

01-25-25 data from https://storagewiki.epri.com/resources/assets/BESS_Failure_Database/Failure_DB_List.csv
 filtered to list US sites and incidents occurring in last 5 years
 A revised edition of UL 9540a includes updates for large-scale fire testing. It went into effect on July 15, 2022

Location	MWh	Enclosure Type	Event Date	System Age	Extent of Damage	Description	Source
US, CA, Moss Landing	1200	Building	1/16/2025			A fire broke out in Vistra's 300 MW / 1200 MWh Phase I BESS plant. Firefighters are using a "monitor and contain" approach and allowing the fire to burn itself out. The police issued evacuation orders and closed two nearby roads and a highway, and the local school district closed all schools. The Moss Landing site is home to two separately owned BESS systems: PG&E's Elkhorn system, and Vistra's Moss Landing systems (Phase I, II, and III). The Phase I Vistra system experienced an incident in 2021 and came back online in 2022. This incident will continue to be updated with more information.	
US, CA, Escondido	120	Container	9/5/2024	4.1			Energy Storage News
US, CA, Santa Ana		Industrial	7/17/2024	7.6	Damage to single container	One of 24 containers caught fire. Businesses adjacent to the substation	San Diego Union Tribune
USA, CA, San Diego	250	Building	5/15/2024	3.7		A BESS fire occurred in an industrial area, leading to a 1 hour evacuation	OC Register
USA, ID, Melba	8	prefab	10/2/2023	0	Several stacks appeared to be burnt	The Gateway Energy Storage Facility was involved in a fire, and water was used to extinguish it	The San Diego Union-Tribune
US, CA, Valley Center	560	Container	9/18/2023	1.6	Damage to single container	Battery fire at the substation was reported, leading to road closures. The fire was contained and the facility was back online.	KTVB7
US, NY, Chaumont	15	Container	7/27/2023	0.4		Fire in one of the containers. This is the 2nd event that this system has experienced.	Valley Road Runner
						Fire was reported in an outdoor storage facility co-located with solar panels.	7 News WWNYTV

US, NY, Warwick	17.9	Integrated produ	6/27/2023		This event is one half of a larger simultaneous failure across 2 discrete :
US, NY, Warwick	36	Integrated produ	6/26/2023	0.1 It is unclear if this site experienced a i	Convergent Energy and Power
US, NY, East Hampton	40	Building	5/31/2023	0.1 Multiple racks destroyed	This event is one half of a larger simultaneous failure across 2 discrete : Convergent Energy and Power
US, PA, Millvale		Building	1/30/2023	4.8	A 'smoldering battery' was reported, closing down roads and stopping : East Hampton Star
				System destroyed with severe damag	Relatively small battery system in the basement of a commercial build: WTAE

US, CA, Moss Landing 730

Container

9/20/2022

Fire in one Megapack unit at PG&E Elkhorn battery facility

USA, Wyoming, Yellowstone Natl	Building	9/6/2022	0.5	Exterior of building was undamaged.	Smoke was seen coming from a building housing a solar plus storage sy	KSBW News
US, CA, Rio Dell	Prefab	8/3/2022	4	Explosion. Nearby building damage	Operational	National Park Service
US, AZ, Chandler	40 Building	4/18/2022	3		Operational	KRCR
US, CA, Valley Center	560 Container	4/5/2022	0.2	Damage to single rack	Operational	AZ Central
US, CA, Moss Landing	400 Building	2/13/2022	1	Burnt racks	Operational	Valley Road Runner
US, CA, Moss Landing	1200 Building	9/4/2021	0.8	Scorched racks, melted wires		KSBW News
US, IL, LaSalle	36 Container	7/19/2021	1.6		One container at a BESS plant caught fire. The fire was extinguished lat	Vistra
US, MI, Standish	Container	4/19/2021		Fire	Sparks were seen coming out of a BESS container. A fire broke out, and WSGW	WSPY
US, AZ, Surprise	2 Prefab	4/19/2019	2.083333	Explosion from opening container	The cause was found to be an internal cell defect, which initiated a cas	APS Investigation Report

21 over 5 yr, 7 of which were container designs, but pre-2022 designs not 9540/9540a certified