Solar PV Electrical Safety Infographic



Solar PV Electrical Safety



According to the U.S. Bureau of Labor Statistics, **solar photovoltaic installer jobs** are expected to **grow 51%** between 2019 and 2029, increasing at a much higher rate than the average of all occupations. **Learn how to stay safe** while working with or around solar panels.

Statistics*

51% **expected growth** in solar PV installer jobs by 2029 making it the 3rd fastest growing occupation.

650 Between 2011 and 2019, 650 solar PV installers were **injured on the job.**

1-5 YEARS 51% of **injured** solar PV installers were employed for 1-5 years.

PV Installation Electrical Safety

Locate all overhead power lines.

Consider all overhead lines to be **live, energized** and **dangerous.**

10ft

Keep self and equipment **10 feet away** from all overhead lines.

Carry ladders and other equipment **horizontally** when on the ground to avoid overhead lines.

PV Panel Electrical Safety

ON OFF

Solar disconnects only disconnect building from PV panels. **Panels can still generate power.**

Never walk or climb on a solar PV panel.

Beware of **bi-directional power**, mark all bi-directional meters.

10ft

Stay at least **10 feet away** from solar installations.

In Case of Emergency Involving Solar Panels

911

Call 911 and notify first responders that PV are involved.

ON

If possible, **turn off AC side of solar panels.** Solar panels may still generate DC power.

Remind first responders of the PV system.

Please **share** this **free** resource to save lives.

ESFI.org www.facebook.com/ESFI.org www.twitter.com/ESFIdotorg www.youtube.com/ESFIdotorg

*U.S. Bureau of Labor Statistics

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Statistics

- 51% expected growth in solar PV installer jobs by 2029, making it the 3rd fastest growing occupation
- Between 2011 and 2019, 650 solar PV installers were injured on the job
- 51% of injured solar PV installers were on the job for 1-5 years

PV Installation Electrical Safety

- Locate all overhead power lines
- Consider all overhead lines to be live, energized, and dangerous
- Keep yourself and equipment 10 feet away from all overhead power lines
- Carry ladders and other equipment horizontally when on the ground to avoid overhead power lines

PV Panel Electrical Safety

- Solar disconnects only disconnect buildings from PV panels. Panels can still generate power
- Never walk or climb on a solar PV panel
- Beware of bi-directional power, mark all bi-directional meters
- Stay at least 10 feet away from solar installations

In Case of Emergency Involving Solar Panels

- Call 911 and notify first responders that PVs are involved
- If possible, turn off the AC side of solar panels. Solar panels may still generate DC power
- Remind first responders of PV systems

Source: *Republished with permission from Electrical Safety Foundation International (ESFI)*