

2022 Energy Resource Mix for: MAIDEN

Fuel Source	Energy Received from NCMPA1 (MWh)	% of Energy Consumed	Tons of CO ₂ Produced	REPS Requirement	REPS Requirement (MWh)
Nuclear	74,418	97.51%	-		
Gas(CT)	898	1.18%	435		
Fuel Oil	0	0.00%	0		
Coal	12	0.02%	13		
Unbundled Renewable Energy	5	0.01%	-		
Solar (Shelby Solar)	3	0.00%	-	0.20%	146
SEPA Hydro	984	1.29%	-	3.00%	2,184
Other Renewable Energy	-	0.00%	-	6.80%	4,951
TOTAL	76,319	100.00%	449	10.00%	7,281

2022 Energy Resource Mix for: NCMPA1

Fuel Source	Delivered to NCMPA1 Participants (MWh)	% of Energy Consumed	Tons of CO ₂ Produced	REPS Requirement	REPS Requirement (MWh)
Nuclear	5,173,675	97.62%	-		
Gas(CT)	66,875	1.26%	32,434		
Fuel Oil	14	0.00%	17		
Coal	667	0.01%	754		
Unbundled Renewable Energy	123	0.00%	-		
Solar (Shelby Solar)	203	0.00%	-	0.20%	10,161
SEPA Hydro	58,095	1.10%	-	3.00%	152,415
Other Renewable Energy	-	0.00%	-	6.80%	345,475
TOTAL	5,299,651	100.00%	33,205	10.00%	508,051

2022 CO ₂ Intensity		
MAIDEN	0.0118	lbs CO ₂ /kWh
NCMPA1	0.0125	lbs CO ₂ /kWh
Duke Energy Carolinas	0.5608	lbs CO ₂ /kWh

Notes:

- Calculated CO₂ Intensity # using EIA 2021 CO₂ emissions rates. (Source: [EIA](#))
- Duke Energy Progress Resource Mix applied. (Source: [NCUC December 2022 DEC Monthly Fuel Report](#))
- REPS requirement limits SEPA contribution to 3%. (Source: [REPS](#))
- 10% REPS requirement calculated from 2022 Retail Load Served (EIA-861).