Press Release

Huge Value from a Tiny Fuel Cell Power Pack

September 2015, Shanghai - Horizon Fuel Cell Technologies has announced a new breakthrough fuel cell technology now able to produce electricity at prices approaching grid electricity cost.

The new MFC Mini 50 from Horizon is so efficient it can produce nearly 1000Wh of electrical energy with just one litre of diluted fuel. The inexpensive fuel comprised of water and industrial methanol, costs less than 30 cents per litre in large volumes. In terms of operating cost, the MFC-Mini produces electricity at around 30 cents per kWh.

Unlike small petrol or diesel generators, the MFC Mini 50 can be operated safely indoors, makes almost no sound, and uses a more cost-effective fuel source than traditional fossil fuels. The environmental benefits are enormous, while customers benefit from clear operational cost savings.

Weighing in at less than 9kg, Horizon’s MFC Mini 50 is the lightest and most compact reformer based fuel cell system ever seen, making it easy to transport and install. Coupled with its cost effectiveness, this product immediately opens markets previously not practical for any type of fuel cell system.

There are numerous applications which benefit from the unique features of the MFC Mini 50, such as surveillance, emergency services and first responders, security and emergency lighting, temporary signage and environmental...
monitoring. Each litre of fuel can support more than 24 hours of operation at 30W, enabling long autonomy for many types of 12V DC equipment.

The MFC Mini 50 is a great choice for backing up or optimising small format solar systems, as well as providing attractive, very long autonomy for battery-operated systems that previously needed very frequent battery changes to sustain continuous operations.

The MFC Mini 50 is the first of several ultra-compact reformer-integrated fuel cell systems to be introduced by Horizon, with higher power systems in the works capable of producing up to 100W of continuous power from the same tiny format.

These small-format liquid fuelled systems leverage several years of development at Horizon, targeting the global market for 1-5kW fuel cell backup power systems for Telecom and other critical infrastructure. Several innovations have enabled Horizon to “shrink” the system architecture to power the MFC Mini 50 using the same economical diluted fuel.

About Horizon Fuel Cell Technologies:

Horizon is a world leader in low power PEM fuel cell systems, and has invested heavily in recent years to couple methanol reformer technology with its strong track record in PEM fuel cell product development. The combination of these two technologies provides cost-effective portable power generation to augment battery systems and/or replace small portable generator systems.

Contact: Craig Knight  craig@horizonfuelcell.com