



**CONSTRUCTION
SERVICES LLC**
Solar

Powered by **Texoma Energy**

If we can Save you 50% off your energy bill with 0 Money Down, a 30% federal tax credit with 85% accelerated depreciation in 4-5 years what would prevent you from installing SOLAR on your property and doing business with us?

Who We Are

At O&M Construction Services LLC. We are a commercial and residential construction company; we do everything from small to large construction projects.

As a premier solar energy company, O&M Construction Services is committed to delivering the best available solar products from the most experienced design and installation team. We offer competitive rates for your energy solutions. Our dedicated staff of professionals will deliver great customer service and will work diligently to ensure that you get the pricing you want and that your solar experience is the best you can get!

- Committed customer Services
- Simple, easy, and affordable from start to finish
- High Quality Products

Contact Us

If you have any questions you may call us anytime!
We make sure all of our customers are satisfied.



12847 Capricorn St

Stafford, TX 77477

Office: 713-234-7518

Cell: 832-969-2246

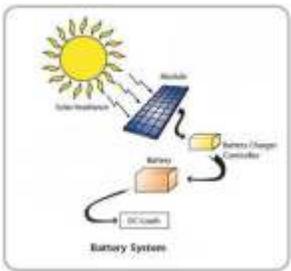
Email: oyalghali@gmail.com

Web: omconstructiontx.com.

Overview of Programs

How It Works

Solar Panels turn photons from the sun into DC Electricity. The AC power you don't use is sent back into the grid and used by the utility company. The inverter turns DC current into alternating current (AC) for use in your home. The production meter measures how much energy your Solar System produces and sends it to your home's electrical panel.



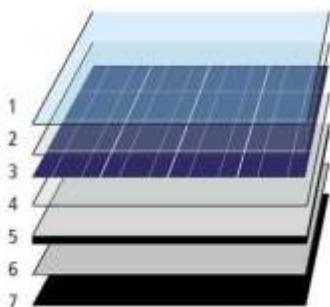
5 Year Workmanships warranty

Our 5-year workmanship warranty covers leakage, and improper installation.



Safety

Because of our wide experience in the building and construction industry, we are used to complying with onerous health and safety standards that far exceed those that are needed for the installation of solar panels.



FAQs

What happens if the panels are shaded?

Solar Panels Should be installed in areas where they get significant shade-free sun every day. Even small amounts of shade can significantly reduce the output. Our designs and installations also seek to minimize the impact of any shade issues through proper site selection, appropriate equipment and good engineering.

Do I need to clean the panels periodically?

In most areas of the country, there is sufficient rain to clean the solar panels. However, if you are in a dusty area – such as near an incinerator or construction site- you may see a performance gain from cleaning the panels regularly. Normal rainwater is generally sufficient to keep the solar panels clean, but a low-pressure hose and squeegee sponge can be used to spray the solar panels clean. Detergents and high pressure hoses should never be used for cleaning.

How long will my residential solar power system last?

Most solar modules show little degradation over many years of operation. They typically have a 50+ year life expectancy but will become less efficient after 20-25 years. This makes solar power a highly reliable source of power. All the electrical components (Solar panels & Inverters) of the system have a 25-year warranty.

What kind of maintenance is needed?

Most solar photovoltaic systems are stationary in a fixed position such as that there are no mechanical parts that could break down. The solar panels simply sit and collect the sun's radiant energy. Normally the only problem a solar energy system might have is that the fan in the inverter will wear out. Some solar photovoltaic systems employ mechanical trackers that move in line with the sun during the day. The trackers have motors that could require repair. O&M Construction offers a maintenance plan and an industry best warranty that includes periodic inspection of system components and cleaning so that you do not have to worry about the solar energy system at all. What does this mean for the home or facility owner? Any manufacturer's warranty is in addition to, not in lieu of, our installation warranty. Other warranties just guarantee the installers workmanship, but O&M Construction warranty takes this step further and enforces all equipment warranties at no additional charge to you. This includes trouble-shooting, removal and installation, and shipping and handling at no additional cost.

Do I need to install a new roof before the solar panel are installed?

Solar panels will remain reliable, generating electricity, for more than 25 years. Because of this, we want the roof to be in good shape and under warranty. It is not cost effective to remove and reinstall the panels after only a few years. However, after the panels are in place, they will help preserve the roof's longevity by blocking ultraviolet rays, keeping most snow and ice off the roof, and otherwise shelter the roof. Most solar installations do not require a new roof install the solar energy system.



I am building a new home, is there anything I can do to make installation easier?

Thermal: During mechanical rough-ins, run a 3- or 4-inch PVC pipe from where your hot water tank will be located to the roof (or where you wish to install the solar absorbers). Contact the manufacturer for installation requirements as certain roof positions need to be considered. Include a 3" conduit or chase from the attic to the location of the hot water tank. The solar installer would run copper line sets. PV: Conduit from the attic to the location of the main AC panel. Usually you'll need a junction box at BOTH ends where the # 10 wire is run. They may want #8 wire if it's a huge roof.

What happens if the power goes out? /Emergency preparedness.

If the utility grid goes out in a power outage, such as one caused by a storm, the solar electricity shuts down automatically. A few minutes after the utility grid is restored, the solar system, via sensors in the inverters, should turn back automatically. For longer periods of electrical shut down a backup solar battery or a gas-powered generator becomes critical. During a power outage, utility workers are working on the lines to repair them. For safety, power to these lines must be deactivated, and that includes solar power from distributed generation sites like yours.

Do I need batteries with the system?

Batteries are required if you need backup power when the utility is out of service. Batteries keep your home or business powered up when the grid is knocked out by unpredictable outages and natural disasters.

What is net metering?

Net Metering is the regulatory ability to get credit for solar electricity you generate and send, or "export", to the utility grid. Utilities generally adjust their bills monthly to reflect the value of electricity they received from their customers who have solar energy system. Zero out your bill when you overproduce during the day, in comparison to your nightly usage.

How do I know my solar system is performing to its full potential?

We install an internet-based data monitoring system that gives you live performance data on solar electric output in real-time. If the data indicates performance is below design, a system check would be used to determine what is causing the low solar power output to occur.

Does our area have enough sun to make solar energy system cost effective?

Yes! It is true that Arizona and Florida have more solar resources than the rest of the country, but consider the fact that Germany, the largest and most successful solar market in the world, is at the same latitude as Maine! Our country has abundant sunshine cost effective solar energy systems. Many families and businesses offset most, and sometimes all, of their electric utility bill with the solar energy they produce.

What if someone has a medical condition?

During major storms such as hurricanes they're usually long periods of power outages. In these critical moments, someone with a medical condition needs electrical resources. The solution to this problem is to install a backup battery to your solar unit. We also offer state of the art gas powered generators.



Do I need approval from my homeowner's association?

If you belong to a homeowners' association, consult your covenants for details. By law, some states specifically prohibit homeowners' associations from restricting solar devices.

Do I need a building permit?

In most areas a permit is required. O&M Construction Services will obtain the necessary permits from your local government.

Where do I find a good source about solar?

The Solar Energy Industries Association (SEIA) is an excellent source since 1974 to learn about solar energy, its history, industry data, resources and the case for solar. To familiarize yourself with the types of solar energy systems available for residential use, check out the "Consumer Guide to Energy and Efficiency and Renewable Energy" produced by the U.S. Department of Energy.

Do the solar panels need to be mounted on my roof?

Solar panels are often mounted on the roof, but can also be mounted on the ground. Recently, solar canopies (Sometimes called solar carports or shading structures) are becoming more popular, as well as building integrated photovoltaics (BIPV) where the solar is used in a curtain wall or building façade.

What are the components of a solar PV system?

The components include solar panels, mounting hardware, solar inverters, and data monitoring system that measures performance in real time. We include lightning arrestors and surge protection devices in all our turn-key systems. Plastic conduit holding the wiring will run from the solar array to your electric service panel, and at the panel, the solar system is tied into the utility company's electrical grid.



Quality of components.

With the most experienced design and installation team in the business, O&M Construction Services has the knowledge to seek out and offer only the best available solar PV products for your home.

We recognize that some of our competitors may offer cheaper products, but, in our opinion, some of these offerings may not provide the customer with the type of equipment that is designed to last for 25-plus years.

A thing to look for when selecting a solar company is how long has that manufacturer been in business, how many products does it have in the market, and is it a recognizable brand. Rather than investing in high quality products from the start, some of our competitors are using inferior products. In doing so, we anticipate that many of these companies will not be in business in the years to come should you have a warranty claim.

Some of the other components may be even more difficult to assess, such as cheaper cabling that is not UV resistant and fully weather proof. In the short term, it will work, but long term, problems could well arise. For components, such as this, it is very difficult for the customer to tell the difference. We only install high quality cabling that is UV resistant and weatherproof. High quality products manufactured by reputable manufacturers with years of experience is associated with longer life expectancy of the components, as well as higher output capability over a longer period. This directly benefits the customer, particularly bearing in mind that these systems will continue to function for over 25 years. We only supply and install high quality products.

Quality of Aftercare.

Our reputation is of great importance to us and we want you to recommend us to your friends and associates. We take pride in what we do and are genuinely in what we doing and are genuinely interested in making sure that you are happy with your installation and its performance after we leave.

Microinverters System.

All modules operate independently; they are resilient to environmental factors with 10% average increase in production. 25-year warranty comes with microinverters. They are completely enclosed, no moving parts. Inverter outage affects small fraction of system; they have an automatic detection and reporting of problems.



Inverters

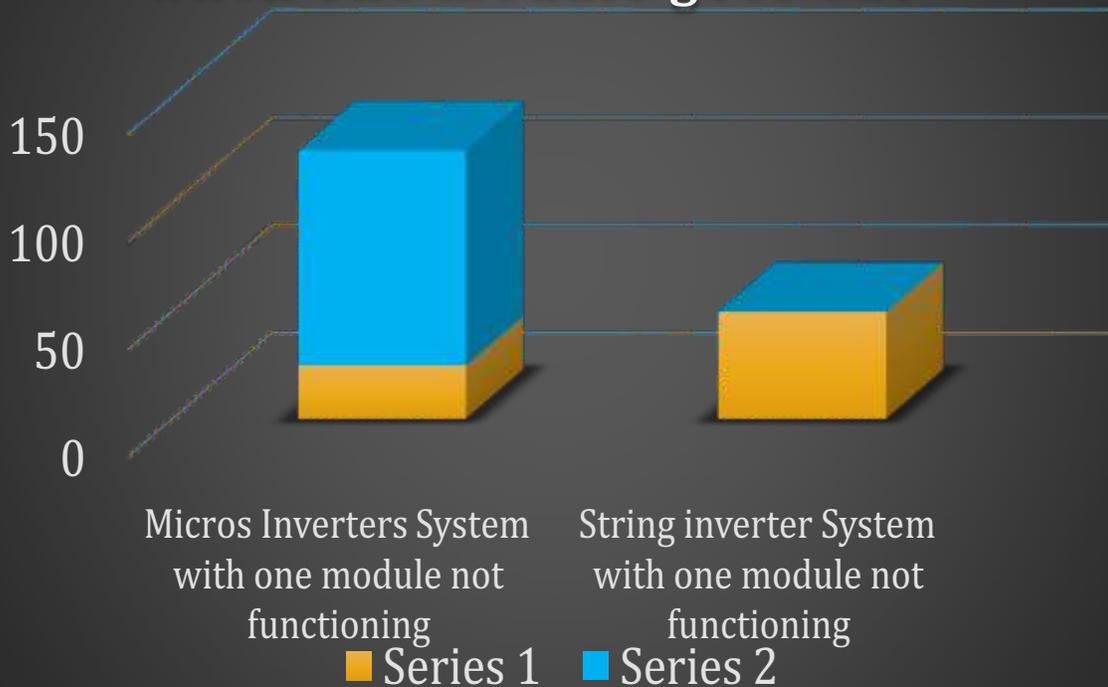
System

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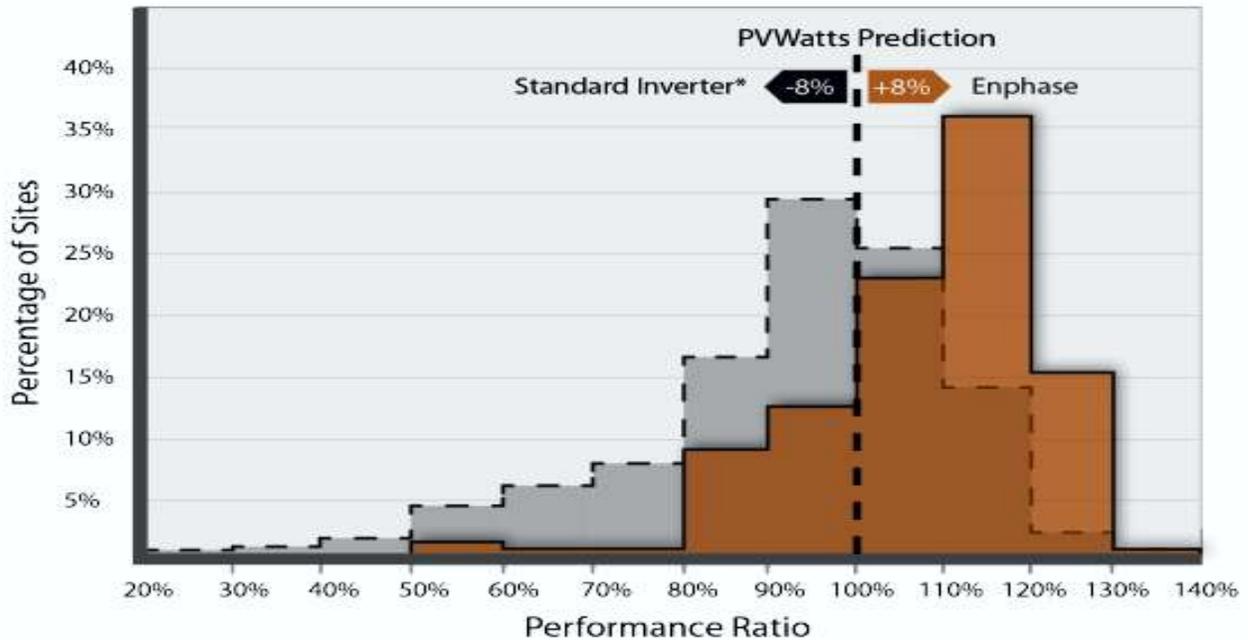
String inverter System

The entire system is affected by one module, which means if one module goes out they all go out and the whole system shuts down. Susceptible to soiling & module defects as well as to problems with vents and fans. 5-10-year warranty. Inverter outage affects entire system. Limited detection and

Microinverter Vs. String Inverter when one module goes out



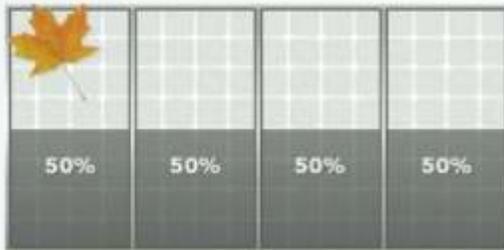
Performance Ratio Distribution: Enphase v. Standard Inverter



* Source: Gostein, et al., 2009

STRING INVERTER SYSTEM

PERFORMANCE



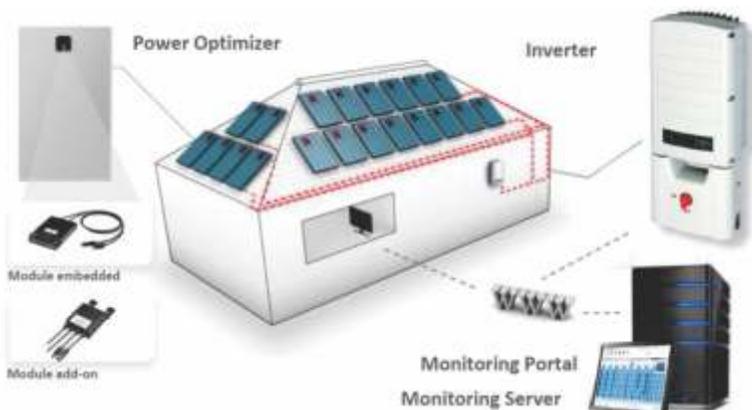
- Entire system affected by one module
- Susceptible to soiling, shading and module defects

ENPHASE ENERGY SYSTEM

PERFORMANCE



- All modules controlled independently
- Resilient to environmental factors





12847 Capricorn St

Stafford, TX 77477

713-234-7518

Phone: 832-969-2246

Email: oalghali@gmail.com

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