

Welcome to our Living Campus

Throughout these pages you can explore real-time energy usage and energy initiatives at the Curtin Bentley campus

CASE STUDY

EXPLORE ENERGY INITIATIVES

CURTIN UNIVERSITY LIVING CAMPUS

INTEGRATION PLATFORM DELIVERY

BRINGING REALTIME DATA TO STUDENTS, ACADEMICS AND FACILITY MANAGERS

Commended for Leadership and Innovation in the Tertiary Sector by the Green Building Council of Australia

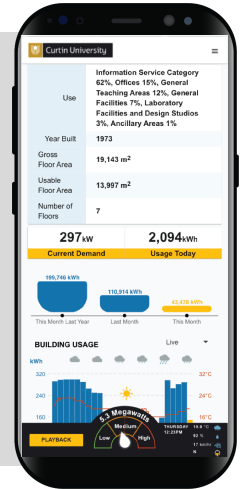


THE CHALLENGE

- To develop an innovative energy management platform for Curtin University
- Forms part of the University's strategy to attract the best staff and students through using resources more efficiently to improve the appeal of the campus
- The University wanted to demonstrate leadership in sustainability as students and staff are demanding organisations operate as good corporate citizens and actively help tackle climate change

IBMS SOLUTION

- Deployed Revata™ as a central platform to connect over 1000 meters and sensors across the campus
- Incorporates data inputs from AEMO (Australian Energy Market Operator) and Bureau of Meteorology to provide a holistic view of power consumption and power generation
- To make data visible to the users of the buildings, research and teaching staff through web based visualisation



OUTCOMES

- Enables teaching and research staff to use the campus as a large scale living lab to investigate current energy practices and identify and implement new opportunities by simulating data in real-time
- Reduced power consumption which included modifying the discharge profile of the thermal storage tank to reduce the demand on the electrical network at peak times
- Modelled the impact of the thermal load of lighting in the TL Robertson Library, resulting in the installation of new lighting that lead to a two-thirds reduction in energy consumption, the equivalent of installing 10,000sqm of photovoltaic cells
- Data generated from Revata™ is being used for future infrastructure planning through system capacity analytics for future infrastructure upgrades