Saving Energy: 2016

How South Carolina's Electric and Natural Gas Utilities Are Using Demand-Side Management to Help Customers Reduce Their Energy Usage

ENERGY OFFICE

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INTRODUCTION

Demand Side Management (DSM) is a strategy that electric and natural gas utilities employ to decrease or defer demand for their energy services. The State Energy Office, a division of the South Carolina Office of Regulatory Staff, is submitting this report pursuant to S.C. Code Ann § 58-37-30. This report is intended to summarize DSM activities deployed by South Carolina's electric and natural gas utilities as reported in 2016. Data used to create this report was taken from utility Integrated Resource Plans (IRPs) submitted during 2016 and utility responses to information requests. Consequently, the data and program descriptions represent the utilities' descriptions, goals, and objectives for their DSM activities. These IRPs include data from prior periods as well as future projections.

Utilities are encouraged by state legislation to adopt and implement DSM programs, which directly benefit utilities by reducing their need for wholesale energy purchases and potentially deferring infrastructure investments. Utilities regulated by the South Carolina Public Service Commission (PSC) receive regulatory incentives allowing them to recover costs associated with these programs. Some examples of infrastructure investments that may be minimized or deferred include the installation of pollution controls, the construction of new generation, and the construction of new transmission and distribution infrastructure. Customers can also directly benefit from DSM through reductions in their monthly energy consumption.

For the purposes of this report, DSM programs are defined, pursuant to S.C. Code Ann § 58-37-10, as activities conducted by electric and natural gas utilities for the reduction or more efficient use of energy in the following three major categories:

- **Energy Efficiency and Conservation:** Energy efficiency (EE) reduces energy consumption without requiring customers to sacrifice the benefits received from energy (for example, installing building insulation, purchasing efficient appliances.) Energy conservation reduces energy consumption by requiring customers to decrease their utilization of energy-consuming devices (for example, reducing thermostat temperature, turning off lights.) Although each achieves energy reduction in a different way, they are closely related and are grouped together in this report.

- **Load Management:** Reduces customer demand for energy during periods of peak demand when capacity is limited and the cost of energy provision is high.

- **Public Information:** Encourages customer participation in DSM programs and seeks to change behaviors through public campaigns, direct-to-customer communication, or increasing customer access to information about their consumption of energy services.

The following sections of this report provide a description of the DSM programs offered by the investor-owned utilities, Santee Cooper, electric cooperatives, and municipalities. Data used to create this report reflect utility IRPs submitted during 2016 and utility responses to information requests received during the same period. These plans were submitted between February and November of 2016 and cover both activities undertaken in the previous year and activities planned for the future. Due to their similarities and the way that the programs overlap, energy efficiency and conservation programs have been grouped together.

In 2016, 41 of 61 South Carolina electric and natural gas distribution utilities offered DSM programs. The widest variety of DSM programs were available from the three largest investor-owned electric utilities— Duke Energy Carolinas, LLC, Duke Energy Progress, LLC, and South Carolina Electric & Gas Company (SCE&G)— and from the state-owned South Carolina Public Service Authority (Santee Cooper), which offered a variety of DSM programs covering all of the major categories.

Central Electric Cooperative, reporting for the twenty member electric distribution cooperatives, has a longstanding load-control program that has been in effect for more than thirty years. Several electric cooperatives also offer low-interest loans for home weatherization through on-bill financing. Five South Carolina municipal electric utilities, the largest being Rock Hill and the smallest being Abbeville, also maintain DSM programs. South Carolina's fourth investor-owned electric utility, Lockhart Power Company, has one primary DSM program through its Industrial Interruptible Service Rate.

Piedmont Natural Gas Company, one of South Carolina's two investor-owned natural gas distribution utilities, also offered DSM programs. In addition, four of South Carolina's municipal natural gas utilities maintain DSM programs.

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Summary: South Carolina Electric Distribution Utilities

Of the 46 Electric Distribution Utilities (EDUs) in South Carolina, 30 had ongoing DSM activities in 2016.[1] Their ongoing activities are discussed below. See Appendix A for a summary of all incentives offered by all utilities and refer to Appendix B for more detailed descriptions of programs offered by each utility.

Energy Efficiency and Conservation

- Three EDUs provided financial incentives to builders and/or building occupants to promote energy-efficient new construction.
- Four EDUs offered financial incentives to building occupants to encourage energy efficiency improvements in existing structures. Several electric cooperatives also offered assistance through on-bill financing.
- Six EDUs offered on-site energy assessments to customers in which they provided trained personnel to evaluate facilities and suggest methods for improving energy efficiency.
- Four EDUs implemented energy efficiency and weatherization programs targeting low-income customers; the programs provide personalized assistance and financial support to assist those customers in making needed home improvements and lowering their monthly electric bill.
- Twelve EDUs offered financial incentives for the purchase and/or installation of energy-efficient appliances, equipment, and lighting.

Load Management

- Twenty-four EDUs offered financial incentives to customers that opted to allow utilities to control their peak load by curtailing the operation of certain appliances or equipment during periods of peak demand.
- Three EDUs offered financial incentives to customers that agreed to partially or completely halt electricity consumption, or allowed the utility to interrupt service, during periods of peak demand.
- Four EDUs offered rates that reflected time-of-use, real-time, and/or seasonal capacity constraints and marginal generation costs during periods of peak demand.
- One EDU provided incentives for customers to switch to on-site standby electricity generation during periods of peak demand.

[1] *Information provided on this summary page does not include pilot projects.*

Public Information

- Nine EDUs maintained websites that offered energy efficiency and conservation tips and/or web-based systems for viewing and analyzing monthly electricity usage and cost.
- Four EDUs communicated directly with customers through mailings and/or in-person assistance to publicize utility DSM programs and to offer energy efficiency and conservation tips and services.
- Four EDUs conducted public outreach campaigns through advertising and/or presence at community events to publicize utility DSM programs and offer energy efficiency and conservation tips.
- Three EDUs provided instructional programs and/or resources to K-12 schools to promote energy awareness.

Summary: South Carolina Natural Gas Distribution Utilities

Of the 15 natural gas utilities (NGU) in South Carolina, 6 had ongoing DSM activities in 2016. These activities are discussed below.

Energy Efficiency and Conservation

- Two NGUs provided payments to builders to promote energy-efficient new construction.
- One NGU offered on-site energy assessments to customers in which they provided trained personnel to evaluate facilities and suggest methods for improving energy efficiency.
- Two NGUs implemented an energy efficiency and weatherization program targeting low-income customers.
- Two NGUs provide personalized assessments and home improvements to enable these customers to lower their monthly natural gas bills.
- Six NGUs offered financial incentives for the purchase and/or installation of newer, more efficient natural gas appliances or equipment.

Load Management

- Two NGUs offered financial incentives to customers that allowed utilities to cut off or reduce their natural gas deliveries during periods of peak demand. Interruptible-service customers are typically commercial or industrial entities that have the ability to switch from utility natural gas to another energy source or are willing to suspend operations during fuel curtailment periods.

Public Information

- Two NGUs maintained websites that offered energy efficiency and conservation tips and/or web-based tools for viewing and analyzing monthly natural gas usage and cost.
- Two NGUs communicated directly with customers through mailings and/or in-person assistance to publicize utility DSM programs and offer energy efficiency and conservation tips and services.
- One NGU conducted public outreach campaigns through advertising and presence at community events to publicize utility DSM programs and offer energy efficiency and conservation tips.

Specific programs offered by each utility are listed on the following pages and described in greater detail in Appendix B.

INVESTOR-OWNED ELECTRIC UTILITIES

Duke Energy Carolinas

Duke Energy Carolinas (DEC) uses DSM and EE programs to efficiently and cost-effectively alter customer demands and reduce the long-run supply costs for energy and peak demand. These programs can vary greatly in their dispatch characteristics, size and duration of load response, certainty of load response, and level and frequency of customer participation. Following are the DSM programs currently available through DEC. More information on these programs can be found on Duke's website for homeowners and businesses.

Residential Customer Programs

- Home Energy House Call
- Energy Efficiency in Schools Program
- Energy Efficient Appliances and Devices
- Heating, Ventilation and Air Conditioning (HVAC) Energy Efficiency Program
- Multi-Family Energy Efficiency Program
- My Home Energy Report
- Income-Qualified Energy Efficiency and Weatherization Program
- Power Manager
- Online Resources

Non-Residential Customer Programs

- Non-Residential Smart $aver® Prescriptive Program
- Non-Residential Smart $aver® Custom Program
- Non-Residential Smart $aver® Custom Energy Assessments Program
- PowerShare®
- Small Business Energy Saver
- Smart Energy in Offices
- EnergyWise® Business
- Online Resources

Pilot Program

- Business Energy Report

Future Program

- Prepaid Advantage Program

Hidden Springs Community, LLC

Duke Energy Progress

Like DEC, Duke Energy Progress (DEP) utilizes DSM and EE programs to efficiently and cost-effectively alter customer demands and reduce the long-run supply costs for energy and peak demand. These programs can vary greatly in their dispatch characteristics, size and duration of load response, certainty of load response, and level and frequency of customer participation. In general, programs are offered in two primary categories: EE programs that reduce energy consumption and DSM programs that reduce peak demand (demand-side management or demand-response programs and certain rate structure programs).

DEP's DSM portfolio currently consists of the following programs, as approved by the Commission. More information on these programs can be found on Duke's website for homes and businesses.

Residential Customer Programs

- Home Energy House Call
- My Home Energy Report
- Energy-Efficient Lighting Program
- EnergyWise Home
- Neighborhood Energy Saver (Low-Income)
- Home Energy Improvement
- Energy Efficiency Education
- Multi-Family Energy Efficiency
- Save Energy and Water Kit
- Time-of-Use Rate

Non-residential Customer Programs

- New Construction
- EnergyWise Business
- Energy Efficiency for Business
- Small Business Energy Saver
- CIG Demand Response Automation Program
- Distribution System Demand Response (DSDR) Program
- Time-of-Use Rate

Pilot Program

- Business Energy Report

DEP also has the following informational and educational programs.

- Online Account Access
- "Lower My Bill" Toolkit
- Online Energy Saving Tips
- Energy Resource Center
- Large Account Management
- eSMART Kids Website
- Community Events

Lockhart Power Company

Lockhart Power Company's primary demand-side program is its Industrial Interruptible Service Rate (IS-1), available only to industrial customers receiving service from the Company under Schedule I concurrent with a metered demand of 750 kilowatts or more served from the Company's transmission system. Under this rate the customer agrees, at the Company's request, to reduce and maintain its load at or below the level specified in the individual contract. The Company's request to interrupt service may be at any time the Company or its power supplier has capacity problems.

In addition, the standard residential rate (R) has an inclining feature— namely, Lockhart charges a somewhat higher rate for all usage above 1,000 kWh each month. This rate structure provides incentives to customers to reduce their consumption of electricity.

South Carolina Electric & Gas Company

As stated in SCE&G's 2016 IRP, DSM can be broadly defined as the set of actions that can be taken to influence the level and timing of the consumption of energy. Two common subsets of DSM are Energy Efficiency and Load Management (also known as Demand Response). Energy Efficiency typically includes actions designed to increase efficiency by maintaining the same level of production or comfort, but using less energy input in an economically efficient way. Load Management typically includes actions specifically designed to encourage customers to reduce usage during peak times or shift that usage to other times. A list of SCE&G's programs can be found below and more information is available on their website for residents and businesses.

Residential Customer Programs

- Appliance Recycling Program
- Home Energy Reports
- Home Energy Check-up
- Neighborhood Energy Efficiency Program
- Heating & Cooling Rebates
- EnergyWise Savings Store
- Time-of-Use Rate
- Energy Saver/Conservation Rate
- Online Resources

Non-Residential Customer Programs

- EnergyWise for Your Business
- Small Business Energy Solutions
- Standby Generator
- Interruptible Load
- Time-of-Use Rate
- Online Resources

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For more information regarding the DSM programs offered by the investor-owned utilities, see the IRPs for each utility at investor-owned utilities, see the IRPs for each utility at

ENERGY.SC.GOV/Utilities

STATE-OWNED ELECTRIC UTILITY

Santee Cooper

For over 20 years, Santee Cooper has offered DSM programs. These programs have measures that save energy and/or demand. The energy and/or demand impacts of the actual and projected participation of Santee Cooper's directly served retail customers are considered when updating the energy and/or demand needs in the generation plan.

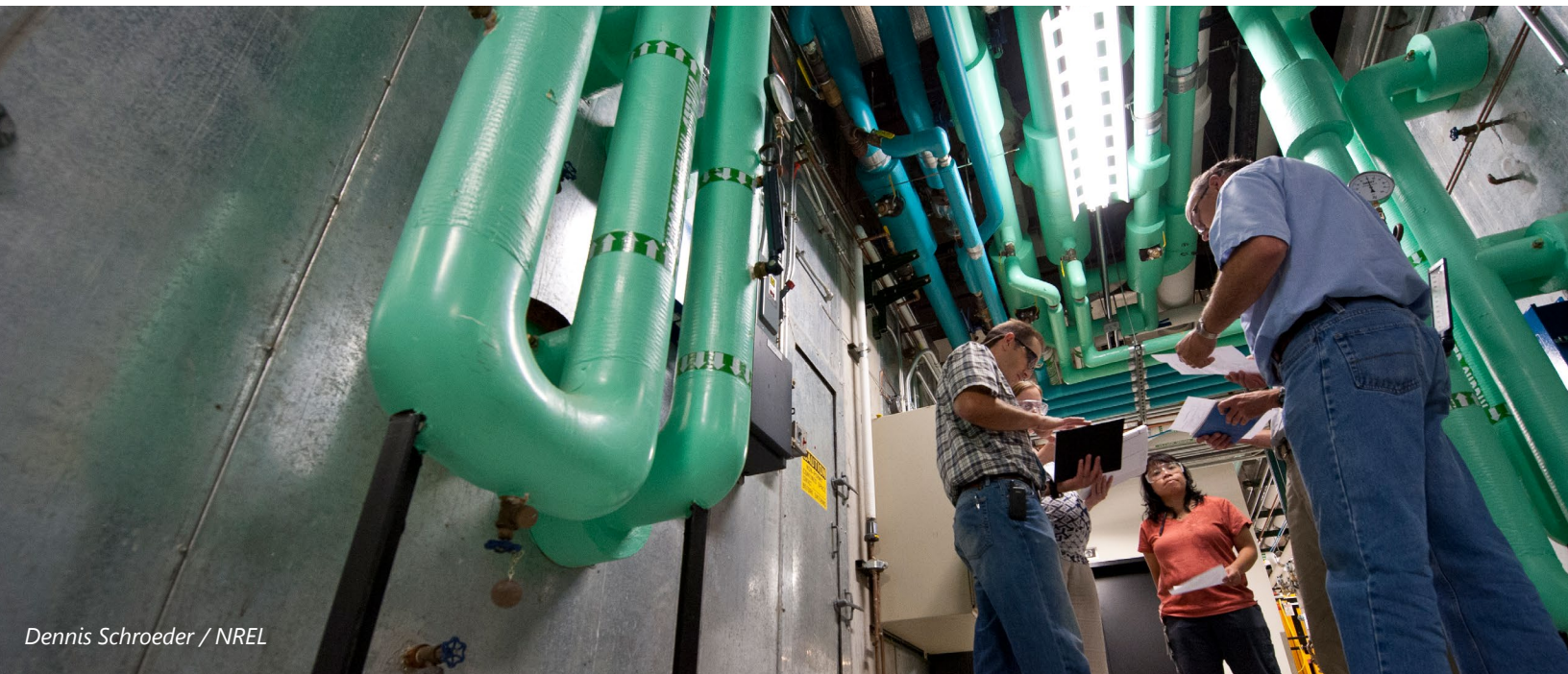
Santee Cooper's programs are listed below. More information on these programs can be found on their website for residents and businesses.

Residential Customer Programs

- Smart Energy Existing Homes
- Smart Energy Loans
- Onsite Energy Assessments
- LED Giveaway
- Public Information Programs
- School Programs & Resources

Non-Residential Programs

- Smart Energy New Homes
- Commercial Prescriptive
- Commercial Custom
- Onsite Energy Assessments



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ELECTRIC COOPERATIVES

Central Electric Power Cooperative is reporting on behalf of the 20 distribution electric cooperatives in South Carolina. Here is a summary of their DSM and Energy Efficiency programs for the year 2016.

DSM

An active demand response program currently exists whereby peak demands are reduced via electric water heater control, air conditioner control, voltage control and interrupted loads. Central and its member cooperatives are reducing peak loads approximately 125 MW during winter months and 60 MW during summer months. These are longstanding programs that began 30 years ago. While many of the switches are controlled via a radio signal, South Carolina distribution cooperatives are increasingly turning to smart-grid applications that use power line carrier technology to communicate. Central and its member cooperatives recently began a "Beat the Peak" program in 2016. "Beat the Peak" allows members to voluntarily sign up to receive notifications of peak demand periods. Notifications are sent via text, email, and/or voice messages at times when they can help reduce electricity use.

Energy Efficiency

Utilizing the South Carolina on-bill financing statute, several electric power cooperatives offer retail members low-interest loans for home weatherization. Through 2016, over 600 homes have participated in the weatherization programs offered.

In addition to on-bill weatherization programs, some South Carolina distribution cooperatives offer on-bill heat pump replacement programs and special rates for members whose homes meet certain energy efficiency requirements.

Some of the cooperatives have additional programs. See the list below.

Palmetto Electric Cooperative

More information on these programs can be found on the cooperative's website.

- Buried Treasure Rebate Program
- Dual-Fuel Heat Pumps
- H2O Select®

Aiken Electric Cooperative

More information on the program can be found on the cooperative's website.

- Water Heater Incentives

Berkeley Electric Cooperative

More information on these programs can be found on the cooperative's website.

- Geothermal Heating and Cooling Incentive
- Dual Fuel Heating System
- H2O Advantage
- Home Advantage Loan Program

Blue Ridge Electric Cooperative

More information on these programs can be found on the cooperative's website.

- H2O Select Water Heater Program
- Heat Pump Loan Program

Pee Dee Electric Cooperative

More information on these programs can be found on the cooperative's website.

- Energy Resource Conservation Loan
- Energy Efficiency Rebate Program
- Energy Experts & Audits

York Electric Cooperative

More information on these programs can be found on the cooperative's website.

- Dual Fuel Heat Pump Rebate
- Power Saver Rewards
- Energy Audit Program

MUNICIPAL ELECTRIC UTILITIES

City of Abbeville

- Online "Energy Depot" Toolkit

City of Clinton

- Green Grid Rewards
- Online Resources

Laurens Commission of Public Works

The Laurens CPW has a DSM program for residential and qualifying commercial customers. An EE rate is currently offered to incentivize the use of switches to control air conditioning and pool pumps during high electricity demand periods.

- Green Grid Reward
- Natural Gas Appliance Bill Credit
- Online "Energy Depot" Toolkit

City of Rock Hill

Residential Customer Programs

- Smart Choice Program
- Smart Switches
- Online "Energy Depot" Toolkit

Non-Residential Customer Program

- Energy Management Consultation

City of Westminster

- Online "Energy Depot" Toolkit
- Weatherization

Site Under Video
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INVESTOR-OWNED NATURAL GAS UTILITIES

Piedmont Natural Gas Company

Piedmont Natural Gas Company (Piedmont) administers the following Energy Efficiency programs to customers in its South Carolina service territory:

- Low-Income Energy Efficiency Program
- Customer Education Program
- Natural Gas Appliance Rebates

South Carolina Electric & Gas Company

SCE&G's DSM programs do not specifically target natural gas usage; many of its programs –particularly efficient new home incentives, energy assessments, and public information activities – have the effect of encouraging natural gas efficiency, conservation, and/or reduction of peak demand within its combined gas-electric service area. SCE&G does have natural gas rebates available to its natural gas customers.

MUNICIPAL NATURAL GAS UTILITIES

Chester County Natural Gas Authority

Chester County Natural Gas Authority's DSM programs for natural gas utilities are based on the increased efficiency of new natural gas appliances, which reduces demand on the gas system.

The Authority employs the following DSM Programs:

- Appliance Rebate Program
- New Construction Incentive Program
- Water Heater Program

Fort Hill Natural Gas Authority

Fort Hill Natural Gas demand-side management activities for 2016 included interruptible-service contracts for its larger volume customer accounts and rebates for customers purchasing new natural gas appliances.

- Appliance Rebates

Orangeburg Department of Public Utilities

The Orangeburg Department of Public Utilities (ODPU) has a rebate program that includes rebates for tankless water heaters and high efficiency heaters. The ODPU offers favorable rates for interruptible-service customers.

- Natural Gas Rebate Program
- Interruptible Rates

York County Natural Gas

York County Natural Gas offers a rebate program for customers converting appliances to natural gas. Details regarding what appliances are eligible, rebate amounts, and the rebate request form can be found at https://www.ycnga.com/index.php/residential/conservation-rebates.

- Residential Rebates
- Builder Rebate Program

APPENDIX A

Electric and Natural Gas Demand Side Management Programs

Electric Demand Side Management Programs *(2014)*

Utility Name	Ownership	Energy Efficiency					Load Management						Public Information				
		New Building Efficiency Incentives	Existing Building Retrofit Incentives	On-Site Energy Assessments	Low-Income Efficiency and Weatherization Assistance	Equipment and Lighting Incentives	Load Control Incentives	Interruptible Service Incentives	Time-of-Use or Seasonal Rates	Standby Generation Incentives	Thermal Storage Incentives	Voltage Reduction	Web-Based Customer Tips and Tools	In-Home Real-Time Energy Monitoring	Direct-to-Customer Communication	Public Campaigns	School Programs & Resources
Abbeville, City of	Municipal												✓				
Bamberg Board of Public Works	Municipal																
Bennettsville, City of	Municipal																
Camden, City of	Municipal																
Clinton, City of	Municipal						✓						✓				
Town of Due West	Municipal																
Duke Energy Carolinas	Investor-Owned		✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓
Duke Energy Progress	Investor-Owned	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓
Easley Combined Utility System	Municipal											✓					
Electric Cooperatives (20 Co-ops)	Cooperative		✓*				✓				✓*				✓		
Gaffney Board of Public Works	Municipal																
Georgetown, City of	Municipal																
Greenwood CPW	Municipal																
Greer CPW	Municipal																
Laurens CPW	Municipal						✓						✓				
Lockhart Power Co., Inc	Investor-Owned							✓									
McCormick CPW	Municipal																
Newberry, City of	Municipal																
Orangeburg DPU	Municipal							✓									
Town of Prosperity	Municipal																
Rock Hill, City of	Municipal						✓						✓			✓	
Santee Cooper	State-Owned	✓	✓	✓		✓							✓		✓	✓	✓
Seneca Light & Water Plant	Municipal																
South Carolina Electric & Gas	Investor-Owned		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	
Union, City of	Municipal																
Westminster CPW	Municipal				✓								✓		✓		
Winnsboro, Town of	Municipal																

SOURCE: Office of Regulatory Staff- Energy Office annual survey of utilities
Note: This table does not include pilot projects.
**Avaliable from select Co-ops*

Natural Gas Demand Side Management Programs

Utility Name	Ownership	Energy Efficiency				Load Management	Public Information		
		New Building Efficiency Incentives	On-Site Energy Assessments	Low-Income Efficiency and Weatherization Assistance	Efficient Appliance or Equipment Inventives	Interruptible Service Incentives	Web-Based Customer Tools and Tips	Direct-to-Customer Communication	Public Campaigns
Bamberg Board of Public Works	Municipal								
City of Bennettsville	Municipal								
Chester County Natural Gas Authority	Municipal	✓			✓				
Clinton-Newberry Natural Gas Authority	Municipal								
Fort Hill Natural Gas Authority	Municipal				✓				
Fountain Inn Natural Gas	Municipal								
Greenwood Commission of Public Works	Municipal								
Greer Commission of Public Works	Municipal								
Laurens Commission of Public Works	Municipal								
Orangeburg Department of Public Utilities	Municipal				✓	✓			
Piedmont Natural Gas Company	Investor-Owned			✓	✓			✓	
South Carolina Electric & Gas Company	Investor-Owned	✓	✓	✓	✓		✓	✓	✓
City of Union	Municipal								
Town of Winnsboro	Municipal								
York County Natural Gas Authority	Municipal	✓			✓		✓		

Source: Office of Regulatory Staff- Energy Office annual survey of utilities.
Note: This table does not include pilot projects.

APPENDIX B

DSM / EE Incentives

Duke Energy Carolinas

The following table lists residential incentives for Duke Energy Carolinas customers.

Program	Description
Home Energy House Call	Provides customers with a free energy audit of their home and an energy efficiency starter kit including LED bulbs, a shower head, and more.
Energy Efficiency in Schools Program	Engages school children with a live in-school theatrical presentation regarding energy efficiency and allows children to receive a home energy efficiency kit featuring weather stripping and LED bulbs.
Energy-Efficient Appliances and Devices	The Company provides financial incentives for customers to install energy-efficient equipment. The program consists of measures related to pool equipment, lighting, and hot water heating. Incentives range from $300 - $450.
Heating, Ventilation, and Air Conditioning (HVAC) Energy Efficiency Program - Smart $aver®	Provides customers with financial incentives to install or take action around making their homes or HVAC equipment more energy efficient. Incentives range from $175 - $600.
Multi-Family Energy Efficiency Program	Targeted at getting energy- and water-efficient measures including lighting, water heating, and weather stripping installed in multi-family dwellings. The property assessment and installation of the products is FREE.
My Home Energy Report	A periodic report is sent to customers to engage them around their energy usage by providing them with a comparison to similar customers. The report also provides customers with actionable energy-saving tips.
Income-Qualified Energy Efficiency and Weatherization Program	Provides income-qualified households with highly incentivized home weatherization. It also includes a program that uses neighborhood engagements to directly install low-cost measures such as efficient lighting in homes in a targeted neighborhood. Payments will be made to the administering agency on behalf of the customer.
Power Manager	Program provides customers with a financial incentive to allow the Company to cycle a customer's air conditioner during peak events. Participants will receive a total of $32 in bill credits each year.
Prepaid Advantage Pilot Program	This program is under development and not yet available. It will be a voluntary pilot that will allow customers to pay for electric service before it is used, which allows them to pay in accordance with their desired payment frequency and amount.
Online Resources	Online tools and tips including energy calculators.

Duke Energy Carolinas

The following table lists commercial/industrial incentives for Duke Energy Carolinas customers.

Program	Description
Non-Residential Smart $aver® Prescriptive Program	Financial incentives for customers to install energy efficient equipment. The prescriptive program includes specific incentives for food service, HVAC, IT, lighting, process equipment, pumps and drives, and chillers.
Non-Residential Smart $aver® Custom Program	Financial incentives for customers to install energy-efficient equipment that is outside of the Company's prescriptive programs. It is designed to give customers flexibility and incentives based on a specific customer application. Incentives range from 25 to 150 percent of the project's annual electric savings.
Non-Residential Smart $aver® Custom Energy Assessments Program	Financial incentives for a customer to undertake an energy assessment that can be used to identify projects and help them through the custom application process. Participants receive up to a 50 percent subsidy of assessment costs.
PowerShare®	Through this series of programs, the Company provides customers with financial incentives for the ability to require a customer to shed load during peak events. Incentives can total up to 8 percent or more off a monthly bill.
Small Business Energy Saver	Targeted to provide small business customers with the installation of energy efficiency measures. Through this program, the business will receive up to 80 percent coverage on lighting and refrigeration improvements and up to 10 percent on HVAC upgrades.
Smart Energy in Offices	Designed to create a community engagement around energy efficiency in the office. The community-participating office buildings then receive important usage data, participate in behavioral campaigns targeting efficiency, and work toward a common efficiency goal.
EnergyWise® Business	This program provides small-business customers with a financial incentive to allow the Company to cycle customers' air conditioners during peak events. Participants choose the operation level. Incentives range from $25 to $135.
Business Energy Report Pilot	Designed to engage commercial customers around understanding their energy usage by providing them with periodic reports that feature a normative comparison to similar types of businesses and targeted actionable tips to become more efficient.
Online Resources	Online tools and tips including energy calculators.

Duke Energy Progress

The following table lists residential incentives for Duke Energy Progress customers.

Program	Description
Home Energy House Call	Provides customers with a FREE energy audit of their home and an energy efficiency starter kit including LED bulbs, a shower head, and more.
My Home Energy Report	A periodic report is sent to customers to engage them around their energy usage by providing them with a comparison to similar customers and with actionable energy-saving tips.
Energy Efficient Lighting Program	Financial incentives for customers to install energy-efficient lighting and fixtures. The program provides incentives in the form of discounts applied at retail stores and online.
EnergyWise Home Program	Program provides customers with a financial incentive to allow Duke Energy Progress to cycle their air conditioner during peak events. Participants receive a $25 annual credit on their energy bill.
Neighborhood Energy Saver Program - Helping Home Fund	Program uses neighborhood engagements to educate low-income customers and directly install low-cost measures such as efficient lighting in homes in a targeted neighborhood.
Home Energy Improvement Program	Provides customers with financial incentives to install or take action around making their homes or HVAC equipment more energy efficient. Rebates range from $190 - $600.
Energy Efficiency Education Program	Engages school children with a live in-school theatrical presentation regarding energy efficiency and allows children to receive a home energy efficiency kit featuring weather stripping and LED bulbs.
Multi-Family Energy Efficiency Program	Targeted at getting energy- and water-efficient measures including lighting, water heating, and weather stripping installed in multi-family dwellings. The property assessment and installation of the products is FREE.
Save Energy and Water Kit Program	Financial incentives for customers to install energy-efficient measures related to hot water heating, such as faucet aerators and low-flow shower heads.
Online Resources	Online tools and tips including energy calculators.
Time-of-Use Rate	Under this rate participants pay a higher rate during times of the day when demand for electricity is higher, and a lower rate during times when demand is lower.

Duke Energy Progress

The following table lists commercial/industrial incentives for Duke Energy Progress customers.

Program	Description
New Construction Program	Company provides financial incentives to builders to build new homes to a high efficiency standard. Incentives range from $725 - $9,000.
EnergyWise® Business	Program provides small-business customers with a financial incentive to allow the Company to cycle customers' air conditioners during peak events. Incentives range from $25 - $135.
Energy Efficiency for Business	Financial incentives for customers to install energy-efficient lighting, chillers, HVAC equipment, and refrigeration equipment. The program consists of both prescriptive and custom incentives.
Small Business Energy Saver	Targeted to provide small-business customers with an audit of their facilities and the ability to have lighting, heating, and cooling measures installed. The program also includes incentives and payment options for any costs to install energy efficiency measures. Coverage for up to 80 percent on lighting and refrigeration improvements and up to 10 percent on HVAC upgrades.
Commercial, Industrial and Governmental Demand Response Automation Program	The Company provides customers with financial incentives for the ability to require a customer to shed load during peak events.
Distribution System Demand Response (DSDR) Program	This program provides the capability to reduce peak demand while maintaining customer-delivery voltage above the minimum requirement.
Business Energy Report Pilot	Designed to engage commercial customers around understanding their energy usage by providing them with periodic reports that feature a normative comparison to similar types of businesses and targeted actionable tips to become more efficient.
Online Resources	Online tools and tips including energy calculators.
Time-of-Use Rate	Under this rate participants pay a higher rate during times of the day when demand for electricity is higher, and a lower rate during times when demand is lower.

SCE&G

The following table lists residential incentives for SCE&G customers.

Program	Description
Appliance Recycling Program	$50 incentive for allowing SCE&G to collect and recycle less efficient, but operable, secondary refrigerators and/or standalone freezers, which permanently removes the units from service. Units are recycled under an environmentally responsible process.
Home Energy Reports	Free monthly/bi-monthly reports comparing customer's energy usage to peer group and providing information to help identify, analyze, and act upon potential energy efficiency measures and behaviors.
Home Energy Check-up	Free in-home visual energy assessment performed by SCE&G staff with leave-behind energy efficiency kit consisting of ENERGY STAR® bulbs, water heater tank wrap, and pipe insulation, as appropriate.
Neighborhood Energy Efficiency Program	Provides income-qualified customers energy efficiency education— an in-home energy assessment and direct installation of low-cost energy saving measures delivered in a neighborhood door-to-door sweep approach.
Heating & Cooling Rebates	Incentives for the purchase of new ENERGY STAR® qualified HVAC equipment that replaces older inefficient equipment. Incentives to encourage improvements in the efficiency of existing heat pump systems through complete duct replacements and duct insulation are also available. Rebates range from $150 - $400.
Natural Gas Rebates	Bill credits for installing natural gas equipment and for converting to natural gas. Incentives range from $50 - $200.
EnergyWise Savings Store	Online store for customers offering deep discounts on ENERGY STAR® bulbs and providing education regarding lighting and energy savings.
Time-of-Use Rate	Participants are charged higher rates during peak-usage periods and lower rates during off-peak periods to encourage customers to conserve energy during peak periods.
Energy Saver/Conservation Rate	Homeowners will be on a reduced electric rate when existing homes are upgraded and new homes are built with a high level of energy efficiency.
Online Resources	Online tools and tips including energy calculators.

SCE&G

The following table lists commercial/industrial incentives for SCE&G customers.

Program	Description
EnergyWise for Your Business Program	Incentives for non-residential customers to become more energy efficient and invest in high efficiency lighting, high efficiency motors, and other equipment. Customers may receive up to $100,000 in incentives each program year.
Small Business Energy Solutions Program	Turnkey program tailored to help owners of small businesses manage their energy costs by providing education and incentives for energy-efficient lighting, refrigeration, and electric water heating upgrades. Free on-site energy analysis completed. Financial incentives cover up to 80 percent (not to exceed $4,000) of the total cost of most retrofit projects for lighting, electric water heating, and refrigeration controls.
Standby Generator Program	For wholesale customers. Provides about 25 megawatts of peaking capacity that can be called upon when reserve capacity is low on the system. A retail version of this program is also available that provides about 17 megawatts of additional capacity as needed.
Interruptible Load Program	Participating customers receive a discount on their demand charges for shedding load when SCE&G is short on capacity. Incentives range from $2.75 per kW to $4.50 per kW.
Time-of-Use Rate	Participants are charged higher rates during peak-usage periods and lower charges during off-peak periods to encourage customers to conserve energy during peak periods.
Online Resources	Online tools and tips including energy calculators.

Santee Cooper

The following table lists residential incentives for Santee Cooper customers.

Program	Description
Smart Energy Existing Homes	This program offers home energy evaluations and financial assistance for energy efficiency improvements. Rebates range from $6 - $700.
Smart Energy Loans	The loans reward customers when electricity use is reduced. Loans from $500 - $40,000 are available.
Onsite Energy Assessments	Free energy assessments to residential customers upon request.
LED Giveaway	Bulbs are given out through the retail offices.
Public Information Programs	Program elements include web-based customer tips and tools, direct-to-customer communications and public campaigns.
School Programs & Resources	This program includes the Energy Educators Institute, educational publications, the Solar Schools' Project/Conservation and Energy Curriculum, E-SMART Kids and environmental bookmarks.

The following table lists **commercial/industrial** incentives for Santee Cooper customers.

Program	Description
Smart Energy New Homes	Rebates for home builders based on Home Energy Rating System ratings.
Commercial Prescriptive	Rebates for lighting, HVAC, refrigeration, building envelope, and pumps and motors range from $0.15 to $500.
Commercial Custom	Rebates for complex commercial projects not covered under prescriptive. Custom lighting projects will be rebated between $0.05/kWh and $0.25/kWh.
Onsite Energy Assessments	Free energy assessments to residential customers upon request.

Lockhart Power Company

The following table lists residential incentives for Lockhart Power Company customers.

Program	Description
Standard Residential Rate	This rate has an inclining feature. A higher rate is charged for usage above 1,000 kWh each month.

The following table lists commercial/industrial incentives for Lockhart Power Company customers.

Program	Description
Industrial Interruptible Service Rate (IS-1)	Customer agrees, at the Company's request, to reduce and maintain its load at or below the level specified in the individual contract.

Palmetto Electric Cooperative

The following table lists residential incentives for Palmetto Electric Cooperative customers.

Program	Description
Buried Treasure Rebate Program	Rebate for geothermal heat pumps ($200 per ton) and dual-fuel heat pumps ($500 per unit).
Dual-Fuel Heat Pumps	$500 rebate per system.
H2O Select ®	Replace your water heater with a new model and get a rebate up to $350.

Aiken Electric Cooperative

The following table lists residential incentives for Aiken Electric Cooperative customers.

Program	Description
Water Heater Incentives	Incentives: Free high efficiency water heater; $200 installation fee. Water heater and timer with normal installation: $2.50 credit for 10 years. Timer only: $200 cash payment and $2.50 credit for 10 years. New construction contract home: $250.

Berkeley Electric Cooperative

The following table lists residential incentives for Berkeley Electric Cooperative customers.

Program	Description
Geothermal Heating and Cooling Incentive	Geothermal heat pumps, water heaters. Incentives range from $200 - $500
Dual-Fuel Heating System	Dual-Fuel System rebate is $500/home.
H_2O Advantage	Water Heater rebates ranging from $200 - $400.
Home Advantage Loan Program	Geothermal heat pumps, water heaters, heat pumps, air conditioners, caulking/weather-stripping, duct/air sealing, building insulation, windows, doors, custom/others pending approval. Max loan $15,000.

Blue Ridge Electric Cooperative

The following table lists residential incentives for Blue Ridge Electric Cooperative customers.

Program	Description
H_2O Select Water Heater Rebate Program	Water heater rebates ranging from $200 - $300.
Heat Pump Loan Program	Heat pump and geothermal heat pump loans ranging from $1,500 - $12,000.

Pee Dee Electric Cooperative

The following table lists residential incentives for Pee Dee Electric Cooperative customers.

Program	Description
Energy Resource Conservation Loan	Geothermal heat pumps, heat pumps, programmable thermostats, caulking/weather-stripping, building insulation, windows, doors. Max loan $5000, 5% interest rate, repayment up to 72 months.
Energy Efficiency Rebate Program	Geothermal heat pumps, water heaters, heat pumps. Incentive range from $200 - $500.
Energy Experts & Audits	Energy experts can go over a customer's bill and usage over the phone or perform an in-home energy audit.

York Electric Cooperative

The following table lists energy incentives for York Electric Cooperative customers.

Program	Description
Dual-Fuel Heat Pump Rebate	Incentive: Dual-Fuel heat pumps: $200/system.
Power Saver Rewards	This program uses a device to cycle the flow of power to central air conditioners during times of high demand for electricity. Incentive: $20 bill credit and $5 per summer month. An additional unit can be added for an additional $3 per month incentive.
Energy Audit Program	At a resident's request, personnel will visit homes and advise on improvements that can result in both energy and financial savings.

City of Abbeville

The following table lists energy incentives for City of Abbeville customers.

Program	Description
Online "Energy Depot" Toolkit	This website includes a personalized energy profile, energy reduction tips, do-it-yourself energy audit, and more.

City of Clinton

The following table lists energy incentives for City of Clinton customers.

Program	Description
Green Grid Rewards	Participants will receive fiber/radio-controlled switches for their air conditioner so the energy can be managed during peak-demand periods. They also will be placed on the Green Rewards Rate which will typically allow a savings of $25-$50 per year and receive a $25 restaurant gift certificate.
Online Resources	Energy saving tips.

Laurens Commission of Public Works

The following table lists energy incentives for Laurens Commission of Public Works customers.

Program	Description
Green Grid Reward	The rate is offered to incentivize the use of switches to control air conditioning and pool pumps during high electricity-demand periods. Customers in this program receive a $25 bill credit and the lowest electric rate.
Bill Credit	Residents receive a bill credit for installing natural gas appliances. Bill credits range from $75 to $450.
Online "Energy Depot" Toolkit	This website includes a personalized energy profile, energy reduction tips, do-it-yourself energy audit, and more.

City of Rock Hill

The following table lists energy incentives for City of Rock Hill customers.

Program	Description
Smart Choice Program	This program provides rebates or low-interest financing for the installation of high efficiency heat pumps and water heaters. Program participants also are eligible for the City's lowest residential electric rate schedule. Rebates range from $225 - $400. Financing is available for electric heat pump installations at an interest rate of 6 percent for a maximum of 60 months.
Smart Switches	Smart Switches are devices that control the flow of electricity to major appliances (water heater, air conditioner, or swimming pool pump) during times of peak demand, normally June through September. Customers with Smart Switches are entered into a drawing for a $100 utility bill credit at each City Council meeting.
Online "Energy Depot" Toolkit	This website includes a personalized energy profile, energy reduction tips, do-it-yourself energy audit, and more.
Energy Management Consultation	The City of Rock Hill is available to provide consultation regarding energy management programs for its commercial and industrial consumers. For more information about energy management services, call 803-329-5500.

City of Westminster

The following table lists energy incentives for City of Westminster customers.

Program	Description
Weatherization	This program is designed to assist low-income families with weatherization measures.
Online "Energy Depot" Toolkit	This website includes a personalized energy profile, energy reduction tips, do-it-yourself energy audit, and more.

Piedmont Natural Gas Company

The following table lists energy incentives for Piedmont Natural Gas Company customers.

Program	Description
Low-Income Energy Efficiency Program	Provides energy efficiency measures and weatherization assistance to existing low-income residential customers.
Natural Gas Appliance Rebates	Provides rebates to customers who purchase and install qualifying high efficiency natural gas equipment to replace existing natural gas equipment. Rebates range from $50 to $300.
Customer Education Program	Targeted marketing approach to provide energy education, efficiency, and conservation messages.

Chester County Natural Gas Authority

The following table lists energy incentives for Chester County Natural Gas Authority customers.

Program	Description
Appliance Rebate Program	Customers receive appliance rebates through this program. Rebates range from $25 - $300.
New Construction Incentive Program	The program provides an incentive for licensed builders and contractors to install natural gas appliances in new residential dwellings. Appliance rebates range from $75 - $300.
Water Heater Program	Chester County Natural Gas Authority will furnish customers with a free 40-gallon water heater to replace an electric water heater.

Fort Hill Natural Gas Authority

The following table lists energy incentives for Fort Hill Natural Gas Authority customers.

Program	Description
Appliance Rebates	For customers purchasing new natural gas appliances. Receive a rebate ranging from $100 - $350.

Orangeburg Department of Public Utilities

The following table lists energy incentives for Orangeburg Department of Public Utilities customers.

Program	Description
Natural Gas Rebate Program	This program offers rebates to residential customers installing new natural gas appliances, replacing electric appliances with natural gas, or converting gas appliances from propane to natural gas. Rebates range from $90 - $250.
Interruptible Rates	Favorable rates are offered for interruptible-service customers.

York County Natural Gas

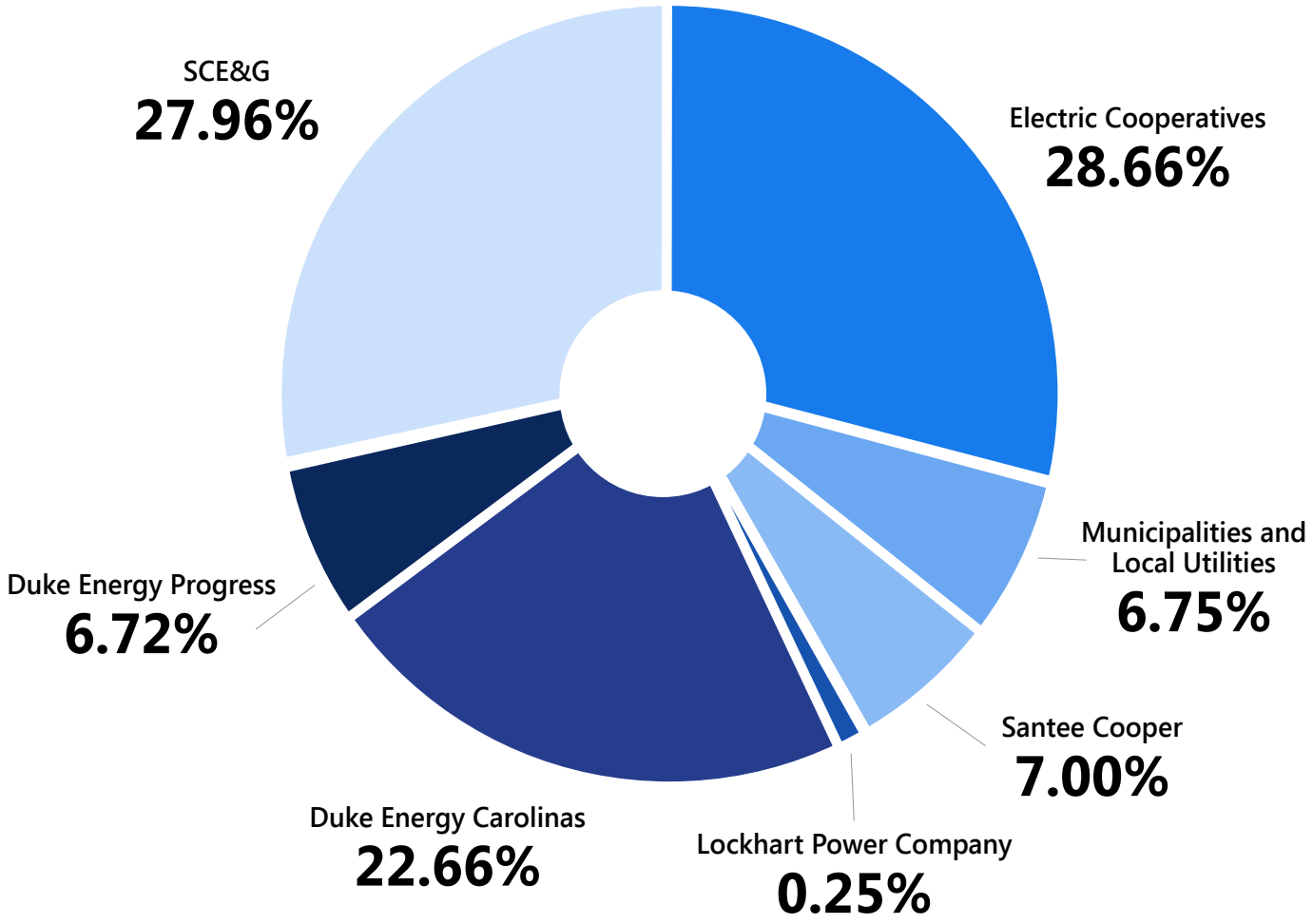
The following table lists energy incentives for York County Natural Gas customers.

Program	Description
Residential Rebate Program	This program is offered to customers converting eligible appliances to natural gas. The rebates will be credited to a customer's gas account or used to reduce the cost of new appliance purchases. Rebates range from $75 - $400.
Builder Rebate Program	This program is offered to builders as an incentive to install natural gas appliances in residential dwellings. The rebates will be applied to builder accounts. Rebates range from $75 - $400.

APPENDIX C

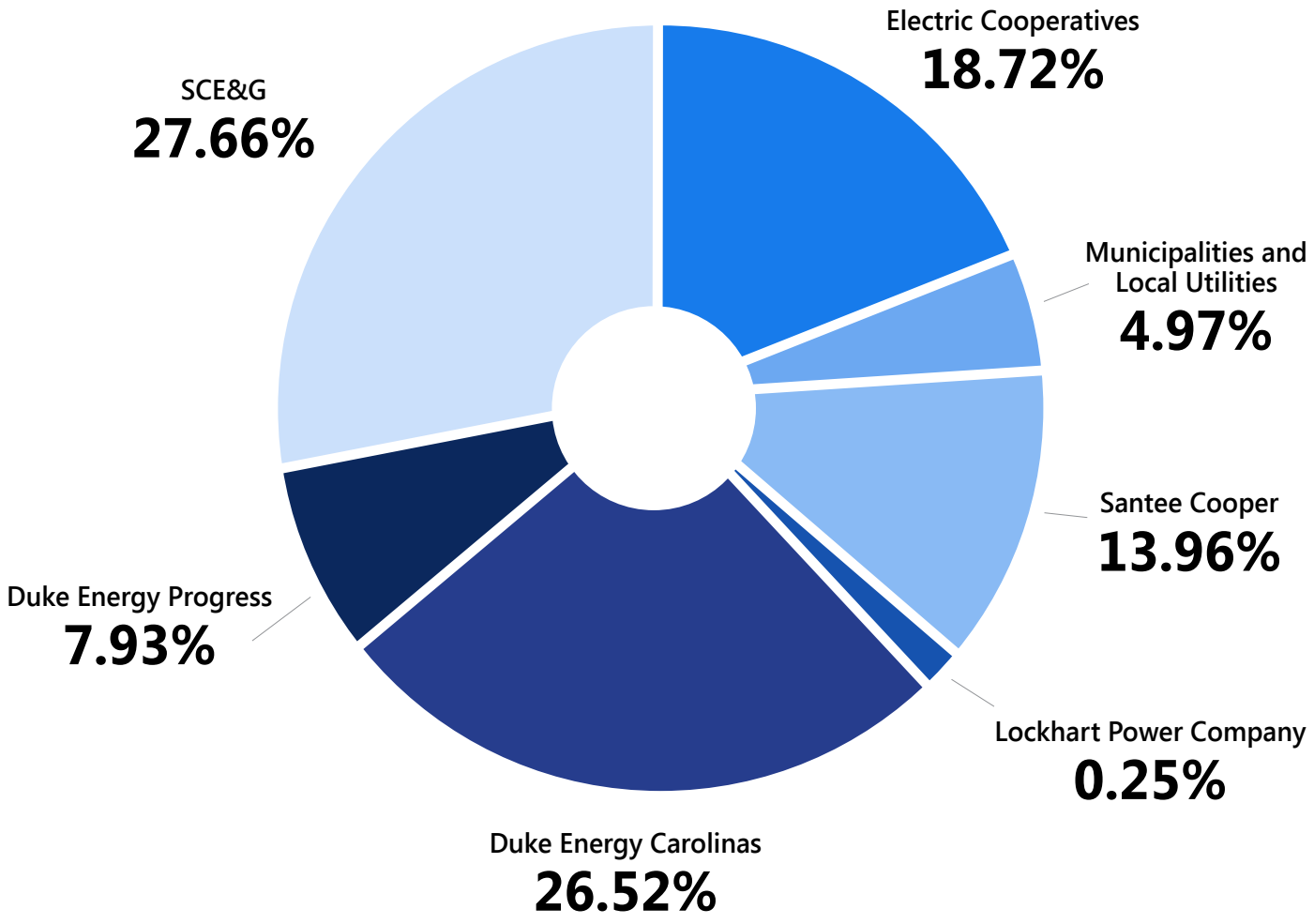
South Carolina Electric and Natural Gas Distribution Utility Market Share

Electric Distribution Utility Market Share
Number of Customers



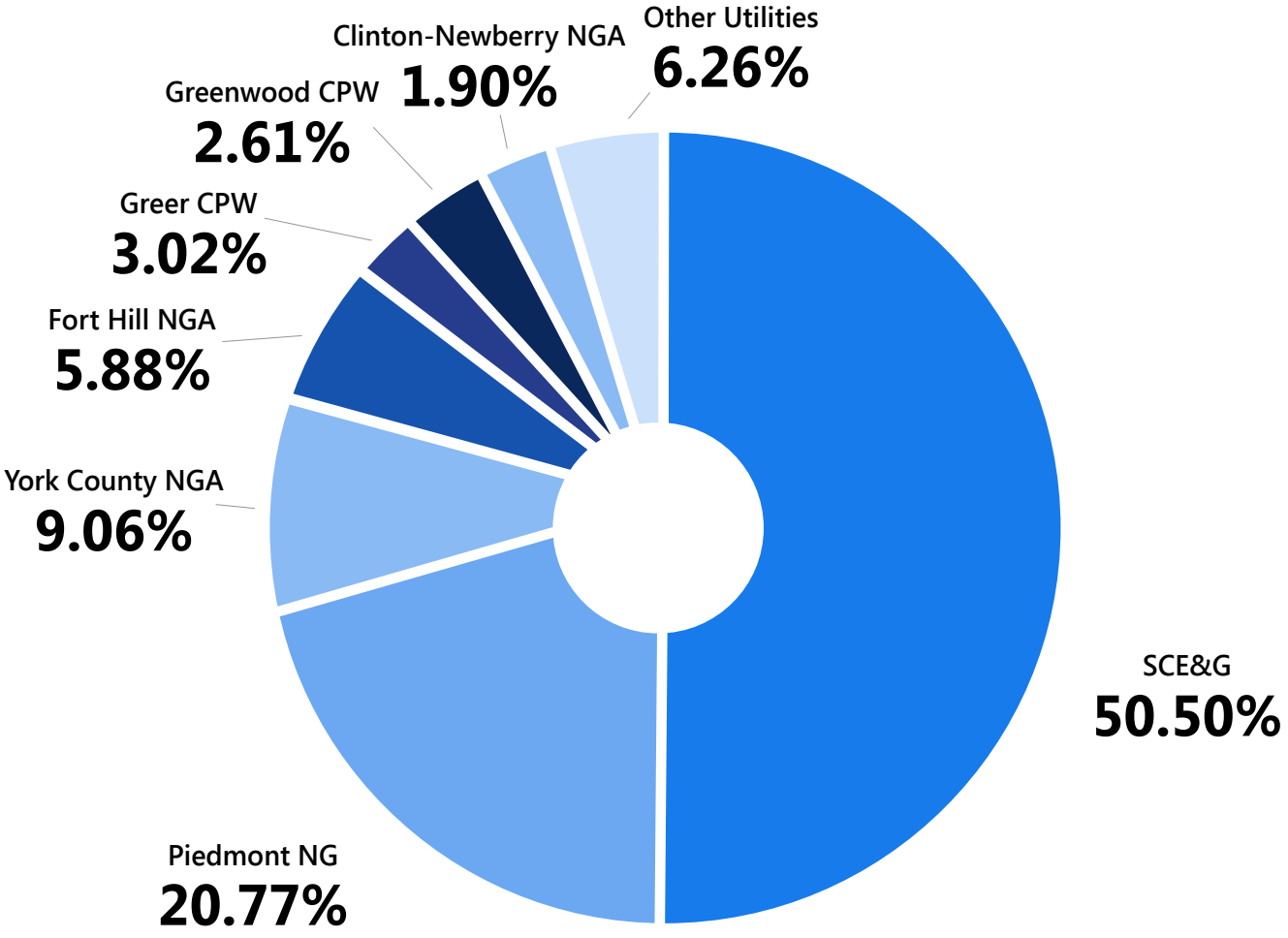
Source: U.S. Energy Information Administration, "Class of Ownership, Number of Consumers, Sales, Revenue, and Average Retail Price by State and Utility: All Sectors" www.eia.gov/electricity/sales_revenue_price

Electric Distribution Utility Market Share
Sales, in Megawatt-hours



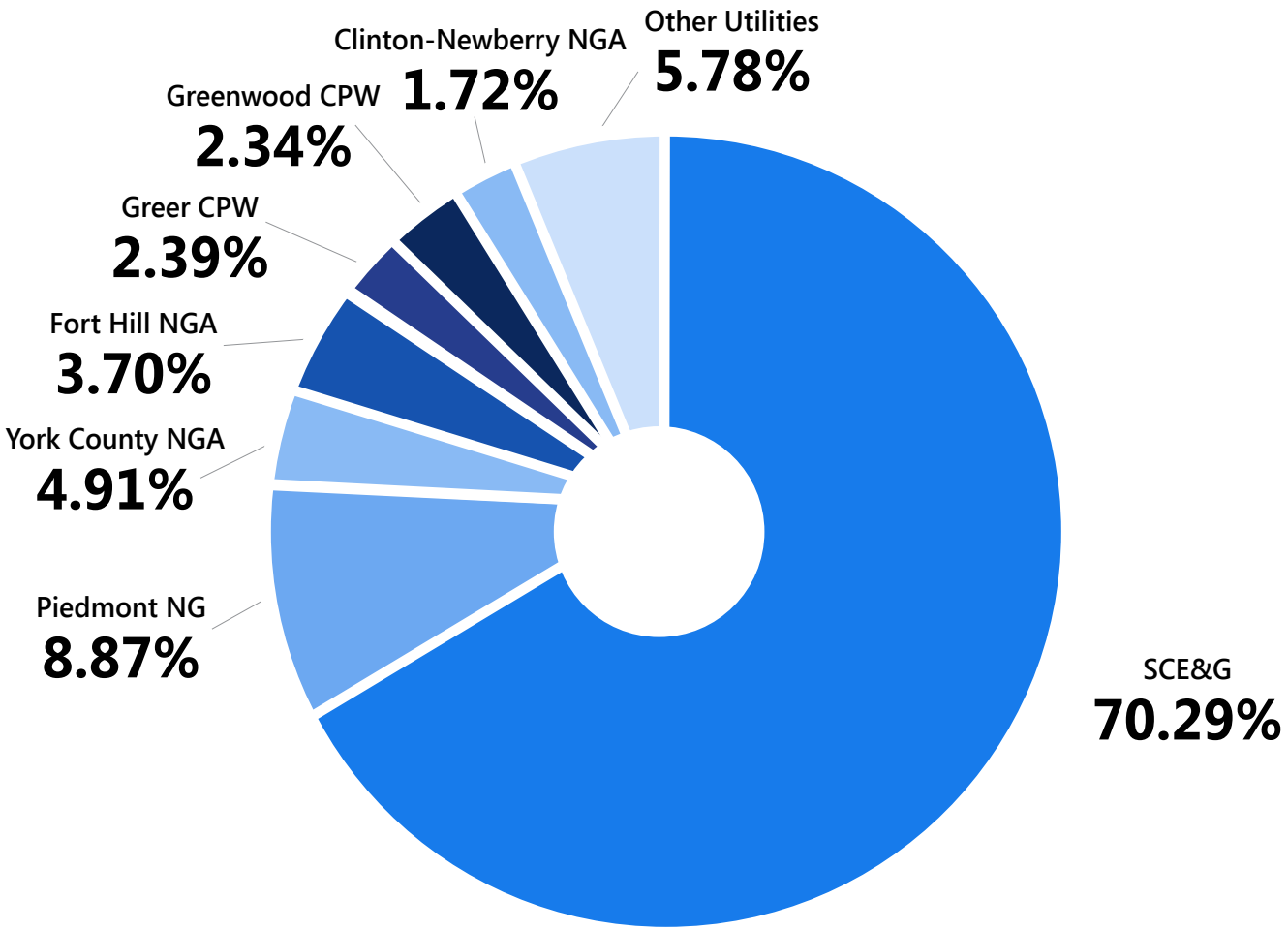
Source: U.S. Energy Information Administration, "Class of Ownership, Number of Consumers, Sales, Revenue, and Average Retail Price by State and Utility: All Sectors" www.eia.gov/electricity/sales_revenue_price

Natural Gas Distribution Utility Market Share
Number of Customers



Source: U.S. Energy Information Administration, Natural Gas Annual Respondent Query System (EIA-176 Data through 2015), www.eia.gov/cfapps/ngqs/ngqs.cfm?f_report=RP4&f_sortby=&f_items=&f_year_start=&f_year_end=&f_show_compid

Natural Gas Distribution Utility Market Share
Sales, in Thousand Cubic Feet



Source: U.S. Energy Information Administration, Natural Gas Annual Respondent Query System (EIA-176 Data through 2015), www.eia.gov/cfapps/ngqs/ngqs.cfm?f_report=RP4&f_sortby=&f_items=&f_year_start=&f_year_end=&f_show_compid

APPENDIX D

PURPA Qualifying Facilities

The Public Utilities Regulatory Policies Act of 1978 (PURPA) enables end users who generate power for their facilities to make any excess power available to the electric utilities supplying those users. PURPA also allows private companies to generate and to supply electricity to utilities if that power is generated using approved energy resources. "Qualifying facilities", as defined by PURPA, include both 1) small power production facilities using renewable fuel sources, such as wind, solar, hydroelectric, biomass, waste, or geothermal; and 2) cogeneration facilities that produce both electricity and thermal energy in a way that is more efficient than the separate production of both forms of energy. Utility companies are required to purchase power from qualifying facilities at a price equivalent to the avoided cost of additional generation. The purchase of electricity from qualifying facilities and other customer-owned generation helps utilities to offset growth in overall and peak demand.

Qualifying facilities are classified into two categories: 1) purchase, meaning that utilities purchase the power generated; and 2) displace, meaning that the power is used by the facility itself, displacing power that would otherwise be drawn from the electrical grid. As shown in the table below, qualifying facilities in South Carolina had the capacity to provide 613,514 kW of power as of December 2016.

SOUTH CAROLINA INVESTOR OWNED UTILITIES
COGENERATION/SMALL POWER PRODUCERS
PURCHASED UNDER PURPA

Utility	Project (formerly Plant Name)	Owner (formerly Plant Owner)	Location	Type Fuel	Rate Schedule	Purchase/ Displace	Planned/ Operate	Capacity kW
DEP	Invista Sarl	Invista Sarl	Camden	Coal	N/A	Displace	Operating	28,000
DEP	Sonoco Products Co	Sonoco Products	Hartsville	W/C	N/A	Displace	Operating	27,000
DEP	RockTenn CP, LLC - Biomass*	RockTenn CP, LLC	Unknown	Biomass	CSP	Purchase	Operating	10,000
DEP	Sumter Heat and Power, LLC - Biomass	Sumter Heat and Power, LLC	Sumter	Biogas	CSP	Purchase	Operating	1,546
DEP	Laney Development, Inc. - Solar	Laney Development, Inc.	Hartsville	Solar	CSP	Purchase	Operating	9
DEP	Eva Grey & James Anderson-Solar-House*	Eva Grey & James Anderson	Nichols	Solar	CSP	Purchase	Operating	6
DEP	Lloyd Fitzwater - Solar*	Lloyd Fitzwater	McBee	Solar	Negotiated (NC)	Purchase	Operating	5
DEP	Eva Grey & James Anderson-Solar-Barn*	Eva Grey & James Anderson	Nichols	Solar	CSP	Purchase	Operating	5
DEP	Darlington County Schools-Solar*	Darlington County Schools	Darlington	Solar	CSP	Purchase	Operating	4
Total								**66,575**

* denotes PURPA QF

Updated 12/21/16

SOUTH CAROLINA INVESTOR OWNED UTILITIES
COGENERATION/SMALL POWER PRODUCERS
PURCHASED UNDER PURPA

Utility	Project (formerly Plant Name)	Owner (formerly Plant Owner)	Location	Type Fuel	Rate Schedule	Purchase/ Displace	Planned/ Operate	Capacity kW
DEC	Cherokee County Cogeneration Partners LP - Other	Cherokee County Cogeneration Partners LP - NM	Gaffney	Natural Gas	Negotiated (SC)	Purchase	Operating	100,000
DEC	BMW	BMW Mfg Corp	Greer	Gas	HPX	Displace	Operating	10,000
DEC	Aquenergy Systems LLC-Ware Shoals-Hydroelectric	Aquenergy Systems, LLC - Ware Shoals	Ware Shoals	Hydroelectric	PP	Purchase	Operating	6,300
DEC	Cherokee Falls Hydroelectric, LLC-Hydro	Cherokee Falls Hydroelectric, LLC	Blacksburg	Hydroelectric	PP	Purchase	Operating	4,140
DEC	Northbrook Carolina Hydro - Holliday's Bridge	Northbrook Carolina Hydro, LLC - Hollidays Bridge - Hydro - NM	Belton	Hydroelectric	PP	Purchase	Operating	3,500
DEC	Pelzer Hydro Company Hydroelectric, LLC- Lower - Hydroelectric	Pelzer Hydro Company, LLC	Williamston	Hydroelectric	PP	Purchase	Operating	3,300
DEC	Greenville Gas Producer LLC-Landfill Gas	Greenville Gas Producer, LLC	Greer	Landfill Gas	PP	Purchase	Operating	3,200
DEC	Lockhart BioEnergy, LLC*	Lockhart BioEnergy, LLC	Enoree	Biomass	Negotiated (SC)	Purchase	Operating	3,200
DEC	Northbrook Carolina Hydro - Saluda	Northbrook Carolina Hydro, LLC - Greenville	Greenville	Hydroelectric	PP	Purchase	Operating	2,400
DEC	Pelzer Hydro Company,LLC-Hydroelectric-Upper	Pelzer Hydro Company,LLC	Anderson	Hydroelectric	PP	Purchase	Operating	2,020
DEC	Inman Mills LLC-Hydroelectric*	Inman Mills, LLC - NM	Enoree	Hydroelectric	PP	Purchase	Operating	1,600
DEC	Lockhart Power Company - Wellford - Landfill	Lockhart Power Company - NM	Wellford	Landfill Gas	Negotiated (SC)	Purchase	Operating	1,600
DEC	Northbrook Carolina Hydro LLC - Boyd's Mill - Hydro	Northbrook Carolina Hydro, LLC - Boyd's Mill - Hydro - NM	Laurens	Hydroelectric	PP	Purchase	Operating	1,500
DEC	Converse Energy Incorporated-Hydroelectric*	Converse Energy Incorporated - NM	Spartanburg	Hydroelectric	PP	Purchase	Operating	1,250
DEC	Lockhart Power Company - Upper Pacolet Hydro	Lockhart Power Company - Upper Pacolet Hydro	Pacolet	Hydroelectric	Negotiated (SC)	Purchase	Operating	1,100
DEC	Spartanburg Water System- Hydro	Spartanburg Water System - NM	Chesnee	Hydroelectric	PP	Purchase	Operating	1,000
DEC	Lockhart Minimum Flow Hydro	Lockhart Power Company - Minimum Flow Hydro	Lockhart	Hydroelectric		Purchase	Operating	800

* denotes PURPA QF

Updated 12/21/16

Utility	Project (formerly Plant Name)	Owner (formerly Plant Owner)	Location	Type Fuel	Rate Schedule	Purchase/ Displace	Planned/ Operate	Capacity kW
DEC	Lockhart Lower Pacolet - Hydro	Lockhart Power Company - Lower Pacolet Hydro	Pacolet	Hydroelectric	Negotiated (SC)	Purchase	Operating	800
DEC	Aquenergy Systems, LLC-Piedmont-Hydroelectric	Aquenergy Systems, LLC- Piedmont - Hydroelectric	Piedmont	Hydroelectric	PP	Purchase	Operating	600
DEC	Itron Inc.-Solar*	Itron Inc. - NM	West Union	Solar	PP	Purchase	Rehab	57
DEC	The Roper Group. LLC - Solar PP*	Roper Mountain Rd Selfstorage	Greenville	Solar	PP	Purchase	Operating	45
DEC	Clover School District 2- Solar*	Clover School District 2- NM	Clover	Solar	PP	Purchase	Operating	27
DEC	Greenville County Schools dba Roper MTN Science CNTR Park-Solar*	Greenville County Schools	Greenville	Solar	PP	Purchase	Operating	24
DEC	Yuze Holdings LLC - Solar*	Yuze Holdings LLC	Greenville	Solar	PP	Purchase	Operating	24
DEC	David Zimmer- Solar - PP	David Zimmer	Greenville	Solar	PP	Purchase	Operating	12
DEC	Bartron, Jarrod - Solar*	Bartron, Jarrod	Travelers Rest	Solar	PP	Purchase	Operating	8
DEC	Clark H. Mizell-Solar*	Clark H. Mizell	Gray Court	Solar	PP	Purchase	Operating	6
DEC	Karen Sturgis- Solar*	Karen Sturgis	Greenville	Solar	PP	Purchase	Operating	6
DEC	Thomas W. Bates-Solar*	Thomas W. Bates	Simpsonville	Solar	PP	Purchase	Operating	5
DEC	Betty Haygood - Solar*	Betty Haygood	Fountain Inn	Solar	PP	Purchase	Operating	5
DEC	Good Solar Electric LLC- Solar*	Good Solar Electric LLC	Greenville	Solar	PP	Purchase	Operating	5
DEC	Jody Fine-Solar*	Jody Fine	Ware Shoals	Solar	PP	Purchase	Operating	2
Total								**148,535**

* denotes PURPA QF

Updated 12/21/16

SOUTH CAROLINA INVESTOR OWNED UTILITIES
COGENERATION/SMALL POWER PRODUCERS
PURCHASED UNDER PURPA

Utility	Project (formerly Plant Name)	Owner (formerly Plant Owner)	Location	Type Fuel	Rate Schedule	Purchase/ Displace	Planned/ Operate	Capacity kW
SCE&G	International Paper Corp	International Paper Corp	Eastover	W/C	Contract	Purchase	Operating	97,500
SCE&G	Marine Corps Recruit Depot - Parris Island	Dept of Defense	Parris Island	Gas	N/A	Displace	Operating	3,000
SCE&G	Saluda Solar, LLC*	Cypress Creek Renewables	Saluda	Solar	Contract	Purchase	Operating	6,800
SCE&G	Barnwell Solar, LLC*	Pinegate	Barnwell	Solar	Contract	Purchase	Planned	5,440
SCE&G	Odyssey Solar, LLC*	Pinegate	Pelion	Solar	Contract	Purchase	Planned	8,160
SCE&G	Saluda Solar II, LLC *	Pinegate	Saluda	Solar	Contract	Purchase	Planned	3,400
SCE&G	Haley Solar, LLC*	Pinegate	Allendale	Solar	Contract	Purchase	Planned	8,160
SCE&G	Cameron Solar II, LLC*	Pinegate	Cameron	Solar	Contract	Purchase	Planned	4,080
SCE&G	Jerry Zucker Solar Park*	TIG Sun Energy III	North Charleston	Solar	Contract	Purchase	Operating	504
SCE&G	Ridgeland Solar Farm I, LLC*	Dominion	Ridgeland	Solar	Contract	Purchase	Planned	10,000
SCE&G	Hampton Solar I, LLC*	Pinegate	Hampton	Solar	Contract	Purchase	Planned	6,800
SCE&G	Southern Current One, LLC*	Pinegate	Fairfax	Solar	Contract	Purchase	Planned	10,200
SCE&G	Estill Solar II, LLC*	Cypress Creek Renewables	Estill	Solar	Contract	Purchase	Planned	10,200
SCE&G	St. Matthews Solar, LLC*	Pinegate	St. Matthews	Solar	Contract	Purchase	Planned	10,200
SCE&G	Gaston Solar I, LLC*	Cypress Creek Renewables	Gaston	Solar	Contract	Purchase	Planned	10,200
SCE&G	Estill Solar I, LLC*	Pinegate	Estill	Solar	Contract	Purchase	Planned	20,400
SCE&G	Hampton Solar II, LLC*	Cypress Creek Renewables	Hampton	Solar	Contract	Purchase	Planned	20,000
SCE&G	Gaston Solar II, LLC*	Pinegate	Gaston	Solar	Contract	Purchase	Planned	10,200
SCE&G	Champion Solar, LLC*	Pinegate	Pelion	Solar	Contract	Purchase	Planned	10,880
SCE&G	Swamp Fox Solar, LLC*	Pinegate	Pelion	Solar	Contract	Purchase	Planned	10,880
SCE&G	Cameron Solar, LLC*	Pinegate	Cameron	Solar	Contract	Purchase	Planned	20,000
SCE&G	Moffit Solar*	Dominion	Gillisonville	Solar	Contract	Purchase	Planned	71,400
SCE&G	Innovative Solar 84*	Innovative Solar	Allendale	Solar	Contract	Purchase	Planned	20,000
SCE&G	Innovative Solar 97*	Innovative Solar	Bamberg	Solar	Contract	Purchase	Planned	20,000
Total								**398,404**
Total for 65 stations								**613,514**

* denotes PURPA QF

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