



The SimpleFuel™ Consortium Named Winner of the \$1 Million H2 Refuel H-Prize by the U.S. Department of Energy's Fuel Cell Technologies Office and the Hydrogen Education Foundation

Consortium Led by Ivys Energy Solutions with Partners McPhy Energy NA and PDC Machines

Waltham, MA USA – January 23, 2017 – Ivys Energy Solutions and its partners McPhy Energy North America (Massachusetts) and PDC Machines (Pennsylvania) have won the U.S. Department of Energy's \$1 million H2 Refuel H-Prize Competition. The goal of the competition was to develop a safe, affordable, readily deployable hydrogen refueling appliance for fuel cell electric vehicles.

The SimpleFuel™ appliance is a new class of fully integrated hydrogen generation and dispensing systems capable of delivering up to 5 or 10 kg/day of hydrogen to vehicles at pressures up to 700 bar, using hydrogen produced via water electrolysis. The SimpleFuel™ solution will enable a quicker realization of zero-emission fuel cell electric vehicle (FCEV) adoption across the country by providing a convenient fueling network option for communities, businesses, and ride-share/fleet operators that are currently limited by a lack of hydrogen refueling infrastructure.

This impressive achievement represents a two-year, dedicated mission by Ivys and its partners to design, develop and validate this state-of-art appliance. The project culminated in the fall of 2016, including an open house event attended by Sunita Satyapal, Director of the Department of Energy's Fuel Cell Technologies Office, and a 3-month data collection period fueling a commercially available Hyundai Tucson FCEV. During the demonstration period, the SimpleFuel™ appliance generated and dispensed enough hydrogen for 10,000 miles of FCEV travel, and system performance was monitored and validated by National Renewable Energy Laboratory.

"Ivys Inc. and our partners are committed to bringing clean and renewable transportation technologies to reality. The engagement of our SimpleFuel™ team members McPhy Energy NA and PDC Machines, as well as our OEM partner Hyundai, represented an unprecedented union of passion, competence and experience, further validated by the unanimous approval by the expert judging panel," said Darryl Pollica, President & CEO, Ivys Inc. "We believe our concerted efforts to commercialize compact refueling appliances will help enable and ensure sustainable transportation alternatives, while strengthening our domestic economy, creating clean energy jobs, and benefitting the environment. The foresight of DOE and Congress to see this need and incentivize innovation through H-Prize is both commendable and consistent with the entrepreneurial spirit America was founded upon."

For more information please contact us at connect@ivysinc.com or visit www.ivysinc.com.

For more information on the H2 Refuel H-Prize Competition, visit www.hydrogenprize.org. The H-Prize is administered by the Hydrogen Education Foundation.

