

	A	B	C	D	E	F	G	H	I	J	K	L	M
2	Duke Energy Carolinas and Duke Energy Progress Gas Capacity Additions 2011-2034												
3	ADDITIONS	DEP-CT	DEP-CC	DEC-CT	DEC-CC	Total MWs w/o DFOs	Cumulative total (MWs) w/o DFOs	DFOs (DEC)	DFOs cumulative total (MW)	Gas add grand total (MWs)	#units	max % gas	Notes
4	2011				716	716	716		0	716			Buck converted from coal to CC in 2011
5			584			584	1,300		0	1,300			584 MW NG added to Sherwood Smith Energy Complex in June 2011
6	2012					0	1,300		0	1,300			
7	2013				718	718	2,018		0	2,018			Dan River converted coal to CC in 2012-2013
8			920			920	2,938		0	2,938			920 MW NGCC comes online, part of both Wayne County and old Lee coal plants, now called H.F. Lee Energy Complex. Total at H.F. Lee now <u>1,800 MW</u>
9			719			719	3,657		0	3,657			Sutton CC added - PowerMag says it cost \$600M
10	2014					0	3,657		0	3,657			
11	2015				173	173	3,830		0	3,830			W.S. Lee Unit 3 converted from coal to gas (CC or CT? Per 2016 DEC IRP page 7, is natural gas boiler. Burns only gas, no cofiring with coal.
12	2016					0	3,830		0	3,830			
13	2017-2018				750	750	4,580		0	4,580			new W.S. Lee CC unit
14	2018	98				98	4,678		0	4,678			Sutton CT online
15	2018					0	4,678	849	849	5,527	100		Cliffside Unit 6 online from DEC IRP 2019 Update p 79
16	2019					0	4,678	1,110	1,959	6,637	50		Duke Energy modifications to Belews Creek Unit 1 to run on natural gas or coal.
17			560			560	5,238		3,277	8,515			Asheville 560 MW NGCC comes online
18						0	5,238	546	3,823	9,061			Cliffside Unit 5 online from DEC IRP 2019 Update p 79
19	2020	0		0		0	5,238	1,110	4,933	10,171	50		Belews Unit 2: dual-fuel modification, to come online 2020 or 2021
20						0	4,678	1,318	3,277	7,955	50		Marshall 3 and 4 (2019 IRP p73 says Sept. and Nov. 2020)
21	2021	0	0	0		0	5,238	760	5,693	10,931	40		Marshall 1 and 2. (2019 IRP has 380 each)
22						0	5,238		5,693	10,931			
23	2022	0	0	0	0	0	5,238		5,693	10,931			
24	2023	0	0	0	0	0	5,238		5,693	10,931			
25	2024	0	0	0	0	0	5,238		5,693	10,931			
26	2025	0	1,341	0	0	1,341	6,579		5,693	12,272	2		FOR ESTIMATING NUMBER OF GAS UNITS TO BE ADDED:
27	2026	0	0	470	0	470	7,049		5,693	12,742	3		
28	2027	0	1,341	0	0	1,341	8,390		5,693	14,083	2		We count a 670 MW CC as 1 unit and a 470 MW CT as 3 CT units. Those numbers are shown in col. K, showing a total addition of 54 conventional units (48 CTs and 6 CCs) between 2025 and 2034.
29	2028	470	0	0	1,341	1,811	10,201		5,693	15,894	5		
30	2029	1,880	0	0	0	1,880	12,081		5,693	17,774	12		
31	2030	0	0	0	0	0	12,081		5,693	17,774			
32	2031	470	0	470	0	940	13,021		5,693	18,714	6		Less likely, each 470 MW CT plant may consist of only 2 CT units, in which case the total would be 38 conventional units (32 CTs and 6 CCs).
33	2032	0	0	470	0	470	13,491		5,693	19,184	3		
34	2033	940	0	470	0	1,410	14,901		5,693	20,594	9		
35	2034	1,410	0	470	0	1,880	16,781		5,693	22,474	12		Neither of these totals includes the 8 DFOs already built or due to come online in 2020 or 2021 (see rows 15-21 above).
36											54		
37	TOTAL	5,268	5,465	2,350	3,698	16,781		5,693					
38													
39	DFO = dual-fuel optimization												
40	DEC = Duke Energy Carolinas												
41	DEP = Duke Energy Progress												
42	CC = combined cycle												
43	CT = combustion turbine												