

American Vanadium Announces First Cellcube (tm) Vanadium Flow Battery Installation In New York

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NYSERDA Partners for Commercial Demonstration of Energy Storage

at MTA Headquarters at 2 Broadway in Downtown Manhattan

[American Vanadium Corp.](#) ("American Vanadium" or the "Company") (TSX.V: AVC) (OTCQX: AVCVF) announces it will partner with the New York State Research and Development Authority (NYSERDA) to demonstrate the CellCube(TM) vanadium redox flow energy storage system. The Metropolitan Transportation Authority (MTA) and the New York City Transit (NYCT) Office of Strategic Innovation and Technology will host this demonstration at the MTA's Energy Star Certified facility at 2 Broadway in downtown Manhattan. ConEdison and the Advanced Research Technology Center (AERTC) at Stony Brook will also support this effort.

This demonstration is intended to augment existing successful facility energy management measures at the MTA's 1.6 million square foot office building. The CellCube(TM) batteries will complement an automated demand response system developed for the building by Lawrence Berkley National Laboratory and previously funded by NYSERDA. The project will demonstrate how vanadium flow battery technology, capable of multi-hour and multi-megawatt energy storage, can enable NYC commercial buildings to be "smarter" about how and when they use energy, and provide resiliency in times of need.

"New York is clearly creating a leading energy storage marketplace and the knowledge gained from this demonstration will help realize gains in building and grid energy efficiency, save money for electric ratepayers and, importantly, add a new weapon to the arsenal of resiliency tools in the event of future grid outages," said Bill Radvak, President & CEO of [American Vanadium Corp.](#) "As we continue the development of the only vanadium mine in the United States to provide the critical source of vanadium electrolyte for these advanced battery systems, we are honored to be working on this groundbreaking energy storage installation with the MTA, one of the largest energy consumers in the United States."

The CellCube(TM) is a fully commercial energy storage system that has been sold and installed across Europe, Asia and Africa, with more than 60 systems currently in operation at customer sites worldwide. The CellCube(TM) system is modular and can serve loads from 10kW to multi-MWs and, as a flow battery, the system excels at providing multiple hours of energy for long-duration requirements.

Dr. William Acker, Executive Director of the New York Battery and Energy Storage Technology consortium (NY-BEST), stated, "New York State is actively pursuing commercially ready technologies that will help grow a clean energy economy and improve the reliability, efficiency and overall performance of our electric power delivery system. This project will demonstrate the important role energy storage can play in helping consumers save money, reduce peak load demands and provide the grid serving New York with stored energy during times of shortage or disruption."

American Vanadium is the Master Sales Agent in North America for the CellCube(TM) systems which are manufactured by Gildemeister. Additionally, American Vanadium controls the only vanadium deposit in the United States and, together with Gildemeister, they plan to establish CellCube(TM) sales and manufacturing capabilities in New York State.

About the New York State Energy Research and Development Authority

NYSERDA, a public benefit corporation, offers objective information and analysis, innovative programs, technical expertise, and funding to help New Yorkers increase energy efficiency, save money, use renewable energy, and reduce their reliance on fossil fuels. NYSERDA professionals work to protect our environment and create clean-energy jobs. NYSERDA has been developing partnerships to advance innovative energy solutions in New York since 1975. To learn more about NYSERDA's programs and funding opportunities, visit <http://nyserda.ny.gov> or follow us on [Twitter](#), [Facebook](#), [YouTube](#), [Instagram](#).

About the New York Battery and Energy Storage Technology Consortium (NY-BEST)

NY-BEST is a non-profit corporation established in 2010 with support from the New York State Energy Research and Development Authority (NYSERDA) to position New York State as a global leader in energy storage technology. An industry-led consortium with more than 130 members, NY-BEST's mission is to catalyze and grow the energy storage industry and establish New York State as a global leader in the energy storage industry. Visit NY-BEST on the web at www.ny-best.org.

About American Vanadium Corp.

American Vanadium is an integrated energy storage company that markets and sells GILDEMEISTER'S CellCube(TM) vanadium redox flow batteries in North America. American Vanadium is developing the only vanadium mine in the United States, providing a critical source of North American-sourced vanadium electrolyte for CellCube(TM) energy storage systems. The Company's Gibellini Vanadium Project, located in Nevada, is being designed to economically produce vanadium electrolyte for the energy storage industry, as well as vanadium products for the steel and alloying industries.

ON BEHALF OF THE BOARD

Bill Radvak, President and CEO

For further information, please contact: Dan Schieber, Director, Corporate Finance
(604) 681-8588 X 106
dschieber@americanvanadium.com

www.americanvanadium.com

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