

Lithium-ion battery incident reporting

The proliferation of lithium-ion batteries and the products that run on them has resulted in an exponential increase in incidents resulting in injuries and fatalities.

7,741

518

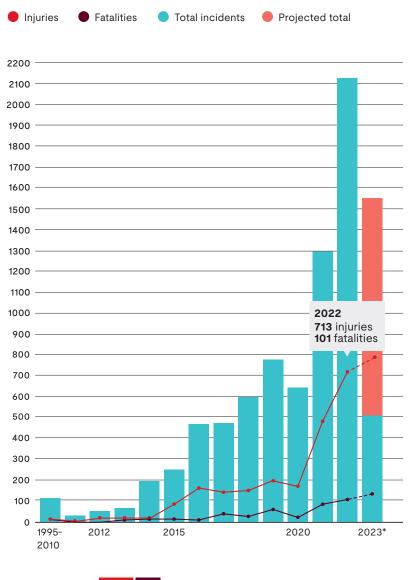
incidents in 2023 to date



Knowledge is power

Tracking and transparent reporting of battery-related incidents — including product type, what happened and the impact — is critical to helping drive understanding of this technology and where the greatest risks exist.

Increase in total incidents over time



Total over time:

2,431

401

*2023 projected based on Q1 2023 data

Total incidents reported for each category

(1995-2023 YTD)



CONSUMER PRODUCTS

1,159

114

total injuries

total fatalities



ELECTRIC VEHICLES (>20MPH)

91

69

total injuries

total fatalities



MICRO-MOBILITY
DEVICES (<20MPH)

1,140 total injuries

214 total fatalities



ENERGY STORAGE SYSTEMS

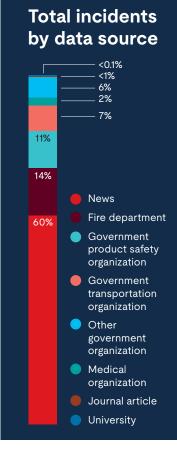
14

4

total injuries

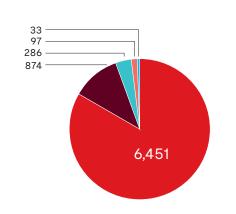
total fatalities

Incidents reported by country Injuries Fatalities Other incidents U.K. 62% <1% 23% 50% - 76% Singapore 5% Incident awareness and analysis Reporting is critical to understanding the depth and nature of this challenge. With limited visibility into battery incidents globally, we know this data is just the 31% All countries 63% Germany 56% China 47% beginning - there are many more incidents occurring than are being reported. Some countries release bulk estimates rather than individual data points. Others, like Japan, provide weekly data points through the National Institute of Technology and Evaluation.



Reported incidents by type

- Heat Hot, no gas released
- Swelling Increased in size, may be hot, no gas released
- Venting
 Gas released, may be hot and/or swollen
- Fire
 Gas released and ignited
- Explosion
 Gas released, quick ignition causing loud sound and pressure increase



Incidents over time by battery status

