REV 2021.06.21

Our Process

1. We will schedule a call where we will ask you a series of questions to do an assessment of your needs based on past utility bills. Then we will estimate what the ballpark cost of a system will be. If it sounds like the system will meet your needs, and the price is within an acceptable range, we'll schedule an on-site inspection so that we may learn everything needed to provide you with a formal proposal.
2. Ahead of the on-site inspection, with your approval, we'll have any underground utilities on your property marked. Once completed, a solar specialist from our team will visit the site to take some measurements. While on site, we'll use a drone to capture the exact details of your house and terrain. We'll also use a special camera that takes a picture of the sky, trees, power lines and anything else in the area that could potentially cast shade on a solar system in order to understand how much production from the system to expect.

   Note: This inspection is an important engineering step that other companies often leave out because they don't want an expensive quote / sales process. We think quality and proper design should take precedence. However, we also need to stay competitive. So, we do charge a small fee of $75.00 for the visit. That said, you will receive the 3D CAD drawing, performance model, and other deliverables mentioned in the next step. We'll also apply this fee toward the cost of your system should you decide to move forward with us.
3. Using details from the site survey, we'll complete your conceptual system design and provide you with a formal quote, the shade study, a System Advisor Model (SAM) report, and a pdf 3D drawing of the conceptual system design.
4. If you decide to move forward, we will finalize your design, and coordinate your solar system install. This could take up to several months depending on local permitting procedures and availability of materials.
5. Once installed, your utility provider will determine when you may connect to the grid. We will work with them to ensure this happens at their earliest convenience.

Why our Company Provides Residential Solar

It's sustainable business. It's good for people, good for the planet, and economical [1]. Our goal is to bring value to our customers while being environmentally responsible and still be in business down the road so we may continue to help people with solar. We do this by using a holistic, informed approach to the engineering, design, and maintenance of our photovoltaic (PV) systems.

REV 2021.06.21

How are we Different

1. Our in-house engineer who received a Master's degree in Solar Energy Engineering from Arizona State University designs every one of our installed systems and takes a systems approach to ensure we're providing high quality installs.
2. The products we install have been meticulously selected to deliver optimum performance and a maximum lifetime in the extreme temperatures seen in Arizona.
3. We're completely transparent about our system specification process. We've published our specification on LinkedIn where anyone can access it, review, and provide comment.

   Most current edition here:

   https://higherpoweredsolar-my.sharepoint.com/:b:/p/lawrence/Eeobz269iOhLldfSC1olIKwBfSuZEjmzeySt7HeX6MmyBA?e=4OdbEK

   What other industry professionals are saying here:

   https://www.linkedin.com/posts/alawrenceshaw_higher-powered-residential-solar-system-specification-activity-6693652012804009984-jNup

4. We don't want to cut holes in your roof or place an electrical system that has the potential to have faults on your house. Although solar technology can help people lower their carbon footprint and provide consumers of electricity an alternative to purchasing power from a monopoly, it isn't problem free. Instead of placing solar on top of your home, we advocate building a parking structure with a metal frame. Often this will also have the potential to keep your vehicles cooler by providing shade which can be very beneficial here in the valley.

Figure 1 Photo provided courtesy of Solar Carports Direct

5. We measure the solar resource at your home while on site. Trees, power lines, neighboring buildings all have the potential to shade your system. Satellite imagery pointed straight down doesn't actually measure how much sunlight will get to a solar system. We believe our customers should know how much power their system will actually produce, and the only way to do this is by measuring it while physically on site.

6. We advocate yearly upkeep maintenance and would love to be your service provider because we are committed to providing you with a solar system that is performing admirably from year-to-year.
7. We're a veteran owned company committed to doing what is right for our neighbors. We use as many American made components in our systems as we can based on current market conditions.

References

[1] Arizona State University, "School of Sustainability," [Online]. Available: https://schoolofsustainability.asu.edu/about/what-is-sustainability/. [Accessed 25 09 2018].