## Solar power management



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Due to the ever-growing renewable energy industry, more solar power plants are planned for construction and operation worldwide. Current concerns among power plant owners and grid companies include data accuracy, operation efficiency, and asset management. Advantech's SPMS solution offers a unified monitoring management system, machine-to-intelligence technology, and a solid IoT data framework that can meet most managerial demands.

In the past decade, solar photovoltaic (PV) systems have increased worldwide. The rise of PV is attributable to many factors, most notably the dramatic decrease in the cost of solar PV modules. Increasing the number of PV systems requires effective solar asset management (SAM). SAM is a relatively new field that encompasses all aspects of operating and maintaining a portfolio of solar PV assets. This article will provide an overview of SAM, including its benefits, key players, and challenges. We will also outline some of the best practices for SAM in 2022 and beyond.

Solar asset management is the proactive and continuous process of operating, monitoring, and maintaining solar photovoltaic (PV) systems to ensure they perform at or above their expected levels.

Solar asset management aims to maximize the financial return on investment (ROI) for PV system owners. This is done by optimizing energy production and reducing operational and maintenance costs, which also extends the lifespan of PV equipment.

Solar asset managers use data analytics to monitor PV system performance in real-time to achieve these goals. It allows issues to be identified sooner and corrective measures to be taken quicker. Solar asset managers also work with PV system owners and other stakeholders to develop long-term strategies for maximizing ROI.

The financial return on investment from a solar project is directly related to the performance of the solar asset. Solar panels degrade over time and lose their efficiency. To maximize ROI, it is important to monitor and manage the performance of solar assets throughout their lifetime. It includes regularly cleaning and maintaining the panels, monitoring output, and troubleshooting any issues that may arise.

A solar project's long-term performance and reliability depend on proper asset management. It is important to monitor critical parameters such as module power output, energy yield, system availability, and so on, to ensure that a project continues to perform as expected over its lifetime. Additionally, it is essential to have a plan in place for routine maintenance and repairs and to deal with unexpected problems that may occur.



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Effective asset management can help reduce the risk of financial losses associated with solar projects. By regularly monitoring key parameters and taking proactive steps to address any issues that may arise, it is possible to minimize the likelihood of costly repairs or replacements being necessary. Additionally, we can reduce the time that a project may be offline due to unforeseen issues.

SAM is also helpful in complying with regulations. Several government incentives and regulations relate to solar PV systems, so it's important to stay up-to-date with them. A good asset management strategy will ensure you meet all the requirements for your system, such as staying up-to-date with any changes in regulations. That way, you'll always be in compliance and avoid penalties.

Modern-day businesses need to break tradition and embrace an evolving new way of working. Current linear management approaches are inefficient, leading to mistrust and a lack of transparency among teams. Businesses that want to succeed need a more fluid, flexible system that is focused on achieving goals. And the focus must be on an asset-centric and information-based management approach, which will let the main stakeholders view the same data set and make decisions based on factual and valid information.

A solar system is a long-term investment; as such, it is essential to understand the different types of solar systems to make the right decision for your needs. The three main types of solar systems are:

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