

ENERGY EFFICIENCY IN THE SOUTHEAST

2019 Annual Report

Southern Alliance for Clean Energy
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Southern Alliance for Clean Energy

INTRODUCTION

OVERVIEW

Energy Efficiency is a proven low-cost clean energy resource, but utilities and regulators in the Southeast continue to underinvest in efficiency - even as they build more expensive fossil fuel power plants and run outdated legacy generators. Expanding energy efficiency in the Southeast is critical to reduce carbon emissions from the power sector, a leading cause of the climate crisis.

This report documents recent energy efficiency trends at the utility and state levels, and identifies policies and practices impacting energy efficiency resource adoption in the Southeast.

ABOUT SACE

The Southern Alliance for Clean Energy 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 focused on transforming the way we produce and consume energy in the Southeast.

DATA HIGHLIGHTS

Duke Energy in the Carolinas continues to lead the region in our annual ranking of Southeast utilities. Georgia Power and Tampa Electric both exceed the regional average. All other major Southeastern utility systems are substantially underperforming, resulting in overall regional performance that is near the bottom of national rankings.

This report scores Southeast utilities primarily on the basis of energy saved in 2018 as a percentage of the previous year's total electricity sales, with additional context and comparisons to state, regional, and national averages to highlight recent trends.

POLICY DEVELOPMENTS

The report identifies recent policy and regulatory developments, significant utility actions, and other contextual factors that will impact the future direction of efficiency in the region. It also highlights the relationship between energy efficiency and decarbonization of the region's power sector.

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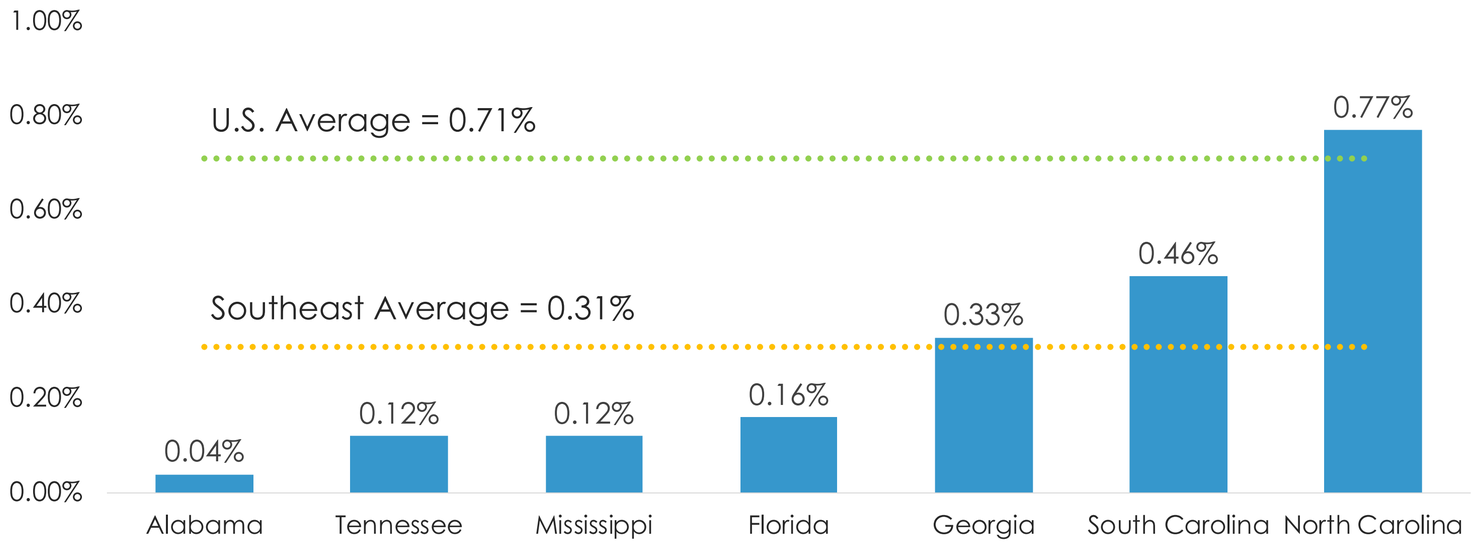
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EFFICIENCY PERFORMANCE OF SOUTHEASTERN STATES

2018 ENERGY SAVINGS AS % OF PRIOR YEAR RETAIL SALES



STATE RANKINGS

North Carolina was the clear Southeast leader again in 2018 at 0.77% annual savings. It was the only state to exceed the national average, coming in more than double the Southeast regional average. Leading states nationally, like Rhode Island and Massachusetts, were four times higher, suggesting significant opportunities remain for more savings. By contrast, Alabama, Tennessee, Mississippi, and Florida dragged the Southeast regional average downward.

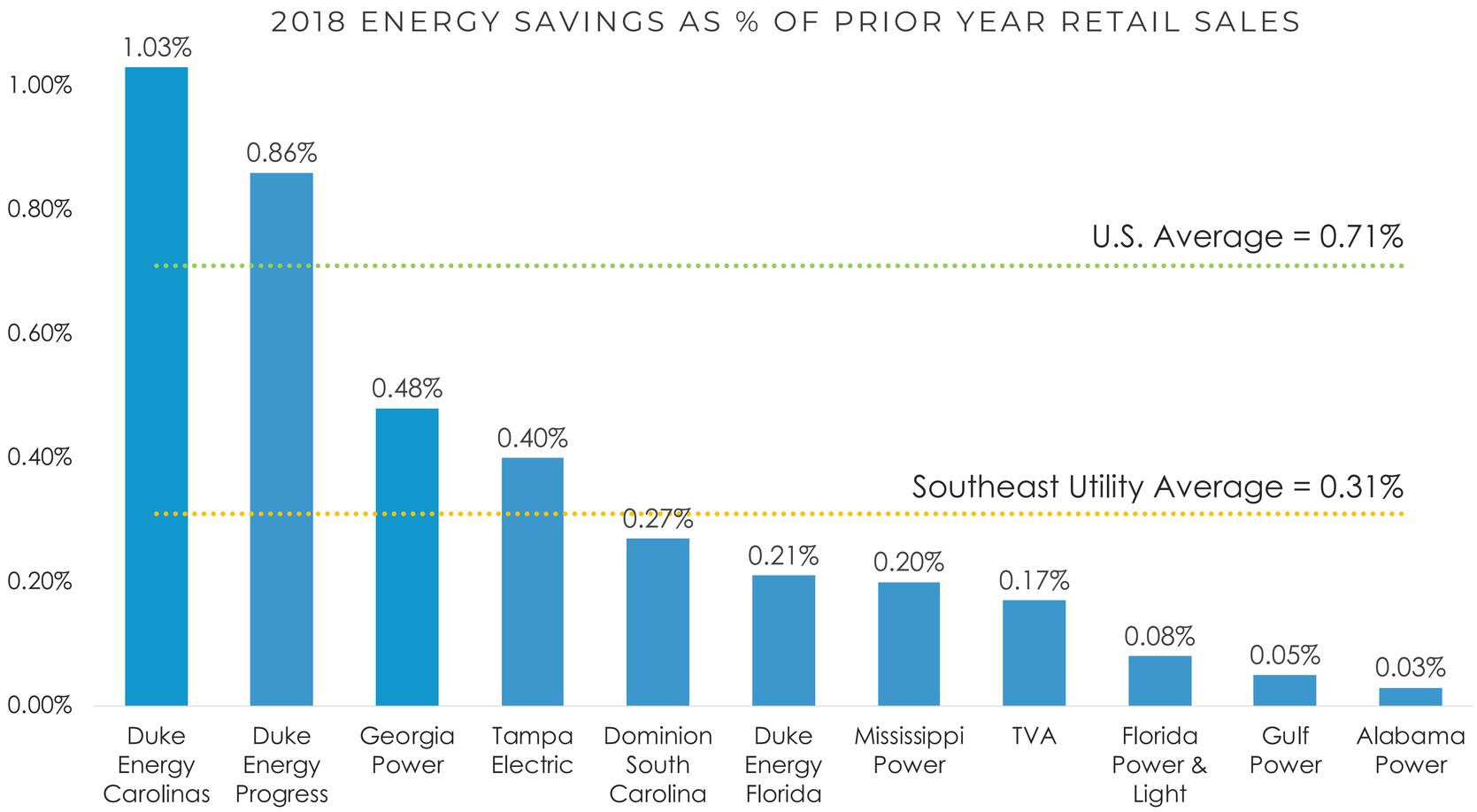
REGION-TO-REGION COMPARISON

REGION	% OF RETAIL SALES
NORTHEAST	1.22 %
WEST-PACIFIC	1.08 %
MIDWEST	1.07 %
WEST-MOUNTAIN	0.72 %
SOUTH	0.29 %

REGIONAL RANKINGS

Efficiency performance in the Southeast has consistently lagged behind other parts of the country, often falling dead last in regional rankings. 2018 was no exception with the Southeastern region near the bottom at 0.31% annual savings. By contrast, the Northeast had the highest percentage of annual savings, four times higher than the Southeast.

EFFICIENCY PERFORMANCE OF MAJOR SOUTHEASTERN UTILITIES



ENERGY SAVINGS

Efficiency eliminated **2,426** GWh of energy waste in 2018, enough to power **175,000** homes for a year.

CAPACITY SAVINGS

Energy efficiency can play an important role in cost effectively offsetting the need for future power plants, while aiding in the retirement of the region's aging fossil fuel generation fleet.

POLLUTION REDUCTION

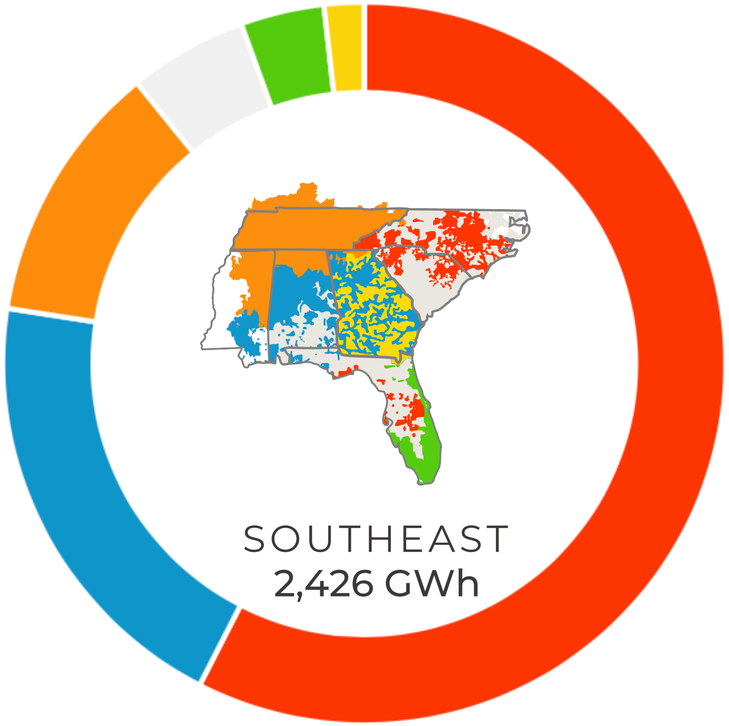
In the past 5 years, CO_2 emissions were reduced by over 5.4 million metric tons, equal to removing 1.1 million cars from the road for a year.

SOUTHEAST UTILITY SYSTEM EFFICIENCY SAVINGS BREAKDOWN

DUKE ENERGY
1,253 GWh

SOUTHERN COMPANY
434 GWh

TENNESSEE VALLEY AUTHORITY
255 GWh



FLORIDA POWER & LIGHT
82 GWh

OGLETHORPE POWER
39 GWh

OTHER UTILITIES
115 GWh

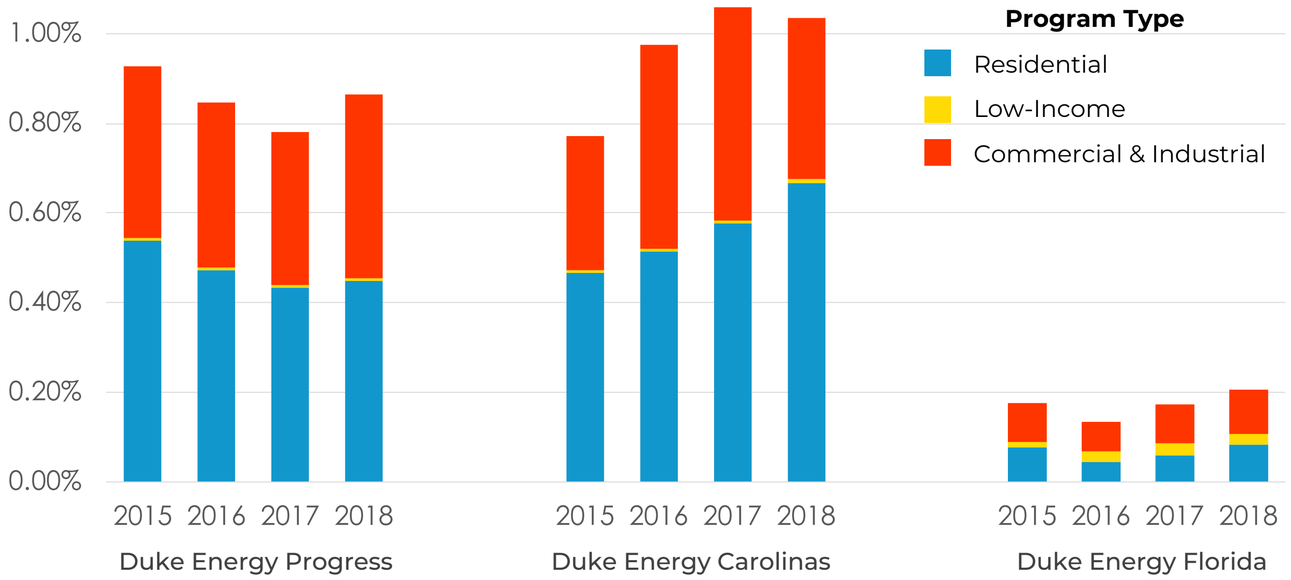
Most major utilities in the Southeast region have embarrassingly low efficiency savings, with the exception of Duke Energy in the Carolinas and Georgia Power. Alabama Power presents an extreme example, with savings so low (15,392 MWh in 2018) that utilities with just a fraction of its 1.5 million customers are saving customers more energy. For instance, Tampa Electric Company has roughly half as many customers but achieved five times higher energy savings in 2018. Florida Power & Light (FP&L), the region's largest utility, also underperformed, especially in comparison to the second largest utility, Duke Energy Carolinas (DEC), which delivered per capita efficiency savings approximately 20 times higher than FP&L.

0.79%
System Avg.

DUKE ENERGY

EFFICIENCY COMMITMENT DELIVERS STRONG RESULTS

ENERGY SAVINGS AS % OF PRIOR YEAR RETAIL SALES



EXPANDING LOW-INCOME EFFICIENCY PROGRAMS

Duke Energy Florida's (DEF) Neighborhood Energy Saver is an important bright spot for their otherwise disappointing savings levels. The program's expanded suite of measures reach a lot of low-income customers, and are now being considered for deployment in the Carolinas. Meanwhile, DEC has had great success with a different program designed to deliver deep weatherization to individual customers struggling with high energy burdens.

PERFORMANCE LEADERSHIP

For the second consecutive year, Duke Energy Carolinas exceeded its agreed-to savings of 1% of prior year retail sales, once again earning the top ranking in our region. At 0.86%, Duke Energy Progress (DEP) remained head and shoulders above the next major utility, showing hints of a recovery from its steady decline in savings since in 2015.

NEIGHBORHOOD ENERGY SAVERS	TOTAL kWh SAVINGS	CUSTOMERS SERVED	kWh SAVINGS PER CUSTOMER
Duke Energy Florida	8,787,906	20,906	420
Duke Energy Carolinas	3,633,411	9,865	368
Duke Energy Progress	2,278,804	5,047	451

INCOME QUALIFIED WEATHERIZATION	TOTAL kWh SAVINGS	CUSTOMERS SERVED	kWh SAVINGS PER CUSTOMER
Duke Energy Florida	229,969	204	1,127
Duke Energy Carolinas	1,578,579	816	1,934
Duke Energy Progress	n/a	n/a	n/a

DUKE ENERGY

CONTINUED LEADERSHIP NEEDED TO OVERCOME CHALLENGES

OVERCOMING PROJECTED FUTURE DECLINES

Duke is projecting substantial declines in future efficiency savings. For 2020, DEC projects a 20% decline, DEP projects a 9% drop, and DEF's meager 0.27% target will fall precipitously over the next five years to barely half the current level. To justify these declines, Duke points to lower avoided costs rates, building codes, and higher lighting and appliances efficiency standards. But for years utilities across the country have consistently achieved increasing savings under these same pressures through innovation and effective program design. In the Carolinas, Duke is working with a robust group of stakeholders, called The Collaborative, to identify additional program and savings opportunities to reach and exceed 1% annual savings.

THE IMPORTANCE OF ORGANIZATIONAL STRUCTURE AND MANAGEMENT LEADERSHIP

In contrast with utilities who contract out most or all of the responsibility for delivering energy efficiency, Duke has established a robust internal staff to oversee its efficiency program delivery across multiple states. Not only has this strengthened the company's capacity to manage and execute new strategies, Duke has demonstrated a focus on continuous improvement that is unrivaled in the region.

POLICIES LIMIT HIGHER SAVINGS

Duke Energy Carolinas and Duke Energy Progress benefit from largely supportive state policies, and the Utilities Commissions in North and South Carolina have shown that they value the cost-effective savings achieved by energy efficiency. However, there is room for improvement. Despite huge savings opportunities in the commercial and industrial sector, the company is constrained by legislation that gives large commercial and industrial customers an "opt out." As a result, many businesses do not contribute to either the cost of or savings from utility efficiency programs in the Carolinas.

Duke Energy Florida's underperformance is also largely a matter of policy. The Florida Commission penalizes efficiency by treating energy savings as a cost to the utility - rather than counting it as a benefit to customers. They are also the only state to automatically eliminate any efficiency measure that pays back in 2 years or less. This ridiculous policy undermines virtually all efficiency measures when setting utility savings goals.

0.29%
System Avg.

SOUTHERN COMPANY

NEXT STEPS ON A LONG JOURNEY

Southern Company

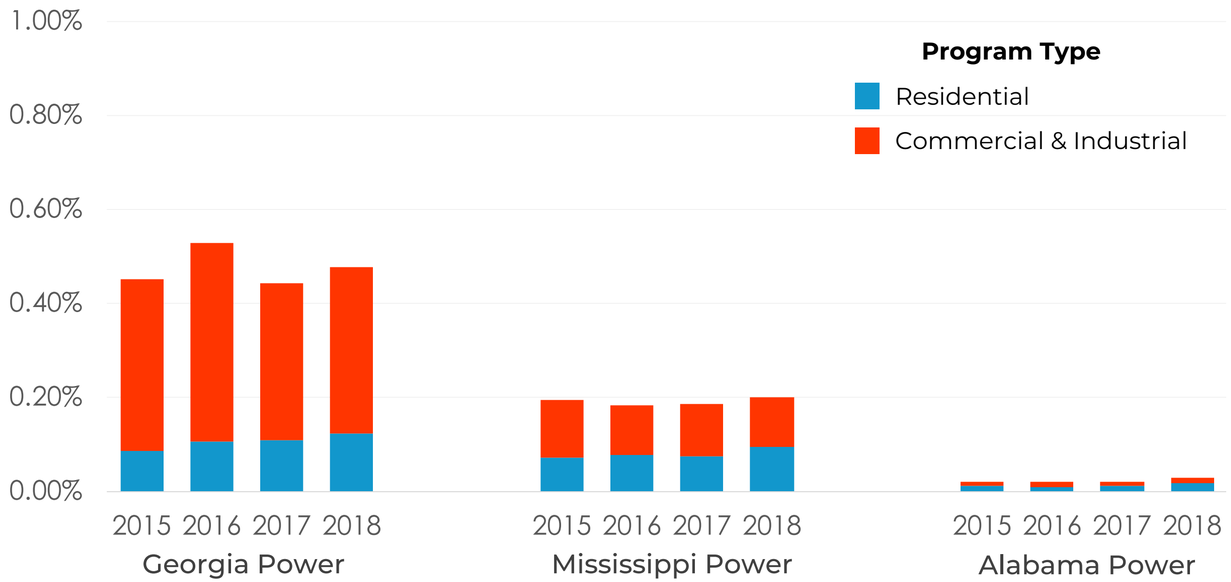
COMMISSION NUDGES GEORGIA POWER UPWARD

Georgia Power's efficiency performance trails Duke's by a substantial degree, but the company has managed to break from most utilities in the Southeast that are stuck at the bottom. Georgia Public Service Commission Chairman Bubba McDonald gave new momentum to efficiency in Georgia Power's 2019 integrated resource plan (IRP), requiring a 15% increase in savings over proposed status quo levels. The company was also told demand side resources must be allowed to compete directly with power generation in future IRPs. While there is still room for improvement, Georgia Power's recent progress is refreshing.

EMISSIONS: GOALS VS. ACTIONS

Energy efficiency is a low cost option to reduce carbon emissions. But there is a glaring disconnect between Southern Company's greenhouse gas reduction commitments and what its affiliates are actually doing with efficiency investments and power planning. If Southern Company is going to be as good as their words, raising the bar on energy efficiency would be a good place to start.

ENERGY SAVINGS AS % OF PRIOR YEAR RETAIL SALES



MISSISSIPPI AND ALABAMA

Southern Company does not share efficiency staff across operating companies, which partially explains the highly uneven performance. Despite having operated efficiency programs since 2014, Mississippi Power has never exceeded 0.2% annual energy savings. Meanwhile, Alabama Power has made no meaningful effort to serve their customers with efficiency whatsoever.

0.27%
System Avg.

DOMINION SOUTH CAROLINA

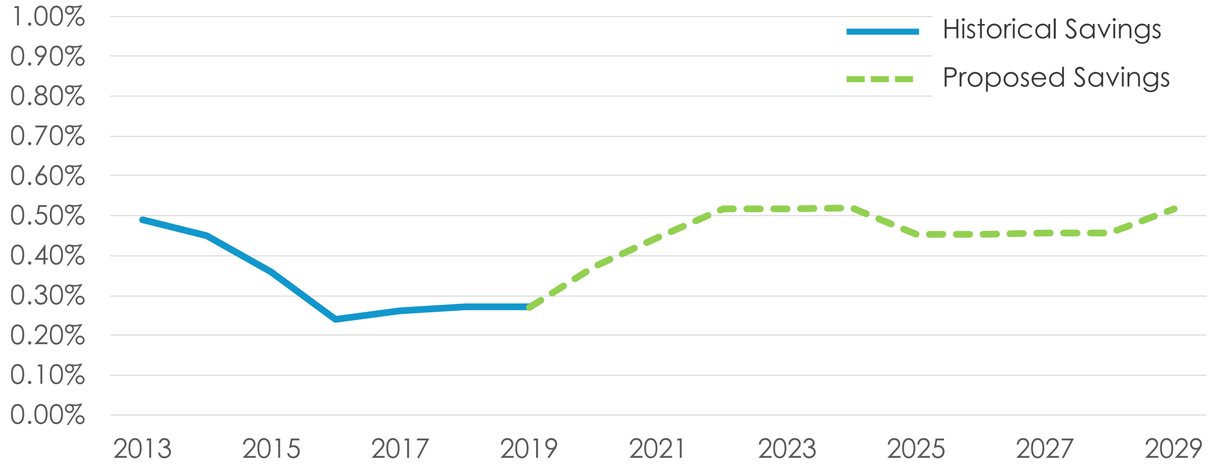
TAKING ANOTHER LOOK AT EFFICIENCY

Dominion Energy®

A CHANCE TO START OVER

It has been six years since SCE&G received Commission approval for its previous efficiency program portfolio. Unfortunately, the company later eliminated key programs and cut its Commission-approved efficiency budget. Meanwhile, the company nearly went bankrupt pursuing a massively expensive failed nuclear power project. Dominion Energy has purchased SCE&G and recently got Commission approval for five years of efficiency programs. Will this be the beginning of a new day for efficiency, or lead to a repeat of past mistakes?

HISTORICAL AND PROPOSED SAVINGS



PAY FOR PERFORMANCE

Dominion proposed roughly doubling the anemic annual efficiency levels it achieved in recent years, with a target of just over 0.5% in 2022. The increase is significant, though still falls substantially short of the 1% annual savings achieved by neighboring utility Duke Energy Carolinas in 2017 and 2018. Dominion wants to be paid a comparable performance incentive to what Duke earns – which makes sense, if Dominion also aims for comparable savings levels.

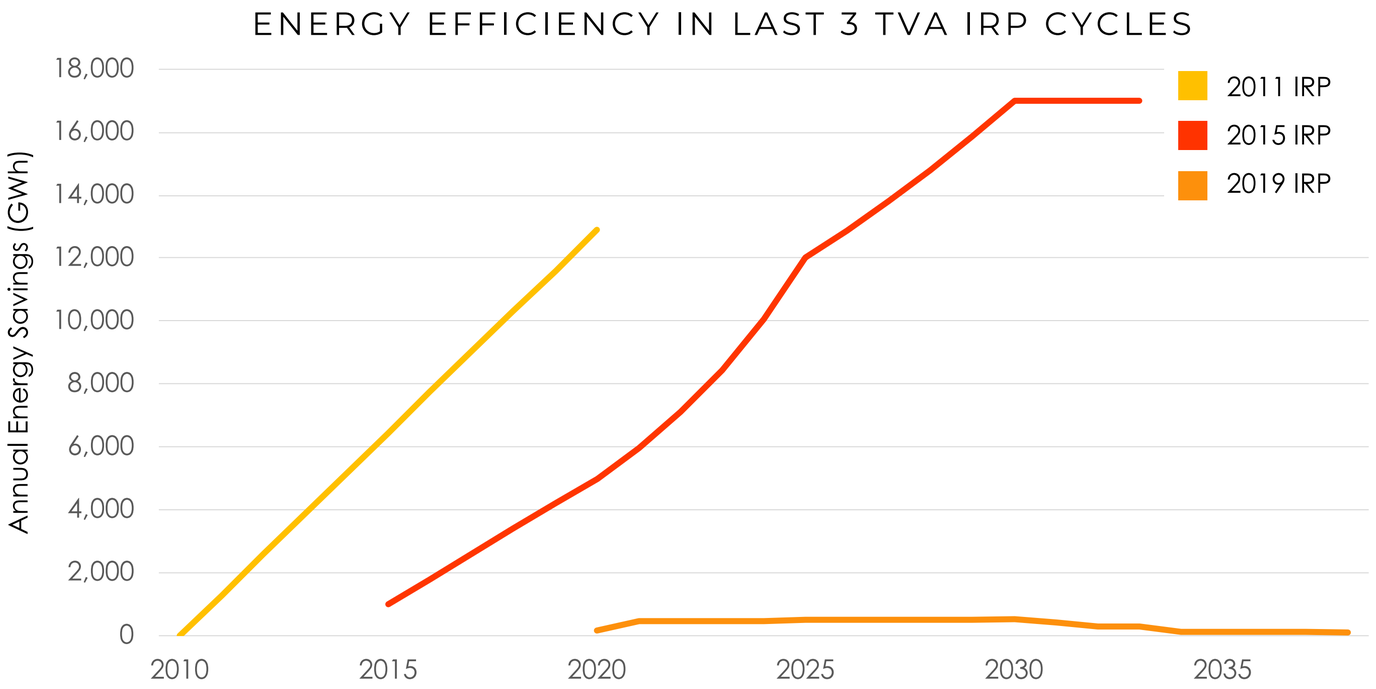
WINTER PEAKING

South Carolina electricity demand has historically been highest in summer months, but Dominion now argues that utility system costs are driven by winter peak energy use. This claim was used to undercut investment in solar energy, which so alarmed the Commission that it ordered the company to implement efficiency and demand response programs to reduce winter peak. Dominion's new efficiency plan marks a step in the right direction, but does not invest adequately in long-lived, deeper energy savings needed to significantly reduce winter peak demand.

0.17%
System Avg.

TENNESSEE VALLEY AUTHORITY

TURNING AWAY FROM MEANINGFUL EFFICIENCY



FUNDING SLASHED, A RETREAT FROM INCENTIVES

Since 2014, TVA cut already low efficiency spending by nearly two thirds and eliminated customer incentive programs. That leaves educational workshops and minimal investment in low income efficiency programs. With no direct incentives and no proper program performance evaluation, how much efficiency savings can TVA honestly claim?

WHAT JUST HAPPENED TO EFFICIENCY IN TVA'S INTEGRATED RESOURCE PLAN?

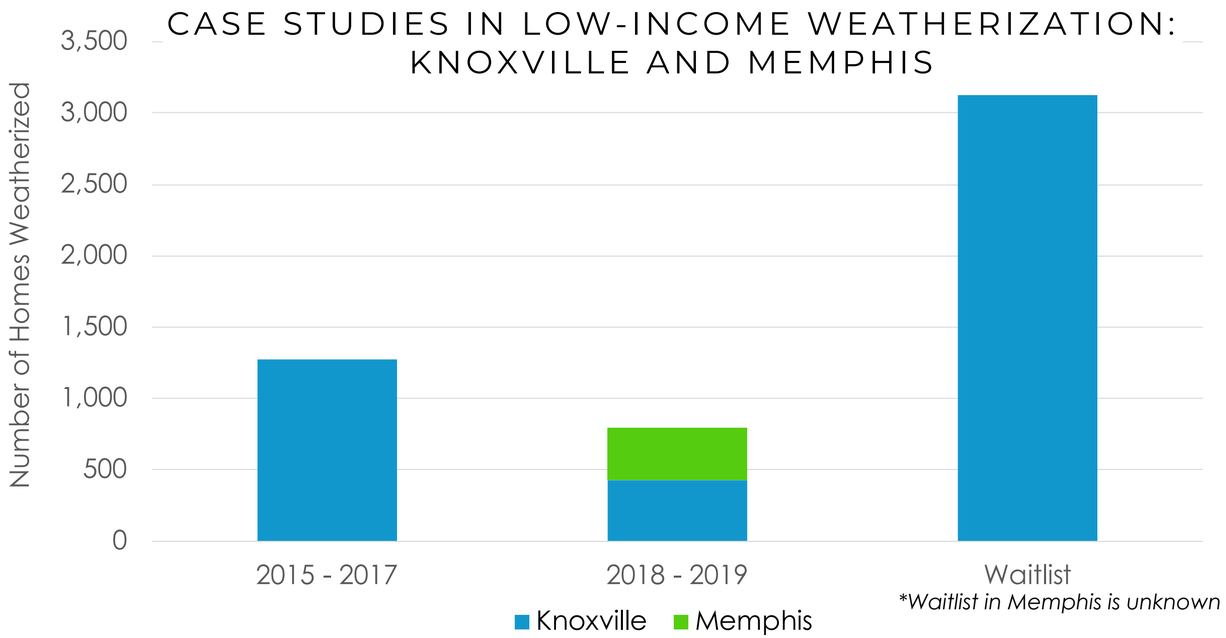
TVA first prioritized efficiency as an energy resource in their 2011 IRP, but actual performance ultimately fell short of plans. TVA's approach in the 2019 IRP took a significant turn for the worse with unrealistic costs and spending caps that significantly reduced TVA's future efficiency investment. In effect, TVA now has no overall efficiency resource strategy and provides minimal funding for low-income weatherization.

DRAGGING THE REGION DOWN

TVA's size makes it a major factor in driving down efficiency performance for the entire Southeast region. If TVA delivered savings comparable to the average of their regional peers, it would result in savings equivalent to the total annual energy usage of nearly 30,000 homes. Unfortunately there is essentially no regulatory oversight to push TVA to do better.

TENNESSEE VALLEY AUTHORITY

EFFICIENCY FOR THOSE MOST IN NEED



SPARE CHANGE FOR EFFICIENCY

Two local utilities that are TVA customers, Memphis and Knoxville, fund low-income efficiency by rounding customer bills up to the nearest dollar, a method supported by SACE. These funds qualify for matching TVA Home Energy Uplift funds. Expanding these types of programs throughout the TVA region would be one way to help more low income customers reduce their energy bills.

MAKING AN EFFORT WITH EFFICIENCY FOR LOW INCOME CUSTOMERS

Energy efficiency programs for low income customers serve a critical need in our communities, but addressing high energy burdens is not an easy task. TVA provides minimal funding for its new low-income program, Home Energy Uplift. The program matches local utility funds to weatherize single-family, owner-occupied low-income homes. The program was piloted in 2018-2019 and will be open to all local utilities in 2020, providing up to an average of $10.5 million per year. Unfortunately, only local utilities with matching funds can participate, customer waitlists are long, and TVA's spending levels lag peers.

LOCAL COMPANIES HAVE MORE POWER THAN THEY REALIZE

Local utility companies face headwinds from TVA when funding efficiency, but the benefit to their customers is worth the effort. Efficiency investments are the best tool for local utilities to reduce energy demand and thereby lower the total cost for power purchased from TVA.

0.08%
System Avg.

FLORIDA POWER & LIGHT

HOW LOW WILL THEY GO?

UTILITY	% SAVINGS	2018 MWh SAVED (Home Equivalent)	CUSTOMER BASE
ENTERGY ARKANSAS	1.22%	18,399	693,203
DUKE ENERGY CAROLINAS	1.03%	60,062	2,215,198
DUKE ENERGY PROGRESS	0.89%	26,734	1,399,860
GEORGIA POWER	0.48%	30,680	2,204,911
REGIONAL AVERAGE	**0.31%**	--	--
FLORIDA POWER & LIGHT	0.08%	6,057	4,391,832

SO, HOW MANY HOUSES IS THAT?

With over 4 million customers FPL is the largest single utility in the Southeast but ranks far below most peers on efficiency. The company is willing to spend billions of dollars on gas infrastructure but not on efficiency, though energy efficiency is a better investment for customers. In 2019 the company proposed slashing its efficiency goals even further, down to the energy equivalent of just 7 houses. Fortunately the Commission rejected FPL's proposal. Their new savings requirements are meager, but better than nothing.

TECO / DUKE, PLEASE SHOW FPL HOW IT'S DONE

Even with low overall savings goals, TECO and Duke have both offered fairly robust low-income efficiency programs for over a decade. Adjusted for utility size, Duke and TECO delivered over 20 and 50 times more low income efficiency savings, respectively, than FPL during that time. In 2019, FPL proposed increasing its low-income efficiency spending to $1 million a year, small change for a company of its size.

UTILITY	LOW-INCOME CUSTOMERS	% OF OVERALL LOW-INCOME
TAMPA ELECTRIC	27,346	23.40%
DUKE ENERGY FLORIDA	66,537	15.28%
GULF POWER	9,251	6.84%
FLORIDA POWER & LIGHT	*5,989*	*0.68%*

ENERGY OPTIMIZATION: DECARBONIZING WITH ELECTRICITY

THE KEYS TO STRATEGIC ENERGY OPTIMIZATION

Some of the most promising electrification opportunities include:

- Switching from gas to electricity for heating, water heaters, stoves, and clothes dryers
- Lowering and optimizing energy use with smart appliances, devices, and meters
- Modernizing building codes and standards
- Shifting away from gasoline automobiles, commercial shipping, and public transportation



A WIN FOR CONSUMERS, OUR ENVIRONMENT . . . AND THE UTILITIES

Electrification provides opportunities to lower utility and transportation costs for consumers – and cuts carbon emissions driving global climate change. New smart technologies can interconnect and optimize energy use by electric devices to further reduce their carbon footprint. Electrification of direct gas use and fossil fuel transportation also have the potential to reverse recent declines in electricity usage and increase sales for utility companies. If utilities meet this increased demand with efficiency and renewable energy, carbon emissions are further reduced.

HOW ELECTRIFICATION LEADS TO DECARBONIZATION

Electrification can increase electricity demand, but also helps to decarbonize our national energy system – since much of the power sector is already lower emitting than direct fossil fuel use, and it is easier to shift electricity generation to renewable energy sources to further reduce carbon emissions. . Energy efficiency helps offset the additional load created by electrification, thereby reducing carbon emissions from fossil fuel power generation. While energy efficiency and electrification are distinct, together they can eliminate massive amounts of carbon emissions.

STATE PROFILES

ALABAMA

FLORIDA

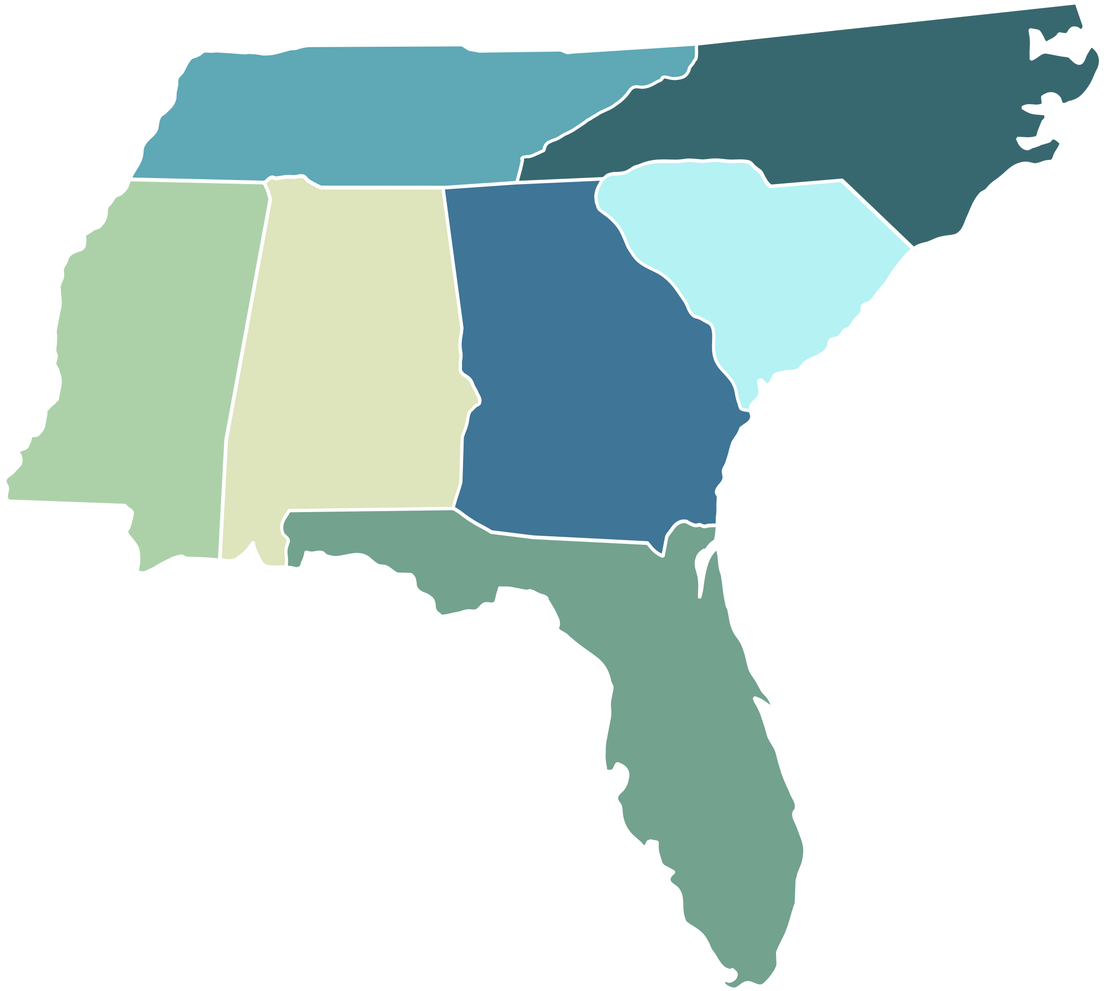
GEORGIA

MISSISSIPPI

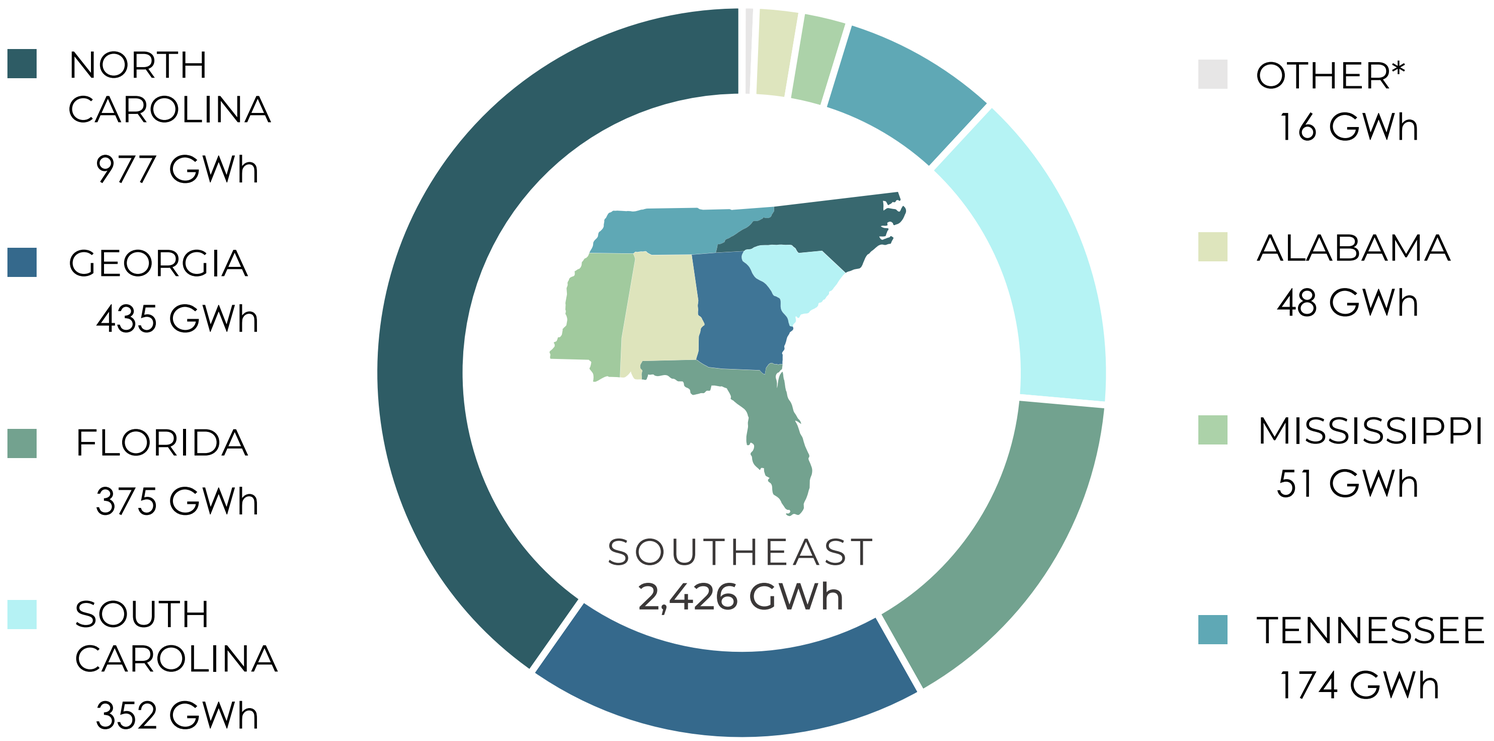
NORTH CAROLINA

SOUTH CAROLINA

TENNESSEE



SOUTHEASTERN STATES EFFICIENCY SAVINGS BREAKDOWN



North Carolina accounted for 40% of the region's total GWh savings, despite having just 17% of the total population, and captured more than three times higher per capita efficiency savings than the rest of the Southeast. By contrast, Florida is the nation's third largest state with 21.6 million people, more than 1/3rd of the region's total population, but only captured slightly more efficiency savings than the far smaller South Carolina. Duke Energy and Southern Company accounted for approximately 70% of regional savings, especially in the Carolinas and Georgia, while Florida Power & Light, Alabama Power, and TVA were most responsible for holding the region back.

ALABAMA

INACTION LEADS TO HIGHER COSTS

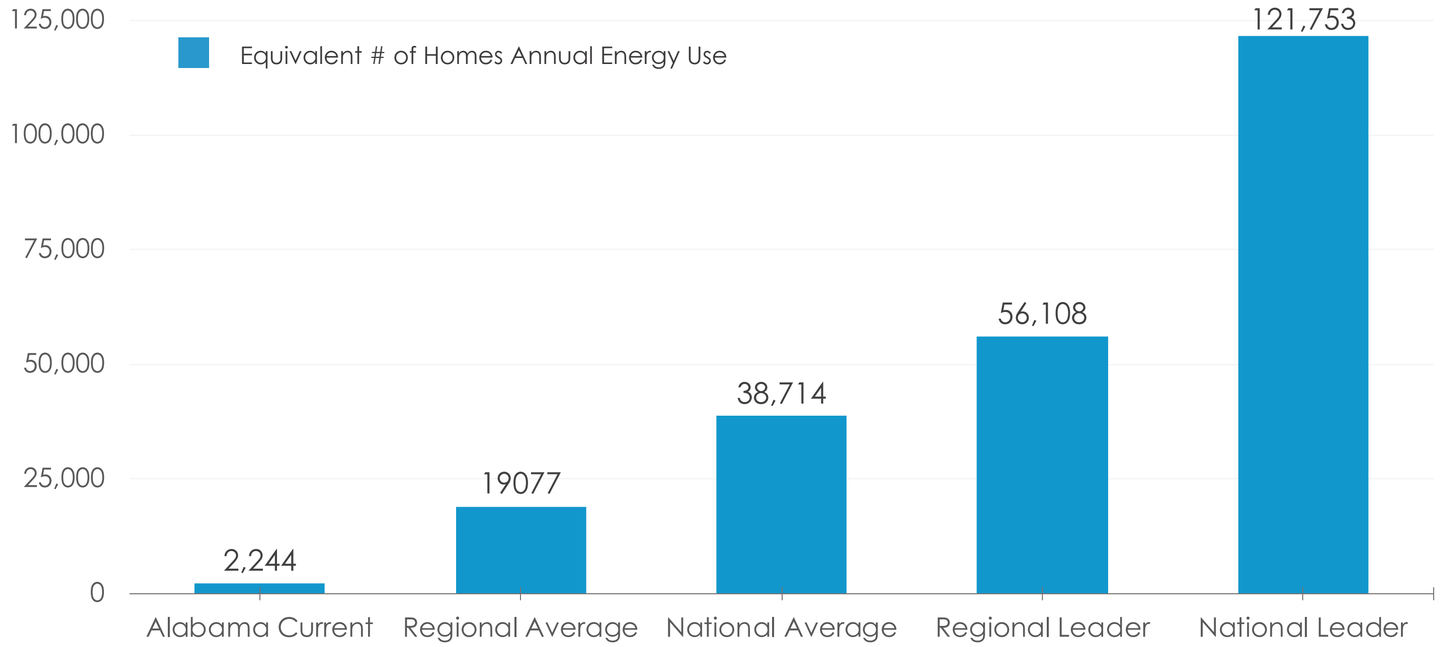
WHAT IF . . . ?

Alabama shows the high price of inaction. For many years, the state has had the worst utility efficiency performance in the Southeast, and among the worst in the nation. Having spent virtually nothing on efficiency, it has the country's second highest average residential bills.

Alabama also has the city with the second highest energy burden in the region, Birmingham, meaning many people are faced with untenable choices between foregoing food, skipping medicine, or having their lights cut off.

Since there is no immediate prospect of political will or utility corporate leadership to expand efficiency investment, it begs the question: How many homes' total annual energy use could be met if Alabama rose to savings levels being achieved elsewhere?

CURRENT VS. HYPOTHETICAL EFFICIENCY SAVINGS IMPACTS



AT LEAST BUILDING CODES ARE UP TO DATE

While most Alabama residents lack access to utility efficiency programs, at least the state implemented the 2015 IECC residential building code, which can save people moving into new homes approximately $386-$602 per year. But the rest of Alabama's families are on their own for efficiency.

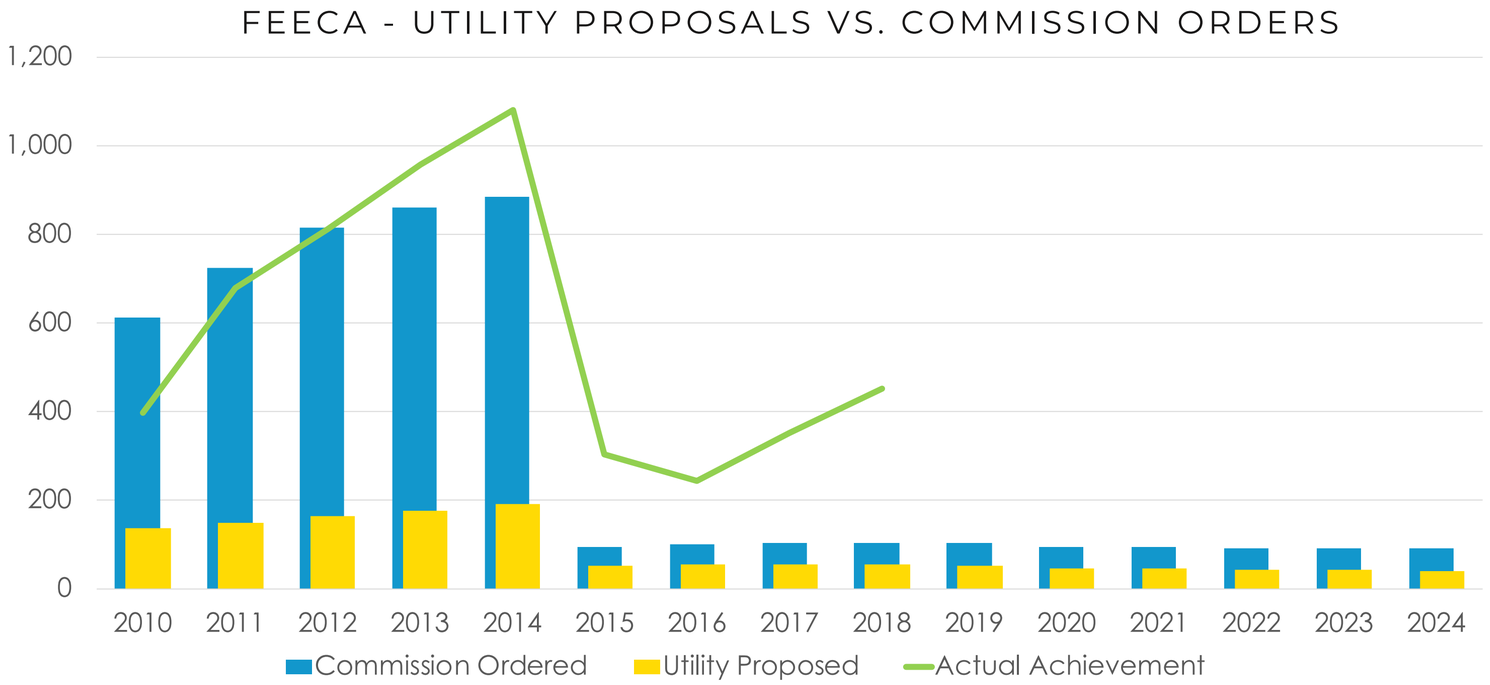
FLORIDA

TIME TO STAND UP FOR EFFICIENCY



UTILITY PROPOSALS CROSS THE LINE

Florida's legislature strengthened the Energy Conservation Act in 2008. Since then utilities have pushed to undermine it, often with the Public Service Commission's blessing. But this year, utility proposals to slash savings goals to zero proved a step too far. The Commission rejected utility proposals and reverted to the goals set in 2014. While goals remain low, the pushback is notable.



THE VOICE OF THE PEOPLE

Public outcry over the utilities' efficiency goal proposals, including a dozen resolutions passed by municipal governments and a staggering 5,000 comments filed in favor of energy efficiency, clearly played a role in the Commission's decision. Many of Florida's cities and counties have already embraced 100% renewable energy and climate emissions reduction targets. To achieve them, low cost efficiency improvements are the smart first step.

TACKLING POVERTY

Even after proposing goals of zero, Florida's utilities paid lip service to the efficiency needs of low income customers. What they will actually do now remains to be seen, but the scale of need is sobering. These utilities serve over 5 million low income residents, 37% of the population.

GEORGIA



UNEVEN OPPORTUNITIES LEAVE MANY CUSTOMERS OUT

CUSTOMERS SERVED & EFFICIENCY SAVINGS BY UTILITY

UTILITY	# OF CUSTOMERS	EFFICIENCY AS % OF PRIOR YEAR SALES
GEORGIA POWER	2,536,685	0.48 %
GEORGIA TOTAL / AVERAGE	4,910,651	0.33 %
OGLETHORPE POWER	1,932,465	0.19 %
MUNICIPAL UTILITIES	280,904	0.00 %
TVA	161,407	0.03 %

CO-OP & MUNICIPAL CUSTOMERS LEFT BEHIND

The Georgia Public Service Commission increased efficiency levels for Georgia Power in the latest integrated resource plan (IRP). However, very little efficiency is provided to the 2.4 million (48%) of Georgia customers served by co-op and municipal utilities. Without Public Service Commission oversight, the responsibility for increasing efficiency in these communities falls to local elected boards and city governments, but there are very few examples of local efficiency efforts or achievement.

INEFFICIENCY IN MOBILE HOMES

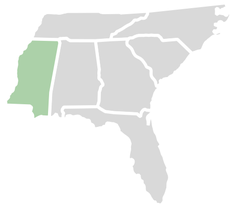
There are more than 375,000 manufactured homes in Georgia, the majority of which were built before efficiency construction standards were in place. Not only does this result in high energy bills, it also presents a clear opportunity for efficiency. Unfortunately, 55% of these families are served by co-op and municipal utilities that do not offer mobile home efficiency programs. And during the 2019 IRP, Georgia Power and the Georgia Commission did not implement a manufactured homes program proposed by clean energy advocates.

UNTAPPED INDUSTRIAL POTENTIAL

Wasted energy hurts businesses' bottom line, making efficiency a powerful tool for enhancing Georgia's economic competitiveness. About one-third of the opportunity for energy efficiency in Georgia lies within industrial facilities. Despite being among the most cost-effective ways to achieve savings, Georgia offers no efficiency programs for industrial customers. That's a lot of wasted potential.

MISSISSIPPI

WHAT IT TAKES TO GET A FAIR SHOT



STILL STALLED

Since first implementing efficiency programs in 2014, the Mississippi Power program budget has gradually declined while the Entergy Mississippi budget has gradually increased. Unfortunately, these programs are still relatively small. Progress toward comprehensive efficiency rules stalled in 2018, and was further complicated when the old policy was rolled into the newly enacted integrated resource planning (IRP) rules.

HOW EFFICIENCY AND IRP RULES RELATE

Energy efficiency is a critical feature of the IRP process, where it should compete with supply resources on an equal basis. But Commission oversight of efficiency should not be limited to the IRP. The creation of a separate docket for efficiency issues, namely setting annual savings targets, reviewing and approving program plans, and setting program evaluation requirements, would ensure this valuable resource doesn't slip through the cracks.

MISSISSIPPI UTILITIES TRAIL THEIR SISTER COMPANIES IN OTHER STATES

Entergy Corp. and Southern Company have both shown they can deliver more savings than their lackluster historical performance in Mississippi. Annual savings for Entergy's programs in Arkansas are nearly six times higher than in Mississippi, and Southern Company affiliate Georgia Power is more than seventeen times higher than Mississippi Power. These utilities can do more, and Mississippi deserves no less.

2018 ENERGY SAVINGS & SPENDING

UTILITY	# OF CUSTOMERS	$ SPEND (MILLIONS)	MWh SAVED
GEORGIA POWER	2,536,685	$44.3	329,209
MISSISSIPPI POWER	188,000	$3.0	19,124
ENTERGY ARKANSAS	711,931	$51.0	255,823
ENTERGY NEW ORLEANS	202,634	$15.3	50,317
ENTERGY MISSISSIPPI	450,060	$9.1	43,067

NORTH CAROLINA

NEXT LEVEL LEADERSHIP



STILL THE REGION'S CLEAR EFFICIENCY LEADER

North Carolina has captured higher annual savings than any other Southeastern state, and also exceeds the national average. Many years of supportive policies, like performance incentives and efficiency provisions in the state's Renewable Energy Portfolio Standard, laid the foundation for this success. Complementing this policy is a culture of efficiency leadership at the state's largest utility, Duke Energy. Without Duke, state savings in 2018 would have been 0.22%.

ENERGY SAVED AS A % OF ANNUAL KWh SALES

UTILITY	2018
DUKE ENERGY CAROLINAS	1.04 %
DUKE ENERGY PROGRESS	0.86 %
STATE AVERAGE	0.77 %
REGIONAL AVERAGE	**0.31 %**
NC ELECTRIC COOPERATIVES	0.37 %
NC MUNICIPAL POWER	0.03 %

BIG PUSH FOR EMISSIONS REDUCTIONS

Changing political landscapes and a recently announced corporate commitment to emissions reductions have put the spotlight back on energy efficiency in North Carolina:

October 2018 - Executive Order 80 outlined Governor Cooper's intention to reduce greenhouse gas emissions 40% by 2025, meaning electric utilities will have to decarbonize.

August 2019 - The Utilities Commission ordered major changes in how Duke conducts resource planning. Duke will now have to: rework how efficiency is modeled, allow existing coal to compete against clean energy, and show how resource plans could achieve state and corporate emissions targets.

September 2019 - Duke announced plans to cut its emissions 50% by 2030 and reach net zero carbon by 2050 across all companies. Replacing fossil fuel generation represents a major opportunity for energy efficiency.

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

SOUTH CAROLINA

SECOND PLACE AND SECOND CHANCES

POLITICAL TURNOVER

Fallout from the failed VC Summer nuclear plant caused massive political upheaval in South Carolina, including significant turnover at the Public Service Commission. In 2019, unanimous passage of the Energy Freedom Act by the legislature focused state policymakers on clean energy. With a wide range of related issues coming before the Commission, it remains to be seen whether there will be a meaningful increase in energy efficiency investment.

THE DUKE EFFECT

Duke Energy has helped push efficiency savings in South Carolina to second place in the Southeastern region, though it is still weak by national standards. The influence of North Carolina policies on the company, combined with Duke's experience across six states, have resulted in savings that exceed current South Carolina requirements. If the Energy Freedom Act and South Carolina's new commissioners reinvigorate local efficiency leadership, that dynamic may begin to flow in two directions

SANTEE COOPER IS STILL AT A CROSSROADS

Low cost efficiency programs should be first on the state's "to do" following the costly VC Summer nuclear debacle. Unlike Dominion, Santee Cooper has yet to propose a solid energy efficiency plan and is now considering investments in new power plants and transmission infrastructure.

ENERGY SAVED AS % OF ANNUAL KWh SALES

UTILITY	2018
DUKE ENERGY CAROLINAS	1.10 %
DUKE ENERGY PROGRESS	0.88 %
STATE AVERAGE	0.46 %
SOUTHEAST AVERAGE	**0.31 %**
DOMINION	0.27 %
SANTEE COOPER	0.08%

CONCLUSION

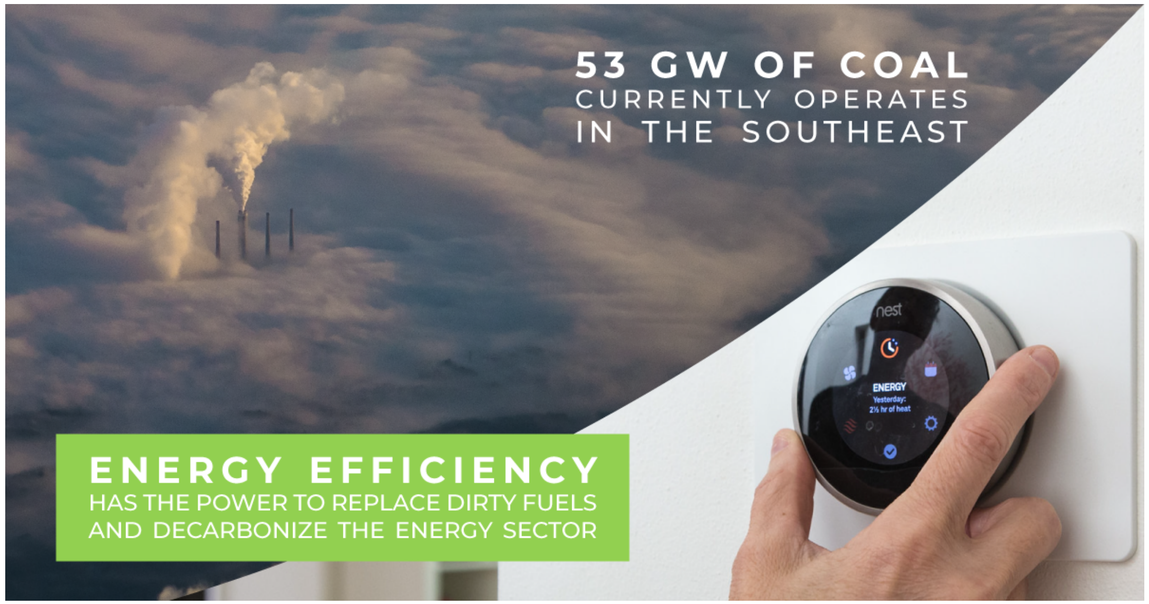
RETIREMENT PLANNING FOR AN AFFORDABLE CLEAN ENERGY FUTURE

MORE EFFICIENCY REDUCES THE NEED FOR GENERATION

The Southeast achieves far less efficiency savings than other regions of the country, less than half the national average. Energy efficiency offsets the need for generation, leading to fewer new power plants. The Southeast currently has 53 GW of coal capacity in operation. Energy efficiency can enable the retirement of polluting and expensive coal power plants while helping customers lower their bills. This is easier than ever with new technologies that allow customers to optimize their energy use to maximize carbon emission reductions.

NOT SO EXPENSIVE AFTER ALL

Utilities often point to cost as an argument against spending money on efficiency, while simultaneously building expensive new power plants that increase their own profits. The fact that the Southeast has among the highest energy bills in the country and the lowest energy efficiency performance points to a clear solution: Before spending customer dollars on more expensive power plants, utilities should be required to first invest in all cost-effective energy efficiency and energy optimization. To do otherwise is to pay too much.



EFFICIENCY IN EVERY DECISION

Eliminating energy waste can be the leading resource strategy in all aspects of electric utility operations, policy, and regulation including:

- Fully integrated resource planning
- Direct competition between energy efficiency and proposed power plants
- Programs to help all customers lower their bills

DATA SOURCES, METHODS & ASSUMPTIONS

The primary metric in this report is net energy savings as a percentage of prior-year retail sales. SACE relies on two sources for historical efficiency savings, the first is annual energy efficiency reports that utilities are required to file by state regulators. In most cases, regulatory reporting requirements for investor-owned utilities allow SACE to gather detailed performance and budget data on specific programs on an annual basis.

In the absence of adequately detailed annual reports, SACE obtains energy efficiency savings data from EIA Form 861. For example, nearly all of our data for municipal and co-op utilities come from EIA-861. EIA-861 instructions state that savings are reported at the customer meter and as of 2016 specify that, "transmission and distribution or reserve requirement savings should be excluded." However, EIA's reporting instructions have shifted over the years, and have often lacked clarity surrounding who is responsible for reporting (utility or nonutility demand-side management administrators). As a result, we have greater confidence in the consistency and reliability of more recent data, particularly with respect to costs.

For the comparison with other regions of the country, our Southeast regional energy savings calculation is matched with EIA's regional and national averages. Our regional energy savings calculation differs from EIA's due to different geography and the additional data we include.

For TVA and its local power companies only, we obtained detailed data on savings and budget for distributor utilities directly from TVA in response to a Freedom of Information Act request.

DSM/EE spending is inclusive of the total budget for each program approved or certified by a utility's respective regulator. Our review of data specific to programs may not reflect any sub-programs or add-ons. For example, income-qualified spending reflects standalone programs only.

Annual energy efficiency savings are generally viewed from the customer (at the meter) perspective. But to understand the impact on the utility's resources, the accumulated energy efficiency reduction to gross system demand is often viewed from the utility (at the generator) perspective. For MWh savings reported at the generator, an estimated average line loss of 7% is assumed.

Accumulated energy efficiency demand savings (MW) represents the maximum peak reduction to gross system demand. To capture the "maximum peak" and assign a nominal capacity to efficiency, SACE uses the summer demand reduction reported for programs and measures. Planning reserve margins for Southeastern utilities are historically highest in summer, and therefore best reflect how efficiency lowers peak demand in the months where reliability is at risk.

Due to the fact that some utilities report net savings reflecting technical adjustments to energy efficiency program impacts, while others do not, we apply a net to gross ratio of 80% where gross savings are reported.

Cover photos provided by the National Renewable Energy Laboratory.

APPENDIX A: SOUTHEAST UTILITY SYSTEMS

The geographic coverage of the demand side data encompasses Southeastern utilities outside of the PJM/MISO regions. The states of Alabama, Florida, Georgia, and South Carolina are fully covered. Relatively small portions of North Carolina and Tennessee are served by utilities that participate in PJM, and thus while statewide reports for these states are relatively comprehensive, they may not align exactly with other data sources. The states of Mississippi and Kentucky are only included insofar as they are part of TVA or the Southern Planning Area.

TENNESSEE VALLEY AUTHORITY

Consists of 154 distributor utilities

TN, KY, VA, AL, MS, GA, & NC

SOUTHERN PLANNING AREA

Gulf Power (FL) *

Mississippi Power

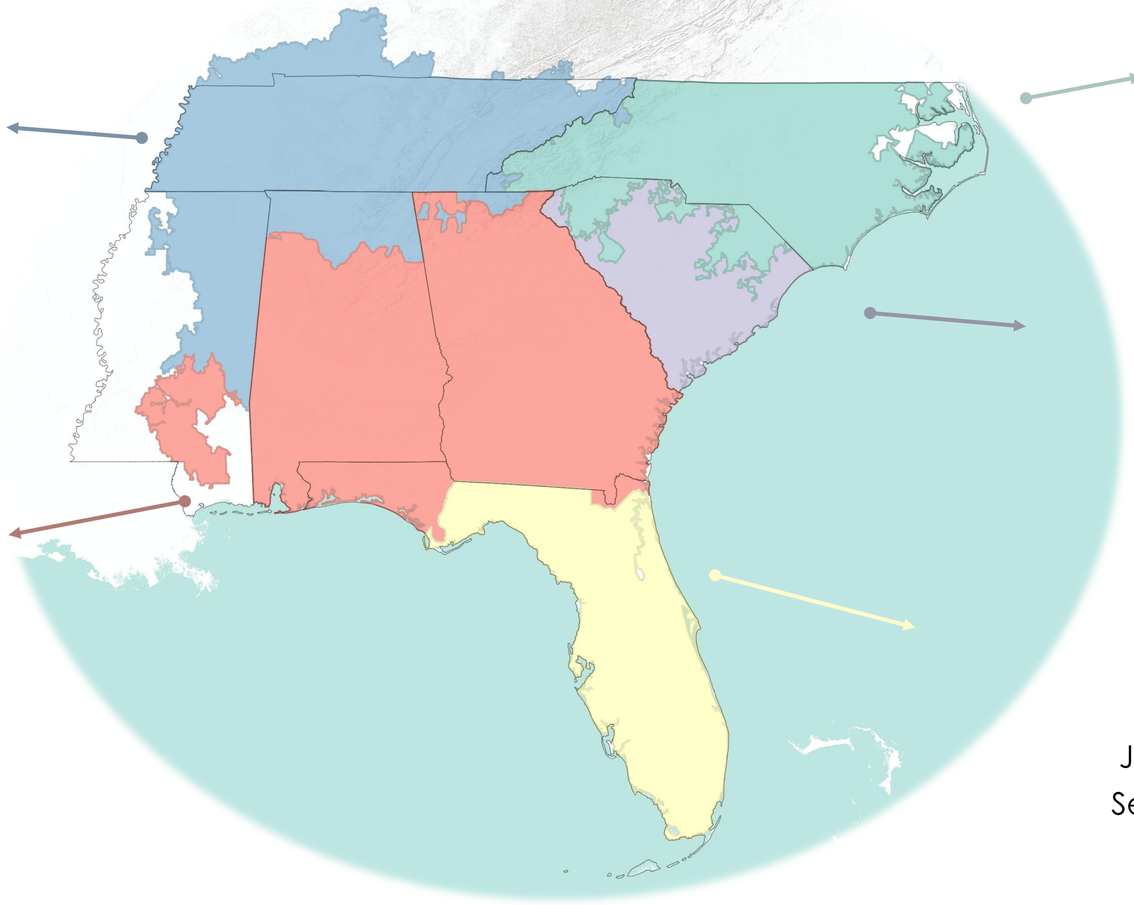
Alabama Power

Georgia Power

Oglethorpe Power (GA)

PowerSouth (AL/FL)

**Owned by NextEra but operating in the Southern Planning Area*



DUKE ENERGY PLANNING AREA

Duke Energy Carolinas

Duke Energy Progress

Municipal Utilities

Cooperative Utilities

SOUTH CAROLINA

Dominion South Carolina

Santee Cooper

FRCC

Duke Energy Florida

Tampa Electric

Florida Power & Light

Jacksonville Electric Authority

Seminole Electric Cooperative

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
All SE Utility Systems	**2,275,480**	**2,357,163**	**2,326,665**	**2,375,466**	**2,426,369**	**0.32 %**	**0.32 %**	**0.31 %**	**0.29 %**	**0.31 %**
Alabama Cooperatives	-	-	-	-	-	-	-	-	-	-
Black Warrior Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Tombigbee Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Alabama Municipals	-	-	-	-	-	-	-	-	-	-
City of Alexander City	-	-	-	-	-	-	-	-	-	-
City of Dothan	-	-	-	-	-	-	-	-	-	-
City of Opelika	-	-	-	-	-	-	-	-	-	-
Sylacauga Utilities Board	-	-	-	-	-	-	-	-	-	-
Troy Utilities Department	-	-	-	-	-	-	-	-	-	-
City of Tuskegee	-	-	-	-	-	-	-	-	-	-
Duke Energy	906,235	1,076,161	1,207,681	1,259,994	1,252,805	0.57 %	0.67 %	0.75 %	0.79 %	0.79 %
Duke Energy Progress	308,369	409,149	368,626	342,059	373,466	0.70 %	0.94 %	0.84 %	0.79 %	0.86 %
Duke Energy Carolinas	507,436	600,965	768,739	840,736	801,284	0.65 %	0.76 %	0.97 %	1.09 %	1.03 %
Duke Energy Florida	90,430	66,048	70,316	77,198	78,056	0.24 %	0.17 %	0.18 %	0.20 %	0.21 %
Florida Cooperatives	6,740	9,855	7,244	13,626	23,023	0.04 %	0.05 %	0.04 %	0.07 %	0.12 %
Central Florida Electric Cooperative	-	458	208	667	294	-	0.10 %	0.04 %	0.14 %	0.06 %
Clay Electric Cooperative	2,523	1,723	1,167	1,784	2,238	0.08 %	0.05 %	0.04 %	0.06 %	0.07 %
Florida Keys Electric Cooperative Association	-	-	-	-	-	-	-	-	-	-
Glades Electric Cooperative	-	46	46	122	259	-	0.01 %	0.01 %	0.04 %	0.08 %
Lee County Electric Cooperative	1,507	505	1,034	196	1,727	0.04 %	0.01 %	0.03 %	0.01 %	0.05 %
Peace River Electric Cooperative	-	21	22	31	445	-	-	-	-	0.06 %
Reedy Creek Improvement Dist	2,679	7,103	2,846	6,821	9,790	0.24 %	0.62 %	0.25 %	0.59 %	0.84 %
Sumter Electric Cooperative (FL)	-	-	-	-	706	-	-	-	-	0.02 %
Suwannee Valley Electric Cooperative	-	-	1,922	2,324	3,281	-	-	0.36 %	0.45 %	0.63 %
Talquin Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Tri-County Electric Cooperative (FL)	-	-	-	561	859	-	-	-	0.18 %	0.28 %
Withlacoochee River Electric Cooperative	30	-	-	1,120	3,424	0.00 %	-	-	0.03 %	0.09 %

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
Florida Municipals	61,618	47,121	50,263	77,529	108,286	0.18 %	0.14 %	0.14 %	0.23 %	0.32 %
City of Alachua (FL)	-	-	-	-	-	-	-	-	-	-
City of Bartow (FL)	-	-	-	-	-	-	-	-	-	-
City of Clewiston	-	-	-	-	-	-	-	-	-	-
Fort Pierce Utilities Authority	444	100	92	81	173	0.09 %	0.02 %	0.02 %	0.01 %	0.03 %
Gainesville Regional Utilities	886	469	365	469	698	0.05 %	0.03 %	0.02 %	0.03 %	0.04 %
City of Green Cove Springs	20	34	36	27	26	0.02 %	0.03 %	0.03 %	0.03 %	0.03 %
Havana Power & Light Company	-	-	-	-	-	-	-	-	-	-
City of Homestead (FL)	-	-	-	-	-	-	-	-	-	-
Beaches Energy Services	-	-	-	-	-	-	-	-	-	-
JEA	34,900	27,003	24,641	29,864	47,500	0.29 %	0.22 %	0.21 %	0.25 %	0.40 %
City of Key West (FL)	-	-	-	-	-	-	-	-	-	-
Kissimmee Utility Authority	2,143	1,476	842	655	1,071	0.16 %	0.10 %	0.06 %	0.04 %	0.07 %
City of Lake Worth (FL)	-	-	-	-	-	-	-	-	-	-
City of Lakeland (FL)	1,347	1,942	2,575	2,187	5,132	0.05 %	0.06 %	0.08 %	0.07 %	0.17 %
City of Leesburg (FL)	-	-	-	-	166	-	-	-	-	0.03 %
City of New Smyrna Beach	-	-	-	-	-	-	-	-	-	-
City of Ocala	-	-	-	-	-	-	-	-	-	-
Orlando Utilities Commission	15,034	10,936	17,151	39,697	48,028	0.24 %	0.17 %	0.26 %	0.60 %	0.73 %
City of Quincy (FL)	-	-	-	-	-	-	-	-	-	-
City of Starke (FL)	-	-	-	-	-	-	-	-	-	-
City of Tallahassee (FL)	6,843	5,161	4,561	4,549	5,486	0.26 %	0.19 %	0.17 %	0.17 %	0.21 %
City of Vero Beach (FL)	-	-	-	-	-	-	-	-	-	-
City of Wauchula	-	-	-	-	-	-	-	-	-	-
City of Winter Park	-	-	-	-	7	-	-	-	-	0.00 %
Florida Power & Light	202,032	139,147	59,373	90,309	81,512	0.19 %	0.13 %	0.05 %	0.08 %	0.08 %
Florida Public Utilities Company	1,672	1,144	804	679	851	0.26 %	0.18 %	0.12 %	0.11 %	0.14 %

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
Georgia Municipals	10	32	30	70	85	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
City of Adel (GA)	-	-	-	-	-	-	-	-	-	-
Albany Water Gas & Light Commission	-	-	-	-	-	-	-	-	-	-
City of Acworth (GA)	-	-	-	-	-	-	-	-	-	-
City of Buford	-	-	-	-	-	-	-	-	-	-
City of Cairo (GA)	-	-	-	-	-	-	-	-	-	-
City of Calhoun (GA)	-	-	-	-	-	-	-	-	-	-
City of Camilla	-	-	-	-	-	-	-	-	-	-
City of Cartersville (GA)	-	-	-	-	-	-	-	-	-	-
City of College Park (GA)	-	-	-	-	-	-	-	-	-	-
City of Covington (GA)	-	-	-	-	-	-	-	-	-	-
Crisp County Power Commission	-	-	-	-	-	-	-	-	-	-
Dalton Utilities	-	-	-	-	-	-	-	-	-	-
City of Douglas	-	-	-	-	-	-	-	-	-	-
City of East Point (GA)	-	-	-	-	-	-	-	-	-	-
City of Elberton	-	-	-	-	-	-	-	-	-	-
Fitzgerald Water Light & Bond Commission	-	-	-	-	-	-	-	-	-	-
Fort Valley Utility Commission	-	-	-	-	-	-	-	-	-	-
City of Griffin (GA)	-	-	-	-	-	-	-	-	-	-
City of La Grange (GA)	-	-	-	-	-	-	-	-	-	-
City of Lawrenceville (GA)	-	-	-	-	-	-	-	-	-	-
City of Marietta (GA)	10	32	30	70	85	0.00 %	0.00 %	0.00 %	0.01 %	0.01 %
City of Monroe (GA)	-	-	-	-	-	-	-	-	-	-
City of Moultrie (GA)	-	-	-	-	-	-	-	-	-	-
Newnan Water, Sewer & Light Commission	-	-	-	-	-	-	-	-	-	-
City of Norcross (GA)	-	-	-	-	-	-	-	-	-	-
City of Sylvania (GA)	-	-	-	-	-	-	-	-	-	-
City of Thomaston (GA)	-	-	-	-	-	-	-	-	-	-
City of Thomasville (GA)	-	-	-	-	-	-	-	-	-	-
City of Washington (GA)	-	-	-	-	-	-	-	-	-	-

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
Mississippi Cooperatives	358	499	872	855	1,253	0.01%	0.02%	0.03%	0.03%	0.04 %
Pearl River Valley Electric Power Association	-	-	450	440	726	0.00%	0.00%	0.04%	0.04%	0.07 %
Southern Pine Electric Power Association	358	499	422	415	527	0.02%	0.03%	0.02%	0.02%	0.03 %
North Carolina Cooperatives	31,532	41,796	64,399	37,758	68,099	0.18 %	0.23 %	0.36 %	0.21 %	0.38 %
Albemarle Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Blue Ridge Electric Member Corp (NC)	-	-	41	74	92	-	-	-	0.01 %	0.01 %
Cape Hatteras Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Carteret-Craven Electric Member Corp	62	225	338	353	195	0.01 %	0.04 %	0.06 %	0.06 %	0.03 %
Central Electric Membership Corp (NC)	-	-	-	-	-	-	-	-	-	-
Edgecombe-Martin County Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Four County Electric Member Corp	5,152	9,226	13,477	13,508	25,856	0.57 %	1.02 %	1.50 %	1.51 %	2.90 %
French Broad Electric Member Corp	2,909	4,617	4,443	1,045	8,391	0.57 %	0.93 %	0.89 %	0.21 %	1.67 %
Halifax Electric Member Corp	451	723	347	382	1,610	0.28 %	0.45 %	0.23 %	0.25 %	1.06 %
Haywood Electric Member Corp	54	64	4,103	-	-	0.02 %	0.02 %	1.45 %	-	-
Jones-Onslow Electric Member Group	-	-	-	-	-	-	-	-	-	-
Lumbee River Electric Member Corp	2,194	374	1,186	912	5,750	0.18 %	0.03 %	0.09 %	0.07 %	0.46 %
Pee Dee Electric Member Corp	48	48	22	14	20	0.01 %	0.01 %	0.01 %	-	0.01 %
Pitt & Greene Electric Member Corp	146	90	74	287	123	0.07 %	0.05 %	0.04 %	0.15 %	0.07 %
Piedmont Electric Member Corp	1,620	1,479	1,530	2,054	2,624	0.34 %	0.31 %	0.32 %	0.44 %	0.56 %
Randolph Electric Member Corp	8	75	558	86	147	-	0.01 %	0.11 %	0.02 %	0.03 %
Roanoke Electric Member Corp	1,238	18	182	388	668	0.43 %	0.01 %	0.06 %	0.15 %	0.25 %
Rutherford Electric Member Corp	-	-	-	-	-	-	-	-	-	-
South River Electric Member Corp	1,400	560	239	504	57	0.17 %	0.07 %	0.03 %	0.06 %	0.01 %
Surry-Yadkin Electric Member Corp	-	-	6,982	8,687	11,842	-	-	1.90 %	2.46 %	3.35 %
Tri County Electric Member Corp (NC)	-	-	-	-	-	-	-	-	-	-
Tideland Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Union Electric Membership Corp (NC)	494	882	2,322	4,391	4,866	0.04 %	0.07 %	0.17 %	0.34 %	0.38 %
Wake Electric Membership Corp	2,416	3,482	5,174	4,792	5,696	0.34 %	0.48 %	0.71 %	0.64 %	0.76 %
EnergyUnited Electric Member Corp	13,340	19,450	22,947	24	161	0.55 %	0.79 %	0.89 %	-	0.01 %
Brunswick Electric Member Corp	-	485	435	254	-	-	0.04 %	0.03 %	0.02 %	-

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
North Carolina Municipals	4,141	3,990	3,179	3,305	4,821	0.03 %	0.03 %	0.02 %	0.02 %	0.03%
City of Albemarle (NC)	-	-	-	-	-	-	-	-	-	-
Town of Apex (NC)	-	-	-	-	-	-	-	-	-	-
Town of Ayden (NC)	-	-	-	-	-	-	-	-	-	-
Town of Clayton	-	-	-	-	-	-	-	-	-	-
City of Concord (NC)	-	-	-	-	-	-	-	-	-	-
City of Elizabeth City (NC)	-	-	-	-	-	-	-	-	-	-
City of Fayetteville Public Works Commission	-	-	-	-	-	-	-	-	-	-
Town of Forest City	-	-	-	-	-	-	-	-	-	-
Town of Edenton (NC)	-	-	-	-	-	-	-	-	-	-
City of Gastonia (NC)	-	-	-	-	-	-	-	-	-	-
Greenville Utilities Commission	-	-	-	-	-	-	-	-	-	-
Town of High Point	-	-	-	-	-	-	-	-	-	-
Town of Huntersville (NC)	-	-	-	-	-	-	-	-	-	-
City of Kings Mountain (NC)	-	-	-	-	-	-	-	-	-	-
City of Kinston (NC)	-	-	-	-	-	-	-	-	-	-
City of Laurinburg (NC)	-	-	-	-	-	-	-	-	-	-
City of Lexington (NC)	-	-	-	-	-	-	-	-	-	-
City of Lumberton (NC)	-	-	-	-	-	-	-	-	-	-
City of Monroe (NC)	-	-	-	-	-	-	-	-	-	-
City of Morganton (NC)	-	-	-	-	-	-	-	-	-	-
City of New Bern (NC)	-	-	-	-	-	-	-	-	-	-
New River Light & Power	-	-	-	-	-	-	-	-	-	-
City of Newton (NC)	-	-	-	-	-	-	-	-	-	-
North Carolina Municipal Power Agency	3,202	3,196	2,625	2,421	3,899	0.05 %	0.05 %	0.04 %	0.04 %	0.06 %
North Carolina Eastern Municipal Power	938	794	554	884	922	0.02 %	0.02 %	0.00 %	0.02 %	0.02 %
Town of Pineville (NC)	-	-	-	-	-	-	-	-	-	-
City of Rocky Mount (NC)	-	-	-	-	-	-	-	-	-	-

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
North Carolina Municipals (continued)										
City of Shelby (NC)	-	-	-	-	-	-	-	-	-	-
Town of Smithfield (NC)	-	-	-	-	-	-	-	-	-	-
City of Statesville (NC)	-	-	-	-	-	-	-	-	-	-
Town of Tarboro (NC)	-	-	-	-	-	-	-	-	-	-
Town of Wake Forest (NC)	-	-	-	-	-	-	-	-	-	-
City of Washington (NC)	-	-	-	-	-	-	-	-	-	-
City of Wilson	-	-	-	-	-	-	-	-	-	-
Oglethorpe Power	24,756	28,222	24,925	31,797	38,094	0.07 %	0.08 %	0.07 %	0.09 %	0.10 %
Altamaha Electric Member Corp	-	-	-	186	-	-	-	-	0.05 %	-
Amicalola Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Canoochee Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Carroll Electric Member Corp (GA)	-	-	-	-	-	-	-	-	-	-
Central Georgia Electric Member Corp	211	71	104	164	200	0.02 %	0.01 %	0.01 %	0.01 %	0.02 %
Coastal Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Cobb Electric Membership Corp	-	-	-	-	-	-	-	-	-	-
Colquitt Electric Membership Corp	-	-	-	-	-	-	-	-	-	-
County Electric Member Corp (GA)	72	28	45	73	128	0.02 %	0.01 %	0.01 %	0.02 %	0.04 %
Coweta-Fayette Electric Member Corp	354	540	664	1,283	1,760	0.02 %	0.04 %	0.04 %	0.08 %	0.12 %
Diverse Power Incorporated	-	-	-	-	-	-	-	-	-	-
Excelsior Electric Member Corp	-	6	46	48	13	-	0.00 %	0.01 %	0.01 %	0.00 %
Flint Electric Membership Corp	-	-	-	-	-	-	-	-	-	-
Grady Electric Membership Corp	-	-	-	-	-	-	-	-	-	-
GreyStone Power Corporation	-	-	-	-	-	-	-	-	-	-
Habersham Electric Membership Corp	-	-	-	-	-	-	-	-	-	-
Hart Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Irwin Electric Membership Corp	-	-	-	-	-	-	-	-	-	-
Jackson Electric Member Corp (GA)	4,771	7,030	6,655	9,628	11,502	0.09 %	0.13 %	0.12 %	0.19 %	0.22 %
Jefferson Electric Member Corp	1,770	2,267	-	2,756	3,085	0.31 %	0.40 %	-	0.51 %	0.57 %

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
Oglethorpe Power (continued)										
Little Ocmulgee Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Middle Georgia Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Mitchell Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Ocmulgee Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Oconee Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Okefenoke Rural Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Planters Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Rayle Electric Membership Corp	-	-	-	-	-	-	-	-	-	-
Satilla Rural Electric Member Corporation	47	48	30	26	44	0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
Sawnee Electric Membership Corporation	1,025	1,059	770	1,112	922	0.03 %	0.03 %	0.02 %	0.03 %	0.03 %
Slash Pine Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Snapping Shoals Electric Member Corp	16,505	17,173	16,611	16,520	20,440	0.86 %	0.88 %	0.84 %	0.88 %	1.09 %
Southern Rivers Energy	-	-	-	-	-	-	-	-	-	-
Sumter Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Three Notch Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Upson Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Walton Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Washington Electric Member Corp	-	-	-	-	-	-	-	-	-	-

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
PowerSouth	5,622	317	122	404	395	0.07 %	0.00 %	0.00 %	0.01 %	0.01 %
City of Andalusia	-	-	-	-	-	-	-	-	-	-
Baldwin County Electric Member Corp	-	-	-	-	-	-	-	-	-	-
Central Alabama Electric Cooperative	3	4	-	-	-	0.00 %	0.00 %	-	-	-
Choctawhatche Electric Cooperative	-	-	-	65	65	-	-	-	0.01 %	0.01 %
Coosa Valley Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Covington Electric Cooperative	175	199	-	-	-	0.04 %	0.05 %	-	-	-
Dixie Electric Cooperative	23	26	18	136	18	0.00 %	0.01 %	0.00 %	0.03 %	0.00 %
Escambia River Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Gulf Coast Electric Cooperative	-	-	-	149	150	-	-	-	0.05 %	0.05 %
Pea River Electric Cooperative	-	-	-	-	-	-	-	-	-	-
South Alabama Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Southern Pine Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Tallapoosa River Electric Cooperative	-	-	-	-	-	-	-	-	-	-
West Florida Electric Cooperative Association	-	-	-	-	-	-	-	-	-	-
Wiregrass Electric Cooperative	-	88	104	55	162	-	0.02 %	0.03 %	0.02 %	0.05 %
Pioneer Electric Cooperative (AL)	-	-	-	-	-	-	-	-	-	-
Clarke-Washington Electric Member Corp	-	-	-	-	-	-	-	-	-	-

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
Santee Cooper	19,232	21,747	23,613	27,700	20,481	0.07 %	0.08 %	0.10 %	0.11 %	0.08 %
Aiken Electric Cooperative	50	-	-	-	6	0.01 %	-	-	-	0.00 %
Bamberg Board of Public Works	-	-	-	-	-	-	-	-	-	-
Berkeley Electric Cooperative	278	214	204	221	711	0.01 %	0.01 %	0.01 %	0.01 %	0.03 %
Black River Electric Cooperative (SC)	61	-	-	-	-	0.01 %	-	-	-	-
Blue Ridge Electric Cooperative (SC)	-	-	-	-	-	-	-	-	-	-
Broad River Electric Cooperative	-	-	-	-	-	-	-	-	-	-
City of Bennettsville (SC)	-	-	-	-	-	-	-	-	-	-
City of Georgetown (SC)	-	-	-	-	-	-	-	-	-	-
Coastal Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Edisto Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Fairfield Electric Cooperative	18	-	-	-	-	0.00 %	-	-	-	-
Horry Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Laurens Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Little River Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Lynches River Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Marlboro Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Mid-Carolina Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Newberry Electric Cooperative	-	-	-	-	-	-	-	-	-	-
Palmetto Electric Cooperative	11	4	6	1	-	0.00 %	0.00 %	0.00 %	0.00 %	-
Pee Dee Electric Cooperative	13	17	-	-	-	0.00 %	0.00 %	-	-	-
Santee Electric Cooperative					132					0.01 %
South Carolina Public Service Authority	18,414	21,175	23,135	27,112	19,169	0.16 %	0.19 %	0.28 %	0.33 %	0.23 %
Tri-County Electric Cooperative (SC)	-	-	-	-	-	-	-	-	-	-
York Electric Cooperative	50	-	-	-	463	0.01 %	-	-	-	0.05 %

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
SCE&G	96,392	81,293	53,613	56,900	60,260	0.43 %	0.37 %	0.24 %	0.26 %	0.27 %
South Carolina Municipals	-	-	-	-	-	-	-	-	-	-
City of Camden	-	-	-	-	-	-	-	-	-	-
Clinton Combined Utility System	-	-	-	-	-	-	-	-	-	-
Easley Combined Utility System	-	-	-	-	-	-	-	-	-	-
City of Gaffney (SC)	-	-	-	-	-	-	-	-	-	-
Greenwood Commission of Public Works	-	-	-	-	-	-	-	-	-	-
Greer Commission of Public Works	-	-	-	-	-	-	-	-	-	-
Lockhart Power	-	-	-	-	-	-	-	-	-	-
City of Newberry (SC)	-	-	-	-	-	-	-	-	-	-
City of Orangeburg (SC)	-	-	-	-	-	-	-	-	-	-
City of Rock Hill (SC)	-	-	-	-	-	-	-	-	-	-
City of Seneca (SC)	-	-	-	-	-	-	-	-	-	-
City of Union (SC)	-	-	-	-	-	-	-	-	-	-
City of Laurens (SC)	-	-	-	-	-	-	-	-	-	-
Southern Company	386,647	450,570	477,594	409,524	433,712	0.24 %	0.28 %	0.30 %	0.26 %	0.28 %
Alabama Power Co	12,989	10,206	9,515	9,289	15,393	0.02 %	0.02 %	0.02 %	0.02 %	0.03 %
Georgia Power Co	281,240	378,550	443,293	375,376	394,209	0.34 %	0.45 %	0.52 %	0.46 %	0.48 %
Gulf Power Co	87,468	44,007	6,955	6,527	4,986	0.79 %	0.40 %	0.06 %	0.06 %	0.05 %
Mississippi Power Co	4,951	17,808	17,831	18,333	19,124	0.05 %	0.18 %	0.18 %	0.19 %	0.20 %
Tampa Electric	52,380	97,165	33,132	46,174	77,292	0.28 %	0.51 %	0.17 %	0.24 %	0.40 %

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
TVA	476,114	358,104	319,821	318,842	255,400	0.31 %	0.24 %	0.21 %	0.21 %	0.17 %
4-County Electric Power Association	1,621	1,827	1,688	1,115	2,829	0.16%	0.18%	0.17%	0.10%	0.27%
Aberdeen Electric Department	13	114	769	369	22	0.01%	0.06%	0.39%	0.18%	0.01%
Albertville Municipal Utilities Board	1,852	436	659	402	68	0.34%	0.08%	0.12%	0.07%	0.01%
Alcoa Electric Department, City of	972	817	755	428	269	0.16%	0.13%	0.12%	0.07%	0.04%
Alcorn County Electric Power Association	4,284	8,272	4,102	3,656	1,911	0.68%	1.31%	0.67%	0.56%	0.30%
Amory Water & Electric	757	91	229	84	903	0.55%	0.06%	0.16%	0.06%	0.62%
Appalachian Electric Cooperative	2,999	2,503	3,151	1,380	1,279	0.33%	0.26%	0.34%	0.14%	0.13%
Arab Electric Cooperative, Inc.	433	833	1,390	1,117	216	0.14%	0.26%	0.45%	0.34%	0.07%
Athens Electric Department, City of (AL)	1,929	1,755	2,106	2,892	4,413	0.19%	0.16%	0.20%	0.25%	0.39%
Athens Utilities Board (TN)	4,218	733	514	651	1,194	0.71%	0.12%	0.08%	0.10%	0.19%
Benton County Electric System (TN)	657	175	164	239	32	0.32%	0.08%	0.08%	0.11%	0.02%
Benton Electric System (KY)	13	20	22	2	105	0.02%	0.03%	0.03%	0.00%	0.15%
Bessemer Electric Service	425	1,626	142	165	129	0.14%	0.50%	0.04%	0.05%	0.04%
Blue Ridge Mountain EMC	1,191	1,119	1,545	1,221	511	0.20%	0.17%	0.24%	0.18%	0.08%
Bolivar Energy Authority	1,033	146	272	15	18	0.43%	0.06%	0.12%	0.01%	0.01%
Bowling Green Municipal Utilities	812	1,627	1,834	1,096	967	0.09%	0.18%	0.21%	0.12%	0.11%
Bristol Tennessee Essential Services	2,530	1,131	1,137	738	1,234	0.28%	0.13%	0.13%	0.08%	0.13%
Bristol Virginia Utilities	511	841	1,066	92	212	0.10%	0.16%	0.20%	0.02%	0.04%
Brownsville Utility Department	746	1,752	492	135	1,730	0.35%	0.81%	0.23%	0.06%	0.78%
Caney Fork Electric Cooperative, Inc.	3,043	1,193	2,546	1,007	587	0.50%	0.19%	0.41%	0.15%	0.09%
Carroll County Electric Department	589	229	236	336	442	0.14%	0.05%	0.06%	0.08%	0.10%
Central Electric Power Association	2,481	8,043	2,304	2,811	468	0.28%	0.90%	0.26%	0.30%	0.05%
Cherokee Electric Cooperative	166	1,272	118	64	69	0.03%	0.25%	0.02%	0.01%	0.01%
Chickamauga Electric System	11	2	3	10	1	0.04%	0.01%	0.01%	0.04%	0.00%
Chickasaw Electric Cooperative	387	971	465	482	94	0.08%	0.19%	0.09%	0.09%	0.02%
Clarksville (CDE Lightband)	1,650	1,224	2,917	3,326	1,379	0.12%	0.08%	0.20%	0.21%	0.09%
Cleveland Utilities	940	1,422	1,296	4,164	2,576	0.09%	0.13%	0.12%	0.37%	0.23%
Clinton Utilities Board	3,874	2,780	1,748	963	138	0.50%	0.35%	0.22%	0.12%	0.02%
Columbia Power & Water Systems	2,344	1,843	2,269	2,332	1,185	0.39%	0.30%	0.37%	0.36%	0.18%

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
TVA (continued)										
Cookeville Electric Department	1,602	1,721	797	881	3,150	0.29%	0.31%	0.14%	0.15%	0.55%
Courtland Electric Department	75	29	139	1	9	0.34%	0.13%	0.71%	0.01%	0.04%
Covington Electric System	90	5	299	565	191	0.04%	0.00%	0.12%	0.22%	0.07%
Cullman Electric Cooperative (AL Coop)	865	1,899	1,539	738	623	0.09%	0.18%	0.15%	0.07%	0.06%
Cullman Power Board (AL Muni)	882	467	381	320	1,060	0.32%	0.17%	0.14%	0.11%	0.36%
Cumberland Electric Membership Corporation	2,928	5,906	2,795	3,128	4,280	0.12%	0.23%	0.11%	0.12%	0.16%
Dayton Electric Department, City of	409	277	352	170	832	0.14%	0.09%	0.11%	0.05%	0.26%
Decatur Utilities	1,319	858	1,088	1,164	2,125	0.11%	0.07%	0.09%	0.09%	0.17%
Dickson Electric Department	3,777	488	1,485	2,701	1,340	0.46%	0.06%	0.18%	0.31%	0.16%
Duck River Electric Membership Corporation	5,635	1,815	2,215	2,949	1,226	0.32%	0.10%	0.12%	0.15%	0.06%
Dyersburg Electric System	890	1,946	403	446	2,419	0.22%	0.45%	0.10%	0.10%	0.55%
East Mississippi Electric Power Association	1,284	195	285	11	4	0.52%	0.08%	0.12%	0.00%	0.00%
Electric Power Board of Chattanooga (EPB)	25,556	10,670	10,870	17,777	7,858	0.45%	0.19%	0.19%	0.30%	0.13%
Elizabethton Electric Department, City of	-	-	928	-	102	0.00%	0.00%	0.18%	0.00%	0.02%
Erwin Utilities	972	596	295	94	63	0.43%	0.26%	0.13%	0.04%	0.03%
Etowah Utilities	126	4,840	471	21	65	0.05%	1.78%	0.17%	0.01%	0.02%
Fayetteville Public Utilities	1,830	236	1,597	527	1,106	0.43%	0.05%	0.36%	0.11%	0.24%
Florence Electricity Department, City of	2,920	1,538	2,438	2,966	3,786	0.24%	0.12%	0.20%	0.23%	0.30%
Forked Deer Electric Cooperative	157	158	199	89	78	0.09%	0.09%	0.12%	0.05%	0.05%
Fort Loudoun Electric Cooperative	2,325	1,002	1,104	544	284	0.39%	0.16%	0.18%	0.08%	0.04%
Fort Payne Improvement Authority	605	6,167	417	293	719	0.20%	1.93%	0.13%	0.09%	0.22%
Franklin Electric Cooperative (AL)	3,455	540	592	180	120	1.84%	0.26%	0.25%	0.07%	0.05%
Franklin Electric Plant Board (KY)	262	82	108	34	19	0.14%	0.04%	0.06%	0.02%	0.01%
Fulton Electric System	3	8	666	621	(0)	0.00%	0.01%	1.21%	1.07%	0.00%
Gallatin Department of Electricity	3,323	615	1,295	393	187	0.43%	0.08%	0.16%	0.05%	0.02%
Gibson Electric Membership Corporation	1,469	1,156	833	389	579	0.18%	0.14%	0.10%	0.04%	0.07%
Glasgow Electric Plant Board	1,082	184	1,639	29	402	0.36%	0.06%	0.56%	0.01%	0.13%
Greeneville Light & Power System	7,295	4,727	1,676	2,125	901	0.67%	0.42%	0.15%	0.18%	0.08%
Guntersville Electric Board	1,850	103	275	163	134	0.81%	0.04%	0.12%	0.07%	0.06%
Harriman Utility Board	360	327	287	108	515	0.17%	0.15%	0.13%	0.05%	0.23%

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
TVA (continued)										
Hartselle Utilities	1,362	276	770	150	103	0.91%	0.19%	0.52%	0.10%	0.07%
Hickman Electric Plant Board	6	127	333	-	-	0.03%	0.66%	1.79%	0.00%	0.00%
Hickman-Fulton Co. Rural Electric Cooperative Corp.	716	117	1	-	1	0.90%	0.15%	0.00%	0.00%	0.00%
Holly Springs Electric Department	1,211	480	477	55	532	0.53%	0.20%	0.21%	0.02%	0.22%
Holston Electric Cooperative	1,259	1,394	1,682	105	289	0.16%	0.17%	0.21%	0.01%	0.03%
Hopkinsville Electric System	1,453	185	285	90	89	0.38%	0.05%	0.08%	0.02%	0.02%
Humboldt Utilities	320	89	142	897	224	0.21%	0.06%	0.10%	0.57%	0.14%
Huntsville Utilities	8,533	7,678	10,583	9,732	8,434	0.17%	0.15%	0.20%	0.18%	0.16%
Jackson Energy Authority	6,432	1,296	2,418	3,186	1,136	0.38%	0.08%	0.14%	0.18%	0.06%
Jellico Electric and Water Systems	367	19	87	49	(0)	0.50%	0.02%	0.12%	0.06%	0.00%
Joe Wheeler Electric Membership Corporation	6,704	2,482	4,826	1,608	1,755	0.43%	0.15%	0.29%	0.09%	0.10%
Johnson City Power Board	2,897	3,804	3,201	5,569	1,952	0.15%	0.20%	0.17%	0.28%	0.10%
Knoxville Utilities Board (KUB)	23,201	15,303	11,245	11,812	4,707	0.43%	0.28%	0.21%	0.20%	0.08%
LaFollette Utilities Board	2,143	358	720	784	36	0.54%	0.09%	0.18%	0.19%	0.01%
Lawrenceburg Utility Systems	413	946	649	374	68	0.09%	0.20%	0.14%	0.08%	0.01%
Lenoir City Utilities Board	4,007	4,175	3,607	3,178	3,564	0.26%	0.26%	0.22%	0.19%	0.21%
Lewisburg Electric System	308	1,146	361	206	800	0.10%	0.34%	0.11%	0.06%	0.23%
Lexington Electric System	4,083	431	542	72	93	0.92%	0.10%	0.12%	0.02%	0.02%
Loudon Utilities	646	619	578	2,512	1,252	0.12%	0.11%	0.10%	0.42%	0.21%
Louisville Utilities	35	18	193	2	1	0.04%	0.02%	0.22%	0.00%	0.00%
Macon Electric Department, City of	-	-	4	-	-	0.00%	0.00%	0.01%	0.00%	0.00%
Marshall-DeKalb Electric Cooperative	711	528	2,738	1,478	573	0.15%	0.12%	0.61%	0.31%	0.12%
Maryville Electric Department, City of	-	-	815	-	3,797	0.00%	0.00%	0.11%	0.00%	0.47%
Mayfield Electric & Water System	385	670	448	247	847	0.27%	0.47%	0.31%	0.16%	0.56%
McMinnville Electric System	164	1,991	492	1,285	491	0.08%	0.95%	0.24%	0.60%	0.23%
Memphis Light, Gas & Water Division	47,651	33,847	28,686	18,450	12,227	0.34%	0.25%	0.21%	0.13%	0.08%
Meriwether Lewis Electric Cooperative	1,269	1,161	2,376	1,246	425	0.17%	0.11%	0.21%	0.10%	0.04%
Middle Tennessee EMC (MTEMC)	31,666	6,454	15,073	10,200	8,264	0.59%	0.11%	0.26%	0.17%	0.14%
Milan Department of Public Utilities	185	123	149	2,836	932	0.09%	0.06%	0.08%	1.41%	0.46%
Monroe County Electric Power Association	179	224	442	140	463	0.09%	0.11%	0.21%	0.06%	0.21%

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	**2014**	**2015**	**2016**	**2017**	**2018**	**2014**	**2015**	**2016**	**2017**	**2018**
TVA (continued)										
Morristown Utilities Systems	861	846	930	1,365	1,518	0.10%	0.09%	0.10%	0.14%	0.16%
Mount Pleasant Power System	752	17	358	56	11	0.66%	0.02%	0.32%	0.05%	0.01%
Mountain Electric Cooperative, Inc.	4,941	507	1,018	163	230	0.84%	0.08%	0.17%	0.03%	0.04%
Murfreesboro Electric Department	3,160	1,508	10,435	7,407	3,296	0.19%	0.09%	0.61%	0.41%	0.18%
Murphy Power Board	1	6	76	76	16	0.00%	0.00%	0.05%	0.05%	0.01%
Murray Electric System	466	226	300	315	348	0.16%	0.07%	0.10%	0.10%	0.11%
Muscle Shoals Electric Board	2,237	2,362	949	466	239	0.76%	0.76%	0.31%	0.15%	0.08%
Nashville Electric Service (NES)	19,030	24,030	18,518	16,997	17,126	0.16%	0.20%	0.16%	0.14%	0.14%
Natchez Trace Electric Power Association	911	327	417	230	474	0.29%	0.10%	0.13%	0.07%	0.14%
New Albany Light, Gas & Water	1,143	288	810	2,042	19	0.35%	0.09%	0.25%	0.60%	0.01%
Newbern Electric Water & Gas	13	28	148	27	5	0.01%	0.02%	0.12%	0.02%	0.00%
Newport Utilities	2,971	789	852	1,226	181	0.55%	0.14%	0.15%	0.21%	0.03%
North Alabama Electric Cooperative	475	427	909	834	122	0.15%	0.13%	0.29%	0.25%	0.04%
North East Mississippi Electric Power Association	301	1,075	353	1,508	1,100	0.05%	0.18%	0.06%	0.23%	0.17%
North Georgia Electric Membership Corporation	2,555	5,733	3,499	4,133	1,480	0.11%	0.23%	0.14%	0.16%	0.06%
Northcentral Mississippi Electric Power Association	2,103	1,065	523	2,184	1,480	0.22%	0.11%	0.05%	0.21%	0.15%
Oak Ridge Electric Department	674	773	544	479	1,554	0.14%	0.15%	0.11%	0.09%	0.29%
Okolona Electric Department, City of	92	101	296	1,972	17	0.10%	0.11%	0.32%	2.05%	0.02%
Oxford Electric Department, City of	-	-	51	-	-	0.00%	0.00%	0.02%	0.00%	0.00%
Paris Board of Public Utilities	924	1,004	895	317	792	0.20%	0.22%	0.19%	0.06%	0.16%
Pennyrile Rural Electric Cooperative Corporation	4,729	1,878	1,683	3,368	1,214	0.40%	0.15%	0.14%	0.27%	0.10%
Philadelphia Utilities	6	13	0	711	661	0.00%	0.01%	0.00%	0.55%	0.51%
Pickwick Electric Cooperative	891	565	1,489	293	552	0.24%	0.15%	0.40%	0.07%	0.14%
Plateau Electric Cooperative	1,559	349	444	245	189	0.52%	0.12%	0.15%	0.08%	0.06%
Pontotoc Electric Power Association	497	381	283	592	121	0.12%	0.09%	0.07%	0.13%	0.03%
Powell Valley Electric Cooperative	927	745	1,996	175	764	0.17%	0.13%	0.36%	0.03%	0.13%
Prentiss County Electric Power Association	1,371	1,928	1,454	1,747	1,100	0.40%	0.55%	0.42%	0.47%	0.30%
Pulaski (PES Energize)	1,328	2,480	316	304	2,413	0.31%	0.55%	0.07%	0.06%	0.51%
Ripley Power and Light	1,892	38	387	157	117	0.97%	0.02%	0.20%	0.08%	0.06%
Rockwood Electric Utility	971	347	731	697	381	0.29%	0.11%	0.23%	0.21%	0.12%
Russellville Electric Board (AL)	226	252	230	168	34	0.17%	0.19%	0.17%	0.12%	0.02%
Russellville Electric Plant Board (KY)	1,360	65	222	46	188	1.04%	0.05%	0.17%	0.03%	0.13%

APPENDIX B: SOUTHEAST UTILITY RANKING

	Annual Energy Savings (MWh)					Energy Efficiency Savings % of Prior-Year Retail Sales				
UTILITY	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
TVA (continued)										
Sand Mountain Electric Cooperative	1,517	2,747	1,001	944	1,533	0.23%	0.41%	0.16%	0.14%	0.23%
Scottsboro Electric Power Board	876	1,734	470	366	105	0.28%	0.54%	0.15%	0.11%	0.03%
Sequachee Valley Electric Cooperative	1,981	1,706	1,719	1,316	1,070	0.26%	0.21%	0.21%	0.16%	0.13%
Sevier County Electric System	2,240	1,471	1,912	2,553	561	0.16%	0.10%	0.13%	0.16%	0.04%
Sheffield Utilities	1,742	1,910	473	267	1,385	0.25%	0.27%	0.06%	0.03%	0.18%
Shelbyville Power System	155	1,156	723	1,084	927	0.04%	0.30%	0.19%	0.27%	0.23%
Smithville Electric System	222	590	78	541	886	0.19%	0.48%	0.06%	0.41%	0.68%
Southwest Tennessee EMC	1,321	1,408	1,193	307	233	0.14%	0.15%	0.13%	0.03%	0.02%
Sparta Electric & Public Works	128	72	112	313	11	0.11%	0.06%	0.09%	0.24%	0.01%
Springfield Department of Electricity	164	328	940	1,207	541	0.05%	0.10%	0.29%	0.35%	0.16%
Starkville Electric System	9,188	32	462	258	899	2.25%	0.01%	0.11%	0.06%	0.20%
Sweetwater Utilities Board	505	1,513	419	240	101	0.21%	0.61%	0.17%	0.09%	0.04%
Tallahatchie Valley Electric Power Association	399	693	341	1,939	897	0.06%	0.10%	0.05%	0.28%	0.13%
Tarrant Electric Department	-	-	13	-	1	0.00%	0.00%	0.02%	0.00%	0.00%
Tennessee Valley Electric Cooperative	813	746	1,976	546	1,856	0.21%	0.19%	0.51%	0.13%	0.46%
Tippah Electric Power Association	719	1,427	263	585	1,509	0.23%	0.44%	0.08%	0.17%	0.44%
Tishomingo County Electric Power Association	686	822	268	214	1,048	0.25%	0.29%	0.10%	0.07%	0.36%
Tombigbee Electric Power Association	1,777	2,411	4,164	3,097	1,803	0.16%	0.22%	0.38%	0.27%	0.16%
Trenton Light & Water Department	54	32	447	9	266	0.08%	0.05%	0.65%	0.01%	0.37%
Tri-County Electric Membership Corporation	3,149	795	960	936	716	0.30%	0.07%	0.09%	0.08%	0.06%
Tri-State Electric Membership Corporation	150	189	221	172	74	0.06%	0.07%	0.08%	0.06%	0.03%
Tullahoma Board of Public Utilities	630	876	597	954	2,491	0.21%	0.29%	0.20%	0.30%	0.79%
Tupelo Water & Light Department, City of	7,042	4,360	2,585	5,280	2,803	1.08%	0.67%	0.39%	0.76%	0.41%
Tuscumbia Electricity Department	149	229	326	102	569	0.16%	0.24%	0.34%	0.10%	0.56%
Union City Electric System	390	31	156	90	995	0.13%	0.01%	0.05%	0.03%	0.33%
Upper Cumberland EMC	3,526	1,409	1,336	511	1,932	0.35%	0.14%	0.13%	0.05%	0.18%
Volunteer Energy Cooperative	5,160	3,558	4,595	8,394	1,983	0.23%	0.15%	0.20%	0.35%	0.08%
Warren Rural Electric Cooperative Corporation	2,496	10,197	4,358	3,018	1,715	0.14%	0.53%	0.23%	0.15%	0.09%
Water Valley Electric Department, City of	-	-	861	-	220	0.00%	0.00%	1.31%	0.00%	0.32%
Weakley County Municipal Electric System	810	2,071	439	497	1,445	0.18%	0.43%	0.09%	0.10%	0.30%
West Kentucky Rural Electric Cooperative Corp.	4,803	822	442	5,207	262	0.69%	0.12%	0.06%	0.72%	0.04%
West Point Electric System, City of	-	-	283	-	291	0.00%	0.00%	0.32%	0.00%	0.32%
Winchester Utilities	1,422	36	541	574	23	0.78%	0.02%	0.29%	0.29%	0.01%

ENERGY EFFICIENCY IN THE SOUTHEAST

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