Omnis Fuel Technologies Introduces a New Energy Era

Creating Hydrogen from Coal, Natural Gas, and Oil

PENN VALLEY, PA, US, October 24, 2023 /EINPresswire.com/ -- Omnis Fuel Technologies ("Omnis") is bringing the heat - literally - to the process of pyrolysis, potentially signaling continued use of hydrocarbon resources (oil, natural gas, coal, or biomass) as feedstock, but producing clean hydrogen and high-value graphite products.

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> *Dr. Nansen Saleri, Chairman, Omnis Hydrogen Advisory Board*

"There is nothing new about pyrolysis, the process has been around for ages, but using ultra- high temperatures (2,600 to 3,200 degrees Centigrade) in pyrolysis gives you a breakthrough outcome," according to Dr. Nansen Saleri, Chairman of the Omnis Hydrogen Advisory Board, and CEO and Co-Founder of strategic consulting/analytics firm Quantum Reservoir Impact. He was formerly Head of Reservoir Management with Saudi Aramco.

Saleri is the Keynote Speaker at the Nov. 30, Appalachian Hydrogen & Carbon Capture Conference. Presented by the H2-CCS Network and Shale Directories, the one-day program at the Hilton Garden Inn Pittsburgh Southpointe will bring together experts in the burgeoning Hydrogen industry - including representatives of companies involved with the recently funded Hydrogen Hubs.

Omnis acquired the Pleasants Power Station in West Virginial on August 1, 2023. The plant will be converted from a coal-fired operation to a net-zero emissions, hydrogen-burning facility using OmniGen's proprietary Quantum Reformation Process.

The company expects the conversion to "Quantum Hydrogen" to take 18-24 months and estimates that the retrofitted plant will produce 1.3 gigawatts of clean energy once it is operating at full capacity.

The Quantum Reformation Process converts coal, oil, or natural gas into clean-burning hydrogen fuel used for energy production and manufactures high-grade graphite, a strategically critical material used in the production of batteries, nuclear reactors, and other electric and industrial

applications. In the coming years, this list is expected to expand substantially into new markets - construction, nuclear, and energy transmission to name a few - spurred by research and development efforts targeting and making use of commercially viable, novel graphite applications. At present, China accounts for approximately 80% of global graphite production.

Omnis' proprietary technology uses an ultra-high-temperature flash pyrolysis system that breaks down any hydrocarbon feedstock into hydrogen and high-grade graphite without releasing greenhouse gases. The hydrogen is then used for onsite, clean-energy generation, while the graphite byproduct can be sold for use in a variety of industries, including steel, concrete, electronics, and energy.

"This is the only process that doesn't need subsidies to viably produce Hydrogen and high-value graphite," according to Saleri. "There is a surging interest in this breakthrough technology both domestically and beyond our borders." Saleri added, "This plant ushers in a new dawn for net-zero energy. Fueled by the nation's rich hydrocarbon resources, we can now use the Omnis technology to unleash energy production in innovative and more environmentally friendly ways."

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