

Case Study: Top 100 University

EnergyElephant Helps Top 100 University Automate Energy & Sustainability Management.

Project Overview

Universities are complex places which support undergraduate teaching, postgraduate research and a range of other services. This means they have a unique range of energy and sustainability data challenges across their organisations. These include capturing and analysing data across infrastructure (buildings, labs, estates and vehicles) encompassing electricity, gases, liquid fuels, renewables and water. They also cover strategic complexities around living lab initiatives and academic travel.



Background

One of the world's top universities worked with EnergyElephant to automate their energy/water cost, consumption and carbon management and sustainability reporting using our simple to use platform. The university's sustainability office was focused on saving time due to staff limitations, simplifying the sharing and management of data (in particular with academics via living lab projects) and future proofing their sustainability strategy towards becoming zero carbon. One of the key challenges was capturing and interpreting energy use in complex buildings and opening the data to academics.

Key Aspects

- Creating an open data set for academic use.
- Strategic development of zero carbon pathway.
- Providing a single source of truth for all data.

Results

The University's use of the EnergyElephant platform helped create a fast and easy way to report and track targets across energy, water, cost and carbon. Interesting areas covered included reporting on academic travel (flights) and creating a flexible internal carbon price for modelling and future proofing investment decisions. Additional benefits included bill validation across electricity and gas accounts, scalability for future data sets and opening data to academic projects. Future areas investigated included real-time water and fuel consumption monitoring for buildings and vehicles using local low powered wide area networks (LPWAN) and scoping for monitoring of scope 3 emission factors around embodied carbon and supply chain emissions.