

03/17/14

A Summary of Recent PSD Permits for NGCC Plants – Applicable GHG Limits and Listed Emission Rates

Sources Cited by EPA	Source Type	Date Permit Issued	GHG BACT Limits	Other Applicable GHG Limits
Pioneer Valley, MA	New NGCC	04/12/2012	895 lbs of CO ₂ e/MWh on a 365-day rolling average	
CPV Woodbridge Energy Center, NJ	New NGCC		925 lbs/MWh CO ₂ #	
Newark Energy Center, NJ	New NGCC		887 lbs/MWh CO ₂ (gross output) ¹	2,000,268 tpy CO ₂ e; 7,522 Btu/kWh heat rate
CPV Valley Energy Center, NY	New NGCC	07/25/2013	7,605 Btu/kWh and thermal efficiency of 57.4%	925 lbs/MWh CO ₂ (state requirement)
Wolverine Sumpter Power Plant, MI	Modify existing CT into combined-cycle CT		954 lbs/MWh CO ₂ e gross energy output on a 12-month rolling avg.	
LCRA, TX	New NGCC	11/10/2011	0.459 Ton CO ₂ e/MWh (net) on 365-day rolling average (918 lb/MWh)	7,720 btu/kwh on 365-day rolling average; 908,958 tpy CO ₂ e/turbine
Pacificorp Lakeside Phase II, UT	New NGCC	05/04/2011	950 lbs/MWh CO ₂ e (gross) on 12-month rolling average ²	
FPL – Port Everglades, FL	New NGCC	12/27/2013	877 lbs/MWh CO ₂ e (either fuel) (applicant proposed)	830 lbs/MWh CO ₂ e on a 12-month rolling average (natural gas firing)
Palmdale Hybrid Power Plant, CA	New NGCC with Solar	10/18/2011	774 lbs/MWh CO ₂ net output and 7,319 Btu/kWh (365-day rolling)	1,913,000 tpy CO ₂ e
Cricket Valley Energy, NY	New NGCC	09/27/2012	7,605 Btu/kWh and thermal efficiency of 57.4%	3,576,943 tpy CO ₂ e (3 units combined); 120 lb CO ₂ /mmBtu of input (state requirement)
Garrison Energy, DE	New NGCC		7,717 Btu/kWh and 1,006,304 tpy CO ₂ e#	
Recently Permitted Sources Not Included in EPA data				
Riverton Power Station, KS	Modify existing CT into combined-cycle CT	07/11/2013	1,021,770 tons CO ₂ /yr on 12-month rolling basis	
La Paloma Energy Center, TX	New NGCC	11/06/2013	909.2 - 934.5 lbs/MWh CO ₂ (gross) depending on turbine selected	
TECO - Polk Power, FL	New NGCC	01/18/2014	877 lbs/MWh CO ₂ e on a 12-month rolling average	Excludes CT loads less than 50% of design capacity
Oregon Energy Center	New NGCC	06/18/2013	318,404 lb/hr CO ₂ e and 1,394,611 tpy CO ₂ e (rolling 12-month period)	
Sevier Power Company Power Plant, UT	New NGCC	10/25/2012	1,958,552.1 MT CO ₂ e per rolling 12-month period	Initial BACT analysis recommended GHG limit of 1,100 lb CO ₂ e/MWh
Cheyenne Prairie Generating Station, WY	New NGCC	09/27/2012	1,100 lbs/MWh CO ₂ e (gross) and 187,318 tpy CO ₂ e/turbine	

– Information shown is based on data in EPA chart, which was unable to be independently verified.

¹ – EPA chart lists standard as 879 lbs/MWh CO₂; draft permit (09/13/2012) lists 887 lb standard and other limits shown² – Limit included solely at request of applicant; "adds no value" since based on potential to emit (UT DEQ)