

Nameplate Generation Capacity (MW) Comparison of Analysis Group Resilience Study and Cornell Study Model 2040 Projections

[Climate Change Impact and Resilience Study Phase II](#)

Resilience Study		2040 Cornell Study			Delta Cornell - Resilience	Difference (%)
Table 9: CLCPA Resource Set		Generation	Capacity	Capacity		
Nameplate Capacity by Zone, MW	Total	(GWh)	Factor (%)	(MW)		
Land-based Wind	35,200	28,409	0.29	11,268	-23,932	-68%
Offshore Wind	21,063	122,727	0.54	25,714	4,651	22%
Solar (Behind the meter)	10,878	9,091	0.16	6,446	-4,432	-41%
Solar (Grid Connected)	39,262	6,818	0.16	4,834	-34,428	-88%
Hydro Pondage	3,573					
Hydro Pumped Storage	1,170	27,273	0.62	5,044	-612	-11%
Hydro Run-of-River	913					
Nuclear	3,364	19,318	0.92	2,392	-972	-29%
Imports	2,810					
Storage	15,600	7,500		5,800	-9,800	-63%
Price Responsive Demand (Summer)	5,236					
Price Responsive Demand (Winter)	3,412					
DE Resources	32,137					

Resilience Study		2040 Cornell Study			Delta Cornell - Resilience	Difference (%)
Table 10: CCP2 Reference Set		Generation	Capacity	Capacity		
Nameplate Capacity by Zone, MW	Total	(GWh)	Factor (%)	(MW)		
Land-based Wind	19,712	28,409	0.29	11,268	-8,444	-43%
Offshore Wind	20,250	122,727	0.54	25,714	5,464	27%
Solar (Behind the meter)	6,351	9,091	0.16	6,446	95	1%
Solar (Grid Connected)	34,354	6,818	0.16	4,834	-29,520	-86%
Hydro Pondage	3,573					
Hydro Pumped Storage	1,170	27,273	0.62	5,044	-612	-11%
Hydro Run-of-River	913					
Nuclear	3,364	19,318	0.92	2,392	-972	-29%
Imports	2,810					
Storage	7,800	7,500		5,800	-2,000	-26%
Price Responsive Demand (Summer)	2,618					
Price Responsive Demand (Winter)	1,706					
DE Resources	17,059					

Resilience Study		2040 Cornell Study			Delta Cornell - Resilience	Difference (%)
Table 11: Grid in Transition Reference Case		Generation	Capacity	Capacity		
Nameplate Capacity by Zone, MW	Total	(GWh)	Factor (%)	(MW)		
Land-based Wind	9,755	28,409	0.29	11,268	1,514	16%
Offshore Wind	13,767	122,727	0.54	25,714	11,947	87%
Solar (Behind the meter)	6,113	9,091	0.16	6,446	333	5%
Solar (Grid Connected)	30,043	6,818	0.16	4,834	-25,208	-84%
Hydro Pondage + Run of River	5,018					
Hydro Pumped Storage	1,171	27,273	0.62	5,044	-1,146	-19%
Nuclear	2,096	19,318	0.92	2,392	296	14%
Imports	1,100					
Storage	10,736	7,500		5,800	-4,936	-46%
Price Responsive Demand (SCR/EDRP)	3,163					
Renewable Natural Gas Dispatchable	20,618					
DE Resources (added by AG)	2,080					

Resilience Study		2040 Cornell Study			Delta Cornell - Resilience	Difference (%)
Table 12: Grid in Transition CLCPA Case		Generation	Capacity	Capacity		
Nameplate Capacity by Zone, MW	Total	(GWh)	Factor (%)	(MW)		
Land-based Wind	23,255	28,409	0.29	11,268	-11,986	-52%
Offshore Wind	25,102	122,727	0.54	25,714	612	2%
Solar (Behind the meter)	6,435	9,091	0.16	6,446	11	0%
Solar (Grid Connected)	31,669	6,818	0.16	4,834	-26,835	-85%
Hydro Pondage + Run of River	5,018					
Hydro Pumped Storage	1,171	27,273	0.62	5,044	-1,146	-19%
Nuclear	2,156	19,318	0.92	2,392	235	11%
Imports	1,100					
Storage	14,107	7,500		5,800	-8,307	-59%
Price Responsive Demand (SCR/EDRP)	4,500					
Renewable Natural Gas Dispatchable	33,702					
DE Resources (added by AG)	5,836					