

In lieu of testimony during today's (5/29/2024) Joint Interim Standing Committee on Growth and Infrastructure, below please find my written comments with regards to the use of hydrogen.

HyAxiom is a Connecticut based company that specializes in the utilization and production of hydrogen with our stationary fuel cell and electrolyzer products. Our company has been in existence for over 60 years and dates back to the 1950's when we were UTC Power, a subsidiary of United Technologies. During that time, we were contracted by NASA to develop and build hydrogen fuel cells to be utilized on space missions to provide electricity and water for astronauts. Fuel cells use the chemical energy of hydrogen to cleanly and efficiently produce electricity, water, and heat without combustion. This program continued for decades and earlier this year HyAxiom was featured in the 2024 NASA Spinoff publication titled "NASA's Moon Shot Launched Commercial Fuel Cell Industry." The link to that article is included here: [NASA's Moon Shot Launched Commercial Fuel Cell Industry | NASA Spinoff](#)

Fast forward to today and HyAxiom is part of the Korean conglomerate Doosan, which has led to the global expansion of commercialized hydrogen fuel cell projects at scale. One project to highlight is the Daesan Green Energy project in Korea. This project utilizes high purity byproduct hydrogen to generate 50 MW of clean electricity and heat, which is enough to power about 40,000 US households. It has been in operation since 2020 and runs at an annual capacity factor greater than 98%. The core technology is our PureCell M400 Hydrogen, which was developed and demonstrated at our facility in Connecticut in 2018. The Daesan Green Energy project is comprised of 114 of these M400 units. The following link is an article highlighting this project: [Innovative Byproduct-Hydrogen Fuel Cell Power Plant Completed \(powermag.com\)](#)

Thank you for this opportunity to provide written comments to the committee. Please let me know if you have any questions.

Regards,

David Alonso

Chief Commercial Officer