

# Photovoltaic solar panel electric person incident



## Overview

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Queensland's Electrical Safety Office investigated the electrocution of a person who was modifying the solar panels on an off-grid solar PV system in a remote area. One tragic incident in Gurnee, Illinois, in February 2024, saw 28-year-old Braulio Lozano fall from a roof while installing solar panels, later dying from his injuries. The employee collapsed on the roof and was pronounced dead due to electrocution. Keywords: Contact, Electrocuted, Energized, Functional . otovoltaic (PV) systems is electric shock and electrocution. This can occur when a person makes contact with live electricity, causing damage to internal organs or fibrillation of the heart muscle. At Low . As the use of solar energy continues to grow in California and nationally, an increasing number of workers are exposed to unique hazards than can cause injury or death. Even small amounts of current can be transferred through sweaty hands (a common condition with solar equipment that is located outside).

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### [Technical solution sheet 5.2 Electric shock and electrocution](#)

Solar panels exposed to solar radiation produce voltage at their output terminals - a person working near solar panels during daylight hours or under strong sources of artificial light is always engaging

### Accident Report Detail , Occupational Safety and Health

Abstract: At 5:00 p.m. on June 23, 2022, an employee was working on a roof-mounted solar panel system when he made contact with an energized electrical component.



### Risks with extra low voltage solar photovoltaic (PV) systems

Queensland's Electrical Safety Office investigated the electrocution of a person who was modifying the solar panels on an off-grid solar PV system in a remote area. The deceased was found

### Photovoltaic Safety for First Responders

Contact building officials to see where PV systems are installed. Request to be notified when new PV is installed.





## Electrical Hazards in Solar Photovoltaic (PV) Systems

PV modules, panels, and equipment can generate significant current and voltage and cause serious injuries. Operating voltages can surpass 600 volts DC, and currents at a sub field level

### Safety Alert Cat 5 Electrical Incident AGEL 29.06.25

On June 29, 2025, a supervisor sustained a fatal electric shock while attempting to isolate a spark from a solar panel during electrical work at Khavada. Immediate causes included the lack of electrical



### Fatal Work Accidents & Wrongful Death in Solar Industry

The solar industry, while promoting clean energy, carries inherent risks for workers. This article explores fatal work accidents and wrongful death, examining causes, consequences, and legal

### [Guidelines for Solar PV Operations Qualified Electrical Workers](#)

Electrical safety training is critical for all workers and managers, but each task on a solar PV site presents different hazards and mitigation procedures.



### Solar installation occupational risks: A systematic review

These selected articles identified electrical and

fire risks, heat stress, manual handling risks, and fall risks as the major occupational safety risk categories associated with PV installations.

## Preventing Worker Deaths in the Solar Industry

FACE has recently investigated the deaths of three solar installers. Hazards that contributed to these deaths include pitched roofs, working too close to the roof's edge, lack of fall protection, proximity of



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