

NEWS >>>

PyroDelta Ready to Test Prototype Thermoelectric Generator for AI Data Centers

The device is designed to take waste heat from AI and crypto mining data centers and convert it into clean electricity.

Vancouver, BC, Canada, March 26, 2025 – First Tellurium Corp. (CSE: **FTEL**, OTC: **FSTTF**) reports that its majority-owned subsidiary PyroDelta Energy Inc. has developed a thermoelectric radiator that will take waste heat from AI and crypto mining data centers and convert it into clean electricity. The device is based on the design of PyroDelta’s automobile thermoelectric generator (reported [March 25th](#)), using the liquid that AI data centers use in their immersion cooling processes and passing it through a radiator tube. The temperature differential from the hot liquid generates electricity silently and consistently, with no moving parts.

A video that presents and explains the prototype can be viewed [here](#).

“AI data centers not only consume large amounts of energy,” said PyroDelta Chief Engineer Michael Abdelmaseh, “they also generate enormous amounts of heat. The industry is focused on ways it can use that heat to reduce power loads and also become more efficient.”

Following inquiries and discussions with a Canadian-based AI company, PyroDelta has completed a prototype that will be installed and tested at a data center facility. The additional electricity could be used to supplement the facility’s power requirements, saving money and energy.

Abdelmaseh noted that the tubular design of the radiator was developed to use hot liquid, as opposed to the rectangular design of PyroDelta’s original thermoelectric generator, which uses other forms of heat.

“We’re very excited about the potential for many new liquid-based applications,” said Abdelmaseh.

The AI data center industry is growing at an unprecedented pace, driven by the increasing demand for artificial intelligence, cloud computing, and big data processing. The recoverable waste heat from today’s AI data centers has been estimated at 1 TWh, equivalent to the heating requirements for 100,000 housing units. By 2030, given the increase in the number of data centers, the potential for recoverable waste heat could represent 3.5 TWh as data centers expand to meet increasing AI demands.

In a recent Fox News [interview](#) with American Energy Secretary Chris Wright, commentator Brett Baier asked Mr. Wright about the buildout of American data centers, and how this will increase energy demand by an estimated 15% by 2030.

“We must meet that demand (for AI data centers)...,” said Wright. “China is going all out on AI, and it has massive national security implications. We need to stay ahead in the AI space. And you’re right, it takes a lot of energy to power AI...the biggest challenge is going to be building the electrical grid and the electrical production infrastructure.”

Crypto mining facilities currently dwarf the energy use and heat generation of Artificial Intelligence. Bitcoin alone consumes around 178 terawatt-hours (TWh) annually. This amount is comparable to the energy usage of mid-sized countries like Argentina. Mining operations run 24/7, leading to continuous heat generation, which requires extensive cooling solutions such as immersion cooling to manage temperatures efficiently.

The PyroDelta AI thermoelectric generator would require little or no modification to work with crypto mining facilities, potentially opening a second large market for the device.

Docherty noted that, between the new tubular design and the original rectangular design, the market potential for the thermoelectric generator is expanding rapidly. “As a reminder, we have received inquiries from a wide range of industries including drones, emergency generators and greenhouses, amongst others. We believe these potential applications will continue to expand as the technology is refined and demonstrated.”

About First Tellurium Corp.

First Tellurium’s unique business model is to generate revenue and value through mineral discovery, project development, project generation and development of tellurium-based technologies.

First Tellurium is listed on the Canadian Stock Exchange under the symbol “FTEL” and on the OTC under the symbol “FSTTF”. Further information about FTEL and its projects can be found at www.firsttellurium.com.

On behalf of the board of directors of
First Tellurium Corp.

“Tyrone Docherty”

Tyrone Docherty
President and CEO

For further information please contact:

Tyrone Docherty
604.789.5653
tyrone@firsttellurium.com

X/Twitter:
<https://twitter.com/TelluriumCorp>

Neither the Canadian Securities Exchange nor its regulations services accept responsibility for the adequacy or accuracy of this release.

Forward-looking information

All statements included in this press release that address activities, events or developments that the Company expects, believes or anticipates will or may occur in the future are forward-looking statements. These forward-looking statements involve numerous assumptions made by the Company based on its experience, perception of historical trends, current conditions, expected future developments and other factors it believes are appropriate in the circumstances. In addition, these statements involve substantial known and unknown risks and uncertainties that contribute to the possibility that the predictions, forecasts, projections and other forward-looking statements will prove inaccurate, certain of which are beyond the Company’s control. Readers should not place undue reliance on forward-looking statements. Except as required by law, the Company does not intend to revise or update these forward-looking statements after the date hereof or revise them to reflect the occurrence of future unanticipated event.