

IVOLT OPTIMISING AL-BAYAN TO LIGHT UP QATAR AND CUT EMISSIONS



Al-Bayan benefits from iVolt with significant energy savings and a notable reduction in greenhouse gas emissions to help achieve their environmental goals and contribute to Qatar's National Environment and Climate Change Strategy.



Al-Bayan LED Manufacturing Company is a leading manufacturer and supplier of high-quality LED lighting solutions in Qatar. The company prides themselves in providing customers with energy efficient products which will not only help them save money but also reduce carbon emissions. Al-Baya's strong commitment to Qatar's National Environment and Climate Change Strategy which aims to reduce greenhouse gas (GHG) emissions by 25% by 2030, means they are continuously looking to not only improve their solutions for their customers but also to improve their own energy efficiency and environmental impact for their own manufacturing operations.

To achieve its goal, Al-Bayan sought a solution that could help it lower its energy consumption while maintaining the necessary voltage to

run its equipment efficiently. After considering various voltage optimisation solutions, including fixed and dynamic options, the company opted to install an iVolt system.

The iVolt is a dynamic solution that continuously monitors the incoming voltage supply to ensure a constant output voltage of 220V (+/-1.5%) to ensure that the equipment receives the optimal voltage at all times. Unlike fixed solutions, which adjusts the output voltage to match the incoming supply (less an agreed percentage), the iVolt provides a constant output voltage. This dynamic solution was found to save much more energy than fixed solutions.

Al-Bayan has experienced significant energy savings and a remarkable reduction in greenhouse gas emissions since implementing

at a glance

AL-BAYAN LED



31,075
TOTAL ENERGY
SAVED (kWh)



3x400A
iVOLT SIZE



13/09/2015
INSTALL DATE



41
ROI ACHIEVED
(MONTHS)



4,972
CO₂ EMISSIONS
REDUCED (kg)



4.56
ENERGY
SAVED (%)

INFORMATION CORRECT AS OF 15/03/2023



the iVolt system. The iVolt has also helped Al-Bayan maintain ideal equipment performance. By ensuring the equipment receives the optimal voltage at all times, the iVolt prevents voltage-related damage, increases equipment longevity and minimises costly equipment repairs.

The real-time monitoring and analytics allows Al-Bayan to track their energy usage, identify areas for optimisation, and make informed future decisions about its energy consumption to further help reduce energy usage and carbon emissions.

Since the installation of the iVolt, Al-Bayan's efficient production facility has achieved its environmental goal of further reducing energy consumption and GHG emissions whilst improving equipment performance and operating life. The iVolt system is a reliable and

effective voltage optimiser making it the ideal solution for companies looking to reduce their environmental impact and contribute to the goals of any country's environment and climate change strategy.

Being a manufacturer of energy efficient solutions, the iVolt was a natural choice. Also, given our primary goal was GHG reduction and Net Zero; the solid state, dynamic solution ensured we saved more and measured it something the cheaper, fixed alternatives couldn't do.

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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 ISO9001:2015

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