



Maximize your Commercial PV Systems with Tigo Energy

In a traditional solar installation, because of the way solar modules (panels) are connected a weak module will have a large negative effect on the entire system. Uneven module aging, slightly different module orientation, and module temperature differences caused by uneven air circulation can all lead to lower than expected output over time. A module with bird droppings is not only producing less energy but also dragging down the output of the other modules.

Commercial-scale project developers who are looking to maximize the energy harvest of their PV system can use the Tigo Energy™ Maximizer System (patented) to accelerate their system payback by maximizing the power output of the individual modules even in adverse conditions, increase the efficiency of the inverter and manage the entire system so that if a problem occurs, it can be addressed immediately to keep the system operating at maximum production and uptime. Modules can be powered off individually for maintenance and for safety in case of a fire hazard; all without increasing up front cost (Cap Ex).

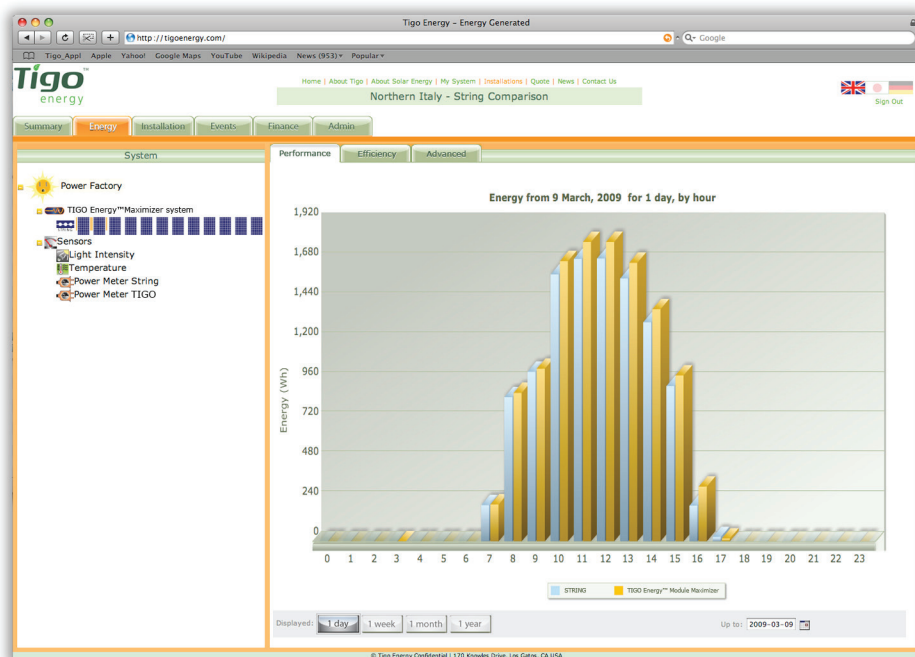
Complete System Solution – Maximize System Architecture

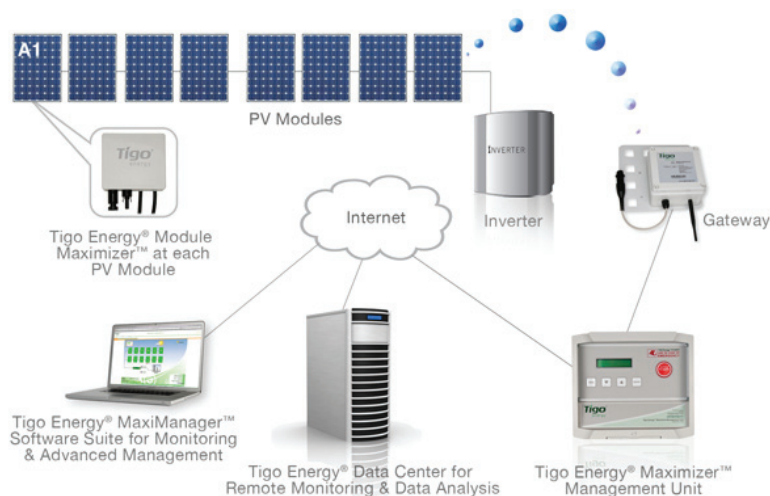
The Tigo Energy Maximizer System is designed to optimize system architecture in order to take advantage of the widest range of modules and inverters available today. Combinations of modules and inverters previously unavailable are now possible – no need to be limited to specific string sizes, allowing for more flexibility in placement on commercial rooftops.

As the power output of each module is managed independently, modules can now be placed in rooftop areas where they are subject to periodic shade or differing orientation without impacting the array performance. Project developers can leverage the fixed installation costs to deploy the highest output capacity possible. Projects that were previously non-viable with traditional design constraints can now be placed into profitable operation.

Improved IRR through increased power output

Tigo Energy Maximizer systems will typically return 4 to 8% incremental power output throughout the life of the system. Financial estimates indicate that an increase of 6% harvest can increase the project IRR by 20 basis points, often providing 30 to 40% increase in returns. Additional cost savings are available by reducing BOS costs associated with thin-film installations. The software control algorithms ensure that the system runs at maximum uptime while alerting the operator to any specific events that may lead to maintenance actions.





Start Saving today with Tigo Energy Maximizer System

Ask your Installer or EPC about the Tigo Energy system as a part of your new or retrofit commercial PV project. The technology is available for little or no premium over traditional systems. You can begin enjoying MORE financial benefits from your solar the day it is installed. Get Tigo Energy and get much MORE!

Improved Opex through MaxiManager Software Applications

Tigo Energy MaxiManager software gives the system owner unprecedented access to the panel level for performance monitoring and analytics – user-configurable interfaces allow the ability to view power output and energy usage in real time, allowing the user to more efficiently allocate their energy usage and production, either through load-shifting or energy conservation. Studies show that system owners who can access their energy usage information increase their efficiency by 5 to 10%. The MaxiManager software can also create customized reports for historical data to enable the system owner to see trends in energy usage during different times of the year and varying weather conditions. The MaxiManager applications can be accessed through a secure site via any web-enabled computer, so even when the system owner is not in the office they can instantly view their system status.

Improved Disconnect Safety through PV-Safe (patented)

During everyday operation, residential solar is an extremely safe and reliable technology. But as with any electricity system, in the event of roof-top maintenance or a fire emergency, it is important that the system can be deactivated. Today's solar PV systems can be disconnected from the grid, but if the sun is shining they can still be generating high-voltage (usually in excess of 400V) through the modules.

This can pose an unexpected danger to those working or fire fighting on a commercial roof with solar. The Tigo Energy Maximizer system includes a unique technology (patented) which enables each module to be electrically removed from the high voltage DC cabling. This function can be activated with a safety button or via a remote management console.

Customizable views for lobby display or sharing over the web

Share your commitment to clean energy and greenhouse gas emission reduction by sharing the installation and summary view with customers in a user-friendly format. The pictures and data help people who are new to solar understand the value of solar energy and how it contributes to reducing your carbon footprint.

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