

Solar PV efficiency checklist



Maximise the output of your panels: Use our handy checklist to regularly assess the efficiency and performance of your solar power system, ensuring you maximise the return on investment.

Date

Item	Checked?	Action/comment
01 Check for dirt and debris (e.g. dust; leaves; bird droppings etc.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
02 Check for shading (e.g. trees or any new obstructions)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
03 Check for cracks, chips or any other damage	<input type="checkbox"/> Yes <input type="checkbox"/> No	
04 Are the mounting structures secure and free from rust or other forms of degradation?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
05 Is your roof (if applicable) in good condition to continue supporting the solar system?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
06 Check inverter status lights for errors	<input type="checkbox"/> Yes <input type="checkbox"/> No	
07 Check inverters are free from obstructions	<input type="checkbox"/> Yes <input type="checkbox"/> No	
08 Monitor output levels: Does energy output match expected levels?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
09 Examine wiring and connections for signs of wear, damage, corrosion, or loose connections	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10 Review energy generation data: Check for anomalies or trends that suggest decreased efficiency	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11 Match consumption with production: Are you using the majority of your solar power during peak production hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12 Are there opportunities to shift energy-intensive activities to times when solar production is highest?	<input type="checkbox"/> Yes <input type="checkbox"/> No	


Category	Item	Checked?	Action/comment
13	Are panels overheating? Ensure there's sufficient airflow around panels to prevent excessive heat buildup	<input type="checkbox"/> Yes <input type="checkbox"/> No	
14	Check inverters are properly ventilated and not overheating	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15	Are the batteries (if applicable) holding charge effectively?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
16	Monitor battery (if applicable) performance and check for signs of degradation	<input type="checkbox"/> Yes <input type="checkbox"/> No	
17	Are the system settings optimised for your current energy needs and peak solar production times?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
18	Is system software up to date?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
19	Is the system connected and transmitting data correctly?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
20	Is your system still under warranty?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
21	Is your system adequately insured against damage from weather, fire, or other risks?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
22	Have you scheduled an annual professional inspection?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Other notes

By using this checklist to regularly inspect your solar panels, you can ensure your system continues to operate at peak efficiency, maximising energy production, reducing costs, and prolonging the life of your investment.

Need help to identify potential improvements in your energy management?

Schedule your comprehensive energy audit with Zenergi and begin your journey towards a more efficient, cost-effective, and sustainable future.

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