W/C)		Utility-Scale	e Solar (W/C		Distribut	ed Solar (W/	′C)
UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
Oglethorpe Power (continued)										
Southern Rivers Energy	19,197	43	69	110	36	61	101	7	7	10
Middle Georgia Electric Member Corp	8,045	43	72	116	37	64	106	6	7	10
Mitchell Electric Member Corp	25,202	45	72	115	37	64	106	8	7	10
Ocmulgee Electric Member Corp	12,157	34	63	101	33	56	92	1	7	10
Oconee Electric Member Corp	12,608	46	84	136	45	77	126	2	7	10
Planters Electric Member Corp	16,923	34	65	105	34	58	96	-	7	1(
Rayle Electric Membership Corp	18,382	36	59	94	30	51	84	6	7	1(
Satilla Rural Electric Member Corporation	55,504	62	78	126	41	71	116	21	7	1(
Sawnee Electric Membership Corporation	176,599	144	168	209	137	161	199	7	7	1(
Slash Pine Electric Member Corp	8,818	43	80	130	43	73	120	-	7	1(
Snapping Shoals Electric Member Corp	97,980	40	77	124	40	69	114	-	7	1(
Sumter Electric Member Corp	20,512	49	70	113	37	63	103	12	7	1(
Three Notch Electric Member Corp	15,291	45	61	98	31	54	89	14	7	1(
Tri-County Electric Member Corp	21,405	37	69	111	36	62	101	2	7	1(
Diverse Power Incorporated	34,291	46	79	127	42	72	118	4	7	1(
Upson Electric Member Corp	9,102	30	58	93	30	51	83	-	7	10
Walton Electric Member Corp	127,189	71	115	1,569	68	108	1,559	3	7	1(
Washington Electric Member Corp	15,469	50	93	150	50	85	140	1	7	1(
Little Ocmulgee Electric Member Corp	11,373	39	66	107	34	59	97	4	7	10
Okefenoke Rural Electric Member Corp	26,199	124	62	99	45	55	90	79	7	1(
Colquitt Electric Membership Corp	66,354	45	74	120	39	67	110	6	7	10





		Total	Solar (W/C)		Utility-Scal	e Solar (W/C)	Distribute	ed Solar (W/	C)
UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
PowerSouth	437,390	2	6	18	-	-	-	2	6	18
City of Andalusia	4,594	-	0	0	-	-	-	-	0	0
Baldwin County Electric Member Corp	74,865	-	1	3	-	-	-	-	1	3
Central Alabama Electric Cooperative	43,150	0	1	3	-	-	-	0	1	3
Choctawhatche Electric Cooperative	50,180	9	21	64	-	-	-	9	21	64
Coosa Valley Electric Cooperative	16,690	-	1	3	-	-	-	-	1	3
Covington Electric Cooperative	23,123	1	1	3	-	-	-	1	1	3
Dixie Electric Cooperative	23,769	-	1	3	-	-	-	-	1	3
Escambia River Electric Cooperative	11,012	12	21	64	-	-	-	12	21	64
Gulf Coast Electric Cooperative	20,710	6	21	64	-	-	-	6	21	64
Pea River Electric Cooperative	18,783	-	1	3	-	-	-	-	1	3
South Alabama Electric Cooperative	16,478	-	1	3	-	-	-	-	1	3
Southern Pine Electric Cooperative	21,490	0	1	3	-	-	-	0	1	3
Tallapoosa River Electric Cooperative	26,860	2	1	3	-	-	-	2	1	3
West Florida Electric Cooperative Association	28,494	5	21	64	-	-	-	5	21	64
Wiregrass Electric Cooperative	24,330	-	1	3	-	-	-	-	1	3
Pioneer Electric Cooperative	12,854	1	1	3	-	-	-	1	1	3
Clarke-Washington Electric Member Corp	20,008	-	1	3	-	-	-	-	1	3





UTILITYCustomers (2017)20172018202220172018202220172018Sante Cooper982,2681524453491320Alken Electric Cooperative47,288820368220Cy of Sematrixille46,4573220364220Back River Electric Cooperative96,4573220364220Back River Electric Cooperative98,0752020364220Back River Electric Cooperative99,0822020364220Back River Electric Cooperative99,0822020364220Back River Electric Cooperative99,0822020364220Coaral Electric Cooperative20,962202036422020Coaral Electric Cooperative28,79002036402020Cip of Goorgetove79,677101020364020Cip of Goorgetove59,754162036402020Linter Electric Cooperative59,677112036402020Mick Sectric Cooperati			Total	Solar (W/C)		Utility-Scale	e Solar (W/C))	Distribute	ed Solar (W/	(C)
Akken Electric Cooperative 47,288 8 20 36 88 20 Berkaley Electric Cooperative 96,457 32 20 36 32 20 Berkaley Electric Cooperative 96,457 32 20 36 20 20 Bick Neer Electric Cooperative 68,075 28 20 36 20 20 Broad Neer Electric Cooperative 0,902 20 20 36 20 20 Coty of Electric Cooperative 20,902 20 36 10 20 20 Coty of Georgetown 5,027 - 10 36 10 20 Cary of Georgetown 5,027 - 10 36 8 20 Lucres Electric Cooperative 78,127 8 20 36 8 20 Lucres Electric Cooperative 78,127 8 20 36 <th>JTILITY</th> <th>Customers (2017)</th> <th>2017</th> <th>2018</th> <th>2022</th> <th>2017</th> <th>2018</th> <th>2022</th> <th>2017</th> <th>2018</th> <th>2022</th>	JTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
dip of Bennettsville4,549-101810Berk key Electric Cooperative96,6473220363220Black Key Electric Cooperative32,132020362020Brack Key Electric Cooperative02,0622020362020Brack Key Electric Cooperative20,962202036020Brack Key Electric Cooperative20,962202036020Brack Key Electric Cooperative20,962202036020Brack Key Electric Cooperative20,9622020361020Brack Key Electric Cooperative20,9622020361020Brack Key Electric Cooperative36,07-10181020Brack Key Electric Cooperative78,127820361620Anore Electric Cooperative78,127820361620Anore Electric Cooperative78,127820361620Anore Electric Cooperative6,487920361620Anore Electric Cooperative54,57112036- </td <td>antee Cooper</td> <td>982,268</td> <td>15</td> <td>24</td> <td>45</td> <td>3</td> <td>4</td> <td>9</td> <td>13</td> <td>20</td> <td>3</td>	antee Cooper	982,268	15	24	45	3	4	9	13	20	3
nerkely Electric Cooperative 96,457 32 20 36 - - 32 20 black River Electric Cooperative 68,075 20 20 36 - - 20 20 black River Electric Cooperative 68,075 20 20 36 - - 20 20 black River Electric Cooperative 20,962 20 36 - - - 20 20 baskal Electric Cooperative 20,902 10 20 36 - - - 10 20 disto Electric Cooperative 20,204 10 20 36 - - - 0 20 disto Electric Cooperative 28,790 0 20 36 - - 0 20 alrifiel Electric Cooperative 78,127 8 20 36 - - 16 20 aurers Electric Cooperative 78,127 8 20 36 - - 13 20 works River Electric Cooperative 68,87 9 20	iken Electric Cooperative	47,288	8	20	36	-	-	-	8	20	3
Black River Electric Cooperative 32,136 20 20 36 20 20 Black River Electric Cooperative 68,075 28 20 36 28 20 Broad River Electric Cooperative 20,962 20 20 36 20 20 Coastal Electric Cooperative 11,694 10 20 36 00 20 Edito Electric Cooperative 20,204 10 20 36 0 20 20 Edito Electric Cooperative 20,204 10 20 36 0 20 20 Edito Electric Cooperative 20,207 10 18 0 20 20 36 16 20 20 20 36 10 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	City of Bennettsville	4,549	-	10	18	-	-	-	-	10	1
Bile Ridge Electric Cooperative 68,075 28 20 36 28 20 Broad River Electric Cooperative 20,962 20 36 20 20 Coastal Electric Cooperative 11,694 10 20 36 10 20 Edisto Electric Cooperative 20,204 10 20 36 10 20 Coastal Electric Cooperative 20,204 10 20 36 10 20 Cip Georgetown 50,27 10 18 8 20 Cip Georgetown 50,27 -8 20 36 8 20 Laurens Electric Cooperative 78,127 8 20 36 8 20 Marbors Electric Cooperative 78,127 8 20 36 16 20 Marbors Electric Cooperative 0,916 32 26 11 20	Berkeley Electric Cooperative	96,457	32	20	36	-	-	-	32	20	3
Broad River Electric Cooperative 20,962 20 20 36 20 20 Coastal Electric Cooperative 11,694 10 20 36 10 20 Edisto Electric Cooperative 20,204 10 20 36 10 20 Fairfield Electric Cooperative 20,204 10 20 36 10 20 City of Goorgetown 50,27 -0 18 8 20 City of Goorgetown 76,127 8 20 36 8 20 Laurens Electric Cooperative 76,127 8 20 36 8 20 Marbore Electric Cooperative 76,127 8 20 36 16 20 20 Marbore Electric Cooperative 14,219 0 20 36 11 20 Marbore Electric Cooperative 55,427 11 20 36 -	Black River Electric Cooperative	32,136	20	20	36	-	-	-	20	20	3
Castal Electric Cooperative 11,694 10 20 36 10 20 Edisto Electric Cooperative 20,204 10 20 36 10 20 Fairfield Electric Cooperative 28,790 0 20 36 0 20 Chy of Georgetown 5,027 10 18 8 20 Horry Electric Cooperative 78,127 8 20 36 8 20 Laurens Electric Cooperative 78,127 8 20 36 8 20 Laurens Electric Cooperative 78,127 8 20 36 6 20 Luter Mixer Electric Cooperative 14,219 0 20 36 9 20 Marboro Electric Cooperative 6,487 9 20 36 11 20 Newberry Electric Cooperative 12,916 6 20 36 -	Blue Ridge Electric Cooperative	68,075	28	20	36	-	-	-	28	20	3
Edisto Electric Cooperative 20,204 10 20 36 10 20 Fairfield Electric Cooperative 28,790 0 20 36 0 20 City of Georgetown 5,027 10 18 10 Horry Electric Cooperative 78,127 8 20 36 8 20 Laurens Electric Cooperative 78,127 8 20 36 8 20 Laurens Electric Cooperative 78,127 8 20 36 8 20 Laurens Electric Cooperative 14,219 0 20 36 13 20 Marlboro Electric Cooperative 6,487 9 20 36 13 20 Newberry Electric Cooperative 17,967 11 20 36 11 20 Newberry Electric Cooperative 17,967 11 <t< td=""><td>Broad River Electric Cooperative</td><td>20,962</td><td>20</td><td>20</td><td>36</td><td>-</td><td>-</td><td>-</td><td>20</td><td>20</td><td>3</td></t<>	Broad River Electric Cooperative	20,962	20	20	36	-	-	-	20	20	3
Fairlield Electric Cooperative 28,790 0 20 36 - - 0 20 City of Georgetown 5,027 - 10 18 - - - 10 Horry Electric Cooperative 78,127 8 20 36 - - - 8 20 Laurens Electric Cooperative 73,54 16 20 36 - - - 0 20 Little River Electric Cooperative 14,219 0 20 36 - - - 0 20 Markborn Electric Cooperative 20,916 13 20 36 - - - 0 20 Markborn Electric Cooperative 6,487 9 20 36 - - - 13 20 36 - - 13 20 36 - - 13 20 36 - - 11 20 36 - - 11 20 36 - - 11 20 36 - - -	Coastal Electric Cooperative	11,694	10	20	36	-	-	-	10	20	3
City of Georgetown 5,027 - 10 18 - - - 10 Horry Electric Cooperative 78,127 8 20 36 - - 8 20 Laurens Electric Cooperative 57,354 16 20 36 - - 16 20 Little River Electric Cooperative 14,219 0 20 36 - - 0 20 Vighes River Electric Cooperative 20,916 13 20 36 - - 0 20 Marlboro Electric Cooperative 6,487 9 20 36 - - 9 20 Nuclear Electric Cooperative 55,427 11 20 36 - - 11 20 Newberry Electric Cooperative 12,916 6 20 36 - - 11 20 Newberry Electric Cooperative 17,967 11 20 36 - - 11 20 Pel Dee Electric Cooperative 30,420 6 20 36 - -	Edisto Electric Cooperative	20,204	10	20	36	-	-	-	10	20	3
Harry Electric Cooperative78,12782036820Laurens Electric Cooperative57,3541620361620Little River Electric Cooperative14,21902036020Lynches River Electric Cooperative20,9161320361320Marboro Electric Cooperative6,48792036920Mid-Carolina Electric Cooperative55,4271120361120Newberry Electric Cooperative12,91662036620Tri-County Electric Cooperative17,9671120361120Pee Dee Electric Cooperative30,42062036620Santee Electric Cooperative30,42062036620Santee Electric Cooperative30,42062036620Santee Electric Cooperative33,57252036520South Carolina Public Service Authority180,687214284142348720	Fairfield Electric Cooperative	28,790	0	20	36	-	-	-	0	20	
Aurene Electric Cooperative 57,354 16 20 36 16 20 Autle River Electric Cooperative 14,219 0 20 36 0 20 ynches River Electric Cooperative 20,916 13 20 36 0 20 Warlboro Electric Cooperative 6,487 9 20 36 9 20 Viid-Carolina Electric Cooperative 55,427 11 20 36 6 20 Viid-Carolina Electric Cooperative 12,916 6 20 36 6 20 Vied-Carolina Electric Cooperative 17,967 11 20 36 11 20 Vied-Carolina Electric Cooperative 17,967 11 20 36 11 20 Pare Dee Electric Cooperative 30,420 6 20 36 6 20 Santee Electric Cooperative 30,420 6 20	City of Georgetown	5,027	-	10	18	-	-	-	-	10	
Intel River Electric Cooperative 14,219 0 20 36 - - 0 20 ynches River Electric Cooperative 20,916 13 20 36 - - - 13 20 Marlboro Electric Cooperative 6,487 9 20 36 - - - 9 20 Mid-Carolina Electric Cooperative 55,427 11 20 36 - - - 9 20 Newberry Electric Cooperative 12,916 6 20 36 - - - 6 20 Yn-County Electric Cooperative 17,967 11 20 36 - - - 11 20 Yn-De Dee Electric Cooperative 17,967 11 20 36 - - - 11 20 Yn-De Dee Electric Cooperative 30,420 6 20 36 - - - 7 20 Yn-De Dee Electric Cooperative 30,420 6 20 36 - - - 5 20 20 <td>Horry Electric Cooperative</td> <td>78,127</td> <td>8</td> <td>20</td> <td>36</td> <td>-</td> <td>-</td> <td>-</td> <td>8</td> <td>20</td> <td></td>	Horry Electric Cooperative	78,127	8	20	36	-	-	-	8	20	
Lynches River Electric Cooperative 20,916 13 20 36 - - 13 20 Marlboro Electric Cooperative 6,487 9 20 36 - - 9 20 Mid-Carolina Electric Cooperative 55,427 11 20 36 - - - 11 20 Newberry Electric Cooperative 12,916 6 20 36 - - - 6 20 Newberry Electric Cooperative 12,916 6 20 36 - - - 6 20 Palmettry Electric Cooperative 17,967 11 20 36 - - - 11 20 Palmettry Electric Cooperative 71,545 7 20 36 - - - 7 20 Palmettry Electric Cooperative 30,420 6 20 36 - - - 6 20 Santee Electric Cooperative 43,572 5 20 36 - - - 5 20 South Car	Laurens Electric Cooperative	57,354	16	20	36	-	-	_	16	20	(
Marilboro Electric Cooperative 6,487 9 20 36 - - - 9 20 Mid-Carolina Electric Cooperative 55,427 11 20 36 - - - 11 20 Newberry Electric Cooperative 12,916 6 20 36 - - - 6 20 Tri-County Electric Cooperative 17,967 11 20 36 - - - 11 20 Palmetto Electric Cooperative 17,967 11 20 36 - - - 7 20 Palmetto Electric Cooperative 30,420 6 20 36 - - - 6 20 Santee Electric Cooperative 30,420 6 20 36 - - - 6 20 Santee Electric Cooperative 43,572 5 20 36 - - - 5 20 South Carolina Public Service Authority 180,687 21 42 84 14 23 48 7 20 <td>Little River Electric Cooperative</td> <td>14,219</td> <td>0</td> <td>20</td> <td>36</td> <td>-</td> <td>-</td> <td>-</td> <td>0</td> <td>20</td> <td></td>	Little River Electric Cooperative	14,219	0	20	36	-	-	-	0	20	
Mid-Carolina Electric Cooperative 55,427 11 20 36 - - - 11 20 Newberry Electric Cooperative 12,916 6 20 36 - - - 6 20 Iri-County Electric Cooperative 17,967 11 20 36 - - - 11 20 Palmetto Electric Cooperative 17,967 11 20 36 - - - 11 20 Palmetto Electric Cooperative 30,420 6 20 36 - - - 6 20 Santee Electric Cooperative 30,420 6 20 36 - - - 6 20 Santee Electric Cooperative 43,572 5 20 36 - - - 5 20 Santee Cooperative 43,572 5 20 36 - - - 5 20 Santee Cooperative 180,687 21 42 84 14 23 48 7 20 <td>ynches River Electric Cooperative</td> <td>20,916</td> <td>13</td> <td>20</td> <td>36</td> <td>-</td> <td>-</td> <td>-</td> <td>13</td> <td>20</td> <td></td>	ynches River Electric Cooperative	20,916	13	20	36	-	-	-	13	20	
Newberry Electric Cooperative 12,916 6 20 36 - - - 6 20 Iri-County Electric Cooperative 17,967 11 20 36 - - - 11 20 Palmetto Electric Cooperative 71,545 7 20 36 - - - 7 20 Palmetto Electric Cooperative 30,420 6 20 36 - - - 6 20 Santee Electric Cooperative 30,420 6 20 36 - - - 6 20 Santee Electric Cooperative 33,572 5 20 36 - - - 5 20 South Carolina Public Service Authority 18,687 21 42 84 14 23 48 7 20	Marlboro Electric Cooperative	6,487	9	20	36	-	-	-	9	20	
Initial Cooperative 17,967 11 20 36 - - - - 11 20 Palmetto Electric Cooperative 71,545 7 20 36 - - - 7 20 Palmetto Electric Cooperative 30,420 6 20 36 - - - 6 20 Santee Electric Cooperative 43,572 5 20 36 - - - 5 20 South Carolina Public Service Authority 180,687 21 42 84 14 23 48 7 20	Mid-Carolina Electric Cooperative	55,427	11	20	36	-	-	-	11	20	÷
Palmetto Electric Cooperative71,54572036720Pee Dee Electric Cooperative30,42062036620Santee Electric Cooperative43,57252036520South Carolina Public Service Authority180,687214284142348720	Newberry Electric Cooperative	12,916	6	20	36	-	-	-	6	20	
Pee Dee Electric Cooperative30,42062036620Santee Electric Cooperative43,57252036520South Carolina Public Service Authority180,687214284142348720	ri-County Electric Cooperative	17,967	11	20	36	-	-	-	11	20	:
antee Electric Cooperative 43,572 5 20 iouth Carolina Public Service Authority 180,687 21 42 84 14 23 48 7 20	Palmetto Electric Cooperative	71,545	7	20	36	-	-	-	7	20	
South Carolina Public Service Authority 180,687 21 42 84 14 23 48 7 20	Pee Dee Electric Cooperative	30,420	6	20	36	-	-	-	6	20	:
	Santee Electric Cooperative	43,572	5	20	36	-	-	-	5	20	:
/ork Electric Cooperative 19 20	South Carolina Public Service Authority	180,687	21	42	84	14	23	48	7	20	
	York Electric Cooperative	57,449	19	20	36	-	-	-	19	20	





		Total	Solar (W/C)		Utility-Scale	e Solar (W/C))	Distribute	ed Solar (W/	'C)
UTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
SCE&G	715,592	241	512	1,706	157	361	1,402	84	151	304
South Carolina Municipals	168,115	7	10	75	-	-	57	7	10	18
City of Camden	10,892	0	10	18	-	-	-	0	10	18
Clinton Combined Utility System	4,021	-	10	18	-	-	-	-	10	18
Easley Combined Utility System	14,530	12	10	18	-	-	-	12	10	18
City of Gaffney	7,430	2	10	18	-	-	-	2	10	18
Greenwood Commission of Public Works	13,972	-	10	18	-	-	-	-	10	18
Greer Commission of Public Works	25,073	12	10	18	-	-	-	12	10	18
Lockhart Power	6,183	-	10	1,563	-	-	1,545	-	10	18
City of Newberry	4,965	-	10	18	-	-	-	-	10	18
City of Orangeburg	24,165	-	10	18	-	-	-	-	10	18
City of Rock Hill	36,369	17	10	18	-	-	-	17	10	18
City of Seneca	8,296	-	10	18	-	-	-	-	10	18
City of Union	6,856	3	10	18	-	-	-	3	10	18
City of Laurens	5,363	-	10	18	-	-	-	-	10	18
Southern Company	4,623,158	233	314	618	203	281	575	30	33	43
Alabama Power Co	1,475,042	34	67	335	33	64	330	1	3	5
Georgia Power Co	2,501,473	353	426	809	301	371	752	52	54	58
Gulf Power Co *	459,049	144	291	329	131	271	269	13	19	60
Mississippi Power Co	187,594	432	821	924	420	808	829	12	13	95
- Tampa Electric	744,691	49	157	934	29	128	806	20	29	128

* Note: Gulf Power remained a unit of the Southern Company through 2018. That ownership transfer to NextEra will be reflected in the next update.





		Total	Solar (W/C)		Utility-Scale	e Solar (W/C)	Distribut	ed Solar (W/	C)
JTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
VA	4,767,181	54	84	251	34	54	193	20	31	5
Aberdeen Electric Department	3,258	68	108	410	66	104	373	2	5	30
Albertville Municipal Utilities Board	10,183	63	125	406	62	98	353	1	27	5
Alcorn County Electric Power Association	18,775	37	56	209	34	53	192	4	2	1
City of Amory	4,010	35	61	238	35	56	202	-	5	3
City of Alcoa Utilities	28,981	32	65	182	22	35	127	10	30	5
Appalachian Electric Cooperative	46,292	29	64	177	21	34	121	8	31	5
Arab Electric Cooperative	15,474	40	46	145	21	34	121	19	12	2
City of Athens Electric Department	45,917	33	69	203	26	42	150	7	27	5
Athens Utility Board	13,206	95	112	350	52	82	296	43	30	5
Benton County Electric System	10,403	22	61	169	20	32	114	2	30	5
Benton Electric System	2,523	49	84	239	29	47	169	20	38	6
City of Bessemer Utilities	11,152	30	73	218	29	46	165	1	27	5
Blue Ridge Mountain Electric Member Corp	52,028	305	177	362	14	21	77	291	156	28
Bolivar Energy Authority	11,060	26	64	178	22	34	124	4	30	5
Bowling Green Municipal Utilities	29,729	32	88	251	32	50	181	1	38	6
Bristol Tennessee Essential Services	33,580	45	74	214	28	44	160	17	30	5
Brownsville Utility Department	5,382	41	95	289	41	65	235	-	30	5
Central Electric Power Association	36,382	29	42	159	25	40	143	4	2	1
Caney Fork Electric Cooperative	32,332	100	63	171	20	32	114	80	31	5
Carroll County Electric Department	15,563	43	76	220	29	46	166	14	30	5
Electric Power Board of Chattanooga	169,615	67	84	250	36	54	195	31	30	5
Cherokee Electric Cooperative	23,669	22	47	149	22	35	125	-	12	2
Chickamauga Electric System	975	26	81	212	26	42	159	-	39	5
CDE Lightband	69,157	26	66	185	23	36	130	3	30	5
Cleveland Utilities	31,481	51	86	256	35	56	202	16	30	5





		Total	Solar (W/C)		Utility-Scale	e Solar (W/C)	Distribut	ed Solar (W/	C)
JTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
VA (continued)										
Clinton Utilities Board	29,859	31	74	213	28	44	158	3	30	5
Columbia Power & Water Systems	27,560	30	68	193	24	38	139	6	30	5
Columbus Light & Water	12,918	31	54	212	31	49	176	-	5	3
Cookeville Electric Department	17,745	48	82	244	33	53	189	15	30	5
Covington Electric System	4,711	54	115	360	54	85	306	-	30	5
Cullman Power Board	8,666	38	81	245	34	53	193	5	27	5
Cullman Electric Cooperative	43,229	55	53	169	26	41	146	29	12	24
Cumberland Electric Member Corp	94,555	42	77	221	29	46	164	13	31	5
City of Dayton Electric Department	10,584	31	74	215	28	45	161	3	30	5
Decatur Utilities	26,595	57	103	324	48	75	271	9	27	5
Dickson Electric Department	34,796	48	71	205	26	42	150	22	30	5
Duck River Electric Member Corp	74,369	37	72	203	26	41	146	11	31	5
Oyersburg Electric System	11,861	36	87	260	36	57	205	-	30	5
ast Mississippi Electric Power Association	12,803	20	33	126	19	30	109	1	2	1
City of Elizabethton Electric Department	26,412	27	62	171	21	32	117	6	30	55
Erwin Utilities	8,940	28	70	199	25	40	144	3	30	55
towah Utilities	5,117	55	108	338	50	79	283	6	30	5
ayetteville Public Utilities	18,455	333	70	201	26	41	146	307	30	5
lorence Utilities	49,358	29	68	200	26	41	148	3	27	5
ort Loudoun Electric Cooperative	32,116	34	62	170	20	31	113	14	31	5
Fort Payne Improvement Authority	8,490	58	89	274	39	62	222	19	27	5
I-County Electric Power Association	48,243	28	39	149	23	37	132	4	2	1
ranklin Electric Cooperative	7,759	30	59	193	30	47	170	-	12	24
ranklin Electric Power Board	4,989	41	103	303	41	65	233	-	38	69
ulton Electric System	1,628	49	91	264	33	53	194	17	38	69





		Total	Solar (W/C)		Utility-Scal	e Solar (W/C)	Distribut	ed Solar (W/	(C)
JTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	202
VA (continued)										
Gallatin Department of Electricity	18,594	55	104	321	47	74	266	8	30	Į
Gibson Electric Members Corp	34,571	54	70	198	25	39	141	29	31	
Glasgow Electric Power Board	7,427	123	102	299	40	64	230	82	38	
Greeneville Light & Power System	38,231	45	81	240	33	51	185	13	30	
Electric Board of Guntersville	6,440	62	89	275	39	62	222	23	27	
Iarriman Utiliy Board	10,971	28	62	170	20	32	116	8	30	
lartselle Utilities	5,535	28	71	211	28	44	158	-	27	
lickman Electric System	1,099	51	62	166	14	25	97	37	38	
Holly Springs Utility Department	11,623	22	39	159	22	34	123	-	5	
Iolston Electric Cooperative	30,500	68	75	214	28	44	157	40	31	
Hopkinsville Electric System	12,980	32	84	235	29	46	166	3	38	
Humboldt Utilities	4,425	94	86	256	35	56	202	58	30	
Iuntsville Utilities	182,443	36	74	222	30	47	169	6	27	
ackson Energy Authority	36,031	86	108	338	50	79	283	37	30	
ellico Electric & Water System	2,328	97	61	168	33	31	113	64	30	
oe Wheeler Electric Member Corp	43,227	49	77	255	41	64	232	8	12	
BrightRidge	78,102	38	70	198	25	40	143	13	30	
Knoxville Utilities Board	201,857	43	74	214	28	44	160	15	30	
aFollette Utilities Board	22,101	45	60	164	19	30	109	26	30	
awrenceburg Electric System	20,257	36	69	196	25	39	142	12	30	
enoir City Utilities Board	64,400	50	72	207	27	42	152	23	30	
ewisburg Electric System	6,168	77	121	383	58	91	328	19	30	
exington Electric System	22,507	25	62	171	20	32	117	5	30	
oudon Utilities Board	11,945	86	117	369	55	87	315	31	30	
ouisville Utilities	3,472	54	63	248	37	59	212	17	5	





UTILITY		Total Solar (W/C) Utility-Scale Solar (W/C)					Distributed Solar (W/C)			
	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022
TVA (continued)										
City of Macon Electric Department	1,205	20	37	161	20	33	125	-	5	36
Marshall-De Kalb Electric Cooperative	19,681	35	48	153	23	36	129	13	12	24
City of Maryville Electric Department	21,313	45	90	272	38	61	218	6	30	55
Mayfield Electric & Water System	5,424	32	81	227	28	44	157	5	38	69
McMinnville Electric System	8,006	32	71	202	26	41	147	6	30	55
Memphis Light Gas and Water	414,315	46	84	251	35	55	197	11	30	55
Meriwether Lewis Electric Cooperative	34,140	52	89	267	37	58	210	15	31	57
Middle Tennessee Electric Member Corp	219,233	51	76	218	28	45	161	23	31	57
Milan Department of Public Utilities	8,162	45	69	195	25	39	141	20	30	55
Morristown Utility Systems	14,790	72	134	430	66	104	376	6	30	55
Mountain Electric Cooperative	33,970	22	255	542	20	31	112	2	224	430
Mount Pleasant Power System	3,973	35	82	244	33	53	190	2	30	55
Murfreesboro Electric Department	61,686	35	77	225	30	47	171	6	30	55
Murray Electric System	8,018	53	98	288	38	61	218	15	38	69
Muscle Shoals Electric Board	8,032	41	92	285	41	64	232	1	27	53
Nashville Electric Service	394,705	47	80	235	32	50	181	16	30	55
Natchez Trace Electric Power Association	15,853	28	37	141	22	35	125	6	2	17
New Albany Light Gas & Water	10,709	39	57	223	33	52	187	6	5	36
Newbern Electric Water & Gas	1,809	63	130	417	63	100	363	-	30	55
Newport Utilities	21,648	66	73	210	27	43	156	39	30	55
North Alabama Electric Cooperative	18,196	28	47	149	22	35	125	6	12	24
North Georgia Electric Member Corp	99,731	59	79	196	25	40	143	34	39	52
Northcentral Mississippi Electric Power Associatio	30,976	37	58	217	35	56	200	2	2	17
Oak Ridge Electric Department	16,232	59	82	244	33	53	190	26	30	55
City of Okolona Electric Department	5,253	19	35	146	19	30	110	-	5	36
City of Oxford Electric Department	9,472	26	45	181	26	40	145	1	5	36





UTILITY		Total Solar (W/C)				e Solar (W/C		Distribut	Distributed Solar (W/C)		
	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	2022	
TVA (continued)											
Paris Board of Public Utilities	21,289	43	66	186	23	37	132	20	30	55	
Pennyrile Rural Electric Cooperative	43,606	57	84	236	29	46	166	28	38	69	
Philadelphia Utilities	3,848	34	58	229	34	53	193	-	5	36	
Pickwick Electric Cooperative	20,624	20	61	164	19	30	107	1	31	57	
Plateau Electric Cooperative	17,044	22	61	165	19	30	109	3	31	57	
Pontotoc Electric Power Association	19,150	24	40	152	24	38	136	-	2	17	
Powell Valley Electric Cooperative	23,613	18	60	162	18	29	105	-	31	57	
Prentiss County Electric Power Association	13,810	27	45	169	27	42	153	0	2	17	
Pulaski Electric System	14,395	182	83	246	34	53	192	148	30	55	
Rockwood Electric Utility	14,624	37	65	181	22	35	127	14	30	55	
Russellville Electric Board	5,028	30	75	223	30	47	170	-	27	53	
Russellville Electric Plant Board	4,068	35	91	261	34	53	192	2	38	69	
Sand Mountain Electric Cooperative	31,324	27	45	142	21	33	119	6	12	24	
Scottsboro Electric Power Board	8,253	41	92	287	41	65	234	-	27	53	
Sequachee Valley Electric Cooperative	35,319	52	69	194	24	38	137	28	31	57	
Sevier County Electric System	54,128	35	74	213	28	44	159	8	30	55	
Sheffield Utilities	18,892	44	92	285	41	65	232	4	27	53	
Shelbyville Power System	10,268	44	91	276	39	62	222	5	30	55	
Smithville Electric System	2,708	60	111	349	51	81	294	9	30	55	
Southwest Tennessee Electric Member Corp	49,996	30	63	171	20	32	114	10	31	57	
Sparta Electric & Public Works	2,988	49	98	302	43	68	247	6	30	55	
Springfield Electric	8,233	48	94	285	40	64	230	8	30	55	
Starkville Electric Department	13,545	56	58	226	33	53	190	23	5	36	
Sweetwater Utilities Board	9,022	56	74	213	28	44	158	29	30	55	





		Total	Solar (W/C)	olar (W/C) Utility-Scale Solar (W/C) Di				Distribut	Distributed Solar (W/C)		
JTILITY	Customers (2017)	2017	2018	2022	2017	2018	2022	2017	2018	202	
VA (continued)											
allahatchie Valley Electric Power Association	27,564	27	42	161	25	40	144	1	2	1	
arrant Electric Department	2,762	42	65	189	23	38	137	18	27	Ę	
Tennessee Valley Electric Cooperative	19,504	25	64	176	21	33	119	4	31	Ę	
ippah Electric Power Association	13,642	26	44	166	26	41	149	0	2		
ishomingo County Electric Power Association	13,413	22	37	142	22	35	126	-	2		
ombigbee Electric Power Association	43,474	28	46	173	28	44	157	1	2		
renton Light & Water Department	2,435	29	76	224	29	47	170	-	30	Ļ	
ri-State Electric Member Corp	18,958	24	89	197	16	25	90	8	65	1(
ri-County Electric Member Corp	52,080	28	75	208	25	40	145	3	34		
ullahoma Utilities Authority	10,771	36	75	218	29	45	164	7	30		
City of Tupelo Water & Light Department	15,408	47	73	283	43	69	247	3	5		
uscumbia Electricity Department	4,806	22	61	174	21	33	121	1	27		
nion City Electric System	6,412	50	105	324	47	75	270	2	30		
pper Cumberland Electric Member Corp	49,594	29	66	181	22	35	124	7	31		
olunteer Electric Cooperative	115,465	47	64	175	21	33	118	26	31		
/arren Rural Electric Cooperative Corp	64,895	88	91	259	33	53	190	55	38		
City of Water Valley Electric Department	2,014	36	62	244	36	57	207	-	5	;	
Neakley County Municipal Electric System	20,392	29	67	190	24	38	135	6	30	:	
Vest Kentucky Rural Electric Cooperative	38,622	92	68	177	19	30	107	73	38	(
City of West Point Electric System	3,894	22	40	162	22	35	126	-	5	;	
Vinchester Utilities	5,930	42	80	235	32	50	180	10	30		
ipley Power & Light	6,671	30	78	228	30	48	173	-	30		
hickasaw Electric Cooperative	19,790	32	73	208	27	42	151	6	31		
orked Deer Electric Cooperative	9,890	20	60	161	18	29	104	2	31		
Iorth East Mississippi Electric Power Association	25,846	28	44	168	27	42	151	1	2		
Aonroe County Electric Power Association	11,218	22	33	129	20	31	112	2	2		
IFC RECC (Merged into Gibson EMC)	3,422	69	74	199	23	36	129	46	38		
City of Courtland	790	26	69	213	26	42	161	-	27	:	
Murphy Electric Power Board	5,029	51	426	898	29	45	164	22	380	73	

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