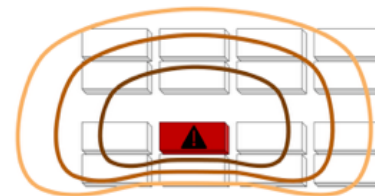


BESS Failure Event Database

This is a public resource for documenting publicly-available data on battery energy storage failure events from around the world. All information included is available in the linked public documents. If there is a public event that is not included in the BESS Fire Event Database, please email the relevant information and link to supporting info to our [Storage Safety email \(mailto:Storage-Safety@epri.com\)](mailto:Storage-Safety@epri.com).

If you would like to be notified when a new event is added to this database or are interested in other EPRI energy storage safety research resources and opportunities please reach out to our [Storage Safety email \(mailto:Storage-Safety@epri.com\)](mailto:Storage-Safety@epri.com).



Stationary Energy Storage Failure Events

This table tracks utility and C&I scale energy storage failure events with publicly available information.

Note: Missing values in this table reflect unknowns.

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Location	Energy (MWh)	Power (MW)	Module Type	Application	Installation	Event Date	System Age (yr)	State During Accident	Source
US, PA, Millvale			SimpliPhi Power (LFP)	Solar Integration	Urban	30 January 2023		Operational	WTAE (https://www.wtae.com/article/millvale-fire-sprezzatura-food-energy-hub/42708022)
South Korea, Jeollanam-do, Yeongam-gun, Geumjeong-myeon	251			Solar Integration	Rural	27 December 2022	1.8	Operational	E2News.com (http://www.e2news.com/news/articleView.html?idxno=249345)
South Korea, Jeollanam-do, Damyang-gun, Mujeong-myeon, Deokgok-ri	9.1	2.5	Samsung SDI	Solar Integration	Rural	8 December 2022	5.5	Operational	E2News.com (http://www.e2news.com/news/articleView.html?idxno=248625)
China, Hainan	50	25	Ruipu	Solar Integration		20 October 2022	0	Commissioning	china5e.com (https://www.china5e.com/news/news-1142303-0.html)
US, CA, Moss Landing	730	182.5	Tesla	Energy Shifting, Ancillary Services	Substation	20 September 2022	0.5	Operational	KSBW News (https://www.ksbw.com/amp/article/fire-battery-storage-facility-moss-landing/41293594)
									Teller Report (https://www.tellerreport.com/tec)

South Korea, Incheon		103		Energy Shifting	Factory	6 September 2022		Operational	h/2022-09-06-fire-at-hyundai-steel-plant-in-incheon----flames-and-black-smoke-rising.SkbNbb7Vej.html
US, CA, Rio Dell			Lead Acid	Solar Integration / Backup	Rural	3 August 2022	4	Operational	KRCR (https://krctv.com/north-coast-news/eur-eka-local-news/battery-storage-container-explodes-rocking-rio-dell-rv-park)
US, AZ, Chandler	40	10	LG Chem [NMC]		Substation	18 April 2022	3	Operational	AZ Central (https://www.azcentral.com/story/money/business/energy/2022/04/21/fire-crew-s-tend-massive-smoldering-battery-chandler-facility/7405430001/)
US, CA, Valley Center	560	140	LG Energy Solution		Substation	5 April 2022	0.2	Operational	Valley Road Runner (https://www.valleycenter.com/articles/sprinklers-quickly-douse-terra-gen-fire/)
Longjing, Taichung City, Taiwan	1	1		Solar Integration	Power Plant	30 March 2022	2	Operational	Economic Daily (https://money-udn.com.translate.google.money/story/11799/620479?_x_tr_sl=zh-CN&_x_tr_tl=en&_x_tr_hl=en&_x_tr_pto=wapp)
US, CA, Moss Landing	400	100	LG Energy Solution	Solar Integration	Power Plant	13 February 2022	1	Operational	KSBW News (https://www.ksbw.com/article/second-battery-malfunction-in-less-than-6-months-reported-at-moss-landing-power-plant/39083568)
South Korea, Gunwi-gun,	1.5	0.45	LG Energy	Solar integration	Rural	17 January	3	Operation.	E2News (https://www.e2news.com.translate.google/news/articleView.html?idx

<u>Gyeongsangbuk-do</u>			Solution			2022		Fully charged	no=239023&_tr_sl=auto&_tr_tl=en&_tr_hl=en-US&_tr_pto=wapp
<u>South Korea, Nam-gu, Ulsan</u>	50	10	SK Innovation	Peak Load Reduction	Urban	12 January 2022	2	Operational	E2News (https://www.e2news.com.translate.google/news/articleView.html?idxno=238938&_tr_sl=auto&_tr_tl=en&_tr_hl=en-US&_tr_pto=wapp)
<u>US, CA, Moss Landing</u>	1,200	300	LG Energy Solution	Solar Integration	Power Plant	4 September 2021	0.8		Vistra (https://investor.vistracorp.com/news?item=197)
<u>Australia, Victoria, Geelong</u>	450	300	Tesla	Grid Stability	Rural	30 July 2021	0	Construction, Commissioning	ABC News (https://www.abc.net.au/news/2021-07-30/tesla-battery-fire-moorabool-geelong/100337488)
<u>US, IL, LaSalle</u>	72	72	LFP	Frequency Regulation	Rural	19 July 2021	1.6		The Times (https://www.shawlocal.com/mywebsites/news/local/2021/07/19/no-evacuations-for-battery-fire-at-energy-storage-facility-east-of-grand-ridge/)
<u>Germany, Neuhardenberg</u>	5	5	[LFP]	Solar Integration and Frequency Regulation	Indoor/Hangar	18 July 2021	5		RBB 24 (https://www.rbb24.de/politik/beitrag/2021/07/brandenburg-neuhardenberg-brandschutz-batterie-solaranlage-feuerwehr.html)
<u>Boulouparis, New Caledonia, France</u>				Solar Integration	Rural	13 July 2021			FranceTVInfo.fr (https://la1ere.francetvinfo.fr/nouvellecaledonie/province-sud/boulouparis/centrale-photovoltaique-helio-a-boulouparis-les-consequences-de-l-explosion-1059016.html)

<u>US, MI, Standish</u>			Demand Charge Mgmt	Substation	19 April 2021	0	Installation	WSGW (https://www.wsgw.com/standish-battery-installation-fire-causes-shelter-in-place-no-adverse-conditions-found/)	
<u>China, Beijing</u>	25		Gotion High-Tech [LFP]	Solar Integration	Commerce Area	16 April 2021	2	Construction, Commissioning	CTIF Accident Analysis (https://www.ctif.org/news/accident-analysis-beijing-lithium-battery-explosion-which-killed-two-firefighters)
<u>Australia, Bohle Plains</u>	8	4	Tesla			7 April 2021	1.2		Townsville Bulletin (https://www.townsvillebulletin.com.au/subscribe/news/1/?sourceCode=TBWEB_WRE170_a_GGL&dest=https%3A%2F%2Fwww.townsvillebulletin.com.au%2Fnews%2Ftownsville%2Ffire-damages-yurikas-battery-facility-in-bohle-plain%2Fnews-story%2F442b8c00b6df5690e772b168d98b1579&memtype=anonymous&mode=premium)
<u>South Korea, Hongseong</u>			LG Energy Solution	Solar Integration		6 April 2021	3		Business Korea (http://www.businesskorea.co.kr/news/articleView.html?idxno=64241)
<u>Gogyeong-myeon, Gyeongsangbuk-do, South Korea</u>	4		LG Energy Solution	Solar Integration		11 March 2021			Newspim (https://www-newspim-com.translat.e.goog/news/view/20210311001212?_x_tr_sl=auto&_x_tr_tl=en&_x_tr_hl=en-US)
									FranceTVInfo.fr (https://france3-regions.france)

France, Ariège	0.5	0.5			Substation	1 December 2020			tvinfo.fr/occitane/ariege/foix/batteries-au-lithium-prennent-feu-x-container-ariege-1900866.html
UK, Liverpool	10	20	LG Chem [NMC]	Frequency Regulation	Substation	15 September 2020	1.5		Energy Storage News (https://www.energy-storage.news/news/fire-at-20mw-uk-battery-storage-plant-in-liverpool)
South Korea, Haenam	1.8	0.5		Solar Integration	Field	27 May 2020	2.2		E2News.com (http://www.e2news.com/news/articleView.html?idxno=222794)
Australia, Brisbane			[LFP]	Solar Integration		17 March 2020	6.7		Brisbane Times (https://www.brisbanetimes.com.au/national/queensland/firefighter-injured-in-overnight-blaze-at-griffith-university-campus-20200316-p54aet.html)
South Korea, North Jeolla, Jangsu	1			Solar Integration	Mountains	26 May 2019	1	Charged, discharging	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/npresse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, North Gyeongsang, Chilgok	3.7			Solar Integration	Mountains	4 May 2019	2.2	Charged, inactive	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/npresse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
US, AZ, Surprise	2	2	LG Chem [NMC]	Volt Reg., PQ, Solar int.	Substation	19 April 2019	2		APS (https://www.aps.com/en/About/Our-Company/Newsroom/Articles/Equipment-failure-

								at-McMicken-Battery-Facility)
<u>US, OR, Tualatin</u>		Powin Energy	Manufacturing/Testing		11 April 2019	0		Oregon Live (https://www.oregonlive.com/washingtoncounty/2019/04/fire-breaks-out-during-battery-test-at-tualatin-warehouse.html)
<u>South Korea, Ulsan</u>	46.8		Demand Charge Mgmt	Factory	21 January 2019	0.6	Charged, inactive	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
<u>South Korea, North Jeolla, Jangsu</u>	2.5		Solar Integration	Mountains	15 January 2019	0.8	Charged, inactive	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
<u>South Korea, South Gyeongsangnam, Yangsan</u>	3.3		Demand Charge Mgmt	Factory	14 January 2019	0.8	Charged, inactive	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
<u>South Korea, South Jeolla, Wando</u>	5.2		Solar Integration	Mountains	14 January 2019	1.2	Charging	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
<u>South Korea, Gangwon, Samcheok</u>	2.7		Solar Integration	Mountains	22 December 2018	1	Charged, inactive	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do)

								o?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, North Chungcheong, Jecheon	9.3	Demand Charge Mgmt	Mountains	17 December 2018	1	Charged, inactive		MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, South Gyeongsang, Geochang	1.3	Solar Integration	Mountains	21 November 2018	0.6	Charged, inactive		MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, Gyeongsangbuk-do, Mungyeong	4.2	Solar Integration	Mountains	21 November 2018	0.9	Charged, inactive		MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, North Gyeongsang, Yeongju	3.7	Solar Integration	Mountains	12 November 2018	0.8	Charged, inactive		MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, South Chungcheong, Cheonan	1.2	Solar Integration	Mountains	12 November 2018	0.9	Charged, inactive		MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
				18				MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/)

South Korea, Gyeonggi, Yongin	17.7	Frequency Regulation	Factory	October 2018	2.6	Maintenance	presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, Jeju	0.2	Solar Integration		14 September 2018	4	Charging	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, Chungcheongnam, Taeon	6	Solar Integration	Waterfront	7 September 2018	0	Installation	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, Chungcheongbuk-do, Yeongdong	6	Solar Integration	Mountains	1 September 2018	0.7	Charged, inactive	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, Sejong	18	Demand Charge Mgmt	Factory	28 July 2018	0	Installation	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, South Gyeongsang, Geochang	9.7	Wind Integration	Mountains	21 July 2018	1.6	Charged, inactive	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/ne/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
							MOTIE Investigation,

South Korea, South Jeolla, Haenam	3	Solar Integration	Waterfront	12 July 2018	0.6	Charged, inactive	June 2019 (http://www.motie.go.kr/motie/neo/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, North Jeolla, Gunsan	19	Solar Integration	Waterfront	15 June 2018	0.5	Charged, inactive	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/neo/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)
South Korea, South Jeolla, Yeongam	14	Wind Integration	Mountains	2 June 2018	2.4	Maintenance	MOTIE Investigation, June 2019 (http://www.motie.go.kr/motie/neo/presse/press2/bbs/bbsView.do?bbs_cd_n=81&bbs_seq_n=161771)

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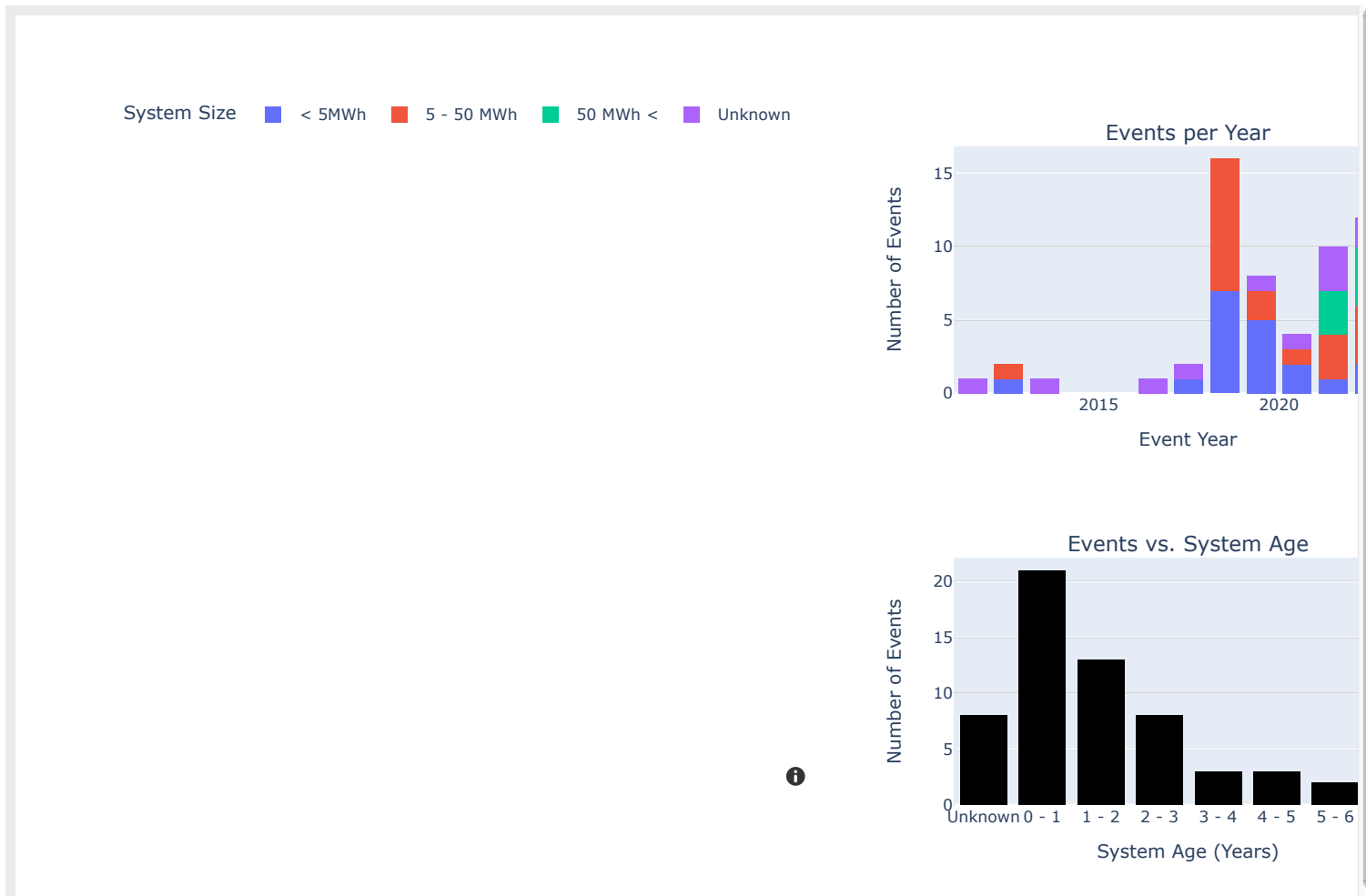


Figure 1. A breakdown of the stationary energy storage failure events from the above table.

Other Energy Storage Failure Events

This table tracks other energy storage failure events for scenarios that do not fit the criteria of the table above. This could include energy storage failures in settings like electric transportation, recycling, manufacturing, etc.

Note: Missing values in this table reflect unknowns.

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Location	Setting	Capacity (MWh)	Capacity (MW)	Operator / Integrator	Event Date	System Age (yr)	State During Accident	Description	Source
France, Rouen	Warehouse				16 January 2023		Storage	A fire spread through a warehouse containing thousands of lithium ion batteries.	the deep dive (https://thedeepdive.ca/huge-fire-breaks-out-at-a-french-warehouse-holding-thousands-of-lithium-batteries/) Electrek (htt

US, CA, Baker	Electric Vehicle Charging Station		Tesla	1 January 2023		Operational	This Megapack on a trailersystem is used to boost charging infrastructure at busy supercharger stations during peak times.	ps://electrek.co/2023/01/04/tesla-mobile-sup-ercharger-megapack-caught-on-fire/
Germany, Kaufbeuren	Battery test laboratory			3 November 2022		Testing	A battery exploded while undertest at an Intertek battery testing facility.	Allgau Newspaper (https://www.allgaeuer-zeitung-de.cdn.ampproject.org/c/s/www.allgaeuer-zeitung.de/allgaeuer/kaufbeuren/explosion-in-kaufbeuren-neugablonz-batterie-testlabor-in-die-luft-geflogen_arid-490378?type=amp)
US, CA, Palo Alto	EV Dealership		Tesla	7 August 2022		Storage	Failure within a stack of uninstalled EV batteries led to thermal runaway and damage to all batteries and some nearby property.	Palo Alto Fire Dept. (https://www.paloaltoonline.com/news/reports/1681511833.pdf)
Netherlands, Amsterdam	Maritime	0.7	EST-Floatch	25 July 2022	1	In transit / operation	Battery fire on Diesel-Electric hybrid river boat	The Maritime Executive (https://maritime-executive.com/article/river-cruise-ship-ev-acuated-after-possible-battery-explosion)
US, WI, Milwaukee	Hospital parking garage			21 June 2022		recycling bin	Container holding recycled batteries exploded in parking garage	WISN (https://www.wisn.com/articles/batteries-explode-in-milwaukee-hospital-parking-garage/40362133)
								SVT

Sweden, Karlskoga	Warehouse	10 April 2022	A fire outside of a warehouse where a large number of batteries were being stored.	Nyheter (https://www.svt.se/nyheter/lokalt/orebro/det-brinner-i-ett-batterilager-i-karlskoga-kraftig-rok)
South Korea, North Chungcheong, Cheongju	Manufacturing EcoPro BM	21 January 2022	Operational Manufacturing Facility	Korea JoongAng Daily (https://koreajongangdaily.joins.com/2022/01/21/national/social-affairs/fire-cheongju-EcoPro-BM/20220121174332885.html)
China, Wuhan	On highway during transport	12 January 2022	during transportation	Jimu News (https://news-cn-hubei.com.translate.google.com/content/2022-01/13/content_14407245.html?_x_tr_sch=http&_x_tr_sl=auto&_x_tr_tl=en&_x_tr_hl=en-US&_x_tr_pto=wap)
US, IL, Morris	Warehouse Superior Battery Inc.	2 July 2021		ABC (https://abc7chicago.com/morris-fire-update-battery/10853284/)

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