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MOUNT PLEASANT, Pa., Jan. 5, 2021 /PRNewswire/ -- WATT Fuel Cell ("WATT"), in partnership with Peoples Gas ("Peoples"), has reached a significant milestone on their path to the commercialization of residential fuel cell systems. Utilizing its proprietary additive manufacturing process, WATT has increased its fuel cell stack power more than 100% to over 2000W and improved system efficiency by more than 50%.

"We are excited about the advancements in the fuel cell technology and looking forward to piloting systems in homes in 2021," says Jeff Nehr, Peoples Gas Vice President, Production & Business Development.

The fuel cell systems directly convert natural gas through an electrochemical reaction to electricity, with little to zero emissions. It works in parallel with the electric grid, as well as other renewable resources such as solar, to generate power on-site at the time of need. Clean, compact, and quiet, WATT's fuel cell system provides a power source that is Working All The Time.

WATT's current products utilize air to process the fuel, which is referred to as partial oxidation ("POX"), the simplest and most cost-effective form of fuel processing but is usually far less efficient. However, WATT's additive manufacturing process and extensive catalysis expertise has enabled WATT to develop industry-leading efficiencies while retaining the financial advantages associated with the simplified system requirements.

These advances in fuel cell technology and the lessons learned from the ongoing residential field trials will be folded into the new Beta Hybrid system, which WATT and Peoples Gas will roll-out in 2021.

Clean, reliable fuel cell power comes home - for brighter neighborhoods and uninterrupted power that is Working All The Time. The future of electric power is coming home in the form of combustion-free, low-emission fuel cells.

Natural gas and electric utilities, are on a quest to decarbonize. Fuel cells are a quantum leap in utility decarbonization. The impact of fuel cells on utility carbon reduction is dramatic - for both the utility and its residential customers.

Clean power from combustion-free fuel cells running on natural gas, blended natural gas & hydrogen, and eventually pure hydrogen can significantly help utilities address their goals for Scope 3 emissions by increasing the adoption of fuel cells in residential homes.

WATT HOME systems provide utilities an opportunity to support customer adoption of fuel cells for primary power generation or uninterruptable power supply. Avoided emissions for using both fuel cells and hybrid (with solar) fuel cell WATT solutions is shown in the example data below.



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More than 189 million Americans rely on natural gas because it's affordable, reliable and safe. As natural gas utilities strive to drive down emissions and help achieve energy and environmental goals, WATT HOME fuel cell systems offer natural gas utilities an unprecedented solution to drive those goals forward from the heart of their customers homes. Natural gas utility fuel cell program benefits include:

As electric utilities strive to meet ambitious electrification and decarbonization goals, in-home distributed WATT HOME systems provide an unmatched solution. With the capability to provide baseload primary power or reliability as a service with uninterrupted power solutions, WATT HOME systems enable electric utilities to serve their customers unlike ever before. Electric utility WATT HOME system adoption benefits include:

WATT HOME is powering peace of mind -providing homes with primary power or uninterrupted power supply options. Supporting homeowners and utilities as they meet growing energy demands.

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Web: <https://www.hollanddutch tours.nl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

