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Operation and maintenance of solar inverters





Overview

The key to successful and efficient solar operations is a robust operations and maintenance plan. By proactively preparing a preventative maintenance checklist, you can protect against unplanned downtime and maximize your assets' performance. The key to successful and efficient solar operations is a robust operations and maintenance plan. By proactively preparing a preventative maintenance checklist, you can protect against unplanned downtime and maximize your assets' performance over their service life. Plus, consistent workflow becomes the norm when implementing an effective inverter.

A single inverter failure can lead to a loss of up to 25 MWh/day or \$1250 per day. There are numerous factors that can affect inverter's performance, such as faulty installation or design, consumables (e.g. fans, fuses, breakers, and switchgear, etc.), exposure to heat, humidity levels, and failing to put in place an effective maintenance strategy.

Acquiring accurate, timely data is essential for successful solar inverter installation. Most importantly, data informs preventative maintenance repair or replacement decisions. This information provides tips and insights into keeping your inverter running as efficiently as possible. Good data analysis can lead to effective asset life management and planning.

Utilizing a comprehensive CMMS platform, like 60Hertz, can simplify managing inverter data and optimize maintenance decisions to avoid losses. Centralizing views on critical data eliminates the time-consuming and frustrating process of manually "tab jockeying" between multiple vendor portals to interpret and take action. With 60Hertz, you can aggregate.

Only with a CMMS like 60Hertz can you fully optimize the maintenance of the most pivotal pieces of solar equipment, document all inverter maintenance activities and utilize data capture to reap optimal power generation for your particular inverter model and its manufacturer's recommended lifespan. Interested in seeing the power of a CMMS for your organization?

How do I maintain my inverter?

Here are some essential maintenance tips you should consider when creating your ultimate inverter preventative maintenance checklist:

1. Inspect battery



terminals for corrosion and loose connections. Regular inspection and cleaning of terminals can prevent arcs and overheating. 2. Inspect the battery environment .

Why should you plan a maintenance schedule for a solar inverter?

Planning out maintenance schedules based on data collected from the inverter can help technicians save time and money and prevent more severe problems that could arise due to a lack of maintenance. SunEdison collated failure data revealing the most common causes of PV solar system failures and energy loss due to resultant downtimes.

How often should a solar inverter be serviced?

Have your solar inverter installation serviced regularly according to manufacturer recommendations — typically once every two years — to ensure its proper functioning over time. 6.

How can an inverter preventive maintenance checklist help your business?

Standardization of maintenance practices can reduce these failures and improve your bottom line. And this is precisely where an inverter preventive maintenance checklist can help. A single inverter failure can lead to a loss of up to 25 MWh/day or \$1250 per day .



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[Solar Inverter Maintenance for Maximum System Efficiency](#)

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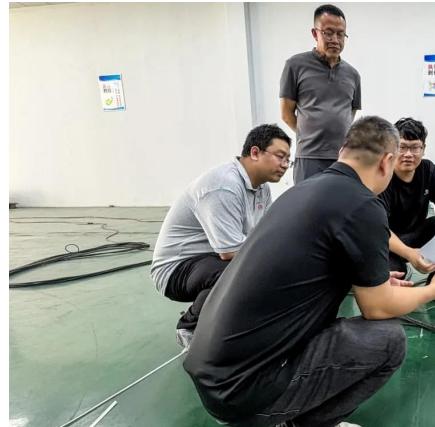
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