

Tasmania



Meeting Capacity Needs with a Flexible Solution Amid Undersea Power Cable Fault

In late 2015, a fault in the undersea power cable connecting Tasmania and mainland Australia reduced the island state’s electrical import capacity by 500MW - about 40 percent of its non-peak power consumption. Hydro Tasmania, Australia’s leading provider of renewable energy, needed an energy company capable of providing rapid, mobile generation solutions that could supplement capacity while Tasmania awaited the repair of the undersea power cable and the replenishment of hydro power reservoirs. In March 2016, APR Energy was selected to install three dual-fuel mobile gas turbines to generate up to 75MW of electricity. APR completed the power plant a short two months later. By running on diesel and using water-injection, APR Energy’s turbines produced 93 percent less nitrogen oxide than a typical high-speed diesel reciprocating engine.



ADAPTIVE TECHNOLOGY

The fuel flexibility of APR Energy’s technology offered Hydro Tasmania the ability to seamlessly switch between diesel and natural gas in the short and long term.



RAPID INSTALLATION

A solution was quickly engineered to offset the hydro power deficit and supply disruption from Australian mainland.



REDUCED FOOTPRINT

The power-dense turbines required approximately one-third of the space needed for an equivalent-output plant using diesel reciprocating engines.

3 **TM2500+**
gas turbines



“We were very impressed with APR Energy’s responsiveness. Their mobile turbines were a great fit for our specific fuel flexibility, emissions, space and noise requirements at the site. We found APR Energy to be professional, customer focused and a pleasure to work with.”

Evangelista Albertini, Chief Operating Officer
Hydro Tasmania

93%

Less nitrogen oxide was produced by APR Energy’s turbines compared to a typical high-speed diesel reciprocating engine.

20%

Less noise was generated compared to equivalent MW reciprocating engine plants.