



Protecting your investment

Warranty periods vary significantly between inverter manufacturers and many warranties are now approaching their expiry dates, after which replacement unit costs will be likely to run into thousands of pounds. While preventative maintenance will go a long way to extending an inverter's life, most are expected to fail at some stage, due to their heavy workload.

Identifying a terminal fault in time to make a claim on your warranty could mean the difference between receiving a new replacement free of charge and having to spend a substantial proportion of your annual income on new units. In one instance, NWT discovered eight separate failed inverters that were all only marginally out of warranty – even though the failure was likely to have happened much earlier. Regular maintenance visits would have identified this and saved the owner thousand of pounds in replacement costs.

If you would like us to check your system is working as well as it should, please call **+44 (0) 1444 470018** or email us at **info@nwtenergy.co.uk**

So...

Now that your solar PV system has been in place for a while, we wanted to get in touch to let you know about NWT's operation and maintenance services for commercial installations.

We can inspect your system to ensure that it continues to operate with maximum efficiency and to identify any potential condition issues before they have a chance to cause a problem.

Why proper maintenance is vital

- The income you receive from your solar photovoltaic installation is directly linked to its efficiency in terms of generating electricity from light and subsequently feeding this in to the electricity distribution network.
- Several factors can affect productivity, so effective operation and maintenance is key to protecting your investment.
- Since the Feed-in Tariff is paid over a fixed term, revenue lost through reduced productivity can not be recouped later.
- The longer it takes before it is rectified the more revenue will have been lost.

What next?

If you would like us to check your system is working as well as it can or have any questions at all regarding your installation, please call the office on **+44 (0) 1444 470018** or email us at **info@nwtenergy.co.uk**



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Solar energy systems Professional maintenance





Why solar PV maintenance matters...

- Income is linked to efficiency
- Electrical testing and inspection is essential
- Lost FIT revenue can never be recovered
- Inverter maintenance extends lifetime
- Warranty periods should be examined closely

Did you know?
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The two major components of optimising productivity are:

1. The ease with which light reaches the semiconductor surface beneath the protective glass on a panel,
2. The efficiency with which the inverters deliver electricity in AC form to the network.

Regular specialist panel cleaning will ensure that the maximum amount of light reaches the active surface of the panels, while preserving electrical efficiency is complex and requires detailed knowledge and expertise.

Electrical testing and inspection forms a crucial component of NWT's operation and maintenance services.

We can reduce the risk of any system downtime by ensuring that minor issues are identified and rectified early.

Measuring insulation resistance also gives an important indication of whether further electrical issues may be present.

At the end of the tests we issue you with a full testing and inspection report, along with a 'traffic light' list that covers any issues we find and classifies them in order of how urgent they are.