Calculated Cost Breakdown $ per kWh Parameters for a U.S. Li-ion Standalone Storage System

				Solar Installation Only				Solar & Wind	
			MWhr	**8**	**16**	**18**	**3**	**8**	**15**
			Duration	**2**	**4**	**6**	**3**	**3**	**3**
			Capacity	**4**	**4**	**3**	**1**	**2.7**	**5**
	$/kWh Parameters								
Model Component	**Intercept**	**Slope**	**R squared**	**$/kWh**	**$/kWh**	**$/kWh**	**$/kWh**	**$/kWh**	**$/kWh**
Li-ion battery	Fixed $/kWh			209	209	209	209	209	209
Battery central inverter	0.30348	69.8087	100%	35.2	17.8	11.9	23.6	23.6	23.6
Structural BOS	10.6957	8.5913	99.95%	15.0	12.8	12.1	13.6	13.6	13.6
Electrical BOS	20.6957	60.5913	100%	51.0	35.8	30.8	40.9	40.9	40.9
Installation labor & equipment	9.69565	52.5913	100%	36.0	22.8	18.5	27.2	27.2	27.2
EPC overhead	7.21739	18.4348	99.94%	16.4	11.8	10.3	13.4	13.4	13.4
Sales tax	18.3913	14.7826	99.80%	25.8	22.1	20.9	23.3	23.3	23.3
∑ EPC cost				**388**	**332**	**313**	**351**	**351**	**351**
Land acquisition	Fixed total cost			0.00	0.00	0.00	0.00	0.00	0.00
Permitting fee	Fixed total cost			0.00	0.00	0.00	0.00	0.00	0.00
Interconnection fee	Fixed total cost			0	0	0	0	0	0
Contingency	8	8	100.00%	12.0	10.0	9.3	10.7	10.7	10.7
Developer overhead	8	8	100.00%	12.0	10.0	9.3	10.7	10.7	10.7
EPC/developer net profit	14.6957	14.1913	99.97%	21.8	18.2	17.1	19.4	19.4	19.4
∑ Developer cost				**46**	**38**	**36**	**41**	**41**	**41**
∑ Total energy storage system cost				**434**	**370**	**349**	**392**	**392**	**392**
			NREL Energy Storage Benchmark Prices ($millions)						
				$ 3.5	$ 5.9	$ 6.3	$ 1.2	$ 3.2	$ 5.9
Number of battery storage systems needed				3	1	2	1	1	1
				$ 10.4	$ 5.9	$ 12.6	$ 1.2	$ 3.2	$ 5.9
			Total cost	**$ 30.1**			**Total cost**	**$ 9.05**	