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## **Capstone Turbine Issued Two New Patents for Multiple Fuel Applications – Including Hydrogen and Liquid Fuel Ultra-Low Emissions Capabilities**

VAN NUYS, Calif., May 20, 2019 (GLOBE NEWSWIRE) -- Capstone Turbine Corporation ([www.capstoneturbine.com](http://www.capstoneturbine.com)) (Nasdaq: CPST), the world's leading clean technology manufacturer of microturbine energy systems announced today that the U.S. Patent and Trademark Office has issued two new patents to Capstone. The patents support Capstone's initiatives targeting the expansion of multiple fuels for operation, including high flame speed fuels such as hydrogen, while also maintaining Capstone's industry-leading low emissions.

Patent 10,184,664 is for a multiple-fuel capable, pre-mixed, low emission injector for high flame speed fuel combustion. This patent is the foundation for continued development in achieving high reliability and performance with hydrogen content fuels.

Patent 10,197,292 is for a multi-staged, lean pre-vaporizing, pre-mixing fuel injector providing ultra-low emissions that meet EPA Tier 4 requirements for power generation. Under this new program, exhaust emissions from these engines will be required to decrease by more than 90%.

"Both patents use a similar design architecture but with differences for each application. One being for liquid fuels, and the other for hydrogen and hydrogen blend fuels," explains Don Ayers, Capstone's Director of Product Engineering. "They each seek to control fuel to air mixing to achieve higher performance and combustion efficiencies through flame stability, flashback prevention, and ultra-low emissions," added Mr. Ayers.

"Designing multiple fuel capability into our injectors reduces service costs and extends service life. It's a win-win situation for Capstone and our customers," said Jeff Foster, Capstone's Senior Vice President of Customer Service and Product Development.

Capstone's technology roadmap, announced in October 2018, includes the development of not only new fuel capabilities enabled by these patents, but also integrating these advancements into our future C65 Signature Series product line, and validated as part of our organic technology growth strategy.

"Our technology roadmap supports a variety of global advances that will ensure Capstone's products continue to become an essential behind the meter microgrid asset as part of the new clean and green energy economy," said Darren Jamison, Capstone's President and Chief Executive Officer. "Microturbines operating on alternative fuels like hydrogen, biogas, butane, and renewable natural gas showcases how Capstone's innovative and adaptable

microturbine technology can continue to grow into new segments of the expanding green energy economy,” concluded Mr. Jamison.

### **About Capstone Turbine Corporation**

Capstone Turbine Corporation ([www.capstoneturbine.com](http://www.capstoneturbine.com)) (Nasdaq: CPST) is the world's leading producer of highly efficient, low-emission, resilient microturbine energy systems. Capstone microturbines serve multiple vertical markets worldwide, including natural resources, energy efficiency, renewable energy, critical power supply, transportation and microgrids. Capstone offers a comprehensive product lineup, providing scalable systems focusing on 30 kW to 10 MWs that operate on a variety of gaseous or liquid fuels and are the ideal solution for today's distributed power generation needs. To date, Capstone has shipped over 9,000 units to 73 countries and have saved customers an estimated \$253 million in annual energy costs and 350,000 tons of carbon.

For more information about the company, please visit [www.capstoneturbine.com](http://www.capstoneturbine.com). Follow Capstone Turbine on [Twitter](#), [LinkedIn](#) and [YouTube](#).

### **Forward-Looking Statements**

This press release contains “forward-looking statements,” as that term is used in the federal securities laws. Forward-looking statements may be identified by words such as “expects,” “believes,” “objective,” “intend,” “targeted,” “plan” and similar phrases. These forward-looking statements are subject to numerous assumptions, risks and uncertainties described in Capstone's filings with the Securities and Exchange Commission that may cause Capstone's actual results to be materially different from any future results expressed or implied in such statements. Capstone cautions readers not to place undue reliance on these forward-looking statements, which speak only as of the date of this release. Capstone undertakes no obligation, and specifically disclaims any obligation, to release any revisions to any forward-looking statements to reflect events or circumstances after the date of this release or to reflect the occurrence of unanticipated events.

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