

## Case Study

Sector: Manufacturing

Energy storage system provides cost savings & eliminates production downtime

### SERVICE: Energy Storage and Voltage Optimisation

AES worked in conjunction with a battery energy storage system equipment supplier to install an energy storage system and voltage optimisation solution at a manufacturing site which was experiencing multiple power outages every year which seriously impacted on the business.

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*We have gone from 3-4 power cuts a year, costing us six figure sums on an annual basis, to a completely uninterrupted power supply thanks to the work AES carried out efficiently and professionally. The positive impact their work has had on the business is significant.*

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## CHALLENGES

A UK manufacturing business was experiencing significant financial impacts from regular interruptions to their power supply.

Operating a range of sensitive machinery such as CNC, timing machines and robotics meant that any power cut experienced from the grid was having serious repercussions on production. Even a short interruption meant that equipment needed to reset and reboot – creating a knock-on effect to all production efficiency and downtime.



AES was brought into to install a containerised battery storage system which would protect the organisation against any power cuts at the grid, by creating its own internal micro-grid, negating the need for the more traditional back-up generator (much slower).

## SOLUTION

In addition to positioning, connecting and configuring the system on-site, AES also optimised voltage to the correct levels around the factory which delivered general voltage stability improvements. The new micro-grid system delivers complete 24hr guaranteed uninterrupted power supply as well as significant energy cost savings by storing energy at its “off-peak” rate to use during peak periods.

Ultimately the job completely reduced the company's reliance on the unreliable continuity of the grid supply and put them in a really strong position financially by also getting paid to reduce their energy usage through the energy rationalisation scheme.



## Empowering Performance

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