

Tier 3 Battery Storage Systems comparisons

Tier 3 Battery Energy Storage Systems have an aggregate energy capacity greater than 1MWh or are comprised of more than one storage battery

Minimum Size of Tier 3 is

a 1MWh container 8'W x 20'L x 8.5'H

ARUP

BESS Benchmarking

- BESS facilities come in a wide range of sizes
- Serve a wide range of purposes
- Typically measured in electrical capacity (MW, or MWh)

BESS Application	Approximate Anticipated Capacity Ranges	Approximate # of Houses Powered
Investor-owned public utility	5-500 MW / 10-1,200 MWh	~330 – 40,000
Municipality-owned public utility	5-50 MW / 10-100 MWh	~330 – 3,300
Private landowner	0.25-2 MW / 0.5-8 MWh	~17 – 270
Private residential	0.002-0.005 MW / 0.005-0.015 MWh	~0.2 – 0.5



For comparison Cranberry Point at 300 MWh is Tier 3

Tier 2 Battery Storage Systems comparisons

.5 MWh container 10'W x 8'L x 8.5' H



Tier 2 Battery Energy Storage Systems have an aggregate energy capacity equal to or greater than 0.5 MWh but less than 1MWh or are comprised of more than one storage battery technology in a room or enclosed area.

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500kWh Container

ESS10ft

Tier 1 Battery Storage Systems comparisons aggregate energy capacity less than 0.5MWh

100 or 200 kWh cabinet
8.9'W x 6.6'D x 8.3'H



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200kWh Integrated
ESS 

60 kWh cabinet 7.9'W x 3.6'D x 8'H



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60kWh Integrated ESS

Residential Battery Storage comparison

A Tesla Powerwall 2 \approx 13.5 kWh
74 of these home units \approx 1 MWh

A Powerwall battery costs **\$12,850**.
You can buy up to ten for a house
if you also bought their solar system



There are 1000 kWh in a MWh