

Shadepowertm Performance Optimisation Solar Photovoltaic Systems



Ardenham Energy Ltd has the technical experience and capability to provide system solutions that will work well even in locations where perceived shading many initially deem the location inappropriate for a solar PV system, or where the adoption of a traditional string inverter will significantly restrict performance. This expertise has been developed with many years of R&D knowledge into the performance of PV arrays in non ideal locations.

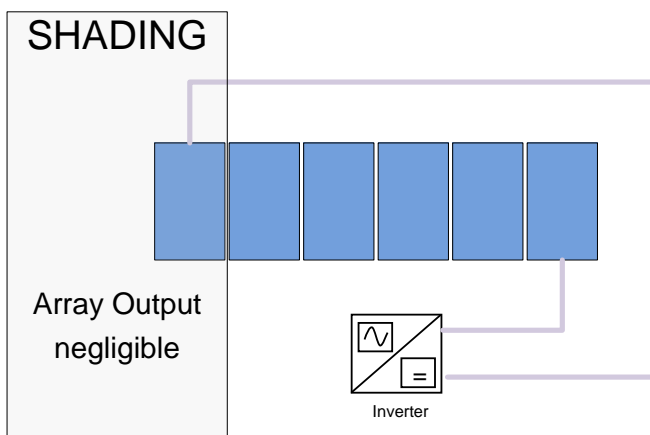
Typically annual kWh output increases of 10-100% can be achieved by careful system design, and shading management can zone the roof area to ensure that the effects of shading are minimised, ensuring outputs are maximised.

We can offer a range of bespoke system solutions from small grid connected PV systems to larger building mounted systems where careful module/inverter design selection can may a significant difference to outputs..

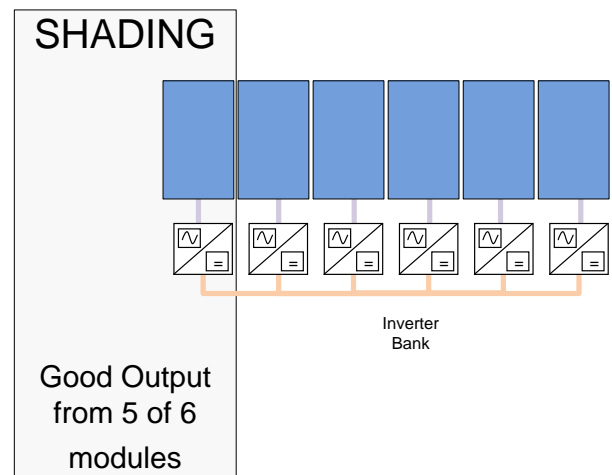


Shading is a complex issue, and there may be many locations that perform very well, if careful design practices are adopted. For example a tree may cast a shadow on a small PV array for much of the day, and the output of a traditional string inverter may be poor. By connecting modules singularly to an inverter or in clusters of 2 or 3 modules per inverter the shading effects of the tree can be minimised. The system solutions involve careful matching of solar PV modules to a larger number of inverters, whereby the roof can be zoned so the percentage effects of shading are minimised to a local level, leaving much of the array to perform well.

Traditional String Inverter solution



Optimised Solution with Shadepowertm



Ardenham Energy is approved by the Low Carbon Building Programme schemes
More information from info@ardenhamenergy.co.uk or 01296-331362
www.ardenhamenergy.co.uk

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Certificate MCS 1002
Solar Photovoltaic, Wind Turbine
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