Estimated CLCPA Cost for Wind and Solar Additional Capacity Needed for Citizen's Budget Commission Projected Load

CLCPA Target	Capacity (MW)	Technology	Region	Total overnight cost (2019 $/kW)	Capacity Factor (%)	Energy Produced (GWhr)	CLCPA Total overnight cost (2019 $million)
Offshore wind electric generation by 2035	9000	Wind offshore	NYCW	6,643	48%	37,843	59,787
Offshore wind electric generation by 2035	9000	Wind offshore	NYUP	5,446	48%	37,843	49,014

Citizen's Budget Commission Getting Greener
https://cbcny.org/research/getting-greener

Energy Information Administration Annual Energy Outlook 2020
https://www.eia.gov/outlooks/aeo/assumptions/pdf/table_8.2.pdf

Technology	2040 MW	CLCPA Needed Technology	Region	Overnight cost (2019 $/kW)		Energy (GWhr)	CLCPA Cost (2019 $million)
Existing Hydro	4,253					37,913	
Existing Wind	1,739					5,170	
Existing large-scale solar	32						
Existing other renewable	327						
NYSERDA Renewable Pipeline Wind	3,106	Onshore wind	NYUP	1,670		7,075	5,187
NYSERDA Renewable Pipeline Solar	2,174	Solar PV— tracking	NYUP	1,381		3,809	3,003
Existing Nuclear						16,987	
Natural Gas							
CLCPA Solar	4,795	Solar PV— tracking	NYUP	1,381		8,400	6,621
CLCPA Wind	8,990	Wind offshore	NYUP	5,446		37,800	48,958
Coal, Oil & Solid Waste							
Additional Residential Solar	11,395	NREL ratio	NYUP	2,652		15,971	30,219
Additional Utility-Scale Solar	9,116	Solar PV— tracking	NYUP	1,381		15,971	12,589
Additional On-Shore Wind	13,612	Onshore wind	NYUP	1,670		31,002	22,732
Additional Off-Shore Wind	7,373	Wind offshore	NYUP	5,446		31,002	40,154
				Estimated cost of additional new renewable generating resources for CLCPA			**169,462**