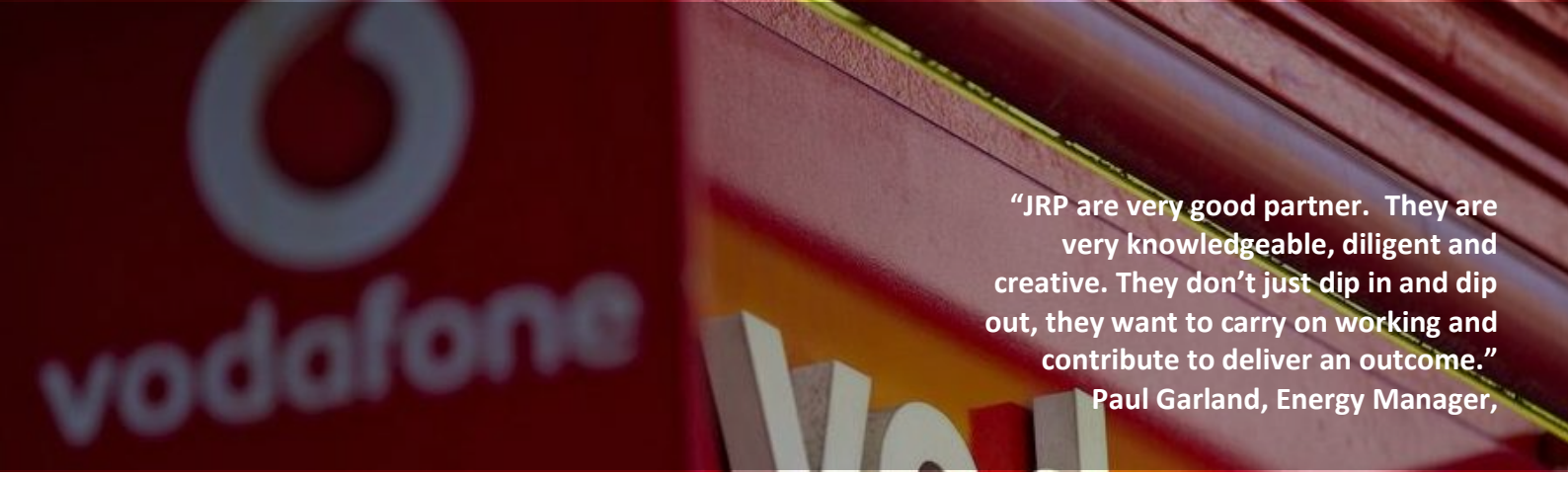


"JRP are very good partner. They are very knowledgeable, diligent and creative. They don't just dip in and dip out, they want to carry on working and contribute to deliver an outcome."
Paul Garland, Energy Manager,

Case Study

Client: Vodafone

Services provided: ISO 50001 gap analysis and business case, ISO 50001 action plan implementation.

Industry: Mobile communications

Results: Certification for the data centres was achieved within 6 months from completion of the gap analysis following 7 days of a very thorough external audit. An estimated 5 - 7.5% energy savings is anticipated from improved energy efficiency as a result.

Summary

Vodafone is one of the world's leading mobile communications providers with almost 444 million customers internationally and around 19.5 million in the UK. It has thousands of sites in the UK and is a major energy user. The sites include offices, retail stores, data centres, cell towers and network sites.



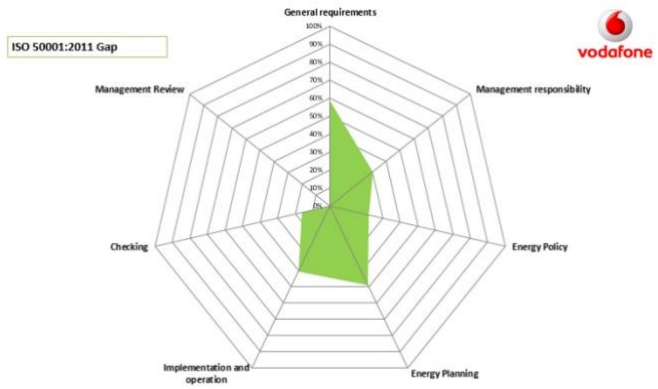
A high level strategic decision was taken to for Vodafone's 10 UK data centres to become certified to ISO 50001. The data centres are the most intensive energy users in the business and it was also considered that this was the most likely way to ensure the effectiveness of their Energy Performance Contract.

JRP were appointed to carry out an ISO 50001 gap analysis, prepare a business case for certification and then to develop and deliver an action plan to achieve certification.

1. Gap analysis and business case

JRP reviewed all the requirements of the standard using its ISO 50001 Gap Analysis Tool. These were fed into a spread sheet containing 170 line items of questions divided across seven key areas. They then carried out an overall company gap analysis and three further gap analysis at three Vodafone representative sites.

Vodafone were assessed to see how far off the standard they were by scoring a level of compliance to each of the 170 questions against the work required to move them from non-compliant to compliant.



Populating the spread sheet automatically populated a radar chart with the data from the gap analysis which gave a very visual indicator of the situation. JRP then



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summarised the tasks into a consolidated plan of actions required to achieve certification. This consolidated action plan formed part of the business case for certification which also included information about the external and internal resources required to achieve certification, with task owners and time scales allocated to each action.

2. ISO 50001 action plan implementation

As Vodafone wanted to achieve certification quickly and didn't have spare resource to do so, they delegated and empowered JRP to deliver the action plan. This included putting all systems required in place and managing the FM providers.

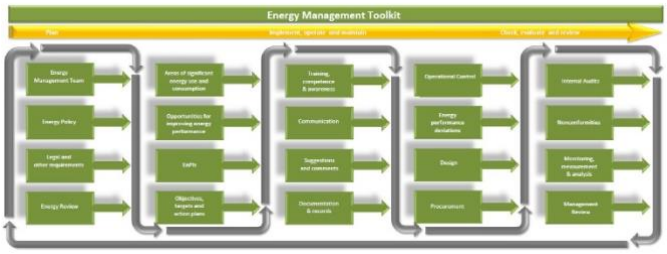
The consolidated action plan was developed into a implementation tracker plan with information about what was required and by when. Tasks were colour coded with a traffic light red, amber green system to demonstrate progress.

Over 100 different tasks were included in the plan relating to:

- operational control
- energy performance indictors
- management responsibility
- energy objectives
- training
- communication
- monitoring and verification

Some tasks were relatively easy to achieve and some more challenging. These included such things as defining roles and responsibilities – what people could and couldn't do - and carrying out an analysis of energy data from lots of different angles e.g. by technology, by site and benchmarking against different indices. This analysis was used to formulate energy performance indicators, EnPIs, which then drive energy objectives and targets. Certification was achieved within 6 months from completion of the gap analysis following 7 days of a very thorough external audit by LRQA. At the heart of the short certification process was JRP's ISO 50001 Toolkit – a very efficient tool that managed all the components of the Energy Management System.

The toolkit records the scope, definition of terms, objectives and targets. It stores records, procedures, data, data analysis, how-to-guides, action plans and when actions are required eg training, webinars, management reviews, legal requirements etc. JRP's ISO 50001 toolkit made the whole process quicker, easier to audit and minimised paperwork.



A large component of the implementation plans for Vodafone was about operational control going forward. Everything in the system was there to maximise energy savings – not to get certification. The objective was to embed systems and processes to ensure that Vodafone continues to manage and drive energy efficiency.

Following the data centres' certification to ISO 50001, the scope of the standard was expanded to include parts of the estate that had previously been subject to ESOS compliance and audited for such by JRP ESOS auditors. This included offices, mobile telephone exchanges (MTXs), fixed networks and radio base-stations.

The whole of Vodafone's UK estate is now covered by one ISO 50001 certificate which has the added bonus of making Vodafone now exempt from the ESOS scheme.

If you would like further information on any of the services in this document, or you would like to find out how we can use our expertise to add value to your organisation, please contact us on 0800 6127 567 or email us info@jrpsolutions.com

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