

QIMC Expands Temiscamingue Natural Hydrogen Corridor, Strengthening Its Geology-to-AI Off-Grid Energy Strategy

Montreal, Quebec--(Newsfile Corp. - December 18, 2025) - **Québec Innovative Materials Corp. (CSE: QIMC) (OTCQB: QIMCF) (FSE: 7FJ) ("QIMC" or the "Company")** is pleased to report new high-grade soil-gas hydrogen anomalies from four additional sampling lines completed west of its previously disclosed work within the Temiscamingue, Ontario natural hydrogen corridor. The new data, from the fall 2025 sampling campaign, materially expands the defined footprint of the hydrogen system from 11km to 15km and further validates QIMC's proprietary fault-controlled natural hydrogen exploration, and development model. These results also support QIMC's strategy of developing scalable, fault-controlled natural hydrogen systems capable of supporting future low-emission, off-grid energy applications.

Recent commercial developments in the natural hydrogen sector, including emerging hydrogen off-take frameworks tied to energy-intensive computing infrastructure, underscore the growing demand for reliable off-grid low-emission hydrogen supply. These market signals highlight the relevance of scalable, naturally sourced, off-grid hydrogen systems and reinforce the strategic value of district-scale hydrogen corridors capable of supporting future distributed energy applications.

Soil-Gas Survey Anomalies Confirm District-Scale Hydrogen System Expansion

A total of 647 soil-gas samples were collected across four new westward lines (L20W, L21W, L22W, and L24W). Results include a peak hydrogen concentration of 2,843 ppm on Line L24W, along with two newly defined hydrogen hotspot zones on Lines L20W and L21W. Across these two lines alone, 247 samples returned hydrogen values up to 1,849 ppm, including 12 samples exceeding 1,000 ppm and 45 samples above 500 ppm, indicating a robust, laterally continuous hydrogen anomaly over multiple kilometres.

"What we are demonstrating at Temiscamingue is not just continuity of hydrogen anomalies, but the emergence of a district-scale energy system," said John Karagiannidis, CEO of QIMC. **"The scale, consistency, and predictability we're seeing support our long-term vision of natural hydrogen as a foundational energy source-one that can ultimately enable new forms off-grid infrastructure, including data-driven and AI-enabled systems."**

Importantly, gas composition analyses continue to confirm the presence of high-purity, abiotic natural hydrogen, with no hydrogen contaminants detected. These results are being systematically integrated with QIMC's structural, geochemical, and hydrogeological datasets to advance winter exploration planning and drill-target definition.

District-Scale Platform Supporting QIMC's Geology-to-AI and Off-Grid Energy Strategy

The Company notes that the district-scale extent of the Temiscamingue natural hydrogen corridor is well suited to QIMC's integrated geology-to-AI and off-grid energy strategy. The demonstrated lateral continuity of hydrogen anomalies, repeatability of results, and structurally controlled system geometry provide a scalable geological framework conducive to long-term monitoring, data integration, and progressive optimization using advanced analytics.

"The scale and operational predictability of this hydrogen system validate our assessment of localized, low-emission off-grid energy architectures, with demonstrated applicability to distributed infrastructure such as remote computing environments and AI data-processing facilities," notes John Karagiannidis.

In support of this approach, QIMC plans to establish a regional office on Temiskamingue First Nation territory.

Radon-Thoron Measurements and Ongoing Analysis

In accordance with QIMC's natural hydrogen geological model, radon and thoron measurements were also collected across portions of the Temiskamingue project area during the 2025 field program. These measurements are intended to complement soil-gas hydrogen data by providing additional insight into subsurface permeability, structural pathways, and active degassing processes. The results of this work are currently being analyzed and integrated with existing geochemical and structural datasets and will be reported in a subsequent disclosure, subject to review and interpretation.

Community Collaboration and Indigenous Partnership

The Company wishes to thank the Témiscamingue First Nation and surrounding Ontario communities for their continued collaboration and support. QIMC has recently formalized this relationship through a Memorandum of Understanding (MOU) with TFN, recognizing that the exploration area lies within TFN's traditional hunting and cultural territories.

The MOU establishes a framework for cooperative exploration and future development, emphasizing respect for traditional knowledge, environmental stewardship, local employment opportunities, and shared economic benefits. QIMC remains committed to ensuring Indigenous and local communities are active partners in the advancement of natural hydrogen exploration.

Next Steps - Winter Exploration Program

QIMC's upcoming Ontario-Québec winter exploration program will include:

- Continued data collection from eight existing monitoring and measurement wells in the St-Bruno-de-Guigues area
- High-resolution geophysical surveys to refine subsurface structural interpretation, complemented by radon-thoron measurements
- Preliminary drill-site selection in advance of a planned 2026 drilling program
- Full integration of Ontario datasets into QIMC's Ontario-Québec Hydrogen Corridor Model

About Québec Innovative Materials Corp. (QIMC)

Quebec Innovative Materials Corp. (CSE: QIMC) (OTCQB: QIMCF) (FSE: 7FJ) is a mineral exploration and development company dedicated to exploring and harnessing the potential of North America's abundant resources. With properties in Ontario, Quebec, Nova Scotia and Minnesota (US), QIMC is focused on specializing in the exploration of white (natural) hydrogen and high-grade silica deposits.

QIMC is committed to sustainable practices and innovation. With a focus on environmental stewardship and cutting-edge extraction technology, the Company aims to unlock the full potential of these materials to drive forward clean energy solutions to power the AI and carbon-neutral economy and contribute to a more sustainable future.

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