

OPTIMISING SOLAR PV SYSTEM  
**New Life Church**

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**EMPOWER**  
ENERGY

**TOMORROW'S GENERATION TODAY**



# Wolverton Mill South

MAXIMISE  
SOLAR  
ENERGY

## Site Description

Azimuth 122 degrees; partial shading on each surface

## Installation Retrofit Date

18/08/2017

## Installation Capacity

50 KWp

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2 x SolarEdge SE25KW inverter and 100 P600 optimisers



RETROFIT SOLUTION

**solar**edge  
architects of energy™



POOR WIRING MANAGEMENT

New Life Church were aware that there was something seriously wrong with their PV System. For this reason they called in Empower Energy to investigate why their system was under-performing. A retrofit solution was recommended, this included appropriate electrical testing as well as ensuring maximum output efficiency and DC safety by the PV system. In this case, Empower Energy found several undetected faults which may have caused a fire risk and electrocution hazards. These findings were causing the system to malfunction, including electrical arcing and isolation faults.

The PV system was retrofitted using SolarEdge technology which consisted of 100 optimisers and two SolarEdge 25 KW inverters. The power optimiser come with 25 year warranty and inverters with 20 year warranty. This technology was specifically designed to increase energy production and automatically shut-down in case of an emergency. The system has complete panel level remote monitoring 24/7 to detect any issues and track the system performance in real time. Empower worked together with our scaffolders, to complete the project in 3 days from the first pole being erected to access equipment being removed from site. Empower support and workmanship warranties.



SCORCH MARK



WIRING FAILURE

“ Your guys have finished their job and they were delightful and helpful group of guys so many thanks. ”

David Eyeington

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