

Solar power generation accessories and facilities

What equipment does a concentrating solar PV system need?

Additionally, concentrating solar PV systems require optical lenses or mirrors and sometimes a cooling system. In addition, a large above-ground solar photovoltaic power station requires equipment and facilities, such as: Connections to the network to the electrical grid to discharge the excess energy.

Where can a solar power plant be installed?

For a bulk generation, this plant can be installed in any land. So, there are no specific site selection criteria like thermal and hydropower plants. The solar plant can be installed on the house or flat. So, it reduces the transmission cost as it generates energy near the load center.

Where should a solar facility be used?

Agricultural and forested areas are typical sites for utility-scale solar facility uses. However, the use of prime agricultural land (as identified by the USDA or by state agencies) and ecologically sensitive lands (e.g., riparian buffers, critical habitats, hardwood forests) for these facilities should be scrutinized.

What is a utility-scale solar facility?

These facilities are generally more than two acres in size and have capacities in excess of one megawatt; today's utility-scale solar facilities may encompass hundreds or even thousands of acres.

Who is solar energy design & maintenance?

MasTec designs, builds, expands, and maintains efficient, cost-effective solar energy facilities from the ground up.

Are solar facilities regulated by zoning?

Solar facilities generating power for on-site use are typically regulated as by-right uses depending on their size and location. Utility-scale solar facilities, however, should in most cases be conditionally permitted regardless of the zoning district and are most appropriate on brownfield sites, in remote areas, or in agriculturally zoned areas.

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