

# NHP MAKES A SPLASH IN AUSTRALIA’S NEWEST THEME PARK!

Case studies

## Introduction

When the summer months hit, what better way to cool off than with a brand new water park situated in Australia's iconic entertainment destination. Located 70km south east of Melbourne, Victoria, Gumbuya World theme park has undertaken a \$50million redevelopment with the help of Walter J. Pratt Pty. Ltd. and NHP Electrical Engineering.

Occupying 166 hectares of land, the revamped theme park will not only offer 54 attractions for visitors but will also cater to the more mature population with a 500-bed hotel, vineyard, chocolate factory and a microbrewery.

When we think of a theme park, we think of the user experience. What we do not think about, is the intricacies associated with the workings behind this operation. Careful consideration needs to be explored when it comes to the safety for patrons, seamless and uninterrupted performance for all components, as well as an element of energy efficiency to ensure the theme park remains as environmentally friendly as possible.

Among the attractions displayed is a water park, which posed the biggest challenge requiring a specialist in this area, making Walter J. Pratt Pty. Ltd. the perfect fit when it came to choosing a supplier.

Walter J. Pratt Pty. Ltd. provide customers with fit for purpose solutions to their water management needs, including water savings, water re-use or water treatment. With similarities to NHP, Walter J. Pratt Pty. Ltd. commenced operations 50 years ago and are also an Australian privately owned company which formed one of the reasons for partnering with another local company to fulfil the project requirements.

## Project Overview

With an official opening of the first stage in December, there was a strict deadline for delivery of products, which prompted NHP to be the best suitor having an extensive local stock holding.

*"NHP were our top choice not only because of the local aspect, but because they deliver on quality products, maintain an esteemed reputation in the industry, and provide on-going service throughout the project and beyond,"* said Walter J. Pratt Pty. Ltd.'s Project Manager, Mark Crocker.

The operation of the water park required a suite of products for continual and optimal functionality. NHP assisted in the selection of electrical and automation products, and Walter J. Pratt Pty. Ltd appointed Sine Switchboards Pty Ltd to build the motor control centres.

*"At NHP, we are proud to not only support the local industry, but it's a bonus when we are privileged enough to be involved in iconic Australian projects, like Gumbuya World. With a small window of delivering on an entire range of solutions, we managed to meet the demand and further assisted in the installation process,"* commented NHP's Automation – Business Development, Austin Gan.

## The Solution

The primary functions of the water park requiring control management were the pumps, filtering and subsequent safety of these. To satisfy efficiency needs, NHP provided the innovative Terasaki Tembreak moulded case circuit breakers with advanced protection functions and energy metering, Allen-Bradley® PowerFlex Drives were installed to optimise power consumption, and the MODdrive variable speed drive with energy efficiency control.

Complementing the energy management and power quality solutions, NHP provided products to enhance operational performance with the Rockwell Automation Power Monitor, Allen-Bradley® CompactLogix®, as well as the Allen-Bradley® ArmorBlock and ArmorPoint (waterproof).

Safety-proofing the entirety of operations, NHP supplied Katko Isolators and emergency Stop pushbuttons, as well as the D7 Switches for control and indication.

The overarching control came from the customised Allen-Bradley® PanelView operator interface which monitors, controls and displays information in dynamic ways, where operators can quickly understand machine status and make better decisions.

NHP is not only proud to play a part in what hopes to be a future iconic Australian tourist destination, but to contribute to the local industry partnering with another locally owned company.

## Project Fact File

**Project:** Gumbuya World theme park redevelopment

**Location:** Melbourne, Victoria

**Details:** Walter J. Pratt Pty. Ltd. and NHP provided a sound design and solution for the primary functions of the Water Park requiring control management were the pumps, filtering and subsequent safety of these.

### NHP Products/Services:

- Allen-Bradley® CompactLogix®
- Allen-Bradley® PanelView
- Allen-Bradley® PowerFlex Drives
- Allen-Bradley® Power Monitor
- Allen-Bradley® ArmorBlock and ArmourPoint (Waterproof)
- Terasaki Tembreak moulded case circuit breakers
- Sprecher & Schuch switches emergency stop pushbuttons
- Katko Isolators
- MODdrive variable speed drives

