



THE RECHARGEABLE SOCIETY: Achieving Progress Through Standards, Education, and Advocacy

Rechargeable devices are now part of everyday life, from how we move to how we power communities. As use grows, so do safety challenges, especially in shared environments.

Protecting people requires more than technology. To keep pace with a rapidly evolving, battery-powered world, it takes coordinated action across standards, education, and advocacy — areas where UL Standards & Engagement works to advance safer outcomes.

Standards

Establish safety foundations and enable innovation to thrive

Standards are essential to building a safer rechargeable society. They establish clear requirements that help ensure products are designed, tested, and manufactured with safety in mind.

ULSE has developed more than 80 standards that address risks for lithium-ion batteries and the devices that rely on them, helping provide a critical layer of protection for consumers and a strong foundation for industry.

Together, these standards:



Establish a baseline for safety and performance across products



Guide safer design and manufacturing practices from the start



Create consistency across markets and supply chains



Build consumer trust and confidence in the products they use

Education

Empowering consumers to make safe choices

Education is a critical layer of protection in a rechargeable society. ULSE helps turn safety knowledge into real-world action by equipping people to better understand and reduce lithium-ion battery risks in everyday settings.

1 Research and Insights

Understanding behavior is key to reducing risk:

- Surveys and focus groups uncover awareness gaps and unsafe practices
- Reports translate findings into actionable safety guidance

2 Programs and Campaigns

ULSE initiatives advance safety with industry and the public:

- Thermal Runaway Incident Program: Improves understanding of aviation battery incidents through voluntary industry reporting
- Passenger Awareness Campaign: Promotes safe travel behaviors for rechargeable devices

3 Outreach and Resources

Engaging stakeholders across sectors to expand access to safety information:

- Webinars, events, and public-facing resources that share best practices and support safer decision-making
- Model legislation and campus model policy to help guide safer environments

Advocacy

Helps ensure policies reflect real-world risks and proven solutions

Protecting people in a battery-powered world requires more than technology. It requires strong, coordinated policy. ULSE works to align policy with real-world risk, using data, standards, and partnerships to advance effective safety solutions.

This work comes to life through active engagement with policymakers and partners, as well as support for policies grounded in proven standards. This includes:



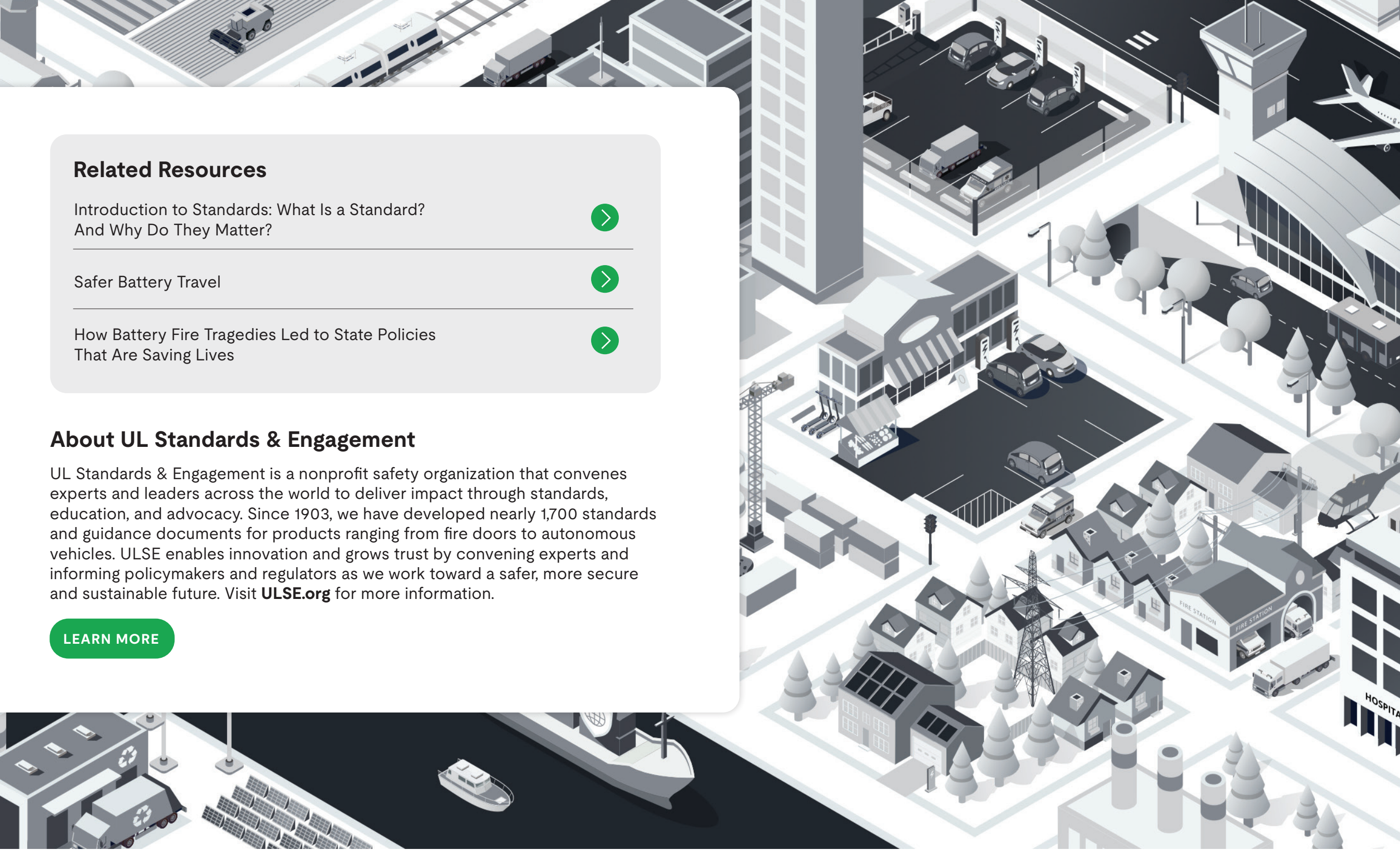
Working with government leaders, industry, and coalition groups to strengthen safety requirements



Advancing policies built on ULSE standards that address lithium-ion battery risks

Policy in Action

- Following New York's Local Law 39, which requires e-mobility devices and batteries to meet ULSE safety standards before sale, lease, or rental, deaths from e-mobility fires fell to one in just two years.
- In addition to strict enforcement, ULSE standards also played a key role in incentives such as uncertified e-bike trade-in programs, and battery charging and swapping stations, which have helped NYC delivery workers and commuters adapt to the new law.

An isometric illustration of a city scene. In the top left, a train tracks with a train and a truck. In the top right, a parking lot with several cars and a truck. In the center, a tall skyscraper. To the right, an airport terminal with a plane taking off. Below the airport, a residential area with houses, trees, and a fire station. In the bottom left, a port area with a ship, a boat, and solar panels. In the bottom right, a hospital building. The entire scene is rendered in a clean, modern, isometric style with a muted color palette.

Related Resources

Introduction to Standards: What Is a Standard?
And Why Do They Matter?



Safer Battery Travel



How Battery Fire Tragedies Led to State Policies
That Are Saving Lives



About UL Standards & Engagement

UL Standards & Engagement is a nonprofit safety organization that convenes experts and leaders across the world to deliver impact through standards, education, and advocacy. Since 1903, we have developed nearly 1,700 standards and guidance documents for products ranging from fire doors to autonomous vehicles. ULSE enables innovation and grows trust by convening experts and informing policymakers and regulators as we work toward a safer, more secure and sustainable future. Visit **ULSE.org** for more information.

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