



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.

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.

12,383

total incidents

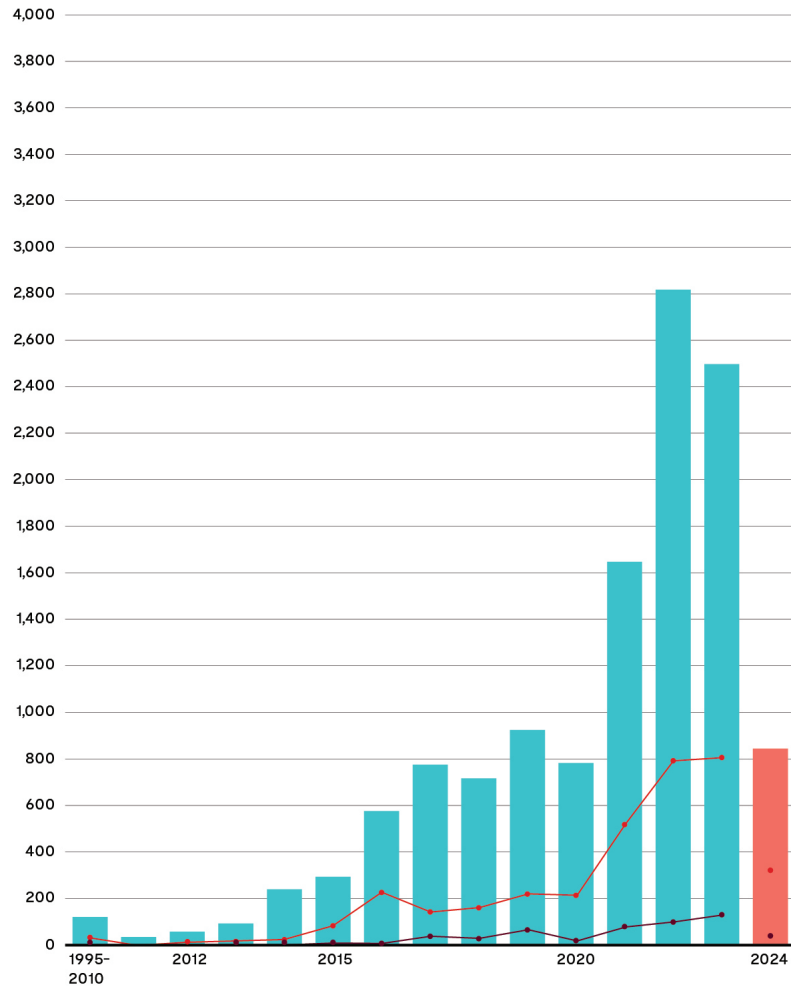
842

incidents in 2024 to date



Increase in total incidents over time

● Injuries ● Fatalities ● Total incidents ● Year-to-date



Total over time: **3,604** **541**

2023 incidents are incomplete, with additional reports anticipated through Q2.

Total incidents reported for each category

(1995-2024 YTD)



CONSUMER PRODUCTS

1,716

total injuries

150

total fatalities



ELECTRIC VEHICLES (>20MPH)

126

total injuries

90

total fatalities



MICRO-MOBILITY DEVICES (<20MPH)

1,702

total injuries

297

total fatalities



ENERGY STORAGE SYSTEMS

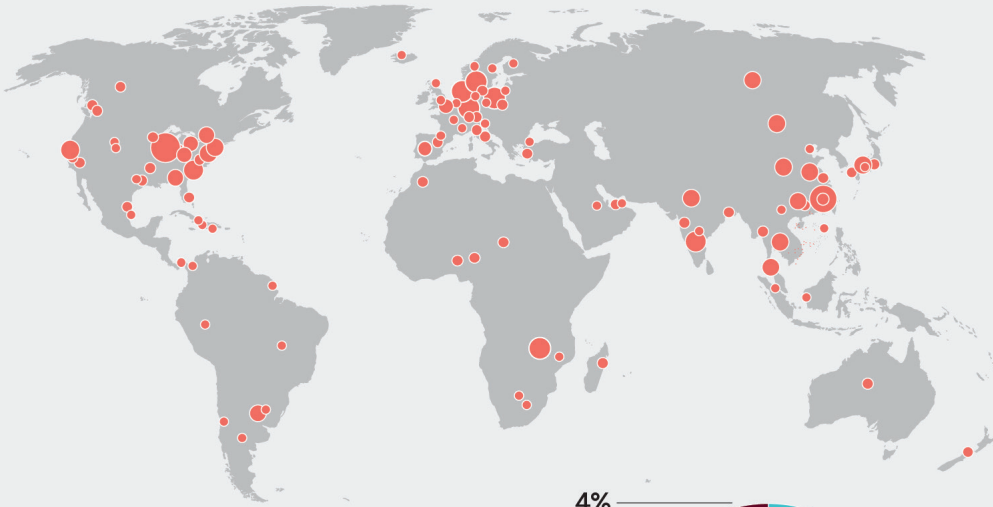
60

total injuries

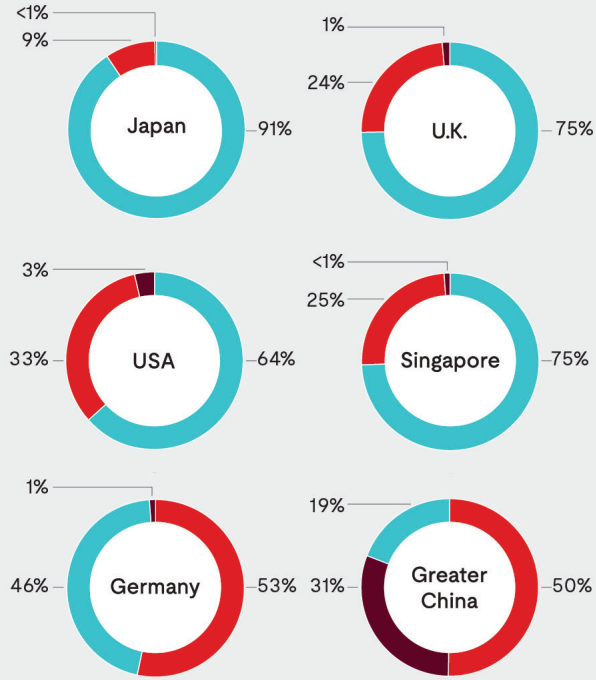
4

total fatalities

Incidents reported by country

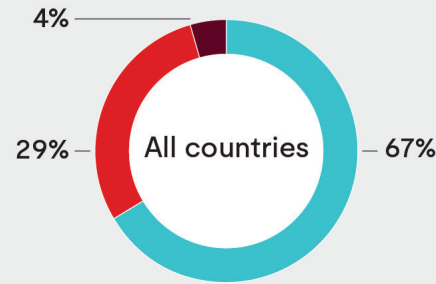


● Injuries ● Fatalities ● Other incidents

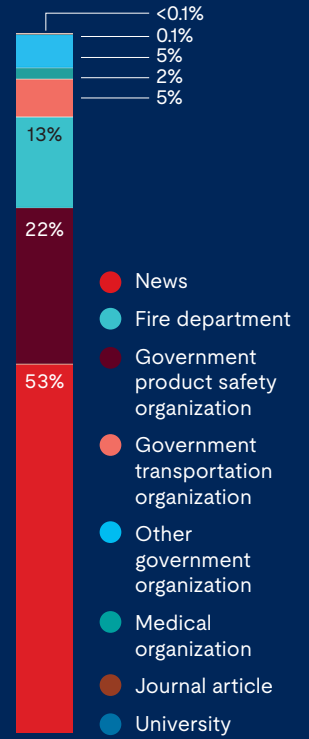


Incident awareness and analysis

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 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.

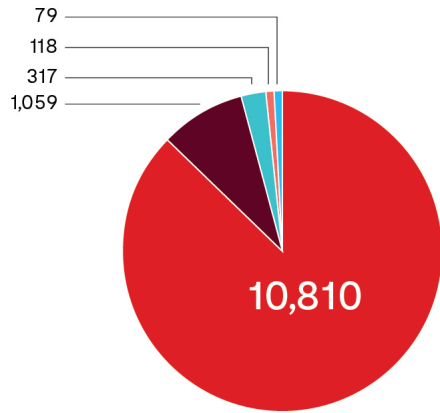


Total incidents by data source



Reported incidents by type

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



Incidents over time by battery status

