

HOGEN & STABLEFLOW AT PORT AUGUSTA

HMA Instrumentation celebrates the successful project management in supply, delivery, installation and commissioning of Proton Onsite (previous named Proton Energy System) Hydrogen Generator- HOGEN & Hydrogen Control System – StableFlow.

Location Port Augusta, SA, Australia
Industry Power Generation
Client Port Augusta Power Station

APPLICATION

Port Augusta Power Station in South Australia is now enjoying a safe and secure onsite supply of hydrogen from HOGEN. This means that they would no longer need to rely on bottled gas by gas suppliers and take advantage of extreme high purity of 99.9999% hydrogen produced by caustic-free electrolysis.



In addition, both the Unit 1 and Unit 2 turbine generators onsite now each have a “cruise control” (StableFlow) that optimizes the Pressure, Dewpoint and Purity of the hydrogen within the generator case.

Hydrogen is used in place of air as the cooling agent in the generator case principally because of its low density and its superior cooling properties. Maximizing the hydrogen quality (pressure, dewpoint & purity) would mean increasing efficiency of the turbine overall, hence minimizing fuel consumption and maximizing generator output capacity.

From procurement of the units, pipes and fittings to welding, painting, hanging of pipes, wiring the cables and assembling the various components to install and commission HOGEN & StableFlows, HMA Instrumentation has done it all. We will soon be doing it again for other power stations to benefit.

