



Hydrogen Education Foundation

Hydrogen Education Foundation awards Consortium SimpleFuel \$1 Million in U.S. Department of Energy's H-Prize

SimpleFuel receives Award of H2 Refuel H-Prize Competition for Small-Scale Hydrogen Refueling System

January 23, 2017 – Washington, DC – The U.S. Department of Energy's (DOE) Fuel Cell Technologies Office (FCTO) and the Hydrogen Education Foundation (HEF), managed by Technology Transition Corporation (TTC), recently announced the competition finalist *SimpleFuel* as the winner of the \$1 Million H2 Refuel H-Prize. This success can support economic growth, jobs, and domestic leadership in cutting edge energy technology.

The SimpleFuel™ team, a consortium made up of [Ivys Energy Solutions](#), [McPhy Energy North America](#) and [PDC Machines](#), designed their system to be a safe, small-scale hydrogen-refueling appliance capable of delivering up to 5 kg/day of hydrogen to vehicles at pressures up to 700 bar (10,000 psi). 5 kg is enough to fully fuel one fuel cell electric vehicle (FCEV) for 300-360 miles.

"In 2007 Congress established this competition, with bipartisan support, to inspire creative approaches and advances for hydrogen energy technologies," stated Jeff Serfass, President of the Hydrogen Education Foundation. *"The development of the hydrogen infrastructure became the target of this competition, and I am pleased that DOE and HEF together have delivered on the objective for the H-Prize with SimpleFuel's grand achievement,"* Serfass concluded.

Phase 1 of the competition was launched in 2014, when America's engineers and entrepreneurs were invited to answer the call to design and build an affordable system for small-scale, non-commercial hydrogen fueling. After receiving and evaluating nine design submissions in 2015, one team –SimpleFuel– was selected by an independent panel of judges as the Finalist, to advance to Phase 2.

SimpleFuel constructed their system in 2016 in Warminster, Pennsylvania, followed by a 3-month data collection period, which ended in December 2016. During that time, an open house event was held, which was attended by DOE FCTO Director Sunita Satyapal, at which the team demonstrated their system by conducting a fueling of a Hyundai Tucson FCEV.

The National Renewable Energy Laboratory (NREL) analyzed the data collected during that testing period, and the cost information provided by the team was also independently reviewed. The H-Prize panel of judges deemed that the data collected showed that SimpleFuel's system met both the technical and cost criteria as outlined in the final competition guidelines, thereby unanimously declaring them the winner of the H2 Refuel H-Prize.

Hydrogen infrastructure remains a critical barrier to the widespread adoption of FCEVs. The future of FCEVs in a consumer environment is dependent upon a widely available network of fueling stations. At the current early stage of market introduction, there will be a need for small-scale refueling to serve communities and residences far from the commercial hydrogen fueling station network. The H2 Refuel competition was designed to help address this barrier through easily deployed small scale fueling systems for home and community use to bridge the gap while widespread infrastructure development takes place.

The Hydrogen Education Foundation administers the H2 Refuel H-Prize for the U.S. Department of Energy. More information on the H2 Refuel H-Prize are available at <http://www.hydrogenprize.org>.

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About the Hydrogen Education Foundation

The Hydrogen Education Foundation, a 501(c)(3) organization, promotes clean hydrogen energy technologies through innovative national competitions and educational programs to encourage environmental stewardship, improve energy security, and create green jobs. www.HydrogenEducationFoundation.org