



## Case Study IE-Lift™ Module

# Avid EPG and the H2GO – Fuel Cell Power Pack

Avid EPG Group is an Australian company, based in Perth, Western Australia providing electrical design, switchboard assembly, maintenance, installation and commissioning services to a wide range of industries.

In just a few weeks, Avid EPG Group worked with Intelligent Energy to integrate a set of IE-Lift™ modules into four different stationary applications. The result was a compact, easy to move and position power system, the 'H2GO' 1kW hydrogen fuel cell power pack. The H2GO power pack provides quiet, zero emission power for on-grid and off-grid purposes. The H2GO fuel cell power packs are some of the first PEM fuel cell systems to be available for commercial use in Australia.

Avid EPG Group selected four different stationary applications to demonstrate how the H2GO could be used for a variety of applications across several markets where diesel generators (gen-sets) are typically used. The four specific applications were:

- Lighting towers
- Off-grid phone and mobile device charging
- Appliance charging systems; powering loads for a mobile catering unit
- Off-grid 'infotainment' systems

"We have been excited with the integration activities using the Intelligent Energy fuel cell systems and impressed with their performance. We now have utmost confidence that this is the start of a new era of zero emission technology availability in a wide range of gen-set replacement applications for Australian markets, and in our continuing collaboration with Intelligent Energy".

**Daniel Blackford, Director of Avid Group**

These applications were selected in conjunction with Woodside Energy, a division of Woodside Petroleum, Australia's largest oil and gas field developer and shipper of LNG to Asian markets – with plans to enter upstream domestic and export hydrogen market sectors.

Avid EPG selected IE-Lift™ modules as the offer efficient, zero emission, low noise operations with low life cycle costs and minimal maintenance. The only maintenance required is a simple air filter change. These benefits make IE-Lift™ an ideal solution for industries that are working to reduce their carbon footprint and improve local air quality for the communities in which they operate.

These features, coupled with the lack of ground spill risk associated with liquid fuels, also makes the H2GO a great option for sensitive and urban sites where noise and pollution are major concerns.



#### **H2GO Pack features**

- Zero emission
- Quiet operation
- Off-grid power solution for a variety of applications
- Compact and easy to handle
- Minimal servicing and maintenance

#### **Features of the IE-Lift™ technology used in the H2GO**

- Proven, reliable fuel cell system technology
- CE and FCC certified
- Utilises Intelligent Energy's robust air cooled fuel cell technology
- Regulated output designed for hybridisation with a 24V or 48V battery array
- Simple balance-of-plant
- Modular, scalable system
- Assured power availability



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