



Incremental ELCC MW Results Annual

Effective Capacity Provided by Different Resources, 2020

Incremental Nameplate Capacity (MW)		Charging From	25 MW	50 MW	100MW	200MW	300MW	400MW	500MW
Standalone	3hr	Grid	25	50	99	164	195	218	237
Battery	4hr	Grid	25	50	100	181	217	243	263
	6hr	Grid	25	50	100	196	253	278	297
	6hr	Grid			100	196	253	278	297
Pumped Storage	8hr	Grid			100	200	276	303	323
	10hr	Grid			100	200	290	323	343
Solar PV	Simulated			2	4	6	7		
	Simulated With Snow Losses			2	3	5	7		
	Historical			1	2	3	3		
Wind	Historical			3	5	10	14		
	Simulated			6	10	18	23		
4-Hr Storage + Solar	25% of Solar PV (AC)	Grid			29				
	50% of Solar PV (AC)	Grid			54				
	100% of Solar PV (DC) ^X	Grid			100				
	200% of Solar PV (AC)*	Grid			196				
	25% of Solar PV (AC)	Solar			28				
	50% of Solar PV (AC)	Solar			52				
	100% of Solar PV (DC) ^X	Solar			95				
	125% of Solar PV (AC)*	Solar			97				
	200% of Solar PV (AC)*	Solar			100				
4-Hr Storage + Wind	25% of Wind	Grid			30				
	50% of Wind	Grid			54				
	100% of Wind	Grid			100				
	25% of Wind	Wind			29				
	50% of Wind	Wind			51				
	100% of Wind	Wind			84				
	125% of Wind*	Wind			91				

^XDC-coupled Solar resources assumed to have an inverter loading ratio of 1.7

*Interconnection limit is assumed to be matched with the capacity of the largest resource

Updated 12/30/20