

# FIRE SAFETY

## NEW CHALLENGES

NEW MATERIALS AND TECHNOLOGIES ARE MAKING FIRE-RELATED RISKS MUCH GREATER AND THE CHALLENGES OF FIRE SAFETY VERY DIFFERENT TODAY.

**350%**

LITHIUM-ION BATTERY REVENUE GROWTH FROM 2010-2020, DRIVEN BY INCREASED DEMAND FROM THE ELECTRIC & HYBRID AUTOMOBILE MARKET<sup>1</sup>

**85%**

OF ALL U.S. FIRE DEATHS IN 2009 OCCURRED IN HOMES.<sup>2</sup>

**IN 10 SEC**

FIRES TODAY CAN INCREASE IN TEMPERATURE FROM 250 DEGREES TO 1,500 DEGREES FAHRENHEIT<sup>3</sup>

120 VOLTS OR ABOVE CAN BE DEADLY FOR HUMANS; AN AVERAGE SOLAR POWER INSTALLATION WILL PRODUCE SEVERAL HUNDRED VOLTS, POSING HAZARDS FOR FIREFIGHTERS WHEN HANDLING INCIDENTS IN THESE BUILDINGS.<sup>4</sup>

**8X**

FASTER FLASHOVER FOR MODERN HOMES COMPARED TO HOMES BUILT 50 YEARS AGO<sup>5</sup>

## NEW SCIENCE

THROUGH FUNDAMENTAL DISCOVERY, TESTING METHODOLOGIES AND EQUIPMENT, PROCEDURES, SOFTWARE AND STANDARDS, UL IS CREATING NEW AND IMPORTANT WAYS TO MAKE THE WORLD SAFER.

### PHOTOVOLTAIC PANELS

UL researchers have led the discovery around fire risks associated with PV panels, developing a standard for arc fault protection for PV systems and being among the first to specifically address fire service operational hazards.



### LITHIUM-ION BATTERIES

UL scientists and researchers are helping to define and develop safety tests that assess the propensity of a battery to experience a short-circuit under certain abuse conditions.



### REDEFINING SMOKE

UL has identified the composition of today's smoke and its higher levels of toxicity. UL is working to understand the long-term health risks to firefighters from exposure to smoke particles in modern home and office fires.



### MODERN RESIDENTIAL FIRES

UL determined that fires today are more dangerous and pose more risks than in the past. Fire propagation is faster, and time to flashover, escape times and collapse times are all shorter.



NEW CHALLENGES. NEW RISKS. NEW SCIENCE.

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# Fire Science For Fire Safety

**Marco Cascella**



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