

Ground-Mounted Solar: The Power Move for Maximum Energy and ROI

In the world of solar energy, rooftop systems tend to steal the spotlight—but when it comes to **power, performance, and scalability**, nothing beats a **ground-mounted solar system**.

If your business, farm, or facility has available land, **ground-mounted solar** is the smartest, most efficient way to harness the sun and turn open space into a high-performing energy asset.



What Is Ground-Mounted Solar?

Unlike rooftop panels, **ground-mounted solar systems** are installed directly on the ground using a metal racking structure. They can be placed anywhere with good sun exposure, typically in open fields, unused land, or adjacent to commercial buildings.

There are two primary types:

- **Standard ground-mounts:** Fixed-tilt systems angled for maximum year-round sun exposure.
- **Tracking systems:** Advanced mounts that follow the sun throughout the day, increasing energy production by up to 25–35%.

Why Choose Ground-Mounted Solar?

Here's what makes ground-mounted systems a top-tier option for commercial, industrial, and agricultural energy needs:

1. Maximum Efficiency

Ground-mounted systems can be positioned at the **perfect angle** and orientation, unlike rooftop setups that are limited by roof pitch and obstructions. More sunlight = more energy.

2. Scalable Power Output

Need large-scale energy? No problem. Ground mounts can scale from small commercial sites to **utility-grade installations** generating megawatts of clean energy.

3. Cooler, More Productive Panels

Panels perform better at lower temperatures. On the ground, they're more ventilated and **cooler**, which means higher output and longer lifespan.

4. Easy Maintenance & Cleaning

With no ladders, safety harnesses, or roof concerns, ground-mounted systems are **easier and safer** to inspect, clean, and maintain.

5. Preserve Roof Integrity

No drilling, no weight on the structure, and no worry about roof replacements down the line.

Is Ground-Mounted Solar Right for You?

Ground-mounted solar is ideal if:

- You have **unused land** or space adjacent to your facility.
- You want a **large, powerful solar system** without roof limitations.
- Your roof is shaded, aging, or lacks the space for sufficient solar output.
- You operate in agriculture, manufacturing, or logistics with access to large lots.

Ground Mount + Battery Storage = Total Energy Independence

Want to take it a step further? Pair your ground-mounted system with **battery storage** to:

- Store excess power for nighttime or outages
- Shave peak demand charges
- Achieve near-total energy independence

This combination is especially valuable for remote sites, farms, or businesses looking to eliminate grid reliance.

What About Costs and ROI?

Ground-mounted solar systems can have a **slightly higher upfront cost** due to the racking and land prep—but the **payback is fast** thanks to:

- Higher energy production
- Increased system size
- Federal and local tax credits
- Long-term energy savings (25+ years)

Bonus: In some areas, you may qualify for **property tax incentives** or grants for solar installations on agricultural or industrial land.

Final Word: Don't Let Good Land Go to Waste

Ground-mounted solar is more than an energy system—it's a **strategic land investment** that transforms unused space into a

revenue-generating, cost-saving, environmentally impactful asset.

At **The Plug Electrical**, we design and install high-performance ground-mounted solar systems tailored to your land, your goals, and your bottom line. Whether you're looking to offset power bills, future-proof your business, or lead in sustainability—we'll help you get there.

Got land? Let's turn it into power.

Contact us today for a free ground-mounted solar site assessment.