



**For immediate release**

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**MRT ANNOUNCES COMMISSIONING OF INDUSTRIAL DEMONSTRATION UNIT TO GENERATE LOW-COST, HIGH-PURITY HYDROGEN**

**More cost-effective and efficient than conventional natural gas reforming**

VANCOUVER, B.C. – Membrane Reactor Technologies Ltd. today announced the commissioning of an industrial-grade demonstration unit that uses a proprietary technology to generate low-cost, high-purity hydrogen more efficiently than conventional methods of natural gas reforming.

Based on a novel fluidized-bed membrane reactor, the process combines hydrocarbon reforming, shift conversion and hydrogen purification in one simple step. The demonstration unit was commissioned and will be operated at the National Research Council Institute of Canada Fuel Cell Centre in Vancouver.

MRT has completed the conceptual design of a Beta unit specifically aimed at the large and growing global industrial market for intermediate-scale hydrogen. The company intends to commence constructing beta-units in the coming months.

“We believe that our product line will offer compelling economic benefits over delivered liquid hydrogen and conventional methods of natural gas reforming,” said Michael Rushton, President and CEO of MRT.

The demonstration unit was designed by a joint team from MRT and NORAM Engineering using a fluidized reforming catalyst developed by Westaim Ambeon. NORAM is a Vancouver-based engineering and technology company which designs proprietary systems for the chemicals, metallurgical, and pulp and paper industries. Westaim Ambeon manufactures specialized composite powders for gas path seal systems in jet engines, electromagnetic shielding and catalyst applications.

“Our partners’ credibility and experience are of key importance to MRT achieving its objectives,” said Mr. Rushton.

Mr. Rushton was appointed President and CEO of the company in March this year. He is a professional engineer and spent more than twenty years with Chemetics, a Vancouver-based chemical engineering technology company. He has extensive experience in process engineering, sales and marketing, business development and executive management. In May, the Board of Directors was strengthened with the appointment Brian Josling who is previous President of Fuel Cells Canada and has years of experience with entrepreneurial, start-up companies.

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“We believe we now have a team with the experience and expertise to push our technology forward towards full commercialization,” said Dr. John Grace, a founder of the company and Chair of the MRT Board. “We are making rapid progress with identifying and engaging the market, advancing the technology, building partnerships and raising finance.”

In April, the company closed a \$3 million financing with ARC Financial Corporation, one of Canada’s leading energy investment firms. ARC, based in Calgary, Alberta, manages private equity investment funds – the ARC Energy Venture Funds – that are focused on high growth, early stage companies across the energy sector.

“The concurrent issues of heightened environmental sensitivity, long-term growth in energy demand, reliance on foreign hydrocarbons and the advance of emerging technologies will inevitably drive change and create attractive new energy investment opportunities” said Allan Fowler, Vice President of ARC and a director of MRT.

“MRT has a strong management team with expertise and skills to build a successful organization. It also has a clear, well-defined strategy to capitalize on its technology’s competitive advantages,” said Mr. Fowler.

MRT is a Vancouver-based private company focused on creating opportunities for customers and partners to use hydrogen more profitably. The company’s patented process combines the reforming of natural gas, shift conversion and the purification of hydrogen in one simple, cost-effective step. The system achieves higher yields of pure hydrogen than conventional reformers. The company and its partners are operating an industrial demonstration unit as a step to meeting the growing need for hydrogen in the intermediate-scale market and are rapidly moving towards commercializing MRT’s technology.

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