

Smart Supply Chain Solutions for the Solar Industry

SOLAR ENERGY FACTS

- ☀ Solar power is the earth's most abundant energy source. More solar energy hits the earth in a single hour than all human needs for an entire year. Solar panels harness this clean energy source by using solar photovoltaic (PV) cells. ⁽¹⁾
- ☀ The earth gets 174 petawatts (PW) of solar radiation. The Earth receives about 174 PW of solar radiation every day. One PW equals one quadrillion watts. Around 30% of the solar radiation that hits the Earth remains in its upper atmosphere and is reflected into space. Clouds, oceans, and land absorb the rest. ⁽¹⁾
- ☀ Solar will grow from 3% of the U.S. electricity supply today to 40% by 2035 and 45% by 2050. ⁽²⁾
- ☀ Solar trackers increase efficiency by 25 to 35 percent. Generally, a solar panel system with a single-axis solar tracker installed sees a performance gain of 25 to 35 percent ⁽³⁾



Rules of Thumb for Selecting a Qualified Solar Logistics Partner

Experience

Choose an experienced team with a history of working with the most prominent solar companies; someone who doesn't just do business with them - they partner with them.

Reliability

Select a company that you can count on to deliver on time and to the precise locations where you need your solar components.

Compatibility

Partner with a team that shares your values and your focus on clean energy.



Benefits of Including your Logistics Partner Early in the Project

Planning ahead for coordinate-based component delivery to the precise location within the jobsite helps to minimize on-site material handling and optimize construction timelines.

The right logistics partner can manage parts customization and pre-assembly, becoming an integral part of your team.

Working together with an experienced solar industry logistics team can help to maximize your project's potential with a shared goal of on-time and on-budget project completion.



Cost Savings and Avoiding Supply Chain Disruptions for Solar Projects

- ☀ An experienced solar logistics provider can shave 8-10% off shipping costs.
- ☀ Strategic warehousing and inventory management can keep the project on schedule and help avoid costly delays.
- ☀ Reduce on-site labor needs with component pre-assembly and jobsite staging.



Energy-Efficient Logistics Solutions

Strategically located warehousing and load planning for jobsite delivery can reduce the overall transportation impact.

A flexible logistics partner will seek cost-effective and environmentally friendly transportation options.

The right partner will work with you to develop a logistics plan that is aligned with your company's goals and environmental values.

Sources: 1. Freedom Solar Power | <https://freedom solarpower.com> 2. US Energy Department | <https://www.energy.gov> 3. Energy Sage | <https://www.energysage.com>

