

Case Study

Client: Pizza manufacturer and franchise in British Isles

Sector: Food and drink manufacturing

Services provided: Energy audit, ESOS, site energy support, **solar project implementation**

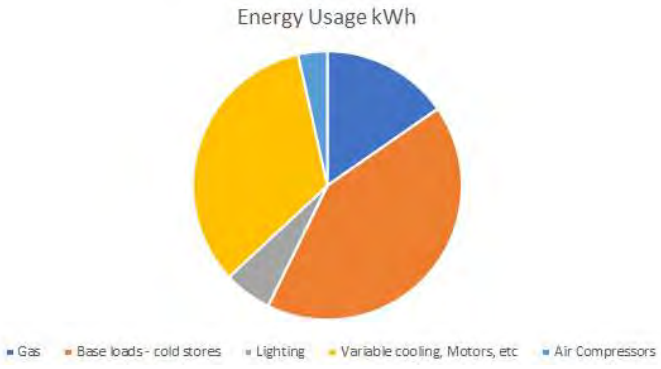
Benefits achieved: Savings estimated of £300,000 pa

Summary

This pizza manufacturer and franchise has over 1,200 stores across the UK and Republic of Ireland and more than 35,000 team members. Over 106 million freshly handcrafted pizzas are sold annually. The client produces pizza dough at four sites across the British Isles.

Scope

JRP were initially appointed to complete a Site Energy Audit at the one of the Client sites so that the organisation could gain a better understanding of how energy was being managed, and to identify improvement opportunities that could subsequently be implemented across all four sites to realise cost, energy and GHG emissions reductions.



The initial audit identified potential energy savings of circa £60k through energy management improvements alone. These would require an investment of £20k with a payback of 4 months.

Project Type	Solar PV Installation
Project Duration:	9 months
Project Value:	£ 1.6 m
Funding:	Self-funded by client
Payback	5 years

Other potential improvement projects identified included:

- Installation of CHP to supply base load electricity
- **Installation of solar PV to reduce site electricity demand**
- Heat decarbonisation
- Air compressor heat recovery
- Waste heat recovery from air compressors
- Variable speed drives
- Chiller optimisation
- Cooling containment
- Energy management regime including behaviour change
- BEMS upgrade/replacement

It was agreed that JRP Solutions would work with and support the organisation in developing the initial desktop and feasibility assessment along with the conceptual design and business case for each of the projects identified and discussed as part of the 2024 Project plan. This work would be delivered under a Project Support Service order whereby JRP undertakes the project support work on a call-off basis.

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JRP carried out a more detailed appraisal of the solar PV opportunity at the other two sites, initially as a desk top exercise and then a fully costed business case. We then developed an outline specification, engaged with the supply chain and sourced 3 quotes to design, supply and install solar arrays on the roofs of the two factory site's buildings.

In conjunction with the senior management team at the Client organisation, JRP then helped with the procurement exercise by providing support on the selection of a preferred contractor and commercial contract negotiations. JRP's project manager also attended weekly progress meetings to support the organisation right through to the commissioning of the system.



The installation of the solar PV across two sites is estimated to generate 1.6GWh/year and save the Client £300,000/year.

Results

"Working with JRP has been a very positive experience. They helped us through the due diligence, the procurement process and have supported us all through the implementation phase. JRP's experience and knowledge has been invaluable in ensuring we get best value for our energy improvement projects." ***Client Engineering Manager.***

For more information about any of JRP's services, call 0800 6127 567 or email info@jrpsolutions.com.