RRE Available Total of

Timeline

Date of Event

EPR

EPR

12/22/2022

12/19/2022

9/20/2022

12/20/2022

12/11/2022

11/1/2021

??? ???

???

12/21/2022

10/31/2022

12/19/2022

12/7/2022

11/1/2022

12/2/2022

11/3/2022

6/6/2022

Prior t	o 12/23
Coal	1779
Gas	896
Hydro	400
Total	3075

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	Hour Ending	Capacity (MW)	RRE Derates (MW)	Timeline of Events		
23-Dec	12	21764	3108		-	
25 000	13	21764	3108		-	
	14	21764	3108			
	15	21764	3108			
	16	21764	3108			
	17	21572	3300	Smith U1 Failed Start @ 1652 (192MW)		
	18	21572	3300			
	19	21572	3300			
	20	21764	3108	Smith U1 RTS @ 2005 on Oil (192MW)		
	21	21764	3108			
	22	21764	3108			
	23	21405	3467	Dan River CC Derate @ 2351 (359MW)	359	
	24	21405	3467			
24-Dec	1	21405	3467			
	2	21405	3467			
	3	21080	3792	Roxboro U3 3B BFT Tripped @ 0230 (325MW)*	325	
	4	21063	3809	Note: Mountain Island 2 (17MW) failed to start 0418, RTS 0715		
	5	21063	3809	Lincoln 6 offline @ 0535 on oil, back online on gas @ 0559		
	6	21012	3860	Blewett U1,U2,U4 Failed Starts (51MW)	51	
	7	20679	4193	Mayo 1B Boiler Offline @ 0609 + FGD Issues (350MW)**	350	
	8	20665	4207	Clemson CHP Offline @0800 (14MW)		
	9	20392	4480	Smith PB4 Derate @ 0835 (273MW)	1085	Total
	10	20214	4658	Buck CC Low Gas Pressure (Transco) Derate @ 0945 (178MW)		
	11	20231	4641	Blewett U1 RTS @ 1105 (17MW)		
	12	20231	4641			
	13	20231	4641			Coal/G
	14	19546	5326	Rox 1&2 Derates @ 1358 (RX01 185MW, RX02 500MW)		
	15	19560	5312	Clemson CHP RTS @ 1415 (14MW)		
	16	19560	5312			
	17	19738	5134	Buck CC FLA @ 1700 (178MW)		
	18	19738	5134			
	19	19738	5134			
	20	20011	4861	Smith Unit 8 RTS @ 2005 (273MW)		
	21	20011	4861			
	22	20011	4861			
	23	20511	4361	Rox 2 Derate Ended @ 2300 (500MW)		
	24	20511	4361			
25-Dec	1	20870	4002	Dan River U9 RTS @ 0008 (359MW)		
	2	20775	4097	Mill Creek U7 Trip @ 0135 (95MW)		
	3	20710	4162	Rox 1 Derate Increased 185MW to 250MW @ 0305 (65MW)		
	4	20610	4262	Dan River CC Low Gas Pressure (Transco) Derate) @ 0300 (100MW)		
	5	20610	4262			
	6	20610	4262		1	
	7	20490	4382	Buck CC Low Gas Pressure (Transco) Derate @ 0700 (120MW)	1	
	8	20585	4287	Mill Creek U7 RTS @ 0735 (95MW)	1	
	9	20585	4287		1	
	10	20585	4287		1	
	11	20585	4287		1	
	L			1	-	

Coal/Gas	

Load Shed Hours Cold Weather Related Derates

<u>Unit</u>

Allen 1

Allen 5

Belews Creek 1

Cliffside 5

Marshall 1

Marshall 2

WS Lee

Bad Creek 3

Bear Creek 3

Mountain Island 1

Ninety-Nine Islands

Oxford 2

Rhodhiss 3

Mayo 1

Roxboro 3

Roxboro 4

Smith 2

Wayne 11

Walters 3

DEC

DEP

*Reduced Rox3 derate on 12/24 from 398MW to 325MW because the unit was already carrying a 73MW derate for the 3B6 mill rebuild

System Status Prior to 12/23/22 (3,108MW RRE Capacity Unavailable)

Derate

167

259

125

71

380

380

809

340

10

14

3

20

12

113

73

211

47

40

36

Note: RRE Installed Winter Capacity = 24,874 MW

Type

Planned

Planned

Forced

Forced

Forced

Forced

Forced

Planned

Planned

Planned

Planned

Forced

Planned

Forced

Forced

Forced

Forced

Forced

Forced

**Mayo derate encountered 12/24 was 350MW because unit was already carrying a 113MW derate for the A2 and A5 feeder issues

1	-			
	12	20585	4287	
	13	20585	4287	
	14	20585	4287	
	15	20585	4287	
	16	20585	4287	
	17	20805	4067	Buck CC and Dan River CC FLA @ 1645
	18	21105	3767	Roxboro 3 3B BFP RTS @1750
	19	21455	3417	Mayo 1B Boiler RTS @ 1830
	20	21455	3417	
	21	21455	3417	
	22	21455	3417	
	23	21705	3167	Rox 1 Derate Ended @ 2239
	24	21705	3167	
26-Dec	1	21705	3167	
	2	21855	3017	Marshall 2 RTS @ 0140 (150MW Capacity at morning peak)
	3	21660	3212	Wayne 14 Tripped @ 0248 (195MW)
	4	21660	3212	
	5	21855	3017	Wayne 14 RTS @ 0451 (195MW)
	6	21855	3017	
	7	21855	3017	
	8	21855	3017	
	9	21855	3017	
	10	21855	3017	
	11	21855	3017	
	12	21855	3017	
	13	21855	3017	
	14	21855	3017	
	15	21855	3017	
	16	21855	3017	
	17	21855	3017	
	18	22085	2787	Marshall 2 FLA
	19	21890	2787	
	20	21890	2787	
	21	22085	2787	
	22	22085	2787	
	23	22085	2787	
	24	22085	2787	

		TOTALC		25.042.5	2440.2		C 110/	
	CAR	TOTALS (R	RE+NGG)	35,913.5	3,110.3		1	CAR EFOR (RRE +NGG)
Jurisdiction	Station	Unit ID	Туре	2022 Winter Capacity (MW)	Derate (MW)	Forced vs Planned	Weather Related (Y/N)	Derate Details
DEC	Bad Creek	1	Hydro	420.0	0.0			
DEC	Bad Creek	2	Hydro	420.0	0.0			
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	N	Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third of the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.
DEC	Bad Creek	4	Hydro	340.0	0.0			
DEC	Bear Creek	1	Hydro	9.5	9.5	Planned	N	Planned outage
DEC	Bridgewater	1	Hydro	15.0	0.0			
DEC	Bridgewater	2	Hydro	15.0	0.0			
DEC	Bridgewater	3	Hydro	1.5	0.0			
DEC	Cedar Cliff	1	Hydro	6.4	0.0			
DEC	Cedar Cliff	2	Hydro	0.4	0.0			
DEC	Cedar Creek	1	Hydro	15.0	0.0			
DEC	Cedar Creek	2	, Hydro	15.0	0.0			
DEC	Cedar Creek	3	, Hydro	15.0	0.0			
DEC	Cowans Ford	1	, Hydro	81.0	0.0			
DEC	Cowans Ford	2	Hydro	81.0	0.0			
DEC	Cowans Ford	3	Hydro	81.0	0.0			
DEC	Cowans Ford	4	Hydro	81.0	0.0			
DEC	Dearborn	1	Hydro	14.0	0.0			
DEC	Dearborn	2	Hydro	14.0	0.0			
DEC	Dearborn	3	Hydro	14.0	0.0			
DEC	Fishing Creek	1	Hydro	11.0	0.0			
DEC	Fishing Creek	2	Hydro	10.0	0.0			
DEC	Fishing Creek	3	Hydro	10.0	0.0			
DEC	Fishing Creek	4	Hydro	11.0	0.0			
DEC	Fishing Creek	5	Hydro	9.0	0.0			
DEC	Great Falls	1	Hydro	0.0	0.0			
DEC	Great Falls	2	Hydro	0.0	0.0			
DEC	Great Falls	3	Hydro	0.0	0.0			
DEC	Great Falls	4	Hydro	0.0	0.0			
DEC	Great Falls	5	Hydro	0.0	0.0			
DEC	Great Falls	6	Hydro	0.0	0.0			
DEC	Great Falls	7	Hydro	0.0	0.0			
DEC		7	Hydro Hydro	0.0	0.0			
DEC	Great Falls			195.0	0.0			
DEC	Jocassee	1	Hydro	195.0	0.0			
	Jocassee	2	Hydro					
DEC	Jocassee	3	Hydro	195.0	0.0			
DEC	Jocassee	4	Hydro	195.0	0.0			
DEC	Keowee	1	Hydro	76.0	0.0			
DEC	Keowee	2	Hydro	76.0	0.0			
DEC	Lookout Shoals	1	Hydro	9.0	0.0			
DEC	Lookout Shoals	2	Hydro	9.0	0.0			

DEC	La alva et Charala	2	Linder	9.0	0.0	1		
DEC	Lookout Shoals	3	Hydro	9.0	0.0			
DEC	Mountain Island	1	Hydro	14.0	14.0	Planned	Ν	Planned outage
DEC	Mountain Island	2	Hydro	17.0	0.0			
DEC	Mountain			17.0				
DEC	Island	3	Hydro	17.0	0.0			
	Mountain	4	Hydro		0.0			
DEC	Island	4		17.0				
DEC	Nantahala	1	Hydro	45.0	0.0			
	Ninety-Nine	1	Hydro		0.0			
DEC	Islands	-	nyaro	4.2	0.0			
	Ninety-Nine	2	Hydro		0.0			
DEC	Islands	_		3.4				
	Ninety-Nine	3	Hydro		0.0			
DEC	Islands		,	4.2				
550	Ninety-Nine	4	Hydro	2.4	3.4	Planned	Ν	Planned outage
DEC	Islands			3.4				
DEC	Ninety-Nine	5	Hydro	0.0	0.0			
DEC	Islands Ninety-Nine			0.0				
DEC		6	Hydro	0.0	0.0			
DEC	Islands Oxford	1	Hydro	20.0	0.0			
DEC	Oxioiu	1	пушо	20.0	0.0			
DEC	Oxford	2	Hydro	20.0	20.0	Forced	Ν	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.
DEC	Queens Creek	1	Hydro	1.4	0.0			
DEC	Rhodhiss	1	Hydro	9.5	0.0			
DEC	Rhodhiss	2	Hydro	11.5	0.0			
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	N	TRSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23.
	Tennessee	1	Hydro		0.0			
DEC	Creek			11.5				
DEC	Thorpe	1	Hydro	19.7	0.0			
DEC	Tuckasegee	1	Hydro	2.5	0.0			
DEC	Wateree	1	Hydro	17.0	0.0			
DEC	Wateree	2	Hydro	17.0	0.0			
DEC	Wateree	3	Hydro	17.0	0.0			
DEC	Wateree	4	Hydro	17.0	0.0			
DEC DEC	Wateree	5	Hydro	6.0 18.0	0.0			
	Wylie	1	Hydro	18.0	0.0			
DEC DEC	Wylie Wylie	2	Hydro Hydro	18.0	0.0			
DEC	Wylie	3 4	Hydro	6.0	0.0			
DEC	Blewett	4	Hydro	4.0	0.0			
DEP	Blewett	2	Hydro	4.0	0.0			
DEP	Blewett	2	Hydro	4.0	0.0			
DEP	Blewett	4	Hydro	5.0	0.0			
	DIEWELL	4	Tiyuru	5.0	0.0			

DEP	Blewett	5	Hydro	5.0	0.0			
DEP	Blewett	6	Hydro	5.0	0.0			
DEP	Marshall	1	Hydro	2.0	0.0			
DEP	Marshall	2	Hydro	2.0	0.0			
DEP	Tillery	1	Hydro	21.0	0.0			
DEP	Tillery	2	Hydro	18.0	0.0			
DEP	Tillery	3	Hydro	21.0	0.0			
DEP	Tillery	4	Hydro	25.0	0.0			
DEP	Walters	1	Hydro	36.0	0.0			
DEP	Walters	2	Hydro	40.0	0.0			
DEP	Walters	3	Hydro	36.0	36.0	Planned	Ν	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.

[CAR TOTALS (RRE+NGG)		35,913.5	3,110.3		6.11%	CAR EFOR (RRE +NGG)	
Jurisdiction	Station	Unit ID	Туре	2022 Winter Capacity (MW)	Derate (MW)	Forced vs Planned		Derate Details
DEC	Bad Creek	1	Hydro	420.0	0.0			
DEC	Bad Creek	2	Hydro	420.0	0.0			
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	N	Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third of the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.
DEC	Bad Creek	4	Hydro	340.0	0.0			
DEC	Bear Creek	1	Hydro	9.5	9.5	Planned	N	Planned outage
DEC	Bridgewater	1	Hydro	15.0	0.0			
DEC	Bridgewater	2	Hydro	15.0	0.0			
DEC	Bridgewater	3	, Hydro	1.5	0.0			
DEC	Cedar Cliff	1	Hydro	6.4	0.0			
DEC	Cedar Cliff	2	Hydro	0.4	0.0			
DEC	Cedar Creek	1	Hydro	15.0	0.0			
DEC	Cedar Creek	2	Hydro	15.0	0.0			
DEC	Cedar Creek	3	Hydro	15.0	0.0		Ì	
DEC	Cowans Ford	1	Hydro	81.0	0.0			
DEC	Cowans Ford	2	Hydro	81.0	0.0			
DEC	Cowans Ford	3	Hydro	81.0	0.0			
DEC	Cowans Ford	4	Hydro	81.0	0.0			
DEC	Dearborn	1	Hydro	14.0	0.0			
DEC	Dearborn	2	Hydro	14.0	0.0			
DEC	Dearborn	3	Hydro	14.0	0.0			
DEC	Fishing Creek	1	Hydro	11.0	0.0			
DEC	Fishing Creek	2	Hydro	10.0	0.0			
DEC	Fishing Creek	3	Hydro	10.0	0.0			
DEC	Fishing Creek	4	Hydro	11.0	0.0			
DEC	Fishing Creek	5	Hydro	9.0	0.0			
DEC	Great Falls	1	Hydro	0.0	0.0			
DEC	Great Falls	2	Hydro	0.0	0.0			
DEC	Great Falls	3	Hydro	0.0	0.0			
DEC	Great Falls	4	Hydro	0.0	0.0			
DEC	Great Falls	5	Hydro	0.0	0.0			
DEC	Great Falls	6	Hydro	0.0	0.0			
DEC	Great Falls	7	Hydro	0.0	0.0			
DEC	Great Falls	8	Hydro	0.0	0.0			
DEC	Jocassee	1	Hydro	195.0	0.0			
DEC	Jocassee	2	Hydro	195.0	0.0			
DEC	Jocassee	3	Hydro	195.0	0.0			
DEC	Jocassee	4	Hydro	195.0	0.0			
DEC	Keowee	1	Hydro	76.0	0.0			
DEC	Keowee	2	Hydro	76.0	0.0			
DEC	Lookout Shoals	1	Hydro	9.0	0.0			
DEC	Lookout Shoals	2	Hydro	9.0	0.0			
DEC	Lookout Shoals	3	Hydro	9.0	0.0			
DEC	Mountain Island	1	Hydro	14.0	14.0	Planned	N	Planned outage
DEC	Mountain Island	2	Hydro	17.0	0.0			
DEC	Mountain Island	3	Hydro	17.0	0.0			

DEC Natisfield I Hydio A3.0 0.0 Image of the second		1					1		
Dec. Werky Nine blacks 1 Hydro 4.2 0.0 Image: Second	DEC	Mountain Island	4	Hydro	17.0	0.0			
OCC Nucley-Nine Islands I Nyfor O O I I DEC Offord 1 Hyfor 0.0 0.0 I I I N N Nucley-Nine Islands N Nucley-Nine Islands N	DEC	Nantahala	1	Hydro	45.0	0.0			
Dec. Nerty-Nice Marks A Hydro A A Mark DEC. Nicety-Nice Marks A Hydro A A Mark A Mark	DEC	Ninety-Nine Islands	1	Hydro	4.2	0.0			
Dec. Netsy-Mnet Shaled, A V Value Name Name </td <td>DEC</td> <td>Ninety-Nine Islands</td> <td>2</td> <td>Hydro</td> <td>3.4</td> <td>0.0</td> <td></td> <td></td> <td></td>	DEC	Ninety-Nine Islands	2	Hydro	3.4	0.0			
ONE Neety-Nine Sland I Hydro O.0 O.0 O.0 O.0 DEC Neety-Nine Sland 6 Hydro O.0 O.0 O.0 Neety-Nine Sland 6 Hydro O.0 O.0 O.0 O.0 O.0 D.0	DEC	Ninety-Nine Islands	3	Hydro	4.2	0.0			
DEC Ninety-Nine Islands 6 Hydro 0.0 0.0 0.0 0.0 DEC Ninety-Nine Islands 6 Hydro 0.0 0.0 N DEC Ninety-Nine Islands 1 Hydro 20.0 0.0 N Forced outage due to broken wicklet gate link, unit removed from service 12/21/22. Eslimated return to service per current COA is 1/1/23. DEC Ninety-Nine Islands 1 Hydro 5.5 0.0 N DEC Indentifies 1 Hydro 5.5 0.0 N Tesch outage due to broken wicklet gate link, unit removed from service 10/31/22. With an estimated return to service per current COA is 1/1/23. DEC Ninder TESL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23. DEC Ninder 1 Hydro 1.0 0.0 0.0 0.0 DEC Ninder 1.1 Hydro 1.0 0.0 0.0 0.0 DEC Wateree 1 Hydro 1.0 0.0 0.0 0.0 0.0 DEC	DEC	Ninety-Nine Islands	4	Hydro	3.4	3.4	Planned	Ν	Planned outage
International constraints Outor Ou	DEC	Ninety-Nine Islands	5	Hydro	0.0	0.0			
DFC Oxford 2 Hydro 20.0 Forced N Forced outage due to broken wicket gate link, unit removed from service 1/21/122. Estimated return to service per current COA is 1/3/23. DFC Brodhisis 1 Hydro 9.5 0.0 Image: Coal Amage:									
Image Concent Streek 1 Hydro 1.4 0.0 Image Image <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
DFC Rhodhiss 1 Hydro 9.5 0.0 Image: constraint of the second of the secon							Forced	N	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.
DEC Rhodhiss 2 Hydro 11.5 0.0 Image: Control of the service o									
DEC Rbdhis 3 Hydro 12.4 Planed N TSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23. DEC Thorpe 1 Hydro 119.7 0.0 Image: Construction of the service 10/31/22 with an estimated RTS of 5/26/23. DEC Thorpe 1 Hydro 19.7 0.0 Image: Construction of the service 10/31/22 with an estimated RTS of 5/26/23. DEC Thorpe 1 Hydro 19.7 0.0 Image: Construction of the service 10/31/22 with an estimated RTS of 5/26/23. DEC Wateree 1 Hydro 12.0 0.0 Image: Construction of the service 10/31/22 with an estimated RTS of 5/26/23. DEC Wateree 1 Hydro 12.0 0.0 Image: Construction of the service 10/31/22 with an estimated RTS of 5/26/23. DEC Wateree 4 Hydro 17.0 0.0 Image: Construction of the service 10/31/22 with an estimated RTS of 5/26/23. DEC Wateree 4 Hydro 17.0 0.0 Image: Construction of the service 10/31/22 with an estimated RTS of 5/26/23. DEC Wa									
DEC Tennesse Creek 1 Hydro 11.5 0.0 DEC Tackasege 1 Hydro 19.7 0.0 DEC Tackasege 1 Hydro 12.5 0.0 DEC Wateree 1 Hydro 17.0 0.0 DEC Wateree 3 Hydro 17.0 0.0 DEC Wateree 3 Hydro 17.0 0.0 DEC Wateree 3 Hydro 17.0 0.0 DEC Wateree 4 Hydro 17.0 0.0 DEC Wateree 5 Hydro 18.0 0.0 DEC Wateree 1 Hydro 18.0 0.0 DEC Wylie 3 Hydro 18.0 0.0 DEC Wylie 4 Hydro 6.0 0.0 DEP Blewett 1 Hydro 5.0 0.0 DEP Blewett 5 Hyd									
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DEC Wylie 4 Hydro 6.0 0.0 Image: constraint of the symbol o	DEC		2	Hydro					
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DEPBlewett5Hydro5.00.0DEPBlewett6Hydro5.00.0DEPMarshall1Hydro2.00.0DEPMarshall2Hydro2.00.0DEPMarshall2Hydro2.00.0DEPTillery1Hydro21.00.0DEPTillery2Hydro18.00.0DEPTillery3Hydro21.00.0DEPTillery3Hydro21.00.0DEPTillery3Hydro21.00.0DEPTillery3Hydro25.00.0DEPTillery4Hydro36.00.0DEPWalters1Hydro36.00.0DEPWalters2Hydro0.00.0DEPWalters2Hydro0.0		Blewett		Hydro					
DEP Blewett 6 Hydro 5.0 0.0 Image: constraint of the state of		Blewett		Hydro					
DEPMarshall1Hydro2.00.00.0DEPMarshall2Hydro2.00.00.0DEPTillery1Hydro21.00.00.0DEPTillery2Hydro18.00.00.0DEPTillery3Hydro21.00.00.0DEPTillery3Hydro25.00.00.0DEPTillery4Hydro25.00.00.0DEPWalters1Hydro36.00.00.0DEPWalters2Hydro40.00.00.0	DEP	Blewett	5	Hydro		0.0			
DEP Marshall 2 Hydro 2.0 0.0 Image: Constraint of the system of the syste			6	Hydro					
DEP Tillery 1 Hydro 21.0 0.0 0.0 DEP Tillery 2 Hydro 18.0 0.0 0.0 DEP Tillery 3 Hydro 21.0 0.0 0.0 DEP Tillery 3 Hydro 21.0 0.0 0.0 0.0 DEP Tillery 4 Hydro 25.0 0.0 0.0 0.0 DEP Walters 1 Hydro 36.0 0.0 0.0 0.0 DEP Walters 2 Hydro 36.0 0.0 0.0 0.0	DEP	Marshall	1	Hydro	2.0	0.0			
DEP Tillery 1 Hydro 21.0 0.0 0.0 DEP Tillery 2 Hydro 18.0 0.0 0.0 DEP Tillery 3 Hydro 21.0 0.0 0.0 DEP Tillery 3 Hydro 21.0 0.0 0.0 0.0 DEP Tillery 4 Hydro 25.0 0.0 0.0 0.0 DEP Walters 1 Hydro 36.0 0.0 0.0 0.0 DEP Walters 2 Hydro 36.0 0.0 0.0 0.0	DEP		2			0.0			
DEP Tillery 3 Hydro 21.0 0.0 0.0 DEP Tillery 4 Hydro 25.0 0.0 0.0 DEP Walters 1 Hydro 36.0 0.0 0.0 DEP Walters 2 Hydro 0.0 0.0 0.0	DEP	Tillery	1			0.0			
DEP Tillery 4 Hydro 25.0 0.0 DEP Walters 1 Hydro 36.0 0.0 DEP Walters 2 Hydro 40.0 0.0	DEP	Tillery	2	Hydro	18.0	0.0			
DEP Tillery 4 Hydro 25.0 0.0 DEP Walters 1 Hydro 36.0 0.0 DEP Walters 2 Hydro 40.0 0.0	DEP		3	Hydro					
DEP Walters 1 Hydro 36.0 0.0 DEP Walters 2 Hydro 40.0 0.0 40.0 0.0	DEP		4	-		0.0			
DEP Walters 2 Hydro 40.0 0.0 0.0	DEP		1	Hydro	36.0	0.0			
	DEP		2			0.0			
	DEP	Walters	3	, Hydro		36.0	Planned	N	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.

	CAR TOTALS (RRE+NGG)		35,910.5	4,493.8		10.14%	CAR EFOR (RRE +NGG)	
Jurisdiction	Station	Unit ID	Туре	2022 Winter Capacity (MW)	Derate (MW)	Forced vs Planned	Weather Related (Y/N)	Dorate Detaile
DEC	Bad Creek	1	Hydro	420.0	0.0			
DEC	Bad Creek	2	Hydro	420.0	0.0			
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	N	Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third of the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.
DEC	Bad Creek	4	Hydro	340.0	0.0			the four units at bad creek undergoing this mult year upgrade / www.uprate.project.
DEC	Bear Creek	1	Hydro	9.5	9.5	Planned	N	Planned outage
DEC	Bridgewater	1	Hydro	15.0	0.0	Tidiffed	IN	
DEC	Bridgewater	2	Hydro	15.0	0.0			
	Bridgewater	3	Hydro	1.5	0.0			
DEC	Cedar Cliff	1	Hydro	6.4	0.0			
DEC	Cedar Cliff	2	Hydro	0.4	0.0			
DEC	Cedar Creek	1	Hydro	15.0	0.0			
DEC	Cedar Creek	2	Hydro	15.0	0.0			
DEC	Cedar Creek	3	Hydro	15.0	0.0			
DEC	Cowans Ford	1	Hydro	81.0	0.0			
DEC	Cowans Ford	2	Hydro	81.0	0.0			
DEC	Cowans Ford	3	,	81.0	0.0			
DEC	Cowans Ford	4	Hydro Hydro	81.0	0.0			
DEC	Dearborn	4	Hydro	14.0	0.0			
DEC	Dearborn	2		14.0	0.0			
DEC	Dearborn	3	Hydro	14.0	0.0		-	
DEC		3	Hydro	14.0	0.0		-	
DEC	Fishing Creek Fishing Creek	2	Hydro	10.0	0.0		-	
DEC	Fishing Creek	3	Hydro Hydro	10.0	0.0		-	
	Fishing Creek	4	,	10.0	0.0			
DEC	Fishing Creek	5	Hydro	9.0	0.0		-	
DEC		1	Hydro	0.0	0.0		-	
DEC	Great Falls Great Falls	2	Hydro Hydro	0.0	0.0		-	
DEC		3	,	0.0	0.0		-	
DEC	Great Falls	4	Hydro	0.0	0.0		-	
DEC	Great Falls Great Falls	4	Hydro	0.0	0.0			
DEC			Hydro	0.0	0.0			
	Great Falls	6	Hydro		0.0			
DEC	Great Falls	7	Hydro	0.0	0.0			
DEC	Great Falls	8	Hydro	0.0				
DEC	Jocassee	1	Hydro	195.0	0.0			
DEC DEC	Jocassee	2	Hydro	195.0	0.0			
	Jocassee	3	Hydro	195.0	0.0			
DEC	Jocassee	4	Hydro	195.0				
DEC	Keowee	1	Hydro	76.0	0.0			
DEC	Keowee	2	Hydro	76.0	0.0			
DEC	Lookout Shoals	1	Hydro	9.0	0.0			
DEC	Lookout Shoals	2	Hydro	9.0	0.0			
DEC	Lookout Shoals	3	Hydro	9.0	0.0			
DEC	Mountain Island	1	Hydro	14.0	14.0	Planned	N	Planned outage
DEC	Mountain Island	2	Hydro	14.0	0.0	Forced	Y	Startup failure occured at 0418 (12/24) due to cold air coming into building through outage access creating cold oil. Unit returned to service at 0715 (12/24).

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DEC	Mountain Island	3	Hydro	17.0	0.0			
DEC	Mountain Island	4	Hydro	17.0	0.0			
DEC	Nantahala	1	Hydro	45.0	0.0			
DEC	Ninety-Nine Islands	1	Hydro	4.2	0.0			
DEC	Ninety-Nine Islands	2	Hydro	3.4	0.0			
DEC	Ninety-Nine Islands	3	Hydro	4.2	0.0			
DEC	Ninety-Nine Islands	4	Hydro	3.4	3.4	Planned	N	Planned outage
DEC	Ninety-Nine Islands	5	Hydro	0.0	0.0			
	Ninety-Nine Islands	6	Hydro	0.0	0.0			
DEC	Oxford	1	Hydro	20.0	0.0			
DEC	Oxford	2	Hydro	20.0	20.0	Forced	N	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.
DEC	Queens Creek	1	Hydro	1.4	0.0			
DEC	Rhodhiss	1	Hydro	9.5	0.0			
DEC	Rhodhiss	2	Hydro	11.5	0.0			
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	Ν	TRSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23.
DEC	Tennessee Creek	1	Hydro	11.5	11.5	Forced	N	Faulty contact on breaker door prevented start permissive at 0500 (12/24). Repair was performed and unit returned to service at 0905 (12/24).
DEC	Thorpe	1	Hydro	19.7	0.0			
DEC	Tuckasegee	1	Hydro	2.5	0.0			
DEC	Wateree	1	Hydro	17.0	0.0			
DEC	Wateree	2	Hydro	17.0	0.0			
DEC	Wateree	3	Hydro	17.0	0.0			
	Wateree	4	Hydro	17.0	0.0			
DEC	Wateree	5	Hydro	6.0	0.0			
DEC	Wylie	1	Hydro	18.0	0.0			
DEC	Wylie	2	Hydro	18.0	0.0			
DEC	Wylie	3	Hydro	18.0	0.0			
DEC	Wylie	4	Hydro	6.0	0.0			
DEP	Blewett	1	Hydro	4.0	0.0			
DEP	Blewett	2	Hydro	4.0	0.0			
DEP	Blewett	3	Hydro	4.0	0.0			
DEP	Blewett	4	Hydro	5.0	0.0			
DEP	Blewett	5	Hydro	5.0	0.0			
DEP	Blewett	6	Hydro	5.0	0.0			
DEP	Marshall	1	Hydro	2.0	0.0			
DEP	Marshall	2	Hydro	2.0	0.0			
DEP	Tillery	1	Hydro	21.0	0.0			
DEP	Tillery	2	Hydro	18.0	0.0			
DEP	Tillery	3	Hydro	21.0	0.0			
DEP	Tillery	4	Hydro	25.0	0.0			
DEP	Walters	1	Hydro	36.0	0.0			
DEP	Walters	2	Hydro	40.0	0.0			
DEP	Walters	3	Hydro	36.0	36.0	Planned	Ν	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.

			TOTALS	35,913.5	4,272.3		0 550/	CAR EFOR (RRE +NGG)
			TUTALS	-	4,272.3	Formedium		
Jurisdiction	Station	Unit ID	Туре	2022 Winter Capacity (MW)	Derate (MW)	Forced vs Planned	Weather Related (Y/N)	Derate Details
DEC	Bad Creek	1	Hydro	420.0	0.0			
DEC	Bad Creek	2	Hydro	420.0	0.0			
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	Ν	Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third of the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.
DEC	Bad Creek	4	Hydro	340.0	0.0			
DEC	Bear Creek	1	Hydro	9.5	9.5	Planned	N	Planned outage
	Bridgewater	1	Hydro	15.0	0.0			
	Bridgewater	2	Hydro	15.0	0.0			
	Bridgewater	3	Hydro	1.5	0.0			
DEC	Cedar Cliff	1	Hydro	6.4	0.0			
	Cedar Cliff	2	Hydro	0.4	0.0			
	Cedar Creek	1	, Hydro	15.0	0.0			
	Cedar Creek	2	Hydro	15.0	0.0			
	Cedar Creek	3	Hydro	15.0	0.0			
	Cowans Ford	1	, Hydro	81.0	0.0			
	Cowans Ford	2	Hydro	81.0	0.0			
	Cowans Ford	3	Hydro	81.0	0.0			
DEC	Cowans Ford	4	Hydro	81.0	0.0			
	Dearborn	1	Hydro	14.0	0.0			
	Dearborn	2	Hydro	14.0	0.0			
	Dearborn	3	Hydro	14.0	0.0			
	Fishing Creek	1	Hydro	11.0	0.0			
	Fishing Creek	2	Hydro	10.0	0.0			
	Fishing Creek	3	Hydro	10.0	0.0			
	Fishing Creek	4	Hydro	11.0	0.0			
	Fishing Creek	5	Hydro	9.0	0.0			
	Great Falls	1	Hydro	0.0	0.0			
	Great Falls	2	Hydro	0.0	0.0			
	Great Falls	3	Hydro	0.0	0.0			
	Great Falls	4	Hydro	0.0	0.0			
-	Great Falls	5	Hydro	0.0	0.0			
	Great Falls	6	Hydro	0.0	0.0			
	Great Falls	7	Hydro	0.0	0.0			
	Great Falls	8	Hydro	0.0	0.0		1	
	Jocassee	1	Hydro	195.0	0.0		1	
	Jocassee	2	Hydro	195.0	0.0			
	Jocassee	3	Hydro	195.0	0.0			
	Jocassee	4	Hydro	195.0	0.0			
	Keowee	1	Hydro	76.0	0.0			
	Keowee	2	Hydro	76.0	0.0			
	Lookout	1	Hydro	9.0	0.0			
	Lookout	2	Hydro	9.0	0.0			
DEC	Lookout	3	Hydro	9.0	0.0			
	Mountain	1	Hydro	14.0	14.0	Planned	N	Planned outage
	Mountain	2	Hydro	14.0	0.0	Flaimed	IN	
							+	
DEC	Mountain	3	Hydro	17.0	0.0			

DEC	Mountain	4	Hydro	17.0	0.0			
DEC	Nantahala	1	Hydro	45.0	0.0			
DEC	Ninety-Nine	1	Hydro	4.2	0.0			
DEC	Ninety-Nine	2	Hydro	3.4	0.0			
DEC	Ninety-Nine	3	Hydro	4.2	0.0			
DEC	Ninety-Nine	4	Hydro	3.4	3.4	Planned	N	Planned outage
DEC	Ninety-Nine	5	Hydro	0.0	0.0			
DEC	Ninety-Nine	6	Hydro	0.0	0.0			
DEC	Oxford	1	Hydro	20.0	0.0			
DEC	Oxford	2	Hydro	20.0	20.0	Forced	N	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.
DEC	Queens Creek	1	Hydro	1.4	0.0			
DEC	Rhodhiss	1	Hydro	9.5	0.0			
DEC	Rhodhiss	2	Hydro	11.5	0.0			
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	N	TRSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23.
DEC	Tennessee	1	Hydro	11.5	0.0			
DEC	Thorpe	1	Hydro	19.7	0.0			
DEC	Tuckasegee	1	Hydro	2.5	0.0			
DEC	Wateree	1	Hydro	17.0	0.0			
DEC	Wateree	2	Hydro	17.0	0.0			
DEC	Wateree	3	Hydro	17.0	0.0			
DEC	Wateree	4	Hydro	17.0	0.0			
DEC	Wateree	5	Hydro	6.0	0.0			
DEC	Wylie	1	Hydro	18.0	0.0			
DEC	Wylie	2	Hydro	18.0	0.0			
DEC	Wylie	3	Hydro	18.0	0.0			
DEC	Wylie	4	Hydro	6.0	0.0			
DEP	Blewett	1	Hydro	4.0	0.0			
DEP	Blewett	2	Hydro	4.0	0.0			
DEP	Blewett	3	Hydro	4.0	0.0			
DEP	Blewett	4	Hydro	5.0	0.0			
DEP	Blewett	5	Hydro	5.0	0.0			
DEP	Blewett	6	Hydro	5.0	0.0			
DEP	Marshall	1	Hydro	2.0	0.0			
DEP	Marshall	2	Hydro	2.0	0.0			
DEP	Tillery	1	Hydro	21.0	0.0			
DEP	Tillery	2	Hydro	18.0	0.0			
DEP	Tillery	3	Hydro	21.0	0.0			
DEP	Tillery	4	Hydro	25.0	0.0			
DEP	Walters	1	, Hydro	36.0	0.0			
DEP	Walters	2	, Hydro	40.0	0.0			
DEP	Walters	3	Hydro	36.0	36.0	Planned	N	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.

			TOTALS	35,913.5	3,002.3		5 7/0/	CAR EFOR (RRE +NGG)
			TUTALS	2022 Winter		Forced vs	5.74%	
Jurisdiction	Station	Unit ID	Туре	Capacity (MW)	Derate (MW)	Planned		Derate Details
DEC	Bad Creek	1	Hydro	420.0	0.0	Flaimeu	(V/NI)	
DEC	Bad Creek	2	Hydro	420.0	0.0			
DEC	Bau Creek	2	пушо	420.0	0.0			Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third of
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	N	the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.
DEC	Bad Creek	4	Hydro	340.0	0.0			
	Bear Creek	1	Hydro	9.5	9.5	Planned	N	Planned outage
	Bridgewater	1	Hydro	15.0	0.0			
DEC	Bridgewater	2	Hydro	15.0	0.0			
DEC	Bridgewater	3	Hydro	1.5	0.0			
	Cedar Cliff	1	Hydro	6.4	0.0			
DEC	Cedar Cliff	2	Hydro	0.4	0.0			
DEC	Cedar Creek	1	Hydro	15.0	0.0			
DEC	Cedar Creek	2	Hydro	15.0	0.0			
DEC	Cedar Creek	3	Hydro	15.0	0.0			
DEC	Cowans Ford	1	Hydro	81.0	0.0			
DEC	Cowans Ford	2	Hydro	81.0	0.0			
DEC	Cowans Ford	3	Hydro	81.0	0.0			
DEC	Cowans Ford	4	Hydro	81.0	0.0			
DEC	Dearborn	1	Hydro	14.0	0.0			
DEC	Dearborn	2	Hydro	14.0	0.0			
	Dearborn	3	Hydro	14.0	0.0			
DEC	Fishing Creek	1	Hydro	11.0	0.0			
DEC	Fishing Creek	2	Hydro	10.0	0.0			
DEC	Fishing Creek	3	Hydro	10.0	0.0			
DEC	Fishing Creek	4	Hydro	11.0	0.0			
DEC	Fishing Creek	5	Hydro	9.0	0.0			
DEC	Great Falls	1	Hydro	0.0	0.0			
DEC	Great Falls	2	Hydro	0.0	0.0			
DEC	Great Falls	3	Hydro	0.0	0.0			
DEC	Great Falls	4	Hydro	0.0	0.0			
DEC	Great Falls	5	Hydro	0.0	0.0			
DEC	Great Falls	6	Hydro	0.0	0.0			
	Great Falls	7	Hydro	0.0	0.0			
DEC	Great Falls	8	Hydro	0.0	0.0			
DEC	Jocassee	1	Hydro	195.0	0.0			
DEC	Jocassee	2	Hydro	195.0	0.0			
DEC	Jocassee	3	Hydro	195.0	0.0			
DEC	Jocassee	4	Hydro	195.0	0.0			
DEC	Keowee	1	Hydro	76.0	0.0			
DEC	Keowee	2	Hydro	76.0	0.0			
DEC	Lookout	1	Hydro	9.0	0.0			
DEC	Lookout	2	Hydro	9.0	0.0			
DEC	Lookout	3	Hydro	9.0	0.0			
DEC	Mountain	1	Hydro	14.0	14.0	Planned	Ν	Planned outage
DEC	Mountain	2	Hydro	17.0	0.0			
DEC	Mountain	3	Hydro	17.0	0.0			

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DEC	Mountain	4	Hydro	17.0	0.0			
DEC	Nantahala	1	Hydro	45.0	0.0			
DEC	Ninety-Nine	1	Hydro	4.2	0.0			
DEC	Ninety-Nine	2	Hydro	3.4	0.0			
DEC	Ninety-Nine	3	Hydro	4.2	0.0			
DEC	Ninety-Nine	4	Hydro	3.4	3.4	Planned	N	Planned outage
DEC	Ninety-Nine	5	Hydro	0.0	0.0			
DEC	Ninety-Nine	6	Hydro	0.0	0.0			
DEC	Oxford	1	Hydro	20.0	0.0			
DEC	Oxford	2	Hydro	20.0	20.0	Forced	N	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.
DEC	Queens	1	Hydro	1.4	0.0			
DEC	Rhodhiss	1	Hydro	9.5	0.0			
DEC	Rhodhiss	2	Hydro	11.5	0.0			
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	Ν	TRSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23.
DEC	Tennessee	1	Hydro	11.5	0.0			
DEC	Thorpe	1	Hydro	19.7	0.0			
DEC	Tuckasegee	1	Hydro	2.5	0.0			
DEC	Wateree	1	Hydro	17.0	0.0			
DEC	Wateree	2	Hydro	17.0	0.0			
DEC	Wateree	3	Hydro	17.0	0.0			
DEC	Wateree	4	Hydro	17.0	0.0			
DEC	Wateree	5	Hydro	6.0	0.0			
DEC	Wylie	1	Hydro	18.0	0.0			
DEC	Wylie	2	Hydro	18.0	0.0			
DEC	Wylie	3	Hydro	18.0	0.0			
DEC	Wylie	4	Hydro	6.0	0.0			
DEP	Blewett	1	Hydro	4.0	0.0			
DEP	Blewett	2	Hydro	4.0	0.0			
DEP	Blewett	3	Hydro	4.0	0.0			
DEP	Blewett	4	Hydro	5.0	0.0			
DEP	Blewett	5	Hydro	5.0	0.0			
DEP	Blewett	6	Hydro	5.0	0.0			
DEP	Marshall	1	Hydro	2.0	0.0			
DEP	Marshall	2	Hydro	2.0	0.0			
DEP	Tillery	1	Hydro	21.0	0.0			
DEP	Tillery	2	Hydro	18.0	0.0			
DEP	Tillery	3	Hydro	21.0	0.0			
DEP	Tillery	4	Hydro	25.0	0.0			
DEP	Walters	1	Hydro	36.0	0.0			
DEP	Walters	2	Hydro	40.0	0.0			
DEP	Walters	3	Hydro	36.0	36.0	Planned	N	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.

			TOTALS	35,913.5	2,545.8		3 91%	CAR EFOR (RRE +NGG)
				2022 Winter		Forced vs	Weather	
Jurisdiction	Station	Unit ID	Туре	Capacity (MW)	Derate (MW)	Planned	Related (Y/N)	Derate Details
DEC	Bad Creek	1	Hydro	420.0	0.0	Tiannea		
	Bad Creek	2	Hydro	420.0	0.0			
	Bad Creek	3	Hydro	340.0	340.0	Planned	N	Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third of the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.
DEC	Bad Creek	4	Hydro	340.0	0.0			the four units at Bad Creek undergoing this mult-year upgrade / invo uprate project.
	Bear Creek	1	Hydro	9.5	9.5	Planned	N	Planned outage
	Bridgewater	1	Hydro	15.0	0.0	Tiannea	i N	nameu outage
	Bridgewater	2	Hydro	15.0	0.0			
	Bridgewater	3	Hydro	1.5	0.0			
	Cedar Cliff	1	Hydro	6.4	0.0			
	Cedar Cliff	2	Hydro	0.4	0.0			
	Cedar Creek	1	Hydro	15.0	0.0			
	Cedar Creek	2	Hydro	15.0	0.0			
DEC	Cedar Creek	3	Hydro	15.0	0.0			
DEC	Cowans Ford	1	Hydro	81.0	0.0			
DEC	Cowans Ford	2	Hydro	81.0	0.0			
	Cowans Ford	3	Hydro	81.0	0.0			
DEC	Cowans Ford	4	Hydro	81.0	0.0			
DEC	Dearborn	1	Hydro	14.0	0.0			
DEC	Dearborn	2	Hydro	14.0	0.0			
DEC	Dearborn	3	Hydro	14.0	0.0			
DEC	Fishing Creek	1	Hydro	14.0	0.0			
	Fishing Creek	2	Hydro	10.0	0.0			
	Fishing Creek	3	Hydro	10.0	0.0			
	Fishing Creek	4	Hydro	11.0	0.0			
DEC	Fishing Creek	5	Hydro	9.0	0.0			
	Great Falls	1	Hydro	0.0	0.0			
	Great Falls	2	Hydro	0.0	0.0			
	Great Falls	3	Hydro	0.0	0.0			
	Great Falls	4	Hydro	0.0	0.0			
		5		0.0	0.0			
	Great Falls Great Falls	6	Hydro Hydro	0.0	0.0			
-	Great Falls	7	Hydro	0.0	0.0			
	Great Falls	8	Hydro	0.0	0.0			
DEC	Jocassee	ہ 1	Hydro	195.0	0.0			
DEC	Jocassee	2	Hydro	195.0	0.0			
DEC	Jocassee	3	Hydro	195.0	0.0			
DEC	Jocassee	3 4	Hydro	195.0	0.0			
DEC	Keowee	4	Hydro	76.0	0.0			
DEC	Keowee	2	Hydro	76.0	0.0			
DEC	Lookout Shoals	1	Hydro	9.0	0.0			
DEC	Lookout Shoals	2	Hydro	9.0	0.0			
DEC	Lookout Shoals	3	Hydro	9.0	0.0			
	Mountain	3 1	Hydro	14.0	14.0	Planned	N	Planned outage
	Mountain	2	Hydro	14.0	0.0	FIGIIIIEU	íN.	
	Mountain	3	Hydro Hydro	17.0	0.0			
DEC	iviountain	3	нуаго	17.0	0.0			1

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DEC	Mountain	4	Hydro	17.0	0.0			
DEC	Nantahala	1	Hydro	45.0	0.0			
DEC	Ninety-Nine	1	Hydro	4.2	0.0			
DEC	Ninety-Nine	2	Hydro	3.4	0.0			
DEC	Ninety-Nine	3	Hydro	4.2	0.0			
DEC	Ninety-Nine	4	Hydro	3.4	3.4	Planned	Ν	Planned outage
DEC	Ninety-Nine	5	Hydro	0.0	0.0			
DEC	Ninety-Nine	6	Hydro	0.0	0.0			
DEC	Oxford	1	Hydro	20.0	0.0			
DEC	Oxford	2	Hydro	20.0	20.0	Forced	N	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.
DEC	Queens Creek	1	Hydro	1.4	0.0			
DEC	Rhodhiss	1	Hydro	9.5	0.0			
DEC	Rhodhiss	2	Hydro	11.5	11.5	Planned	Ν	Supporting underwater work for U3 TRSL. Estimated RTS 12/30/22.
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	Ν	TRSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23.
DEC	Tennessee	1	Hydro	11.5	0.0			
DEC	Thorpe	1	Hydro	19.7	0.0			
DEC	Tuckasegee	1	Hydro	2.5	0.0			
DEC	Wateree	1	Hydro	17.0	0.0			
DEC	Wateree	2	Hydro	17.0	0.0			
DEC	Wateree	3	Hydro	17.0	0.0			
DEC	Wateree	4	Hydro	17.0	0.0			
DEC	Wateree	5	Hydro	6.0	0.0			
DEC	Wylie	1	Hydro	18.0	0.0			
DEC	Wylie	2	Hydro	18.0	0.0			
DEC	Wylie	3	Hydro	18.0	0.0			
DEC	Wylie	4	Hydro	6.0	0.0			
DEP	Blewett	1	Hydro	4.0	0.0			
DEP	Blewett	2	Hydro	4.0	0.0			
DEP	Blewett	3	Hydro	4.0	0.0			
DEP	Blewett	4	Hydro	5.0	0.0			
DEP	Blewett	5	Hydro	5.0	0.0			
DEP	Blewett	6	Hydro	5.0	0.0			
DEP	Marshall	1	Hydro	2.0	0.0			
DEP	Marshall	2	Hydro	2.0	0.0			
DEP	Tillery	1	Hydro	21.0	0.0			
DEP	Tillery	2	Hydro	18.0	0.0			
DEP	Tillery	3	Hydro	21.0	0.0			
DEP	Tillery	4	Hydro	25.0	0.0			
DEP	Walters	1	Hydro	36.0	0.0			
DEP	Walters	2	Hydro	40.0	0.0			
DEP	Walters	3	Hydro	36.0	36.0	Planned	N	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.

			TOTALS	35,913.5	2,783.8		F 100	(CAR EFOR (RRE +NGG)
		_	TUTALS	,	2,783.8		vveatner	6 LAK EFOK (KRE +NGG)
Jurisdiction	Station	Unit ID	Туре	2022 Winter Capacity (MW)	Derate (MW)	Forced vs Planned	Related	Derate Details
DEC	Bad Creek	1	Hydro	420.0	0.0			
DEC	Bad Creek	2	Hydro	420.0	0.0			
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	Ν	Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third of the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.
DEC	Bad Creek	4	Hydro	340.0	0.0			
	Bear Creek	1	Hydro	9.5	9.5	Planned	N	Planned outage
DEC	Bridgewater	1	Hydro	15.0	0.0			
	Bridgewater	2	Hydro	15.0	0.0			
	Bridgewater	3	Hydro	1.5	0.0			
	Cedar Cliff	1	Hydro	6.4	0.0			
	Cedar Cliff	2	Hydro	0.4	0.0			
	Cedar Creek	1	Hydro	15.0	0.0			
	Cedar Creek	2	Hydro	15.0	0.0			
DEC	Cedar Creek	3	Hydro	15.0	0.0			
DEC	Cowans Ford	1	Hydro	81.0	0.0			
DEC	Cowans Ford	2	Hydro	81.0	0.0			
DEC	Cowans Ford	3	Hydro	81.0	0.0			
DEC	Cowans Ford	4	Hydro	81.0	0.0			
DEC	Dearborn	1	Hydro	14.0	0.0			
DEC	Dearborn	2	Hydro	14.0	0.0			
	Dearborn	3	Hydro	14.0	0.0			
DEC	Fishing Creek	1	Hydro	11.0	0.0			
	Fishing Creek	2	Hydro	10.0	0.0			
	Fishing Creek	3	Hydro	10.0	0.0			
	Fishing Creek	4	Hydro	11.0	0.0			
	Fishing Creek	5	Hydro	9.0	0.0			
	Great Falls	1	Hydro	0.0	0.0			
	Great Falls	2	Hydro	0.0	0.0			
	Great Falls	3	Hydro	0.0	0.0			
DEC	Great Falls	4	Hydro	0.0	0.0			
	Great Falls	5	Hydro	0.0	0.0			
	Great Falls	6	Hydro	0.0	0.0			
	Great Falls	7	Hydro	0.0	0.0			
DEC	Great Falls	8	Hydro	0.0	0.0			
DEC	Jocassee	1	Hydro	195.0	0.0			
DEC	Jocassee	2	Hydro	195.0	0.0			
DEC	Jocassee	3	Hydro	195.0	0.0			
DEC	Jocassee	4	Hydro	195.0	0.0			
DEC	Keowee	1	Hydro	76.0	0.0			
DEC	Keowee	2	Hydro	76.0	0.0			
DEC	Lookout Shoals	1	Hydro	9.0	0.0			
DEC	Lookout Shoals	2	Hydro	9.0	0.0			
DEC	Lookout Shoals	3	Hydro	9.0	0.0			
DEC	Mountain Island	1	Hydro	14.0	14.0	Planned	N	Planned outage
DEC	Mountain Island	2	Hydro	17.0	0.0			
	Mountain Island	3	Hydro	17.0	0.0			

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DEC	Mountain Island	4	Hydro	17.0	0.0			
DEC	Nantahala	1	Hydro	45.0	0.0			
DEC	Ninety-Nine Islands	1	Hydro	4.2	0.0			
DEC	Ninety-Nine Islands	2	Hydro	3.4	0.0			
DEC	Ninety-Nine Islands	3	Hydro	4.2	0.0			
DEC	Ninety-Nine Islands	4	Hydro	3.4	3.4	Planned	N	Planned outage
DEC	Ninety-Nine Islands	5	Hydro	0.0	0.0			
DEC	Ninety-Nine Islands	6	Hydro	0.0	0.0			
DEC	Oxford	1	Hydro	20.0	0.0			
DEC	Oxford	2	Hydro	20.0	20.0	Forced	Ν	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.
DEC	Queens Creek	1	Hydro	1.4	0.0			
DEC	Rhodhiss	1	Hydro	9.5	0.0			
DEC	Rhodhiss	2	Hydro	11.5	11.5	Planned	Ν	Supporting underwater work for U3 TRSL. Estimated RTS 12/30/22.
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	Ν	TRSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23.
DEC	Tennessee Creek	1	Hydro	11.5	0.0			
DEC	Thorpe	1	Hydro	19.7	0.0			
DEC	Tuckasegee	1	Hydro	2.5	0.0			
DEC	Wateree	1	Hydro	17.0	0.0			
DEC	Wateree	2	Hydro	17.0	0.0			
DEC	Wateree	3	Hydro	17.0	0.0			
DEC	Wateree	4	Hydro	17.0	0.0			
DEC	Wateree	5	Hydro	6.0	0.0			
DEC	Wylie	1	Hydro	18.0	0.0			
DEC	Wylie	2	Hydro	18.0	0.0			
DEC	Wylie	3	Hydro	18.0	0.0			
DEC	Wylie	4	Hydro	6.0	0.0			
DEP	Blewett	1	Hydro	4.0	0.0			
DEP	Blewett	2	Hydro	4.0	0.0			
DEP	Blewett	3	Hydro	4.0	0.0			
DEP	Blewett	4	Hydro	5.0	0.0			
DEP	Blewett	5	Hydro	5.0	0.0			
DEP	Blewett	6	Hydro	5.0	0.0			
DEP	Marshall	1	Hydro	2.0	0.0			
DEP	Marshall	2	Hydro	2.0	0.0			
DEP	Tillery	1	Hydro	21.0	0.0			
DEP	Tillery	2	Hydro	18.0	0.0			
DEP	Tillery	3	Hydro	21.0	0.0			
DEP	Tillery	4	Hydro	25.0	0.0			
DEP	Walters	1	Hydro	36.0	0.0			
DEP	Walters	2	Hydro	40.0	0.0			
DEP	Walters	3	Hydro	36.0	36.0	Planned	Ν	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.

		CAR TOTA	LS (RRE+NGG)	35,913.5	4,482.3		10.14%	CAR EFOR (RRE +NGG)	
Jurisdiction	Station	Unit ID	Туре	2022 Winter Capacity (MW)	Derate (MW)	Forced vs Planned	Weather Related (Y/N)	Derate Details	Question 20 Data
DEC	Allen	1	Steam	167.0	167.0	Planned	N	EPR	
DEC	Allen	5	Steam	259.0	259.0	Planned	N	EPR	
DEC	Belews Creek	1	Steam	1,110.0	125.0	Forced	N	Forced derate, 1B booster fan tripped due to high vibration on 12/22 @ 1345. Inspection of the fan requires a full unit outage. Placing the fan back in service could result in another high vibration trip which could cause a furnace draft upset in the boiler and compromise the entire unit's output. Fan remains out of service to mitigate risk of tripping the entire unit, RTS TBD.	
DEC	Belews Creek	2	Steam	1,110.0	0.0				
DEC	Cliffside	5	Steam	546.0	71.0	Forced	N	 T1MW derate when blended gas/coal due to a tube leak in the "E" feedwater heater. E FWH isolated on 12/19, repair requires a unit outage. Estimated RTS is 1/9/23 if the station is granted a maintenance outage from ECC starting 1/2/23. 100MW derate on 100% Coal due to 5B coal feeder gearbox failure on 9/11/22. The new gearbox was received on 12/16 but the shaft length of the new gearbox supplied by vendor was incorrect. The replacement gearbox should ship from vendor on 12/30. 	2
DEC	Cliffside	6	Steam	849.0	0.0			Gas - FLA, 205MW derate on 100% Coal (6B and 6F pulverizer issues)	
DEC	Marshall	1	Steam	380.0	380.0	Forced	N	Unit entered planned GMS outage on 9/22/22 for boiler lower slope tube replacement project, unit return to service delayed by failure of boiler circulating water pump. Unit has been in outage since 11/20/22 awaiting pump rebuilds and motor rewinds of the BCPs. Estimated return to service 12/28/22.	
DEC	Marshall	2	Steam	380.0	380.0	Forced	Ν	Forced outage, unit tripped on 12/20 @ 1636 due to a boiler tube leak in two waterwall locations. Alliance contractor working around the clock with crews at each location to repair the leaks.	
DEC	Marshall	3	Steam	658.0	0.0				
DEC	Marshall	4	Steam	660.0	0.0				
DEP	Мауо	1	Steam	713.0	336.0	Forced	Y	Forced outage on B boiler, boiler tripped 12/24 at 0609 due to frozen drum level sensing lines. Heat trace and insulation was energized and intact, cold weather conditions experienced appear to have overcome measures in place. Station taking action to increase insulation and heat trace.	
DEP	Мауо	1	Steam	-	14.0	Forced	Y	Gypsum production and scrubber pH issues affecting unit production began early morning hours of 12/24. G1 and G2 conveyors / conveyor chutes experienced multiple plugging events due to frozen gypsum.	
DEP	Мауо	1	Steam	-	113.0	Forced	N	Existing A boiler pulverizer issues (A5-2 and A2-2 coal feeders out of service awaiting out-of-stock parts, no delivery date committed but estimate March 2023.) and an additional 50 MW forced derate to control elevated 'A' boiler feed pump turbine outboard bearing vibration encountered on 12/22 @ 1518. Removing the pump from service for troubleshooting / repair would result in a larger derate of ~356MW.	
DEP	Roxboro	1	Steam	380.0	0.0		N	Full load available as of 0700 and through morning peak. Forced derate of ~185MW at 1358 that afternoon through evening peak due to restricted coal reclaim capacity resulting from 7B reclaim conveyor belt failure (belt failure occurred 12/24 at 0805).	
DEP	Roxboro	2	Steam	673.0	0.0		N	Full load available as of 0700 and through morning peak. Forced derate of ~500MW at 1358 that afternoon through evening peak due to restricted coal reclaim capacity resulting from 7B reclaim conveyor belt failure (belt failure occurred 12/24 at 0805).	
DEP	Roxboro	3	Steam	698.0	398.0	Forced	Y	Forced derate, 3B Boiler Feed Pump/Boiler Feed Pump Turbine out of service 12/24 at 0230 due to trip resulting from frozen sensing lines and frozen switches. Heat trace and insulation was energized and intact, cold weather conditions experienced appear to have overcome measures in place. Station taking action to increase insulation and heat trace.	
DEP	Roxboro	4	Steam	711.0	211.0	Forced	N	Forced derate, 4B1 ID Fan out of service due to grounded motor. This motor ground occurred on 11/1/22. Estimates from motor shop on rewind duration are 16 weeks, replacement motor lead time 6-12 months. 4B1 ID Fan RTS TBD.	
DEP	Asheville PB1		Combined Cycle	280.0	0.0				
DEP	Asheville PB2		Combined Cycle	280.0	0.0				
DEC	Buck		Combined Cycle	718.0	0.0	Forced	Y	Forced derate due to low gas pressure (Transco), unable to fully duct fire. 178 MW derate from 0945 to 1700, 120 MW derate starting at 1700.	
DEC	Dan River		Combined Cycle	718.0	359.0	Forced	Y	Forced derate, Unit 9 offline 12/23 @ 2351 due to frozen LP drum level transmitters. Unit 9 delayed return to service because of gas turbine compressor bleed valve fault (failed valve limit switch requiring replacement). Heat trace for the LP drum level transmitter sensing lines was confirmed to be energized and all insulation was observed to be intact. Wind exposure under the cold conditions experiecned appear to have overcame the measures in place. Station taking action to increase insulation and prevent wind exposure (also checking at Buck CC for similar design EOC).	
DEP	HF Lee		Combined Cycle	1,059.0	0.0				

DEP	Smith PB4		Combined Cycle	570.0	273.0	Forced	Y	Forced derate, Unit 8 generator breaker opened 12/24 @ 0835 due to hot reheat attemperator priorority lowering from frozen transmitter 210-PT- 8071A and 210-PT-8071B sensing lines. Heat trace for the sensing lines was found energized and heating, however, a 1" gap in the line's insulation/lagging was discovered which allowed the line to freeze. Insulation/lagging corrected, line thawed and unit returned to full output (derate duration 11hr 35min).	
DEP	Smith PB5		Combined Cycle	680.0	0.0				
DEP	Sutton		Combined Cycle	719.0	0.0				
DEC	WS Lee		Combined Cycle	809.0	809.0	Forced	Ν	Forced outage, Unit 10 steam turbine turning gear failure resulting in a fire within the steam turbine enclosure occurred on 12/11/22. Siemens Energy, alliance electrical contractor, Duke FMS crews and alliance insulation contractor working around the clock to assess damage and make repairs. Estimated return to service per current COA is 1/31/23.	
DEP	Asheville	3	Simple Cycle CT	185.0	0.0				
DEP	Asheville	4	Simple Cycle CT	185.0	0.0				
DEP	Blewett	1	Simple Cycle CT	17.0	17.0	Forced	Ν	Unit 1 failed to start 12/24 at 0538 due to fuel demand logic issues. Control logic adjustments made by the station CT Tech and DCS System Owner and the unit returned to service 12/24 @ 1105.	
DEP	Blewett	2	Simple Cycle CT	17.0	17.0	Forced	Ν	Unit 2 failed to start 12/24 at 0538 due to suspected fuel card issues (electrical), troubleshooting in progress. RTS TBD.	
DEP	Blewett	3	Simple Cycle CT	17.0	0.0				
DEP	Blewett	4	Simple Cycle CT	17.0	17.0	Forced	Ν	Unit 4 failed to start 12/24 at 0538 due to three (3) exhaust thermcouples failing. Station reset thermocouples and unit returned to service 12/24 at 0710.	
DEP	Darlington	12	Simple Cycle CT	131.0	0.0				
DEP	Darlington	13	Simple Cycle CT	133.0	0.0				
DEC	Lee	7C	Simple Cycle CT	48.0	0.0				
DEC	Lee	8C	Simple Cycle CT	48.0	0.0				
DEC	Lincoln	1	Simple Cycle CT	94.0	0.0				
DEC	Lincoln	2	Simple Cycle CT	96.0	0.0				
DEC	Lincoln	3	Simple Cycle CT	95.0	0.0				
DEC	Lincoln	4	Simple Cycle CT	94.0	0.0				
DEC	Lincoln	5	Simple Cycle CT	93.0	0.0				
DEC	Lincoln	6	Simple Cycle CT	93.0	0.0				
DEC	Lincoln	7	Simple Cycle CT	95.0	0.0				
DEC	Lincoln	8	Simple Cycle CT	94.0	0.0				
DEC	Lincoln	9	Simple Cycle CT	94.0	0.0				
DEC	Lincoln	10	Simple Cycle CT	96.0	0.0				
DEC	Lincoln	11	Simple Cycle CT	95.0	0.0				

DEC	Lincoln	12	Simple Cycle CT	94.0	0.0				
DEC	Lincoln	13	Simple Cycle CT	93.0	0.0				
DEC	Lincoln	14	Simple Cycle CT	94.0	0.0				
DEC	Lincoln	15	Simple Cycle CT	94.0	0.0				
DEC	Lincoln	16	Simple Cycle CT	93.0	0.0				
DEC	Mill Creek	1	Simple Cycle CT	94.0	0.0				
DEC	Mill Creek	2	Simple Cycle	94.0	0.0				
DEC	Mill Creek	3	CT Simple Cycle		0.0				
	Mill Creek	4	CT Simple Cycle	95.0	0.0				
DEC	Mill Creek	5	CT Simple Cycle	94.0	0.0				
DEC	Mill Creek	6	CT Simple Cycle		0.0				
DEC	Mill Creek	7	CT Simple Cycle	92.0	0.0				
DEC	Mill Creek	8	CT Simple Cycle	95.0	0.0				
DEC			CT Simple Cycle	93.0					
DEC	Rockingham	1	CT Simple Cycle	179.0	0.0				
DEC	Rockingham	2	СТ	179.0	0.0				
DEC	Rockingham	3	Simple Cycle CT	179.0	0.0				
DEC	Rockingham	4	Simple Cycle CT	179.0	0.0				
DEC	Rockingham	5	Simple Cycle CT	179.0	0.0				
DEP	Smith Energy Complex	1	Simple Cycle CT	192.0	0.0				
DEP	Smith Energy Complex	2	Simple Cycle CT	192.0	47.0	Forced	N	Derate to max output of 145 MW due to combustor hardware issues first encountered on 12/2/22, combustor hardware to be replaced during spring 2023 outage.	
DEP	Smith Energy Complex	3	Simple Cycle CT	192.0	0.0				
DEP	Smith Energy Complex	4	Simple Cycle CT	192.0	0.0				
DEP	Smith Energy Complex	6	Simple Cycle CT	192.0	0.0				
DEP	Sutton	4	Simple Cycle CT	49.0	0.0				
DEP	Sutton	5	Simple Cycle CT	49.0	0.0				
DEP	Wayne County	10	Simple Cycle CT	195.0	0.0				
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DEP	Wayne County	11	Simple Cycle	195.0	40.0	Forced	N	Unit is limited to 155 MWs on fuel oil and fuel gas due to high NOx emissions at full load. Issue with the combustor hardware was first encountered	
DEF	wayne county	11	СТ	195.0	40.0	Torceu	N	on 11/3/22. An outage will be scheduled in 2023 to replace the fuel nozzles.	
	Maura County	12	Simple Cycle		0.0				
DEP	Wayne County	12	СТ	195.0	0.0				
		12	Simple Cycle		0.0				
DEP	Wayne County	13	СТ	195.0	0.0				
			Simple Cycle						
DEP	Wayne County	14	СТ	195.0	0.0				
			Simple Cycle						
DEP	Weatherspoon	1	СТ	41.0	0.0				
			Simple Cycle						
DEP	Weatherspoon	2	CT	41.0	0.0				
			Simple Cycle						
DEP	Weatherspoon	3	СТ	41.0	0.0				
			Simple Cycle	1210					
DEP	Weatherspoon	4	CT	41.0	0.0				
DEC	Clemson CHP	1	СНР	14.0	14.0	Forced	Y	Gas turbine tripped at 0800 due to low gas pressure (Fort Hill), back online at 1415.	
DEC	Bad Creek	1	Hydro	420.0	0.0		ı		
DEC	Bad Creek	2	Hydro	420.0	0.0				
-			Tiyuro					Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third	
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	Ν	of the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.	
DEC	Bad Creek	4	Hydro	340.0	0.0			or the four drifts at bad creek undergoing this mult-year upgrade / www uprate project.	
DEC	Bear Creek	4		9.5	9.5	Planned	N	lanned externs	
DEC			Hydro	9.5	9.5	Planneu	IN	Planned outage	
	Bridgewater	1	Hydro	15.0	0.0				
DEC	Bridgewater	2	Hydro						
DEC	Bridgewater	3	Hydro	1.5	0.0				
DEC	Cedar Cliff	1	Hydro	6.4	0.0				
DEC	Cedar Cliff	2	Hydro	0.4	0.0				
DEC	Cedar Creek	1	Hydro	15.0	0.0				
DEC	Cedar Creek	2	Hydro	15.0	0.0				
DEC	Cedar Creek	3	Hydro	15.0	0.0				
DEC	Cowans Ford	1	Hydro	81.0	0.0				
DEC	Cowans Ford	2	Hydro	81.0	0.0				
DEC	Cowans Ford	3	Hydro	81.0	0.0				
DEC	Cowans Ford	4	Hydro	81.0	0.0				
DEC	Dearborn	1	Hydro	14.0	0.0				
DEC	Dearborn	2	Hydro	14.0	0.0				
DEC	Dearborn	3	Hydro	14.0	0.0				
DEC	Fishing Creek	1	Hydro	11.0	0.0				
DEC	Fishing Creek	2	Hydro	10.0	0.0				
DEC	Fishing Creek	3	Hydro	10.0	0.0				
DEC	Fishing Creek	4	Hydro	11.0	0.0				
DEC	Fishing Creek	5	Hydro	9.0	0.0				
DEC	Great Falls	1	Hydro	0.0	0.0				
DEC	Great Falls	2	Hydro	0.0	0.0				
DEC	Great Falls	3	Hydro	0.0	0.0				
DEC	Great Falls	4	Hydro	0.0	0.0				
DEC	Great Falls	5	Hydro	0.0	0.0				
DEC	Great Falls	6	Hydro	0.0	0.0				
DEC	Great Falls	7	Hydro	0.0	0.0				
DEC	Great Falls	8	Hydro	0.0	0.0				
DEC	Jocassee	1	Hydro	195.0	0.0				
DEC	Jocassee	2	Hydro	195.0	0.0				
DLC	10(03566	Ζ.	nyuru	100.0	0.0	1			[

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DEC	Jocassee	3	Hydro	195.0	0.0				
DEC	Jocassee	4	Hydro	195.0	0.0				
DEC	Keowee	1	Hydro	76.0	0.0				
DEC	Keowee	2	Hydro	76.0	0.0				
DEC	Lookout Shoals	1	Hydro	9.0	0.0				
DEC	Lookout Shoals	2	Hydro	9.0	0.0				
DEC	Lookout Shoals	3	Hydro	9.0	0.0				
DEC	Mountain Island	1	Hydro	14.0	14.0	Planned	Ν	Planned outage	
DEC	Mountain Island	2	Hydro	17.0	0.0				
DEC	Mountain Island	3	Hydro	17.0	0.0				
DEC	Mountain Island	4	Hydro	17.0	0.0				
DEC	Nantahala	1	Hydro	45.0	0.0				
DLC	Ninety-Nine	-	nyuro	43.0					
DEC	Islands	1	Hydro	4.2	0.0				
DEC				4.2					
DEC	Ninety-Nine Islands	2	Hydro	2.4	0.0				
DEC				3.4					
DEC	Ninety-Nine	3	Hydro	4.2	0.0				
DEC	Islands			4.2					
550	Ninety-Nine	4	Hydro		3.4	Planned	Ν	Planned outage	
DEC	Islands			3.4					
	Ninety-Nine	5	Hydro		0.0				
DEC	Islands		,	0.0					
	Ninety-Nine	6	Hydro		0.0				
DEC	Islands			0.0					
DEC	Oxford	1	Hydro	20.0	0.0				
DEC	Oxford	2	Hydro	20.0	20.0	Forced	Ν	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.	
DEC	Queens Creek	1	Hydro	1.4	0.0				
DEC	Rhodhiss	1	Hydro	9.5	0.0				
DEC	Rhodhiss	2	Hydro	11.5	0.0				
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	Ν	TRSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23.	
DEC	Tennessee Creek	1	Hydro	11.5	0.0				
DEC	Thorpe	1	Hydro	19.7	0.0				
DEC	Tuckasegee	1	Hydro	2.5	0.0				
DEC	Wateree	1	Hydro	17.0	0.0				
DEC	Wateree	2	Hydro	17.0	0.0				
DEC	Wateree	3	Hydro	17.0	0.0				
DEC	Wateree	4	Hydro	17.0	0.0				
DEC	Wateree	5	Hydro	6.0	0.0				
DEC	Wylie	1	Hydro	18.0	0.0				
DEC	Wylie	2	Hydro	18.0	0.0				
DEC	Wylie	3	Hydro	18.0	0.0				
					0.0				
DEC	Wylie	4	Hydro	6.0 4.0	0.0				
DEP	Blewett	1	Hydro						
DEP	Blewett	2	Hydro	4.0	0.0				
DEP	Blewett	3	Hydro	4.0	0.0				
DEP	Blewett	4	Hydro	5.0	0.0				
DEP	Blewett	5	Hydro	5.0	0.0				
DEP	Blewett	6	Hydro	5.0	0.0				
DEP	Marshall	1	Hydro	2.0	0.0				
DEP	Marshall	2	Hydro	2.0	0.0				
DEP	Tillery	1	Hydro	21.0	0.0				
DEP	Tillery	2	Hydro	18.0	0.0				
DEP	Tillery	3	Hydro	21.0	0.0				
		3	11,010		0.0			1	

DEP	Tillery	4	Hydro	25.0	0.0				
DEP	Walters	1	Hydro	36.0	0.0				
DEP	Walters	2	Hydro	40.0	0.0				
DEP	Walters	3	Hydro	36.0	36.0	Planned	N	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.	
DEP	Brunswick	1	Nuclear	973.0	0.0				
DEP	Brunswick	2	Nuclear	915.0	0.0				
DEP	Harris	1	Nuclear	1,001.0	0.0				
DEP	Robinson	2	Nuclear	759.0	759.0	Planned	N	Planned refueling outage	
DEC	Catawba	1	Nuclear	1,190.0	0.0				
DEC	Catawba	2	Nuclear	1,183.0	0.0				
DEC	McGuire	1	Nuclear	1,195.0	0.0				
DEC	McGuire	2	Nuclear	1,193.0	0.0				
DEC	Oconee	1	Nuclear	874.0	0.0				
DEC	Oconee	2	Nuclear	874.0	0.0				
DEC	Oconee	3	Nuclear	883.0	0.0				

Effective 12/31/2021

DEC	Unit	Current 2021 Winter Capacity Ratings (MW)	New 2022 Winter Capacity Ratings (MW)	Delta (MW)	
FOSSIL STEAM					
Allen	1	167	167	0	
Allen	2	167	NA	NA	Retired ef
Allen	3	270	NA	NA	Retired ef
Allen	4	267	NA	NA	Retired ef
Allen	5	259	259	0	
Belews Creek	1	1110	1110	0	
Belews Creek	2	1110	1110	0	
Cliffside	5	546	546	0	
Cliffside	6	849	849	0	
WS Lee Steam	3	173	0	-173	Retired e
Marshall	1	380	380	0	
Marshall	2	380	380	0	
Marshall	3	658	658	0	
Marshall	4	660	660	0	
TOTAL FOSSIL	14	6996	6119	-877	
COMBINED CYCLE	E				
Buck	PB1	718	718	0	
Dan River	PB1	718	718	0	
WS Lee	CC	809	809	0	
TOTAL CC	3	2245	2245	0	
COMBUSTION TUR	RBINE				
Clemson CHP	1	15.5	15.5	0	
					-

Retired effective 12/31/2021 Retired effective 3/31/2021 Retired effective 12/31/2021

Retired effective 3/31/2022

WS Lee	7	48	48	0
WS Lee	8	48	48	0
Lincoln	1	94	94	0
Lincoln	2	96	96	0
Lincoln	3	95	95	0
Lincoln	4	94	94	0
Lincoln	5	93	93	0
Lincoln	6	93	93	0
Lincoln	7	95	95	0
Lincoln	8	94	94	0
Lincoln	9	94	94	0
Lincoln	10	96	96	0
Lincoln	11	95	95	0
Lincoln	12	94	94	0
Lincoln	13	93	93	0
Lincoln	14	94	94	0
Lincoln	15	94	94	0
Lincoln	16	93	93	0
Mill Creek	1	94	94	0
Mill Creek	2	94	94	0
Mill Creek	3	95	95	0
Mill Creek	4	94	94	0
Mill Creek	5	94	94	0
Mill Creek	6	92	92	0
Mill Creek	7	95	95	0
Mill Creek	8	93	93	0
Rockingham	1	179	179	0
Rockingham	2	179	179	0
Rockingham	3	179	179	0
Rockingham	4	179	179	0
Rockingham	5	179	179	0
TOTAL CT	32	3264.5	3264.5	0

REFERENCE ONLY - 2022 VERIFICATION

HYDRO	000	CURS DURIN	G SUMMER 2	021.	_
Bad Creek	1	420	420	0	
Bad Creek	2	420	420	0	
Bad Creek	3	340	340	0	
Bad Creek	4	340	340	0	
Bear Creek	1	9.5	9.5	0	
Bridgewater	1	15	15	0	
Bridgewater	2	15	15	0	
Bridgewater	3	1.5	1.5	0	
Bryson	1	-	_	-	SOLD
Bryson	2	-	-	-	SOLD
Cedar Cliff	1	6.4	6.4	0	
Cedar Cliff	2	0.4	0.4	0	
Cedar Creek	1	15	15	0	
Cedar Creek	2	15	15	0	
Cedar Creek	3	15	15	0	
Cowans Ford	1	81	81	0	
Cowans Ford	2	81	81	0	
Cowans Ford	3	81	81	0	
Cowans Ford	4	81	81	0	
Dearborn	1	14	14	0	
Dearborn	2	14	14	0	
Dearborn	3	14	14	0	
Fishing Creek	1	11	11	0	
Fishing Creek	2	10	10	0	
Fishing Creek	3	10	10	0	
Fishing Creek	4	11	11	0	
Fishing Creek	5	9	9	0	
Franklin	1	-	-	-	SOLD
Franklin	2	-	-	-	SOLD
Gaston Shoals	3	-	-	-	SOLD
Gaston Shoals	4	-	-	-	SOLD
Gaston Shoals	5	-	-	-	SOLD
Gaston Shoals	6	-	-	-	SOLD

Great Falls	1	0	0	0	
Great Falls	2	0	0	0	
Great Falls	3	0	0	0	
Great Falls	4	0	0	0	
Great Falls	5	0	0	0	
Great Falls	6	0	0	0	
Great Falls	7	0	0	0	
Great Falls	8	0	0	0	
Jocassee	1	195	195	0	
Jocassee	2	195	195	0	
Jocassee	3	195	195	0	
Jocassee	4	195	195	0	
Keowee	1	76	76	0	
Keowee	2	76	76	0	
Lookout Shoals	1	9	9	0	
Lookout Shoals	2	9	9	0	
Lookout Shoals	3	9	9	0	
Mission	1	-	-	-	SOLD
Mission	2	-	-	-	SOLD
Mission	3	-	-	-	SOLD
Mountain Island	1	14	14	0	
Mountain Island	2	14	17	3	
Mountain Island	3	17	17	0	
Mountain Island	4	17	17	0	
Nantahala	1	50	45	-5	
Ninety-Nine Islands	1	4.2	4.2	0	
Ninety-Nine Islands	2	3.4	3.4	0	
Ninety-Nine Islands	3	4.2	4.2	0	
Ninety-Nine Islands	4	3.4	3.4	0	
Ninety-Nine Islands	5	0	0	0	
Ninety-Nine Islands	6	0	0	0	
Oxford	1	20	20	0	
Oxford	2	20	20	0	
				-	

1.4

1.4

0

Queens Creek

1

TOTAL DEC	133	15862	14985	-877	
TOTAL HYDRO	84	3357	3357	-0.3	
Wylie	4	6	6	0	
Wylie	3	18	18	0	
Wylie	2	18	18	0	
Wylie	1	18	18	0	
Wateree	5	6	6	0	
Wateree	4	17	17	0	1
Wateree	3	17	17	0	1
Wateree	2	17	17	0	1
Wateree	1	17	17	0	1
Tuxedo	2	-	-	-	SOLD
Tuxedo	1	-	-	_	SOLD
Tuckasegee	1	2.5	2.5	0	
Thorpe	1	19.7	19.7	0	
Tennessee Creek	1	9.8	11.5	1.7	
Rhodhiss	3	12.4	12.4	0	
Rhodhiss	2	11.5	11.5	0	
Rhodhiss	1	9.5	9.5	0	

GENERATING NET UNIT CAPACITY RATINGS Effective 12/31/2021

	Lilect	Ve 12/31/2021		
DEP	Unit	Current 2021 Winter Capacity Ratings (MW)	New 2022 Winter Capacity Ratings (MW)	Delta (MW)
FOSSIL STEAM				
Asheville	1	N/A	N/A	N/A
Asheville	2	N/A	N/A	N/A
Мауо	1	713	713	0
Roxboro	1	380	380	0
Roxboro	2	673	673	0
Roxboro	3	698	698	0
Roxboro	4	711	711	0
TOTAL COAL	7	3175	3175	0
	E			
Asheville	PB1	280	280	0
Asheville	PB2	280	280	0
HF Lee	PB1	1059	1054	-5
Smith Energy	PB4	570	570	0
Smith Energy	PB5	680	680	0
Sutton	PB1	719	719	0
TOTAL CC	4	3588	3583	-5
COMBUSTION TU				
Asheville	3	185	185	0
Asheville	4	185	185	0
Blewett	1	17	17	0
Blewett	2	17	17	0
Blewett	3	17	17	0
Blewett	4	17	17	0
Darlington	1	NA	NA	NA
Darlington	2	NA	NA	NA
Darlington	3	NA	NA	NA
Darlington	4	NA	NA	NA
Darlington	5	NA	NA	NA
Darlington	6	NA	NA	NA
Darlington	7	NA	NA	NA
Darlington	8 9	NA	NA	NA
Darlington		NA	NA	NA
Darlington	10 11	NA NA	NA	NA NA
Darlington	++	INA	NA	INA

Jan 25 2023

TOTAL CT	32	2880	2898	18
Weatherspoon	4	41	41	0
Weatherspoon	3	41	41	0
Weatherspoon	2	41	41	0
Weatherspoon	1	41	41	0
Wayne	5	195	195	0
Wayne	4	191	195	4
Wayne	3	193	195	2
Wayne	2	192	195	3
Wayne	1	187	195	8
Sutton	5	48	48	0
Sutton	4	48	49	1
Sutton	2B	NA	NA	NA
Sutton	2A	NA	NA	NA
Sutton	1	NA	NA	NA
Smith Energy	6	192	192	0
Smith Energy	4	192	192	0
Smith Energy	3	192	192	0
Smith Energy	2	192	192	0
Smith Energy	1	192	192	0
Darlington	13	133	133	0
Darlington	12	131	131	0

HYDRO

REFERENCE ONLY - 2021 VERIFICATION OCCURS DURING SUMMER 2021.

1	4	4	0
2	4	4	0
3	4	4	0
4	5	5	0
5	5	5	0
6	5	5	0
1	2	2	0
2	2	2	0
1	21	21	0
2	18	18	0
3	21	21	0
4	25	25	0
1	36	36	0
2	40	40	0
3	36	36	0
15	228	228	0
62	9871	9884	13
	2 3 4 5 6 1 2 1 2 3 4 1 2 3 4 1 2 3 1 5 1 5 1 2 3 1 5 5 5 6 1 2 1 2 3 1 5 5 5 6 1 2 5 5 5 6 6 1 2 5 5 5 6 6 1 2 5 5 5 6 6 1 2 5 5 5 5 6 5 5 6 6 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5	2 4 3 4 4 5 5 5 6 5 1 2 2 2 1 21 2 18 3 21 4 25 1 36 2 40 3 36 15 228	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

			TOTALS	24,873.5	3,852.3		5 05%	RRE EFOR
			TOTALS	24,873.5 2022 Winter	3,832.3	Forced vs	Weather	
Jurisdiction	Station	Unit ID	Туре	Capacity (MW)	Derate (MW)	Planned	Related (Y/N)	Derate Details
DEC	Allen	1	Steam	167.0	167.0	Planned	,	EPR
DEC	Allen	5	Steam	259.0	259.0	Planned		EPR
DEC	Belews Creek		Steam	1,110.0	1110.0	MO		Maintenance outage for 1B Booster Fan Inspection
DLC	Belews Creek	1	Steam	1,110.0	1110.0	IVIO	IN	1) 71MW derate when blended gas/coal due to a tube leak in the "E" feedwater heater. E FWH isolated on 12/19, repair requires a unit outage.
								Estimated RTS is 1/9/23 if the station is granted a maintenance outage from ECC starting 1/2/23.
DEC	Cliffside	5	Steam	546.0	546.0	MO	N	2) 100MW derate on 100% Coal due to 5B coal feeder gearbox failure on 9/11/22. The new gearbox was received on 12/16 but the shaft length of the
								new gearbox supplied by vendor was incorrect. The replacement gearbox should ship from vendor on 12/30. Estimated RTS 1/3/23.
								Forced derate to control elevated 'A' boiler feed pump turbine outboard bearing vibration encountered on 12/30. Estimated RTS 1/3/23.
DEP	Mayo	1	Steam	713.0	113.0	Forced	N	
								service for troubleshooting / repair would result in a larger derate of ~356MW. Estimated RTS TBD. Planned derate, 3B6 pulverizer removed from service 12/7/22 for full rebuild and other minor puliverizer performance issues. Station had been
DEP	Roxboro	3	Steam	698.0	98.0	Planned	N	awaiting long lead time parts for multiple pulverizers which arrived October 2022 (ordered in Oct/Nov of 2021). The station has been working through
								planned rebuilds of pulverizers one at a time since the parts arrived. 4A2 and 4A3 had recently been completed on Unit 4, planned derate granted by
								ECC for 12/7-12/30 window to perform 3B6 rebuild by year end. Estimated return to service 12/30.
DEP	Roxboro	4	Steam	711.0	211.0	Forced	Ν	Forced derate, 4B1 ID Fan out of service due to grounded motor. This motor ground occurred on 11/1/22. Estimates from motor shop on rewind
								duration are 16 weeks, replacement motor lead time 6-12 months. 4B1 ID Fan RTS TBD.
550			Combined	000.0	000.0			Forced outage, Unit 10 steam turbine turning gear failure resulting in a fire within the steam turbine enclosure occurred on 12/11/22. Siemens Energy,
DEC	WS Lee		Cycle	809.0	809.0	Forced	N	alliance electrical contractor, Duke FMS crews and alliance insulation contractor working around the clock to assess damage and make repairs.
				17.0	17.0			Estimated return to service per current COA is 1/31/23.
DEP	Blewett	2	Simple Cycle	17.0	17.0	Forced	N	Unit 2 failed to start 12/24 at 0538 due to suspected fuel card issues (electrical), troubleshooting in progress. RTS TBD.
DEP	Smith Energy	2	Simple Cycle	192.0	47.0	Forced	N	Derate to max output of 145 MW due to combustor hardware issues first encountered on 12/2/22, combustor hardware to be replaced during spring
	Complex		СТ					2023 outage.
DEP	Wayne County	11	Simple Cycle	195.0	40.0	Forced	N	Unit is limited to 155 MWs on fuel oil and fuel gas due to high NOx emissions at full load. Issue with the combustor hardware was first encountered on
			СТ					11/3/22. An outage will be scheduled in 2023 to replace the fuel nozzles.
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	N	Unit 3 major upgrade outage, unit removed from service on 11/1/2021. Estimated return to service per current COA is 2/27/2023. Unit 3 is the third of
			,					the four units at Bad Creek undergoing this mult-year upgrade / MW uprate project.
DEC	Bear Creek	1	Hydro	9.5	9.5	Planned		Planned outage
DEC	Mountain Island	1	Hydro	14.0	14.0	Planned		Planned outage
DEC	Ninety-Nine	4	Hydro	3.4	3.4	Planned		Planned outage
DEC	Oxford	2	Hydro	20.0	20.0	Forced	N	Forced outage due to broken wicket gate link, unit removed from service 12/21/22. Estimated return to service per current COA is 1/3/23.
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	N	TRSL Project. Per current COA, unit removed from service 10/31/22 with an estimated RTS of 5/26/23.
DEP	Walters	3	Hydro	36.0	36.0	Planned	N	Planned outage for Wicket Gate and Rotor Pole, unit removed from service 6/6/22. Estimated return to service per current COA is 3/23/23.