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Investment Highlights

- Rapidly growing energy storage industry is being driven by large increase in demand to integrate renewable energy into the power grid
- CellCube is the leading worldwide supplier of Vanadium Redox Flow Batteries (VFBs), the preferred battery for large scale stationary energy storage
- Recognized world leading technology developer (130 projects realized, 10+ years operation)
- 12 month sales pipeline currently exceeds \$100 million
- EnerCube & PowerHaz acquisitions provide immediate revenue and cash flow
- Announced spin-out of high quality vanadium assets into new publicly traded company while maintaining a 19.9% interest and certain off-take rights
- Proven leadership team
- Significantly undervalued







The CellCube Opportunity

Energy Storage Systems (ESS) are a Game Changer for Modern Grids



Integrated Storage

Systems

Proprietary and Confidential

Corporate Structure - CellCube Energy Storage Systems Inc. Integrating the Best in Class



Enerox GmbH, Austria -

Design, Manufacturing, Distribution of the integrated CellCube ESS

EnerCube Switchgear Systems Inc., Canada –

V23 Resource Corp., Canada –

Design, Manufacturing, Distribution of Switchgear and Drive Equipment

Mining and highest grade of Production for Vanadium and Vanadium Electrolyte



CellCube: Setting the Standard of Vanadium Flow Batteries The Enerox History





Global Leader in Vanadium Flow Batteries



CellCube is a global leader in the development of integrated Energy Storage Systems based on its Vanadium Redox Flow Battery (VFB) Technology

Unlike other Flow Battery Manufacturers, CellCube provides:

- Unparalleled integration along the supply chain
- One of the longest standing, continuous history in flow battery development
- Largest fleet of installed flow battery storage systems globally (130 Installations)
- > Most experienced in large-scale containerized flow battery systems
- > Only manufacturer offering 4,6, and 8 hour storage capacities
- > Innovative CapEx deferral methods to accelerate project roll-outs





Product & Services

Vanadium Redox Flow - ESS







Advantages of Flow Battery Technology

- ✓ Lowest LCOS (Levelized Cost Of Storage) in long duration energy storage systems
- Product outliving renewable energy generation/matching conventional power generation assets 30+ years
- ✓ 100% usable energy capacity w/o product life impact
- ✓ No capacity degradation 25-30% life time return advantage
- ✓ No cycling dependency (>20,000 cycles)
- ✓ No recycling necessary -> Re-use over many deployments
- ✓ Intrinsically safe, non-flammable, non-explosive

Turnkey Solutions

- ✓ VFB containerized storage system
- ✓ Combined switchgear MV block
- AC power ready
- ✓ Onboard auxiliaries and control system
- ✓ Control communication interfaces
- Life cycle and remote monitoring



Next Generation Vanadium Flow Battery





Cycle Life

Non-degradable, indefinite deep discharge cycling







New Features

- Increased Peak Power +25%
- Improved efficiency at rated power +5%
- **Optimized energy capacity at** • rated power (true 4h)
- **Reduced system cost -30%**



CellCube Target Markets

	Grid Scale	Microgrid ⁽¹⁾	Off-grid		
Applications	 Peaking Capacity Renewable Firming Curtailment avoidance Time of Use and load shifting Ancillary Services T&D investment deferral 	 Fossile fuel reduction Diesel/CHP backup avoidance Grid Stability Balancing Time shifting Renewable energy integration 	 Diesel/CHP fuel economy Diesel/CHP O&M cost reduction Enable high levels of Energy supply from renewable energy 	Load levelling Time shifting T&D investment deferral Peak Capacity	
Customers	 Utilities Independent Power Producers Transmission system operators Distribution system operators 	 Grid operators IPPs Generation Asset owners Distributed system operators 	 Utilities Independent power producers Distribution system operators 	DER / Microgrid	ewable energy
Geographies	 NAFTA Europe MENA APAC 	NAFTAEuropeAPACMEA	 NAFTA Europe APAC Africa 	Peak	shaving
Benefits	Providing Peak Capacity Ensuring grid stability while increasing share of renewable energy	Demand charge reduction and optimized renewable energy consumption	Increasing share of renewable energy while reducing total cost of ownership and fuel dependency	Renewable energy integration Fossil fuel equipment substitution	m

- ⁽¹⁾ Microgrid is a group of interconnected loads and distributed energy resources that can connect
- ⁽²⁾ Commercial power suppliers are typically companies with integrated renewable energy generation capacity feeding electricity into the grid.



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Strong and Diversified Customer Base





Current Installations Worldwide



Experience

- A decade of project deliveries
- Over 130 systems installed
- Products running since 2008
- >10,000 cycles achieved in field deployment
- Combined >2 million operational hours
- 16 storage applications realized (grid to off-grid)
- German engineered with combined >100 years development expertise
- Daily Monitored





Power:

Energy:

Sold (130 Systems)

4.3 MW

20.1 MWh

CellCube Competitive Positioning

VFB Competition

Ranking of Strategy and Execution capabilities (Navigant)



https://www.navigantresearch.com/research/navigant-research-leaderboard-non-lithium-ion-batteries-for-grid-storage

Source: Navigant Research

CellCube's positioning vs. main VFB competitors



Source: Company information, CellCube management assumptions



Management & Directors

CellCube Energy Storage Systems Inc.



Mike Neylan – CEO, Director

- 20+ years experience financial, legal and international corporate
- Private Equity Portfolio Manager with Sprott Inc., \$11B+ AUM, \$300MM+ investments in renewable power sectors
- Experience includes COO of Aquilon Power Corp., General Counsel at Just Energy and Group Counsel-Europe at RBC Capital Markets in London, UK
- BA Economics (U. Western Ontario), LL.B. (Queen's University)



Stefan Schauss – President, Director

- 20 years experience in sales and business development (US, EMEA, APAC)
- Strong experience in high-tech startup operations
- A decade of experience in energy storage systems
- MSc. Physics (U. Mainz, Germany)



Chris Hopkins – CFO, Director

- 30 years of Canadian and international energy and mining experience
- Director of several public companies
- C.P.A., MDA



Brian Ricker – President & CEO (EnerCube)

- 30 years experience in the electrical industry
- Formerly with Eaton Corporation
- Multi-national power management experience



Alexander Schoenfeldt – COO (Enerox)

- 20 years energy sector Experience
- Proven track record ramping startups like Younicos, Locamation, Anyline
- Specialized in structuring high technology and innovative business segments

(Siemens/Younicos



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Proprietary and Confidential

Creating Shareholder Value

3 Year Business Projection

- Containerized large scale energy storage systems
- 377MW contracted projects
- Ramp to 4GWh annual manufacturing capacity
- Regional assembly plants in Europe and North America
- > 20+ years in operations & maintenance income stream
- Innovative electrolyte lease programm with 20+ year income stream





3 Year Financial Projection

- CDN \$550 million revenue from Equipment Sales
- CDN \$75 million revenue from Electrolyte Lease Contracts
- CDN \$2.5 billion Life Time Contracts (Electrolyte Lease)



Financial Projection*

* Prepared by CellCube Management

Enerox (\$CAD 000s)	2018	2019	2020	2021	EnerCube Revenue	2018	2019	2020	2021
Revenue Equipment	3,695	37,752	78,090	166,296	Revenue				
Life Cycle Services	-	2,265	5,629	12,874	Enerox	3 695	48 909	102 770	226 265
Lease Income	-	8,892	19,050	47,095	EnerCube & PowerHaz	16,419	36,500	54.000	80.000
Total	3,695	48,909	102,770	226,265	Total Revenue	20.113	85,409	156,770	306.265
EBITDA	(3,511)	11,991	27,523	76,171		20,110	00,100	200,770	000,200
EBITDA %	-	25%	27%	34%					

EnerCube & PowerHaz (\$CAD 000s)	2018	2019	2020	2021	EnerCube EBITDA	2018	2019	2020	2021
Revenue Core business	14,231	26,000	37,000	50,000	Enerox	(3,511)	11,991	27,523	76,171
Enerox - Battery	-	4,500	9,000	20,000	EnerCube & PowerHaz	3,336	7,083	13,174	19,738
PowerHaz	2,188	6,000	8,000	10,000	Corporate	(800)	(1,000)	(1,000)	(1,000)
Total	16,419	36,500	54,000	80,000	Total EBITDA	(975)	18,074	39,697	94,910
EBITDA	3,336	7,083	13,174	19,738					
EBITDA %	20%	19%	24%	25%					









■ EnerCube & PowerHaz ■ Enerox ■ Consolidated



Capital Structure

CellCube Energy Storag	ge Systems Inc.	
Stock Symbol CSE (CUBE) OTCQB (CECBF) Frankfurt (01X)		
Recent Price:	\$0.19	
Market Capitalization:	\$26 million	
Avg Daily Volume: Share Structure:	756,000	
Common Shares	138,017,953	
Warrants	51,379,222	
Convertible Debenture	7,483,333	
Options	5,440,000	
Fully Diluted	202,320,508	







Celcube

CellCube Energy Storage Systems Inc.

65 Queen St West, Suite 520 Toronto, Ont. M5H 2M5, Canada 1-800-882-3213 info@cellcubeenergystorage.com

CSE: CUBE 12g3-2(b): 82-2062 OTCQB: CECBF Frankfurt: 01X www.cellcubeenergystorage.com

Appendix

Acronyms

APAC	= Asia Pacific	LCC
BoS	= <u>B</u> alance of <u>S</u> ystem	LCC
ВоР	= <u>B</u> alance of <u>P</u> lant	Li
BTM	= Behind-the-meter (grid edge)	MV
СНР	= Combined Heat and Power	MV
C&I	= Commercial & Industrial	0&
CESS	= CellCube Energy Storage System	RE
IPP	= Independent Power Producer	VFE
EMEA	= Europe, Middle East, Africa	VFF
EPC	= Engineering, Procurement, Construction	

ESS = Energy Storage System

COS	= Levelized Cost of Stored energy
COE	= Levelized Cost of Energy
i	= Lithium Ion (battery)
ЛW	= Unit of electrical power, 1000 kW
/Wh	= Unit of electrical energy, 1000 kWh
0&M	= Operation and Maintenance
RE	= Renewable Energy
/FB	= Vanadium Flow Battery
/FRB	= Vanadium Redox Flow Battery



CellCube Growth Projection

Market Share



Mkt Segment (MW)	2019	2020	2021
Behind-The-Meter	3,400	4,900	6,700
Grid Scale	6,400	8,100	10,200
Total Market	9,800	13,000	16,900
Projection CellCube 2018 (MW)	22	54	123
Projected Mkt Share CellCube	0.2%	0.4%	0.7%

1% Mkt share equals 267MW in 2023

Sales Pipeline

42 large projects (Aug 18)



Total Projects in Pipeline	Forecast Contract Value (M USD)
Americas	395
EMEA	457
APAC	28
Total Pipeline approx. (absolute)	880
Total Pipeline (weighted)	135



Energy Storage Demand

What Do the Analysts Say?

Bloomberg New Energy Finance





Source: Bloomberg New Energy Finance

Note: System-level refers to projects that provide system services independent of where they are connected to the grid.

Bloomberg New Energy Finance

- Grid-Scale ESS markets will grow in excess of 300GWh until 2030
- Total Deployed Market Average Storage Duration of 4 hours

GreenTech Media

- Peaking Capacity Plants will be replaced by Battery Energy Storage from 2020 onwards
- Lithium Batteries might not be competitive to replace peaking capacity

NREL (National Renewable Energy Labs, US)

- Significant peaking capacity now over 40 years old. Over the next 20 years, we would expect about 152 GW of peaking capacity to retire
- U.S. peak capacity plants are aging, and future retirements will provide opportunities for substantial battery storage to enter this market

Trends Take away

- ✓ 1h duration energy capacity => avg. 4h duration capacity market by 2030
- ✓ Grid scale markets for energy storage convert to energy centric (capacity market) applications from 2019 onwards.
- ✓ Early movers will capture the high end of the merit order of power contracts
- ✓ Market demand for longer bridging periods (i.e. 4h => 8h) requires better solutions than Li batteries



Energy Storage Market

Future Grid Services Need Energy-Centric ESS

Paradigm Shift 2020

- Applications for Storage change to an energy capacity focus
- Energy Storage System Deployments evolve from <1h to 4h+
- Main Driver Renewable Energy power generation deployments
 on electrical grids



Leading ESS Applications vs RE Penetration

ESS Markets

- Price competitiveness favors VFB as the long duration ESS choice
- Li dominance over the past years is being questioned as evidence of short comings (degradation, product life) surface
- Market turning to new applications requiring new technology

Comparison of Best Fit Battery Technologies





Enerox Energy Storage Systems - Bankability

Achieved Certifications and IP

Bankability Study (Germanic Lloyd, DNV-GL 2016)

Third Party Assessment of Enerox (Gildemeister Energy Storage GmbH) By Germanic Lloyd							
The overall conclusion fr ensure the good quality	The overall conclusion from this exercise is that GESt is a mature organisation with the right processes in place that ensure the good quality of the CellCube products leaving the factory.						
Topic Description	DNV GL findings	Overall judgment					
Quality System Documentation	DNV GL found a good Quality System and Documentation in place at GESt, with clear quality responsibility and authority, and operational procedures and instructions.	۲					
Human Resources	DNV GL found a mature Human Resources function in place, in which development of employees is at the core, with focus on training and personnel competence development.	۲					
Internal Support functions	The internal support functions at GESt are well organized and cover HR, Office Management (including salary handling, majority of this activity is outsourced), Commercial Administration, and Quality Management.	۲					
Capability & Contracts	The internal sales support department has procedures, processes and routines in place to ensure that commercial contracts are checked, and that GESt has the capabilities to fulfil a client's needs. If a client wishes to deviate from the GESt terms & conditions, corporate legal is involved.	۲					
Design and Development	DNV GL has reviewed the design documentation, and found these to be comprehensive, internally consistent regarding functional and technical requirements. See also chapter 5, for a more detailed assessment.	۲					
Purchasing & Subcontracting	DNV GL found that procedures and records are in place to assess and select qualified suppliers. Supplied products and services are verified to specified requirements. Formally approved exemptions are documented.	۲					
Production Process Control	DNV GL found the project execution and documentation in line with company procedures, and linked to quality control. The interfaces with other departments are clear and well documented. Over time, changes in execution were implemented in improved project support documentation.	۲					





EnerCube and PowerHaz

Enabling Seamless Integration of Energy Assets

- EnerCube is one of Western Canada's largest independently owned switchgear manufacturers providing custom and turnkey solutions
- EnerCube provides innovative and high quality custom products such as arc-resistant and metal-clad switchgear, motor control centres, and inverters to heavy power users, pipelines, refineries, manufacturers, municipalities, and infrastructure providers
- PowerHaz designs temporary and mobile power products that are used on industrial and construction sites for shutdowns, turnarounds, and large-scale construction demolition
- Both EnerCube and PowerHaz provide complementary products and services for Enerox



Braggawatt Financial Services

Enabling Financing of Energy Assets

- CDN \$2.5 million investment (10%) in Braggawatt Energy Inc.
- Braggawatt provides financing through an online platform that allows corporations and not-for-profit organizations to effectively adopt cost-saving onsite energy solutions
- CellCube and Braggawatt now working together to develop unique finance products for Enerox's energy storage solutions
- Will accelerate Enerox global roll-out
- See <u>www.braggawatt.com</u>

Vanadium Resources

Bisoni McKay & Bisoni - Rio Vanadium Properties

- CellCube recently announced its intention to spin out its vanadium assets into a new publicly traded company while maintaining a 19.9% interest and certain off-take rights
- CellCube Energy Storage Systems has a total of 4,115 acres of vanadium claims in northeastern Nevada in its Bisoni McKay and Bisoni-Rio properties
- Contains significant vanadium carbonaceous resources that allow for high level of vanadium electrolyte purity. The resource is known as a "pure play" as the vanadium is contained in a carbonaceous shale rather than with other minerals which most often is the case
- NI 43-101 (2016) Indicated Resources estimated at 11,879,590 tons at an average grade of 0.39% V₂O₅ and Inferred Resources estimated at 7,048,056 tons at an average grade of 0.42% V₂O₅
- Supergene enrichment zone of up to 35 feet width identified immediately below Redox zone, revealing anomalous grade surges of 50% to 150%
- Continuity of mineralization confirmed in past exploration drilling campaigns. Less than 10% of the properties have been explored
- Close to surface; examining modern open pit extraction methods
- Recently announced research results indicate potential vanadium recovery rates in excess of 90% Proprietary and Confidential

Vanadium Electrolyte Development

Vanadium pentoxide V₂O₅

■ 35-50% of the cost of a vanadium redox flow battery is the vanadium electrolyte

Pacific Northwest National Laboratories ("PNNL") is the premier leader in advanced vanadium electrolyte research

CellCube has access to PNNL's patented vanadium electrolyte formulas for use in vanadium redox flow batteries

Production of vanadium and vanadium electrolyte is being advanced with research contracts with Hazen Research Inc. and University of Calgary

