

# IVOLT'S DYNAMIC SOLUTION POWERS TESCO'S SUSTAINABLE SUCCESS



iVolt's energy optimisation system helped Tesco reduce energy consumption and costs in their UK stores while maintaining service quality, through dynamic technology and live reporting.



In 2014, Tesco faced a significant challenge of reducing energy consumption and costs in their UK stores while ensuring they maintained the same level of service quality for their customers. The challenge was especially daunting because Tesco is one of the world's largest retailers, with a vast network of stores and a large energy consumption rate. The company needed an innovative solution that would address the problem without compromising their service quality, and they found it in iVolt's energy optimisation system which was installed at a selected number of sites.

iVolt's dynamic technology is designed to optimise the electrical supply in real-time, allowing for a decrease in energy consumption and increased efficiency. The system works by

constantly monitoring the incoming voltage supply and adjusting it to the most efficient level to maintain a constant 220V output. iVolt's smart thyristor technology ensures a smooth transition between voltage levels, delivering a more precise output than traditional voltage management systems that reduce the voltage by a pre-set percentage which cannot extract the most savings. Furthermore, the system operates at an unnoticeable speed, meaning it doesn't interfere with Tesco's day-to-day operations.

Another key benefit of the iVolt system is the IRT portal, which enables live reporting of energy data. This portal allows Tesco to monitor energy usage in real-time across all their stores and verify energy savings made. It provides a

## at a glance

### TESCO



**3,598,764**  
TOTAL ENERGY  
SAVED (kWh)



**Various**  
iVOLT SIZE



**08/2014**  
ONWARDS  
INSTALL DATE



**37**  
ROI ACHIEVED  
(MONTHS)



**526,643**  
CO<sub>2</sub> EMISSIONS  
REDUCED (kg)



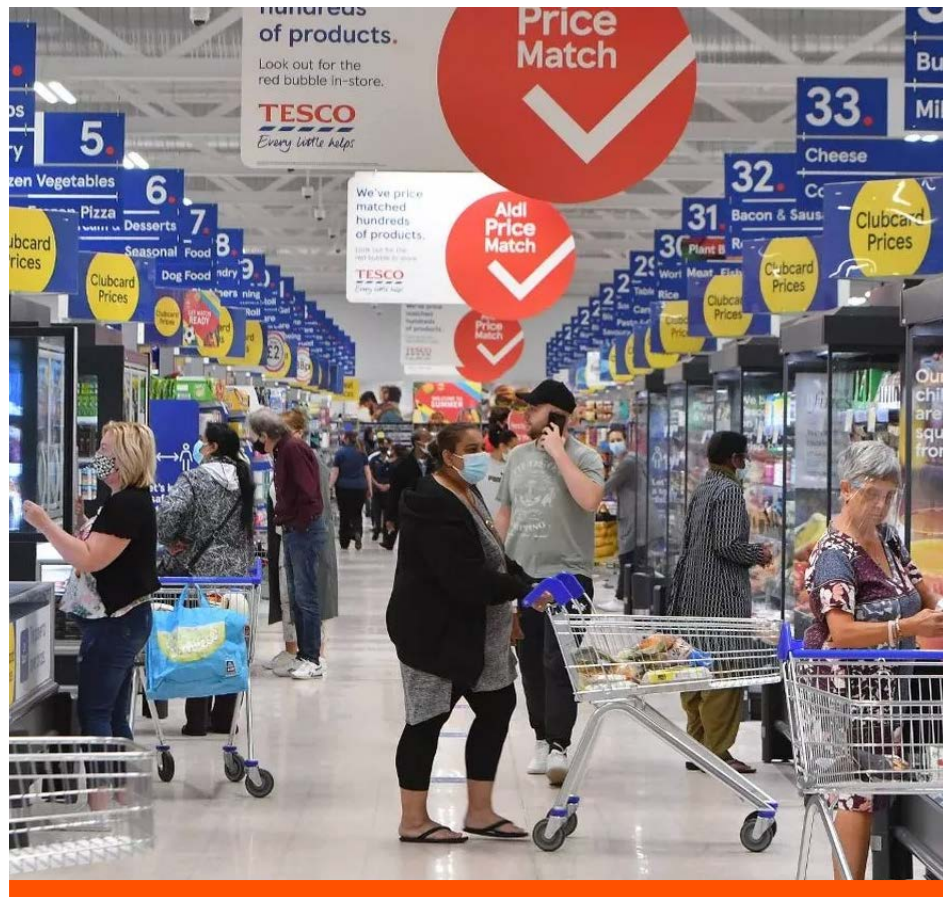
**7.13**  
ENERGY  
SAVED (%)



INFORMATION CORRECT AS OF 17/03/2023

single secure web portal for Tesco's energy management team to monitor the energy consumption and carbon footprint of each store and as a group. With this increased visibility, Tesco's energy management team can make informed decisions about energy usage and take further energy-saving measures.

Since the installation of iVOLT, Tesco has successfully reduced their energy consumption (up to 9.43%) and costs significantly while maintaining the quality of service provided to their customers. This reduction in energy consumption has also led to a reduction in CO<sub>2</sub> emissions, making Tesco a more sustainable business. Overall, Tesco chose iVOLT due to its dynamic technology, superior performance, and the added benefit of live reporting via the IRT portal. The solution has helped Tesco to become a more profitable and sustainable business, while ensuring they maintain the same quality of service for their customers.



#### For more information on iVOLT:

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The iVOLT® was designed in the UK and production takes place at its facility near Heathrow Airport. The company is part of the global Sollatek group and is accredited to ISO9001:2008

iVOLT® offer a vast range of product sizes, ranging from 63A to 3,000A and above in both single and three phase, with a number of installations having been completed throughout the commercial, retail, manufacturing, leisure and public sectors.

**iVOLT®**  
Intelligent Power Optimisation