



Major advantages of active solar

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What Are The Benefits Of Active Solar Energy?

According to NASA, the sun produces 44 quadrillion watts of freely available power annually. This equals the output of 44 million large, pollution-producing power plants.

Solar energy is abundant, reliable, and environmentally friendly. This makes it the ultimate choice for commercial customers across the USA.

It's an excellent source of reliable power during outages and infinitely renewable, but how do you take advantage of it for your business?

Keep reading to learn more about passive vs. active solar energy and how your business could benefit from these initiatives.

Solar energy is currently the fastest-growing power market worldwide. As such, it's become more accessible and affordable than ever, with solar panel prices decreasing by 40% in the last ten years.

There are two ways your business can harness the power of solar energy by converting the sun's rays into useful energy:

Active solar energy devices capture solar radiation using photovoltaic cells as part of a solar panel setup. PV solar panels use semiconductor materials arranged within the panel to create a direct electric current.

When photons of sunlight strike these panels, the semiconductors release a stream of electrons. This creates an electric current that flows through the wiring in the PV panels to an inverter.

The inverter converts this direct current into an alternating current. Most commercial equipment runs on alternating current.

PV solar energy panels are usually roof-mounted at an angle that allows them to collect solar energy most efficiently. You can store excess energy in battery systems to make up for cloudy days or inclement weather.

Silicon-based monocrystalline, PERC, and polycrystalline solar panels are the best-known active solar energy examples.

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