









CHARGE INTO SAFETY!

ELECTRICAL VEHICLE FIRES PREVENTION & RESPONSE

Electrical Vehicle (EV) fires are **DIFFERENT**, not impossible. They present **UNIQUE HAZARDS** that firefighters must understand.

WHAT MAKES EV FIRES CHALLENGING?

-  EV fires are increasing risk as vehicle numbers grow
-  High-voltage systems introduce **ELECTRICAL** and **SHOCK HAZARDS**
-  Lithium-ion batteries can release **TOXIC** and **FLAMMABLE VAPORS**
-  Battery Damage or overheating can trigger **THERMAL RUNAWAY**
-  EV Fires can reignite hours or even days later
-  Battery packs may take 12—24 hours to fully cool off

Picture by: Lindsey Rogers, Chattanooga Fire



Thermal runaway is a chain reaction inside the battery, not an explosion—but it can be violent and unpredictable



EV Fires do **NOT** burn “without oxygen” - they generate oxygen internally during battery breakdown, which is why cooling is **CRITICAL**

Large volumes of water are often needed for cooling, not extinguishment (removes heat)

