Reference Reactor	
1000	Megawatt(e)
0.8	capacity factor
800	net electrical output reference plant

Table H-4. Nuclear Power Plant Lifetime GHG Footprint

Source	Activity Duration (yr)	Total Emissions (MT CO_2e)	Original #s
Preconstruction/Construction Equipment	7	39,000	39,000
Preconstruction/Construction Workforce	7	43,000	43,000
Plant Operations	40	181,000	181,000
Operations Workforce	40	136,000	136,000
Uranium Fuel Cycle	40	540,000	10,100,000
Fuel and Waste Transportation	40	14,000	
Decommissioning Equipment	10	19,000	19,000
Decommissioning Workforce	10	8,000	8,000
SAFSTOR Workforce	40	10,000	10,000
TOTAL[a]		990,000	10,500,000

Turkey Point	
1115	AP1000 MW(e)
0.93	capacity factor
1036.95	net electrical output one unit
2	number of units
2073.9	net electrical output two units
2073.9	net electrical output two units
800	net electrical output reference plant
2.592375	Scaling factor
(rounded to 2.6)	

		Total Emissions (MT CO_2e)	
Preconstruction/Construction Equipment	7	78,000	used factor of 2
Preconstruction/Construction Workforce	7	86,000	used factor of 2
Plant Operations	40	362,000	used factor of 2
Operations Workforce	40	272,000	used factor of 2
Uranium Fuel Cycle	40	26,000,000	used factor of 2.6
Fuel and Waste Transportation	40	0	
Decommissioning Equipment	10	49,400	used factor of 2.6
Decommissioning Workforce	10	20,800	used factor of 2.6
SAFSTOR Workforce	40	26,000	used factor of 2.6
TOTAL[a]		2,566,451	

PSEG	
1150	AP1000 MW(e)
0.963	capacity factor
1107.45	net electrical output one unit
2	number of units
2214.9	net electrical output two units
2214.9	net electrical output two units
800	net electrical output reference plant
2.768625	Scaling factor
(rounded to 3)	

		Total Emissions (MT CO_2e)	
Preconstruction/Construction Equipment	7	78,000	used factor of 2
Preconstruction/Construction Workforce	7	86,000	used factor of 2
Plant Operations	40	362,000	used factor of 2
Operations Workforce	40	272,000	used factor of 2
Uranium Fuel Cycle	40	30,300,000	Used factor of 3
Fuel and Waste Transportation	40	0	
Decommissioning Equipment	10	57,000	Used factor of 3
Decommissioning Workforce	10	24,000	Used factor of 3
SAFSTOR Workforce	40	30,000	Used factor of 3
TOTAL[a]		2,740,939	

Kairos								
3415	AP1000 MW(t)							5410800000
35	Hermes MW(th)							0.0000337%
0.8	capacity factor	Reference Reactor	Hermes	Total Emissions (MT CO_2e)				
28	net thermal output one unit	Preconstruction/Construction Equipment	7	6	343	used factor of	0.01	0.010248902
1	number of units	Preconstruction/Construction Workforce	7	6	378	used factor of	0.01	
28	net thermal output one unit	Plant Operations	40	4	186	used factor of	0.01	
		Operations Workforce	40	4	139	used factor of	0.01	
28	net thermal output one unit	Uranium Fuel Cycle	40	4	553	used factor of	0.01	
2732	net thermal output reference plant	Fuel and Waste Transportation	40	4	14	used factor of	0.01	
0.010249	Scaling factor	Decommissioning Equipment	10	4	78	used factor of	0.01	
0.01	Rounded Scaling Factor	Decommissioning Workforce	10	4	33	used factor of	0.01	
		SAFSTOR Workforce	40	40	102	used factor of	0.01	
		TOTAL[a]			1,826			