

# Protium Provides Insight into Hydrogen Exploration Strategy

Vancouver, British Columbia--(Newsfile Corp. - November 19, 2024) - Protium Clean Energy Corp. (CSE: GRUV) (FSE: G071) ("**Protium**" or the "**Company**"), a Canadian mineral exploration company focused on exploration and development, is pleased to provide investors with insight into the developing hydrogen exploration strategy.

Geologic or White Hydrogen offers a clean, renewable, and potentially abundant source of energy with a range of environmental and economic benefits. Its carbon-free nature, high energy density, and compatibility with existing infrastructure make it a promising solution for meeting future energy needs and achieving global climate goals.

As outlined in our press release dated [October 16, 2024 announcing that the Company was to Commence Satellite Imaging and Remote Sensing as Part of Its Hydrogen Exploration Strategy](#), we continue to develop areas of interest in Ontario, BC, and Alberta. We look forward to updating the shareholders as new developments arise, in particular defining and acquiring promising new claims.

"As the industry continues to develop it is our belief that the current path of leveraging technology to define targets will prove to be the right strategy," says the CEO Marc Branson

In general, the Ideal rock formations where hydrogen can either be generated naturally or stored in subsurface reservoirs, include:

1. **Crystalline Basement Rocks:** These rocks, which include older, often metamorphic or igneous rocks, are considered important for hydrogen production. In particular, mafic and ultramafic rocks within the basement can undergo serpentinization, a process that generates hydrogen.
2. **Granites (Weakly Radioactive Rocks):** Granitic rocks, which are weakly radioactive, can facilitate the radiolysis of water, leading to the production of hydrogen. This occurs when water interacts with these rocks in the presence of radiation.
3. **Sedimentary Rocks (Shales):** Shales, as sedimentary rocks, can produce hydrogen through the decomposition of organic matter. This can happen through burial (increasing pressure and temperature) or contact metamorphism.
4. **Mafic and Ultramafic Rocks:** Specifically, mafic and ultramafic rocks, when they undergo serpentinization, are significant sources for hydrogen. This hydrothermal alteration process involves the interaction of these rocks with water to produce hydrogen gas. [Séjourné, Stephan; Comeau, Félix-Antoine and Malo, Michel \(2023\)](#).

The Company is currently reviewing available data and formulating an exploration plan with further details to be provided in due course.

On Behalf of the Board of Directors,  
"Marc Branson"  
CEO and Director  
Email: [investors@protium.ca](mailto:investors@protium.ca)  
Website: [protium.ca](http://protium.ca)  
Phone: 604-816-2555

## Forward-Looking Information and Cautionary Statements

*Certain information in this news release constitutes forward-looking statements under applicable securities laws. Any statements that are contained in this news release that are not statements of historical fact may be deemed to be forward-looking statements. Forward-looking statements are often identified by terms such as "may", "should", "anticipate", "expect", "potential", "believe", "intend" or*

*the negative of these terms and similar expressions. Forward-looking statements in this news release include statements relating to: continued exploration program at the Company's properties and assumptions regarding the Claims.*

*Forward-looking information in this press release are based on certain assumptions and expected future events, namely: the Company's ability to continue exploration program for its properties and assumptions regarding the Claims.*

*These statements involve known and unknown risks, uncertainties and other factors, which may cause actual results, performance or achievements to differ materially from those expressed or implied by such statements, including but not limited to the Company's inability to continue exploration program for its properties and incorrect assumptions regarding the Claims.*

*Forward-looking statements contained in this press release are expressly qualified by this cautionary statement and reflect the Company's expectations as of the date hereof and are subject to change thereafter. The Company undertakes no obligation to update or revise any forward-looking statements, whether as a result of new information, estimates or opinions, future events or results or otherwise or to explain any material difference between subsequent actual events and such forward-looking information, except as required by applicable law. Additional information identifying risks and uncertainties that could affect financial results is contained in the Company's filings with Canadian securities regulators, which are available at [www.sedarplus.ca](http://www.sedarplus.ca).*



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