

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Lake Murray 230/115 kV Sub Add 2nd Autotransformer

Project ID

0207

Project Description

Add a 2rd 230/115kV 336MVA Autotransformer at the Lake Murray Substation

Project Need

System load growth in Columbia and Lexington areas requires an additional 230/115kV transformation.

Project Status

Under Construction

Planned In-Service Date

5/1/2013

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$519,043	\$4,780,957	\$0	\$0	\$0	\$0	\$5,300,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Hagood Jct-Charlotte Street 115 kV Rebuild

Project ID

1721

Project Description

Rebuild Hagood-Charlotte Street 115 kV as double circuit 1272 ACSR

Project Need

System load growth in the Charleston Peninsula requires additional 115 kV transmission capacity. This project is required to meet NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Under Construction

Planned In-Service Date

5/1/2013

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$7,404,771	\$2,095,229	\$0	\$0	\$0	\$0	\$9,500,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Callawassie Convert from 46 kV to 115 kV

Project ID

0704

Project Description

Upgrade the Callawassie 46 kV to 115 kV

Project Need

Callawassie 46 kV substation is being upgraded to 115 kV (from Tom)

Project Status

Under Construction

Planned In-Service Date

8/1/2013

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$547,937	\$4,352,063	\$0	\$0	\$0	\$0	\$4,900,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Belvedere - Stevens Ck 115 kV Rebuild as Double Circuit

Project ID

0710

Project Description

Rebuild the Belvedere-Stevens Creek 115kV line as a double circuit with 1272 ACSR conductor.

Project Need

Load growth in the Belvedere and Stevens Creek area requires additional transmission capacity. This project is required to meet NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Under Construction

Planned In-Service Date

12/1/2013

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$4,142,439	\$1,557,561	\$0	\$0	\$0	\$0	\$5,700,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Bayview-Charlotte Street 115 kV #2 Underground Cable Construct

Project ID

0502

Project Description

Add 2nd underground cable from Bayview to Charlotte Street

Project Need

System load growth in Mt Pleasant area requires additional transmission capacity from the Charleston Peninsula.

Project Status

Under Construction

Planned In-Service Date

12/1/2013

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$427,606	\$4,672,394	\$0	\$0	\$0	\$0	\$5,100,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Faber Place Replace Switch House

Project ID

0106

Project Description

Replace switch house and relays at Faber Place substation

Project Need

Substation Maintenance and Equipment Upgrade

Project Status

Under Construction

Planned In-Service Date

12/1/2013

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$2,647,971	\$552,029	\$0	\$0	\$0	\$0	\$3,200,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Graniteville-Replace 2 46 kV PRCBs & add 2 230 kV HS Bank PRCBs

Project ID

0169

Project Description

Upgrade 46 kV Circuit Breakers and add 230 kV circuit breakers for new transformer

Project Need

xxx. This project is required to meet NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Under Construction

Planned In-Service Date

12/1/2013

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$1,766,377	\$333,623	\$0	\$0	\$0	\$0	\$2,100,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Hamlin - Isle of Palms 115 kV Underground Cable Construct

Project ID

0011

Project Description

Construct a new 115kV Line from Hamlin to Isle of Palms with 1272 ACSR equivalent capacity. There will be an overhead section and an underground cable section.

Project Need

Hamlin, Isle of Palms, and Osceola substations current have one-way feed service. This new line will give these heavily-loaded substations a second transmission source.

Project Status

Under Construction

Planned In-Service Date

12/1/2013

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$4,190,741	\$31,404,259	\$0	\$0	\$0	\$0	\$35,595,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Eutawville 115 kV Line Construct

Project ID

0083B

Project Description

Construct a 5 mile line from the St George-Santee 115kV line to the new Eutawville Substation

Project Need

System load growth requires additional transmission capacity in the area.

Project Status

Under Construction

Planned In-Service Date

5/1/2014

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$423,823	\$2,250,000	TBD	\$0	\$0	\$0	\$2,673,823

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Jack Primus 115 kV Line Construct

Project ID

0270

Project Description

Construct a new 115 kV line from the Thomas Island substation to the new Jack Primus substation with 1272 ACSR conductor.

Project Need

System load growth around Thomas Island requires additional transmission capacity in the area.

Project Status

Under Construction

Planned In-Service Date

5/1/2014

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$146,180	\$4,100,000	TBD	\$0	\$0	\$0	\$4,246,180

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

VCS1 add Back-to-Back Bus Tie Breakers between Buses 1 & 3

Project ID

0090

Project Description

Replace existing bus tie breaker between VCS-1 buses #1 and #3 with 90kA double bus tie breakers.

Project Need

NERC TPL Standard requirement.

Project Status

Under Construction

Planned In-Service Date

5/1/2014

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$6,323,960	\$93,243	TBD	\$0	\$0	\$0	\$6,417,203

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

VCS1 - Killian 230 kV Line Construct

Project ID

0090B, 0090B1, 0090B2, 0090B3, 0090B5, 0090D

Project Description

VC Summer to Killian 230 kV Transmission line.

Project Need

VCS Nuclear Unit #2 Interconnection Requirement. Distribute power from the generation to load while meeting NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Under Construction

Planned In-Service Date

12/1/14

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$46,220,814	\$4,276,295	\$787,600	\$0	\$0	\$0	\$51,284,709

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Bayview-Mt Pleasant 115 kV Line Rebuild

Project ID

1269A

Project Description

Upgrade the overhead portion of the Mt pleasant to Bayview 115kV line

Project Need

Load growth in the Isle of Palms and Hamlin areas require additional transmission capacity from the Mt Pleasant Source.

Project Status

Under Construction

Planned In-Service Date

12/1/2014

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$213,777	\$0	\$2,500,000	\$0	\$0	\$0	\$2,713,777

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Denny Terrace - Lyles 115 kV #1 and #2 Lines Upgrade

Project ID

0205A

Project Description

Upgrade both Lyles-Denny Terrace 115kV Lines #1 and #2 to Bundled-795 ACSR conductor.

Project Need

VCS Nuclear Unit #2 Interconnection Requirement. Distribute power from the generation to load while meeting NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Under Construction

Planned In-Service Date

12/1/14

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$2,500,000	\$0	\$0	\$0	\$2,500,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Faber Place-Hagood 115 kV #1 Line Upgrade

Project ID

1721G, 1721H

Project Description

Rebuild Faber Place to Hagood 115 kV #1 line

Project Need

System load growth in the Charleston area requires additional 115 kV transmission capacity.

Project Status

Under Construction

Planned In-Service Date

12/1/2014

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$218,353	\$0	\$2,000,000	\$0	\$0	\$0	\$2,218,353

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Denny Terrace - Lyles 230 kV Line Upgrade

Project ID

0090L

Project Description

Upgrade the Denny Terrace to Lyles 230kV Line to Bundled-1272 ACSR conductor

Project Need

VCS Nuclear Unit #2 Interconnection Requirement. Distribute power from the generation to load while meeting NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Under Construction

Planned In-Service Date

4/1/2015

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$592	\$363,718	\$2,680,975	\$2,538,236	\$0	\$0	\$5,583,521

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

VCS2 - Lake Murray 230 kV #2 Line Construct

Project ID

0090E, 0090G

Project Description

Construct a new 230 kV line from VC Summer #2 substation to Lake Murray with B-1272 ACSR

Project Need

VCS Nuclear Unit #2 Interconnection Requirement. Distribute power from the generation to load while meeting NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Under Construction

Planned In-Service Date

4/1/2015

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$12,515,796	\$23,025,759	TBD	\$0	\$0	\$0	\$35,541,555

South Carolina Electric and Gas Company
 Planned Transmission Projects greater than \$2M Total
 5 Year Budget

Aiken - Aiken Hampton 115 kV Line Upgrade

Project ID

1272A

Project Description

Upgrade the 115 kV line between Aiken and Aiken Hampton substations

Project Need

The line overloads under certain contingencies and needs additional capacity to continue providing reliable service to Aiken area load. This project is required to meet NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Planned

Planned In-Service Date

5/1/2015

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$57,403	\$0	\$0	\$2,000,000	\$0	\$0	\$2,057,403

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Burton-Yemassee 115 kV #2 Line Rebuild as Double Circuit

Project ID

1268A, 1268C

Project Description

Rebuild the Yemassee to Burton 115 kV #2 line as a double circuit with 1272 ACSR conductor

Project Need

Load growth in the Burton area requires additional transmission capacity from the Yemassee source.

Project Status

Planned

Planned In-Service Date

5/1/2015

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$642,711	\$0	\$5,000,000	\$9,400,000	\$0	\$0	\$15,042,711

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Okatie 230/115 kV Sub Construct and Line Upgrades

Project ID

0139A, 0139B

Project Description

Construct 230/115 kV substation at Okatie site and upgrade 115 kV circuit to Hardeeville

Project Need

System load growth in the Hardeeville and Bluffton areas require additional transmission capacity.

Project Status

Planned

Planned In-Service Date

5/1/2015

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$0	\$8,650,000	\$0	\$0	\$8,650,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Saluda River 230/115 kV Sub Construct and Line Upgrades

Project ID

0091N, 0091M, 0091O, 0091P, 0091S, 0091R

Project Description

Establish a new 230/115 kV substation in the West Columbia area along the corridor between Saluda Hydro and Lyles substations. Add a 336MVA autotransformer. Connect the future VCS-St George #1 230 kV line and four 115 kV lines on the substation site.

Project Need

The load growth in the Lexington, Irmo and Columbia areas requires an additional 230/115kV transformation to meet NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Planned

Planned In-Service Date

12/1/2015

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$3,337,276	\$948,876	\$11,893,521	\$4,753,039	\$0	\$0	\$20,932,712

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Urquhart Replace Switch House

Project ID

1060K

Project Description

Replace switch house and relays at the Urquhart substation

Project Need

Substation Maintenance and Equipment Upgrade

Project Status

Under Construction

Planned In-Service Date

12/1/2015

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$2,081,804	\$200,000	\$1,000,000	\$200,000	\$0	\$0	\$3,481,804

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

McMeekin Replace Switch House

Project ID

1060L

Project Description

Replace switch house and relays at the McMeekin substation

Project Need

Substation Maintenance and Equipment Upgrade

Project Status

Planned

Planned In-Service Date

12/1/2015

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$1,000,000	\$1,500,000	\$0	\$0	\$2,500,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Lake Murray-Harbison 115 kV Construct

Project ID

0203A, 0203B

Project Description

Construct Lake Murray to Harbison 115 kV line

Project Need

System load growth in the Irmo area requires an additional transmission source

Project Status

Planned

Planned In-Service Date

5/1/2016

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$0	\$0	\$4,525,000	\$0	\$4,525,000

South Carolina Electric and Gas Company
 Planned Transmission Projects greater than \$2M Total
 5 Year Budget

Urquhart - Graniteville 230 kV #2 Line Construct

Project ID

1275A

Project Description

Construct Urquhart to Graniteville 230 kV #2 line

Project Need

Load growth in the Aiken area requires additional transmission capacity. Constructing a new 230 kV line from Urquhart to Graniteville will provide an additional source needed during contingencies. This project is required to meet NERC TPL standards and SCE&G's Internal Planning Criteria

Project Status

Planned

Planned In-Service Date

5/1/2016

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$0	\$9,000,000	\$9,500,000	\$0	\$18,500,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Summerville upgrade 230/115 kV transformer & Relocate 224 MVA transformer

Project ID

1722A, 1725A

Project Description

Replace Summerville 224 MVA transformer with a 336 MVA transformer and relocate the 224 MVA transformer to the Ward substation

Project Need

Load growth in the Summerville area requires additional 230/115 kV transformation. This project is required to meet NERC TPL standards and SCE&G's internal Planning Criteria.

Project Status

Planned

Planned In-Service Date

5/1/2016

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$0	\$0	\$4,250,000	\$0	\$4,250,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Church Creek upgrade 230/115 kV transformer & relocate 224 MVA transformer

Project ID

1723A, 1724A

Project Description

Replace Church Creek 224 MVA transformer with a 336 MVA transformer and relocate the 224 MVA transformer to the Columbia Industrial Park substation

Project Need

Load growth in the Charleston area requires additional 230/115 kV transformation. This project is required to meet NERC TPL standards and SCE&G's internal Planning Criteria.

Project Status

Planned

Planned In-Service Date

5/1/2016

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$0	\$0	\$5,400,000	\$0	\$5,400,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Mt Pleasant-Osceola Park 115 kV Rebuild

Project ID

1726A, 1726B

Project Description

Rebuild Mt Pleasant to Osceola Park 115 kV

Project Need

System load growth in Isle of Palms and Hamlin areas require increased transmission capacity from Mt Pleasant.

Project Status

Planned

Planned In-Service Date

5/1/2016

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$0	\$400,000	\$3,900,000	\$0	\$4,300,000

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Pepperhill - Summerville 230 kV

Project ID

2600A

Project Description

Construct a new 230 kV line from Pepperhill to Summerville with B-1272 ACSR

Project Need

System load growth in the Pepperhill and Summerville areas require additional transmission capacity. This project is required to meet NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Planned

Planned In-Service Date

5/1/2016

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$202,544	\$0	\$0	\$200,000	\$6,000,000	\$0	\$6,402,544

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Cainhoy 230/115kV Sub Construct and Line Upgrades

Project ID

2499A, 2499H, 2499K, 2499L

Project Description

Establish a new 230/115 kV substation near the Cainhoy distribution substation, initially with one 230/115 kV 336 MVA transformer

Project Need

System load growth in the Cainhoy, Hamlin, Mt Pleasant, and Thomas Island areas require additional 230/115 kV transformation. This project is required to meet NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Planned

Planned In-Service Date

5/1/2017

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$56,011	\$10,700,000	\$1,000,000	\$8,000,000	\$7,150,000	\$11,700,000	\$38,606,011

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

VCS #2-St. George 230 kV Line #1 & #2

Project ID

0094D1, 0094D2, 0094D4, 0094D5, 0094D6, 0094D7, 0094D8, 0094D10, 0094D12, 0094D14, 0094D16, 0094D18

Project Description

Construct two 230 kV lines from VCS #2 to future St. George 230 kV switching station

Project Need

VCS Nuclear unit #3 Interconnection Requirement. Distribute power from the generation to load while meeting NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

Under Construction

Planned In-Service Date

5/1/2017

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$1,391,547	\$18,496,787	\$24,881,560	\$42,959,376	\$52,368,138	\$1,126,385	\$141,223,793

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

VCS #2-St. George required 115 kV rebuilds

Project ID

0094D9, 0094D11, 0094D13, 0094D15, 0094D17

Project Description

Rebuild 115 kV transmission lines located on common right-of-way with the VCS #2 to St. George 230 kV lines.

Project Need

VCS Nuclear Unit #3 Interconnection Requirement. Upgrade 115 kV transmission lines to accommodate 230 kV line construction.

Project Status

Planned

Planned In-Service Date

5/1/2017

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$147,173	\$0	\$1,490,630	\$14,272,137	\$30,255,895	\$7,199,640	\$53,365,754

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

St. George-Summerville 230 kV upgrade

Project ID

0094P

Project Description

Upgrade St. George to Summerville 230 kV to Bundled 1272 ACSR conductor.

Project Need

VCS Nuclear unit #3 Interconnection Requirement. Distribute power from the generation to load while meeting NERC TPL standards and SCE&G's Internal Planning Criteria

Project Status

Planned

Planned In-Service Date

5/1/2017

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$23,241	\$8,363,592	\$14,639,422	\$9,488,189	\$93,310	\$32,607,754

South Carolina Electric and Gas Company
 Planned Transmission Projects greater than \$2M Total
 5 Year Budget

St. George-Canadys 230 kV upgrade

Project ID

0094I, 009411

Project Description

Upgrade St. George to Canadys 230 kV to Bundled 1272 ACSR conductor.

Project Need

VCS Nuclear unit #3 Interconnection Requirement. Distribute power form the generation to load while meeting NERC TPL standards and SCE&G's Internal Planning Criteria

Project Status

Planned

Planned In-Service Date

5/1/2017

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$661,804	\$6,393,133	\$5,342,362	\$154,294	\$12,551,593

South Carolina Electric and Gas Company
Planned Transmission Projects greater than \$2M Total
5 Year Budget

Faber Place-Hagood 115 kV #2 construct and line upgrade

Project ID

1721K, 1721L, 1721M, 1721N

Project Description

Construct Faber Place to Hagood 115 kV #2 line

Project Need

System load growth in the Charleston area requires additional 115 kV transmission capacity.

Project Status

Planned

Planned In-Service Date

12/1/2017

Estimated Project Cost (\$)

Previous	2013	2014	2015	2016	2017	Total
\$0	\$0	\$0	\$0	\$0	\$5,450,000	\$5,450,000