



## CASE STUDY | ENERGY AS A SERVICE

# Deakin Renewable Energy Microgrid

**Mondo is working with Deakin University to establish an industrial-scale renewable energy microgrid.**

Deakin University is a world class higher education institution with five campuses spanning 450 hectares. The university has over 57,000 students enrolled and is steadily growing each year. The project is being completed at Deakin's Waurin Ponds campus, which spans 325 hectares and has over 7500 students enrolled.

Deakin University is committed to being a sector leader in sustainability, and has set a 2030 challenge to address global sustainability issues and provide a framework for the sustainable development of the university. To meet their renewable energy goals, Deakin University has identified the requirement for a large solar farm and battery system, capable of powering the campus to minimise reliance on the grid.

### Key Project Figures:

- \$25 million project
- 54% of Waurin Ponds Campus' current power consumption will be supplied by renewables
- 7 MW (14.5 hectare) solar farm
- 1 MW/2MWh battery
- Over 0.25MW rooftop solar and 30kWh battery storage on multiple buildings
- 24 x Mondo Ubi™ Devices and access to Ubi™ Energy Management Platform to manage solar, battery and grid energy.

**Empowering a bright future.**



### Stage 1 – Rooftop solar, batteries and sub-metering

Following a comprehensive planning phase, Mondo worked closely with the Deakin University Infrastructure & Property Group project team on the design, implementation, testing and installation of Stage 1 of the project.

The tailored solar PV, battery and sub-metering solution successfully met Deakin University’s sustainability and energy monitoring goals, which included an integrated research platform.

This stage included over 250 kW of solar capacity installed on the rooftops of selected buildings, as well as 30 kWh of battery storage, 24 Mondo Ubi™ devices, and the integration to over 40 existing sub-metering points.

### Stage 2 – Solar farm and industrial-size battery

The second stage of the project involved the installation of a 7MW (14.5 hectare ) solar farm and 1MW/2MWh battery storage facility. Mondo managed the design, procurement, installation and commissioning of the battery for the solar farm.

Stage two included the coordination of the high voltage infrastructure, including relevant grid applications. The project is expected to reach practical completion in late 2020 with commissioning early 2021.

Design, Planning & Approvals

Procurement & Tenders

Installation/ Construction

Integration & Commissioning

Ongoing Support

### Project management and delivery process

Mondo has developed a mature delivery and installation capability which is supported by a strong project management framework. The framework is focussed on delivering value across all components of the project lifecycle. The project lifecycle includes the elements of safety, scope, schedule, costs, risks, issues and actions, change and quality management, organisation and resource management, communications and stakeholder management.

**Empowering a bright future.**