

The Extend Energy team works with you, making it easy to go Solar...

Extend Energy, LLC has two primary product offerings:

- (1) **Solar Photovoltaic (PV)** to produce electricity, and
- (2) **Solar Thermal** to produce hot water.

STEP 1: Assessment of Energy Requirements

Our team of experts will meet with you to review your current and projected energy requirements for your business. Whether you are part of a well-defined business group or totally unique, our experience will ensure that your Solar System will support your needs.

The most important service to offer is a system that matches a customer's needs. Extend Energy, LLC is developing and utilizing tools to properly site and accurately quantify the system energy production. The system production must be matched to the needs of the customer to deliver maximum results.

Also, the system needs to be integrated into the existing systems as they will provide back-up power or heat. The technical knowledge to properly size and install solar systems is coupled with a personal, customer-centric approach.

STEP 2: Site Analysis

In addition to product selection, proper siting and (PV) system design is required to maximize solar electric production. Detailed computer generated estimates of shading and power production will be provided by utilizing detailed models, such as Solar Pathfinder output.

Siting is also critical in a solar thermal project. While shading is not as critical to solar thermal as it is to PV, proper location and angle need to be established to balance performance and aesthetics. Quantifiable information on the options and trade-offs are part of the Extend Energy, LLC, solution.

STEP 3: Preliminary Design, Savings Estimate, and Regulatory Review

Renewable energy and fiscal responsibility are not mutually exclusive! Quite the contrary is true. The Extend Energy Team will provide accurate analysis of savings from *utility cost savings, advanced depreciation and all available tax credits.*

Solar PV continues to improve in efficiency and cost as a large number of firms are competing to build the most cost effective panels. Utilizing a supplier agnostic approach, Extend Energy, LLC can select the best solution for each customer by being tied into a wide source of solar products. This has been accomplished by aligning with industry distribution leaders.

Solar thermal systems utilize flat plate or evacuated tube collectors to harvest the sun's energy. This energy is then transferred to the usable water supply by a heat exchanger. Pumps and computerized controllers are used to control the water circulation in both the solar and potable loops.

Solar thermal components can be sourced from many reputable manufacturers. Once again, picking the best solution and supplier are the hallmark of Extend Energy, LLC. These components will be selected for their performance and warranty coverage.

Starting with a thorough qualification process to ensure a proper fit with the customer, all steps will be taken with the customer outcome in mind. The latest evaluation tools will be utilized to quantifiably demonstrate the system performance and economic benefit of the recommended solar system. Tools currently being used include Solar Pathfinder™, RETSCREEN™, PV Watts from the National Renewable Energy Lab and the Department of Energy's Solar Advisor.

Using in-house templates, Extend Energy, LLC will streamline and manage the rebate and permitting process for the customer. For PV systems, this includes providing information and interfacing with NC Green Power, the Federal Energy Regulatory Commission (FERC), the North Carolina Utilities Commission, and the utility provider such as Duke Energy on Interconnect and Power Purchase Agreements.

While the performance of the system is key, it is also important to provide an aesthetically pleasing design and clean install, always working to enhance the appearance of the system. This is done by utilizing visioning software and following the natural contours of the building or landscape.

Extend Energy, LLC will become your trusted advisor, providing specialized consulting for needs assessment, independent solution and product selection; as well as financial analysis with ROI, incentives, and depreciation information. Our expert project



EXTEND ENERGY
Renewable Energy Made Easy

7 Steps to Solar Savings!

management provides turn-key installation with a single point of contact for you during your solar project installation.

The system design we provide for you will not only include technical specifications, but a full regulatory review in both Executive Summary and Detail Specification formats. You will clearly understand and be able to quickly communicate the benefits of the decision to go Solar.

STEP 4: Presentation, Understanding, and Agreement of Proposed Solution

A formal presentation to you and your team will be made in person, ensuring all expectations are understood and addressed. We know you want to understand and be comfortable with any solar solution. Our solutions are economically defensible and we provide you with the facts to support your decision.

Also, if you are interested, we will make recommendations for maximizing the marketing benefits of your decision to go green!

STEP 5: Final Design

The final design is the last step before actual implementation of your solar system. This is an implementation planning meeting that includes review of regulatory certificates, confirmation of currently available energy rates, and an implementation timeline. We can provide stamped engineered drawings if required or requested.

STEP 6: Installation and Commissioning with minimal business impact

We understand that your business must continue with minimal disruption during your solar system installation. We make that a priority. We will work around your business schedule to quickly and seamlessly install and integrate your solar solution. Appropriate inspections are scheduled with local regulatory agencies. Our team will take the time to explain the system operation and applicable safety equipment.

STEP 7: Monitor results

The Extend Energy team will be your long-term business partner, ensuring your ability to monitor and report results. Solar PV and Thermal systems are now available with on-board or remote monitoring. Your system monitoring equipment will be set-up and demonstrated. You'll know how to observe your system in action, delivering business benefit day by day.

Extend Energy, LLC

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