Chili's serves up energy efficiency in Mexico

CMR implemented a Panoramic Power PowerRadar energy management system to capture live energy data every 10 seconds.

Capturing live energy data to drive efficiency

CMR wanted to reduce its energy consumption without negatively affecting restaurant performance — and to arm local restaurant managers with the insight to better manage energy use, whilst reducing operational costs and environmental impact.

A network of sensors

Following a successful pilot in six outlets (generating an 8% energy saving), CMR worked with Panoramic Power channel partner, Solar 2 Green, to roll out the PowerRadar energy management system to 44 of its 65 Chili's restaurants.

Over 22 days, 1,300 sensors were installed (an average of 30/restaurant). All the sensor kits were pre-packed separately and tagged for each deployment location. Each sensor collects data every 10 seconds. The data is transmitted via a separate GSM line, avoiding interference with the IT network.

The results

The programme led to energy reductions at 32 of the 44 restaurants — impressive given a 7.6% rise in outdoor temperature versus the previous year, and a 3.5% increase in sales.
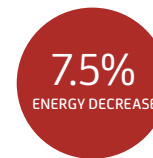
The net result was a 7.5% drop in energy, or 112,641kWh saved. For context, 112,641 kWh is the same amount of energy it would take to fully power 3.6 Chili's restaurants for an entire month; or, the equivalent of 79.2 Tons of CO_2 emissions.

32 RESTAURANTS
Reduced energy consumption at 32 restaurants

1,300 SENSORS
Installed 1,300 sensors in 22 days

7.5% ENERGY DECREASE
7.5% energy saving 112,641 kWh

> "Now, I see energy waste everywhere I look. This program has given us a level of awareness I never could have imagined. We'll not only improve our profit margins, but become better corporate citizens and better professionals."

Rafael Ruíz Muñoz, Corporate Brand Director, CMR Chili's

Why

The PowerRadar energy management system

- Energy Valuation Organization's (EVO) International Performance Measurement and Verification Protocol (IPMVP), creates a predictable energy consumption

- Data can be viewed through the PowerRadar mobile app allowing managers to make efficient and effective decisions

- Data captured every 10 seconds