

PyroGenesis Canada Inc.

15:45 03 May 2019

PyroGenesis reports successful testing of its PUREVAP process to produce silicon metal

PyroGenesis Canada Inc (CVE:PYR) (OTCMKTS:PYRNF) reported Friday that new tests to validate material selection for the company's PUREVAP process proved successful under actual operating conditions.

Shares of PyroGenesis rose 2.8% on Friday afternoon to reach C\$0.73 in Canada and were up 1.4% at US\$0.54 on OTC markets.

READ: PyroGenesis obtains significantly higher silicon metal production yield in current phase of testing

Developed by PyroGenesis, PUREVAP is a proprietary process that uses a plasma arc within a vacuum furnace to produce high-purity metallurgical grade silicon and solar grade silicon from quartz for use in different applications, such as solar energy.

The PUREVAP process is harsh for materials because of the high temperatures involved and the presence of liquid metal, meaning that parts of the system in close proximity of these regions need to be lined with a compatible material to protect the reactor.

Under actual operational conditions, a pool of silicon metal was created inside the reactor and a tap hole was opened to drain the metal out of the reactor.

After the test was conducted, there was no silicon melt attack observed and no dissolution of the walls by the liquid metal.

READ: PyroGenesis is harnessing the power of plasma for high-tech manufacturing

In a statement, PyroGenesis's operating partner HPQ Silicon Resources Inc said that tests not only reduced the risk of the project but reached another milestone in the process to create a low-cost, environmentally friendly metallurgical approach to produce solar grade silicon metal.

Based in Montreal, PyroGenesis harnesses the unique properties of thermal plasma to melt and transform metal, carry out high temperature chemical reactions and convert waste into energy.

The company develops and produces innovative plasma torches, plasma waste processes, high-temperature metallurgical processes, and engineering services to the global marketplace. Its three major business lines are military/environmental, toll manufacturing and additive manufacturing.

Picture courtesy of HPQ Silicon Resources Inc

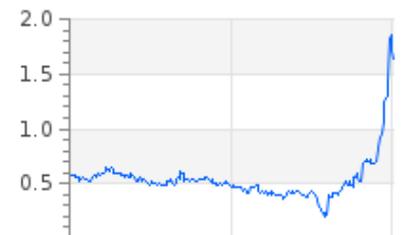
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Price: 1.62

Market Cap: \$226.67 m

1 Year Share Price Graph



June 2019 December 2019 June 2020

Share Information

Code: PYR

Listing: TSX-V

52 week **High** **Low**
2.02 0.19

Sector: Manufacturing & engineering

Website: www.pyrogenesis.com

Company Synopsis:

PyroGenesis Canada Inc. (TSX-V: PYR • OTCQB: PYRNF • FRA: 8PY), a high-tech company, is the world leader in the design, manufacture and commercialization of advanced plasma processes.

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