SOUTH CAROLINA

ELECTRICITY CAPACITY AND GENERATION MIX

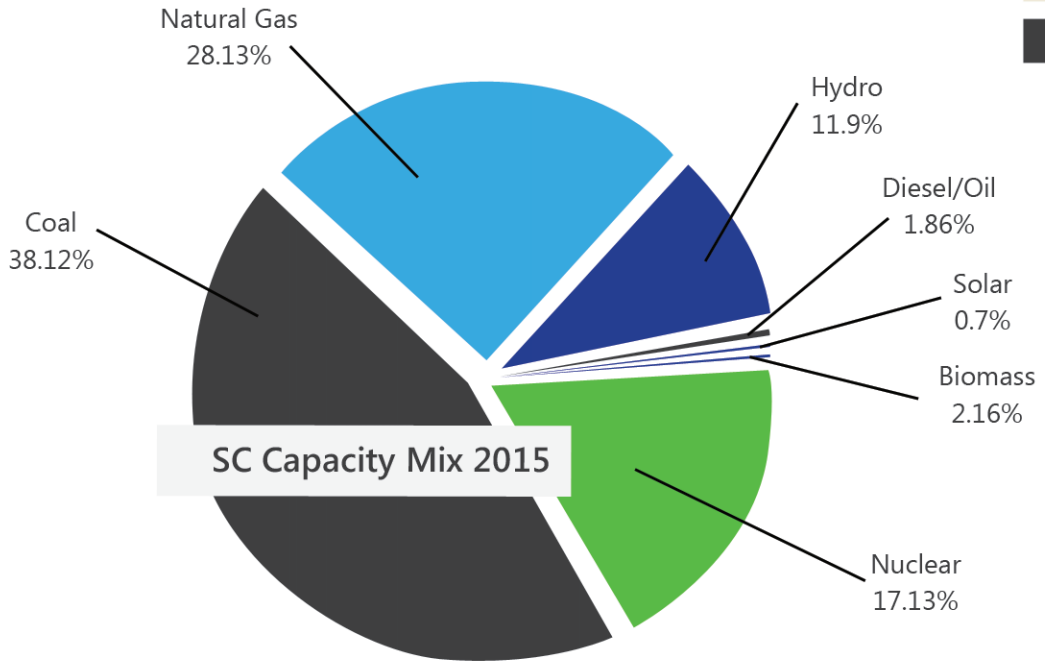
AT A GLANCE

Capacity Mix 2015

Capacity is the maximum electric output a generator can produce under specific conditions, measured in megawatts (MW). South Carolina maintains a diverse mix of generating resources known as its Capacity Mix.

South Carolina Statewide Capacity 2015	
Fuel	**MW**
Nuclear	3,428
Coal	7,629
Natural Gas	5,630
Hydro	2,382
Diesel/Oil	373
Solar	140
Biomass	431
TOTAL	**20,013**

Source: ORS Information Requests



NOTES:

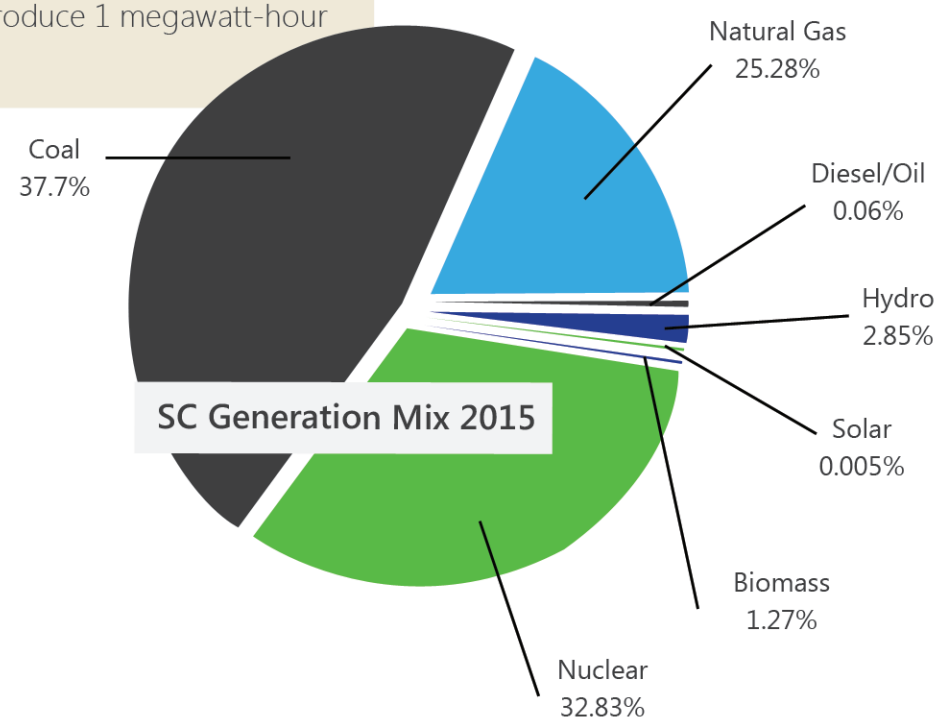
1. *South Carolina shares some of its generating resources with North Carolina; therefore, the Capacity Mix in this chart reflects only the portion of generating resources allocated to meet the needs of South Carolina customers.*
2. *Percentages may not total to 100% due to independent rounding.*

1401 Main Street, Suite 900
Columbia, SC 29201

ENERGY OFFICE

Generation Mix 2015

Generation is the amount of electricity a generator produces over a specific period of time, measured in megawatt-hours (MWH). For example, a generator with 1 megawatt (MW) capacity that operates at that capacity consistently for one hour will produce 1 megawatt-hour (MWH) of electricity.



South Carolina Statewide Generation 2015	
Fuel	**MWH**
Nuclear	27,513,355
Coal	31,590,680
Natural Gas	21,182,051
Diesel/Oil	50,603
Hydro	2,392,202
Solar	4,224
Biomass	1,060,960
TOTAL	**83,794,075**

Source: ORS Information Requests

South Carolina's electricity is produced by a diverse mix of generating resources known as its Generation Mix. These resources produce electricity to meet the demand of the using and consuming public. The order in which a generating resource is utilized varies based on a variety of factors, including fuel cost and unit availability.

NOTES:

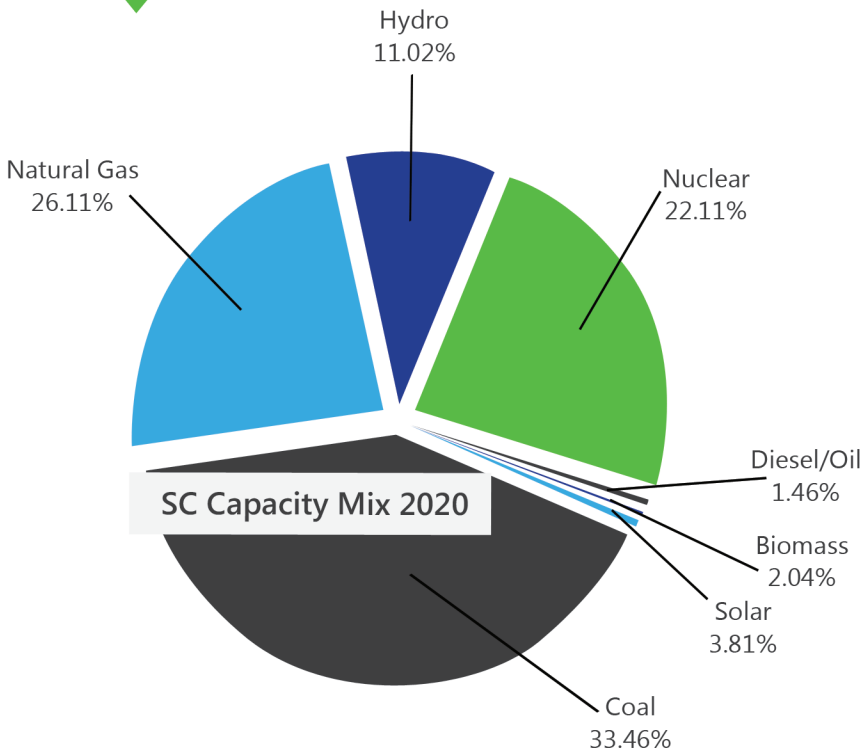
1. *South Carolina shares some of its generating resources with North Carolina; therefore, the Generation Mix in this chart reflects only the portion of electricity produced to meet the needs of South Carolina customers.*
2. *Percentages may not total to 100% due to independent rounding.*

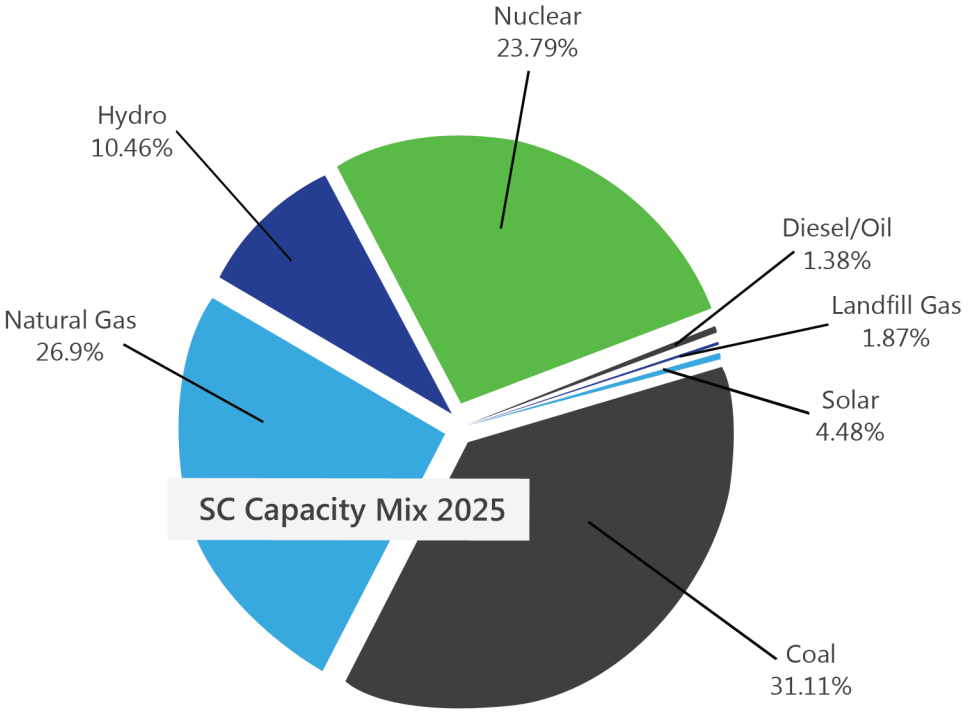
1401 Main Street, Suite 900
Columbia, SC 29201

5 and 10-year Anticipated Capacity Mix

South Carolina Statewide Capacity 2020	
Fuel	**MW**
Coal	7,603
Natural Gas	5,933
Hydro	2,503
Nuclear	5,022
Diesel/Oil	331
Biomass	464
Solar	865
TOTAL	**22,721**

Source: ORS Information Requests





South Carolina Statewide Capacity 2025	
Fuel	**MW**
Coal	7,445
Natural Gas	6,438
Hydro	2,503
Nuclear	5,693
Diesel/Oil	331
Biomass	448
Solar	1,072
TOTAL	**23,930**

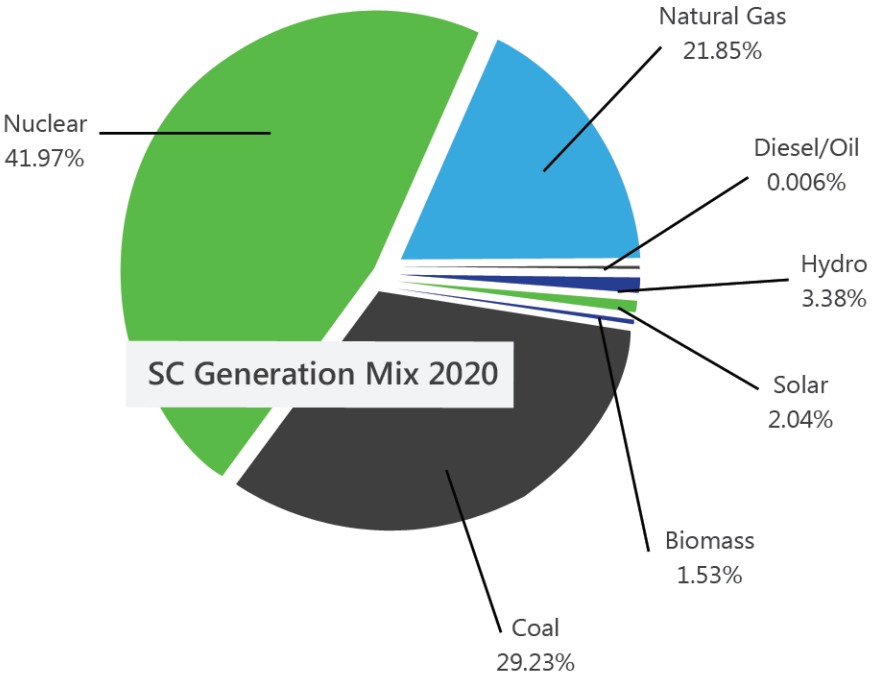
Source: ORS Information Requests

NOTES:

1. *South Carolina shares some of its generating resources with North Carolina; therefore, the Capacity Mix in this chart reflects only the portion of generating resources allocated to meet the needs of South Carolina customers.*

2. *Percentages may not total to 100% due to independent rounding.*

5 and 10-year Anticipated Generation Mix

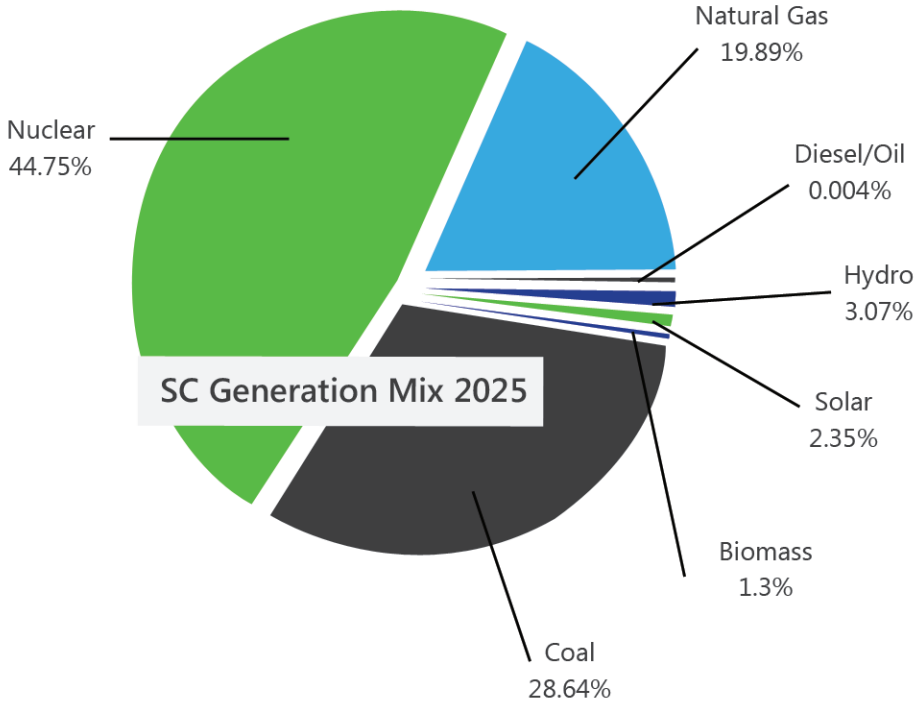


South Carolina Statewide Generation 2020	
Fuel	**MW**
Coal	26,331,746
Natural Gas	19,683,214
Hydro	3,042,251
Nuclear	37,810,212
Diesel/Oil	5,286
Biomass	1,380,110
Solar	1,837,380
TOTAL	**90,090,199**

Source: ORS Information Requests

South Carolina Statewide Generation 2025	
Fuel	**MW**
Coal	27,282,167
Natural Gas	18,941,883
Hydro	2,926,984
Nuclear	42,621,967
Diesel/Oil	3,360
Biomass	1,240,858
Solar	2,237,066
TOTAL	**95,254,285**

Source: ORS Information Requests



NOTES:

1. *South Carolina shares some of its generating resources with North Carolina; therefore, the Generation Mix in this chart reflects only the portion of electricity produced to meet the needs of South Carolina customers.*
2. *Percentages may not total to 100% due to independent rounding.*