

# SOLAR ENERGY



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**W**hy invest in Solar Energy? Planning and design will help ensure your investment in installing a solar energy system will result in highly anticipated rewards.

## How it Works

One or more solar modules (commonly referred to as panels) are installed. These modules generate direct current (DC), whereas most electricity we use is an alternating current (AC). The modules are connected to the electric service through an inverter, changing DC to AC. This electricity can now be used to power your equipment/facility the same as an electric utility.

The modules convert sunlight directly into electricity whenever sunlight strikes them. The amount produced will vary based on many factors, including system installation specifics, geographic location and weather. More electricity is produced with more intense sunlight and a direct striking of light on the modules. Shade has an unwanted effect on solar energy generation. Shadowing review is important to make sure your system installation reaches its full potential.

When you connect a solar electric system to the utility, it can now be used as it most benefits the user. Use a combination of energy generated by your system and the utility on a cloudy day (low solar output) and then send surplus production to the utility for a credit on future billing when your system is generating more than what is used (net metering).

## Benefits

- Reduce your electric bills
- Increase payback & reduce electric bills further with surplus solar electricity generated (net metering)
- Available back-up power during outages (systems including batteries)
- Generate your own supply of clean energy
- Help create a cleaner environment

## Considerations

- What is the right location? Orientation?
- Roof or ground?
- How much space is needed?
- Will this effect my roof installation?
- Should the roof be replaced now?

## Incentive Programs

Solar Energy is considered to be the cleanest and quietest energy available to us. It is no wonder Incentive Programs are offered through the New Jersey Clean Energy Program (NJCEP).

Incentive programs can change a solar project from a 25-year payout to a 10-year payout. Contact your local office for a cost analysis of your facility and design services should you chose to proceed. Remington & Vernick Engineers can help you optimize your incentives through rebates, savings and solar renewable energy credits (SRECs).



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