



*Vanadian
Energy* 
Corporation
VEC

Exploring for Canadian Vanadium

October 2018

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- Marc Simpson, President and CEO, a Qualified Person as defined by National Instrument 43-101, has approved the scientific and technical information regarding Vanadian Energy Corp. discussed in this presentation.**



Management and Directors

- **Clive Johnson** – Chairman / Director – President and CEO, B2Gold
- **Marc Simpson** – President and CEO
- **Tom Garagan** – Director – Senior VP Exploration, B2Gold
- **Jessica Van Den Akker** – CFO – VP Corporate Finance, Fiore Management & Advisory Corp.
- **Gordon Keep** – Director - CEO, Fiore Management & Advisory Corp.
- **Mark Corra** – Director – Former Senior VP Finance and CFO, B2Gold
- **Jay Sujir** – Director – Partner, Farris Vaughan Wills & Murphy LLP

Why is Vanadium Important?

Current Market

- >90% is used in steel production for added strength and lower weight
 - **Increasing demand due to changes in China construction regulations**
 - **New Chinese steel rebar regulations to improve steel standards and quality, in effect October 2018.**
 - **China now requires higher tensile strength rebar with greater earthquake resistance**
 - **Steel producers need to significantly increase vanadium content in rebar**
- Pipelines utilize high V content Steel
- Automotive frames (V-Fe and V-Al alloys) – lighter weight
- Aerospace (V-Ti and V-Al alloys)
 - airframes, jet engines
- Catalysts – Petrochemical Industry
- Glass, ceramics and pigments
- Main producers: China, South Africa, Russia, Brazil
 - Decreased Chinese production due to environmental concerns and economic reasons
 - **No current North American production**
 - **Current World consumption ~80,000t/yr** (Source: USGS Report 2015)

New Uses, New Markets

Vanadium Redox Batteries

- Vanadium Redox-flow batteries – Large scale electricity storage
- **SIGNIFICANT MARKET GROWTH POTENTIAL** – Vanadium Battery Industry is in it's infancy
 - Large scale installations existing or being built in China (200MW), US (1-100MW), Australia (1-5MW)
 - Benchmark Market Intelligence believes up to 25% of the energy storage market is up for grabs in 2028 if vanadium's supply chain challenges be solved
 - Benchmark forecasts that the overall energy storage market will then be between 100GW to 120GW in size by 2028. (Source: Benchmark Minerals Blog, September 2018)

**Modular V₂O₅ Redox flow battery installation
Washington State**



Early Stages of a Developing Story

“If a vanadium battery producer steps forward with bold plans to produce vanadium flow at mass scale, giving the industry its Elon Musk for lithium ion moment, the potential for the technology to be the second most deployed Energy Storage System battery in the world is there.”

(Simon Moores, Benchmark Market Intelligence 2018 Investors Forum)

Direct coverage from the Benchmark World Tour 2018 – H2 2018

STOCKHEAD



Vanadium could have its 'Elon Musk' moment as it powers 25pc of 'stationary' batteries

October 19, 2018 | [Reuben Adams](#)

INSIDE EVs
Tesla Lands Lithium Supply Deal With Chinese Giant

Elon Musk, boss of electric car maker Tesla, PwC Getty

Vanadium could have its "Elon Musk moment" as it advances towards powering 25 per cent of stationary battery storage by 2028.

Australian Mining

Home News Features Oil & Gas Mine Map Events Resources Magazine

Vanadium joins world's largest battery tech tour for first time

April 20, 2018 News Ewan Hesse

Australian vanadium is to join Benchmark Mineral Intelligence's Benchmark World Tour 2018, the first company to do so.

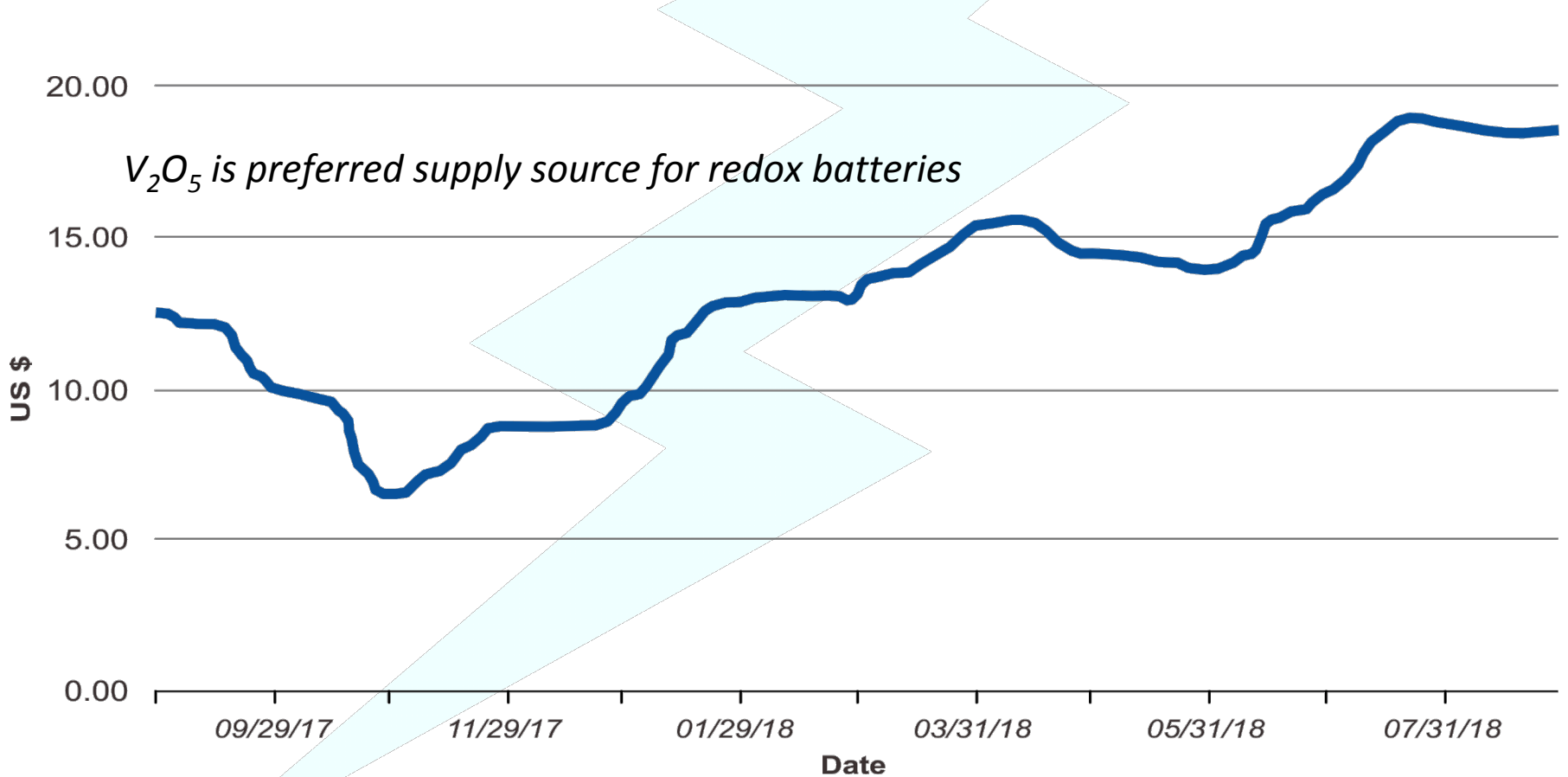
Vanadium managing director Vincent Herring on the occasion, said that "Elon Musk moment" [was] coming.



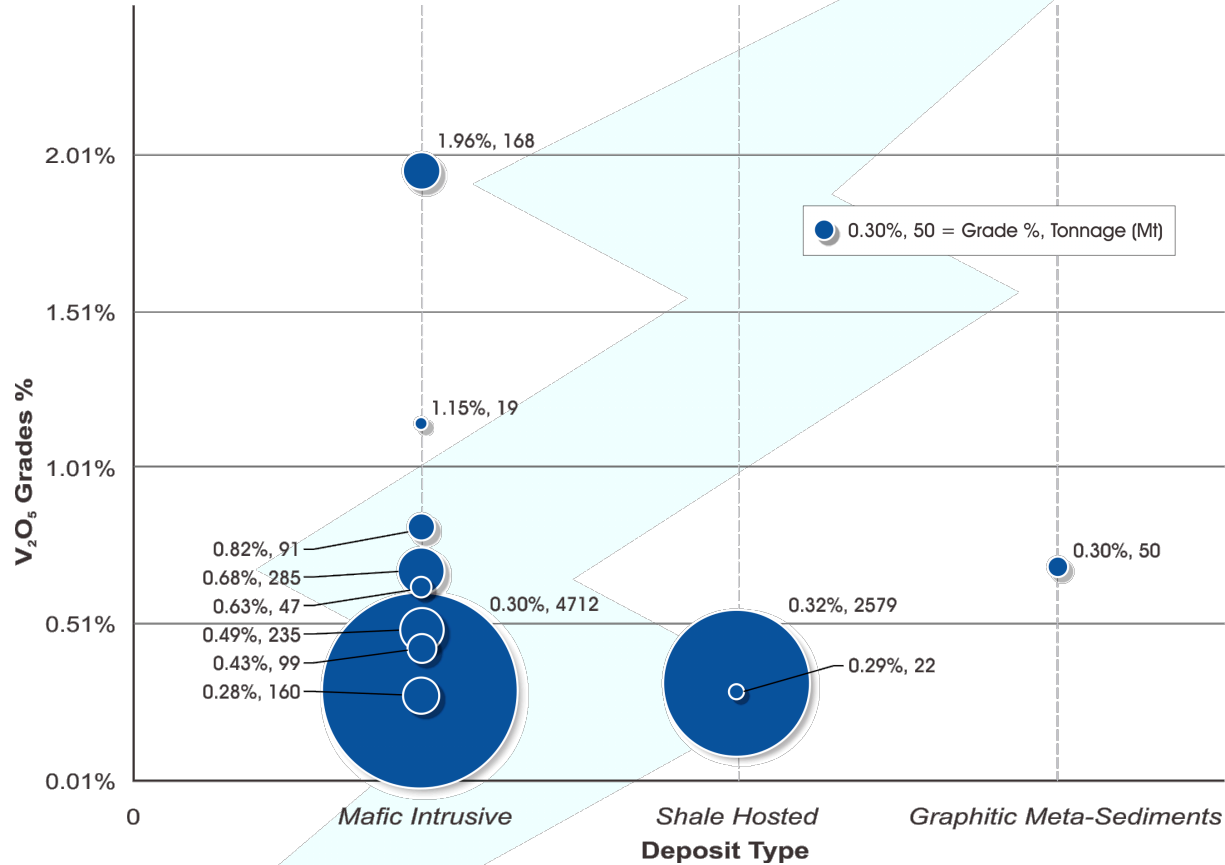


Vanadium Pricing (V_2O_5)

V_2O_5 Price (September 2018) – US\$18.80/lb



Vanadium Deposit Size vs. Grade



- **4 major Vanadium producers (plus lesser byproduct from slag and oil production)**
 - Most advanced projects range from 0.2% to 0.75% V₂O₅
 - Majority of projects are intrusive hosted with Fe and Ti association
 - Shale hosted deposits are often larger and comparable grade to intrusive hosted
 - Graphitic metasedimentary hosted V deposits are **rare and underexplored**

Huzyk Creek Property



- Huzyk Creek Property= 447 Km²
- 75Km SE of Snow Lake Manitoba
 - Mining community with experienced work force and mining suppliers
 - Provincial Highway crosses property
 - Power line crosses property
 - Railway approximately 10Km north of property
 - Active industrial (gravel, forestry) operations in area
- Mining Friendly Jurisdiction

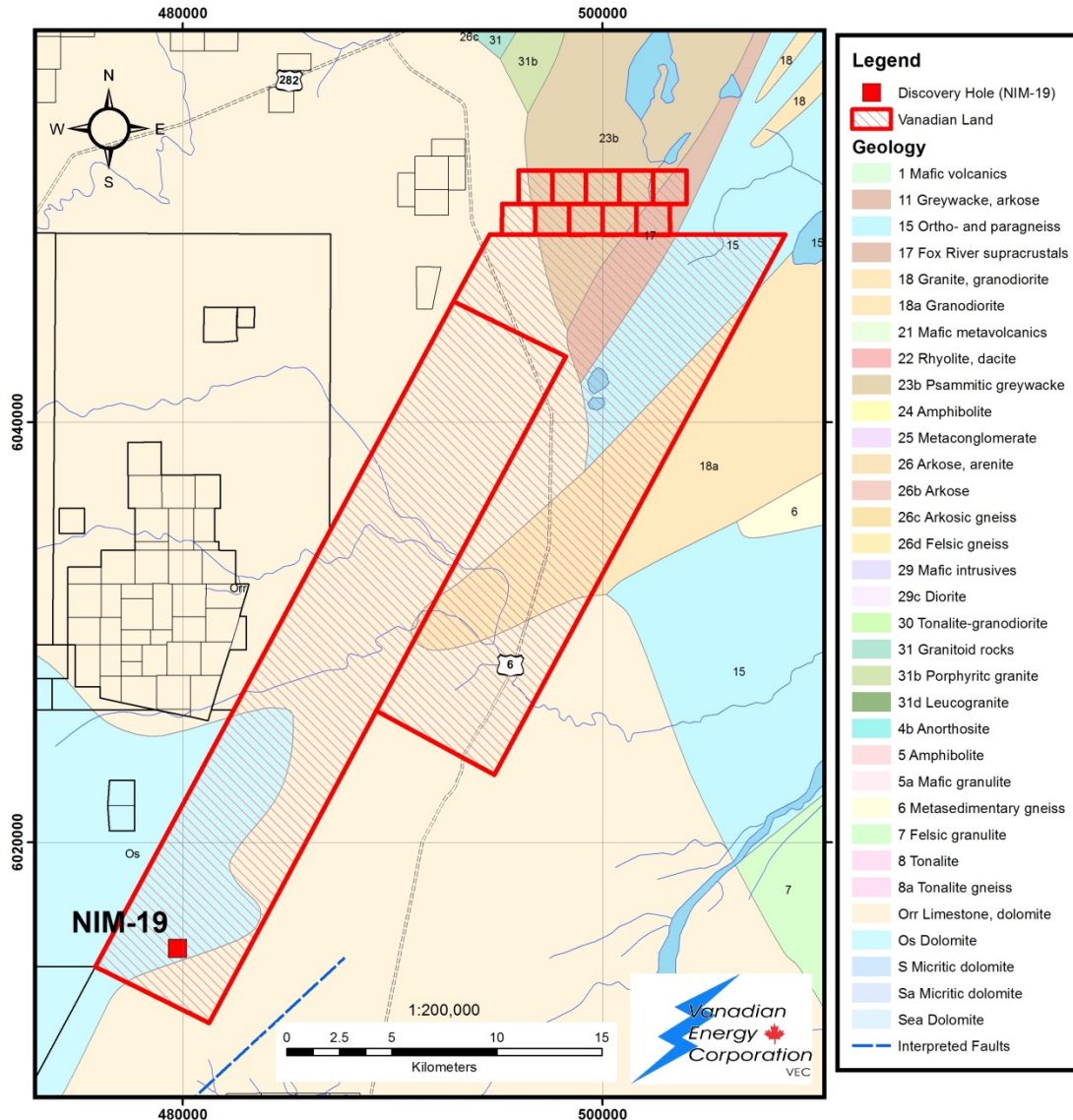
Huzyk Creek Highlights

- Broad Vanadium zone encountered in a single drill hole (1997) testing for Ni-Cu Mineralization.
- Geophysical anomaly initially explained as graphite and sulphides, assayed for Ni, Cu and Zn, widely spaced geochemical sampling with anomalous V noted but not followed up.
- Drill hole resampled by property vendor; assay results define **68 metres of 0.14% V₂O₅** from 162-234 metres downhole; highest grade intercept was **0.60% V₂O₅ over 0.6 metres**
- **Open in all directions including downhole**
- Manitoba assessment files indicates that other historic drill holes within the property area encountered anomalous vanadium in drilling up to 0.2% V₂O₅; defined by very limited, widely spaced sampling.

Mineralization

- Mineralization appears related to graphite and sulphide bearing meta-sediments with low titanium and moderate iron content.
- Green Giant deposit in Madagascar is the best known deposit of this type. Indicated Resource: 49.5Mt @ 0.693% V_2O_5 = 756.3M lbs V_2O_5 *
- First confirmed occurrence of vanadium in metamorphosed sediments (argillite) in Manitoba.
- Historic exploration focus on Ni-Cu-Zn mineralization only
- Vanadium mineralization coincident with a ground EM conductor >1.5 km long; Open along strike. Associated Airborne Geophysical anomaly >20km long based on historic assessment file data

Geology



- Metamorphosed Sediments with graphite and sulphides
- Strong geophysical signature associated with graphite rich zones
- Strong targeting vectors for Vanadium mineralization
- Excellent geological database in Manitoba



2018/2019 Proposed Exploration

2018 Exploration Budget

Airborne EM/Resistivity Survey (Fall 2018)	\$250,000
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2019 Exploration Budget

Diamond Drilling	\$750,000
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Share Structure (October 3 2018)

Share Capitalization (Post Consolidation)

Issued Common Shares	26,486,150
Stock Options	<u>2,436,250</u>
Fully Diluted	28,922,400

For Further Information

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