



HYBRID POWER SOLUTIONS

CSE: HPSS

CLEAN ENERGY,
MADE BETTER.

**CORPORATE
PRESENTATION**



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EXECUTIVE SUMMARY

Hybrid Power Solutions is North America's leading provider of fuel-free, portable power solutions, delivering clean, renewable energy to consumers and businesses.

As the only direct-to-consumer, vertically integrated cleantech battery brand, we design, develop, and manufacture all products in our state-of-the-art facility in Etobicoke, ON.

With a \$2M investment in expansion capital, Hybrid aims to capture a 5% share of the \$2B North American portable power market, scaling to a \$100M/year business by leveraging our innovative technology and direct-to-consumer model to meet the growing demand for sustainable energy solutions.



From left to right: Batt Pack Pro, Batt Pack Jupiter, Batt Pack Spark, Batt Pack Energy, TERRA

The Problem



Inefficiency

Frequent generator maintenance, long setup times.



Safety Risks

Fumes endanger workers.



Inflexibility

Lacks multi-source charging and real-time energy optimization.



High Costs

Significant fuel, upkeep expenses.



Environmental Harm

High CO₂ emissions, regulatory issues.

Solution

HPS offers a line of fuel-free and hybrid generators (Batt Pack series: Pro, Jupiter, Spark, Energy, TERRA) that provide best-in-class performance, ranging from 3,000W for small tools to 150,000W for industrial sites. Key features include:

The Solution

HPS fuel-free,
hybrid generators
(3,000W–150,000W)



Efficient & Safe

Fast plug-and-play,
no fumes.



Cost-Effective

Major savings on
fuel, maintenance.



Sustainable

Cuts emissions, fuel
use.



Scalable

Customizable, real-time
monitoring.

Total Addressable Market



Portable Power Solutions



Batt Pack Energy



Batt Pack Pro



Batt Pack Jupiter



Spark Cube



TERRA**

Power	3,000W	5,000W	7,000W	12kW	24kW	24kW	150,000VA
Surge Power	6,000W	10,000W	12,000W (1sec)	24kW	48kW	48kW	250,000VA
Energy Capacity	2.5kWh	5.1kWh	7.2kWh	20kWh	30kWh	60kWh	153.6kWh
Operating Temperature	-30°C to 50°C [-22°F to 122°F]		-20°C to 45°C [-4°F to 113°F]	-30°C to 50°C [-22°F to 122°F]		-40°C to 65°C [-40°F to 149°F]	
Cycles	+3,500 Cycles			+6,000 Cycles			
Solar Input Power	1,600W	5,500W	800W	18,000W		Customizable	
Charging Capabilities							

CASE STUDY

Washroom Trailer Project, Niagara ON

The Challenge

Major canadian construction company needed reliable off-grid power without the high cost and emissions of diesel generators.

The Solution

Hybrid Solar Configuration:

Battery Storage: Batt Pack Spark (24kW)

Backup Generator: 25kW

Solar: 1,800W (Temporarily Deployed)

Operational Results

108K lbs of CO2 Reduced Annually

50.2L Fuel Saved Per Day

83% Reduction in Generator Runtime

Hybrid Solar Configuration



Financial Results

70% 5-Year Cost Reduction

6 Month Payback

\$71,095 Annual Savings

Flexible charging capability

No fumes or fue

Silent Operation

No maintenance required

Remote monitoring

In-house technical support

Engineered & built in North America

Business Model



HPS operates a direct-to-consumer, vertically integrated business model, designing, manufacturing, and selling its products from its Etobicoke facility. Revenue streams include:

Product Sales

High-margin branded generators (e.g., Spark Cube priced at \$57,900-\$109,900) targeting industrial, commercial, public sector, and recreational segments.

Custom Solutions

Tailored power systems for specific client needs (e.g., tower cranes, off-grid sites).

Distribution Partnerships

47 partnerships to expand market reach across North America.

Competitive Advantage



competitive advantage:

Patent-Pending Technology

High-margin branded generators (e.g., Spark Cube priced at \$57,900–\$109,900) targeting industrial, commercial, public sector, and recreational segments.

Vertical Integration

Full control over design, manufacturing, and sales, enabling rapid innovation and cost efficiency.

Market Leadership

Only direct-to-consumer cleantech battery brand, serving top-tier clients like Glencore, Canadian Armed Forces, and Toronto Transit Commission.

Proven Performance

Case studies show 58–78% cost and fuel reductions, 13x longer lifespan, and compliance with strict regulations (e.g., California).

High Barriers to Entry

Years of expertise and established customer trust create significant competitive moats.

Sustainability Focus

Aligns with global demand for clean energy, reducing emissions and operational costs.

Go to market strategy

HPS employs a multi-channel go-to-market strategy



Direct Sales

Targeting industrial (construction, mining, rail), public sector (municipalities, military), commercial (net-metered, emergency backup), and recreational (RV, camping) segments.

Distribution Network

47 partnerships to expand reach across North America, ensuring broad market penetration.

Strategic Partnerships

Collaborations with top-tier clients (e.g., EllisDon, SoCalGas) to secure large-scale contracts and build credibility.

Marketing and Branding

Focus on high-margin, branded products with demonstrated ROI (e.g., 9-month payback for EllisDon), leveraging case studies and sustainability credentials.

Trade Shows and Industry Events

Showcasing products like Batt Pack Spark at construction and energy expos.

Digital Presence

Online platforms and technical sales support to engage direct consumers and B2B clients. Recent milestones (e.g., \$350K SoCalGas order, \$1M+ purchase orders in Q1 2025) demonstrate strong market traction.

Competition

HPS competes in the generator market with products like Spark Cube (12–24kW, 20–60kWh) compared to:

CRITERIA	ENERGY BOSS 25	VOLSTACK 30K
POWER (kVA)	23	27
ENERGY (kWh)	15	84
PRICE	\$105,000	\$150,000
DELIVERY	2027	unknown
WATER RESISTANT	YES	NO
NOTES	Lacks wind/hybrid charging and remote monitoring.	Higher price, no wind charging.



Price and Value

Spark Cube (\$57,900–\$109,900) offers superior energy capacity and charging options at lower cost.



Features

Solar, wind, hybrid, and grid charging, plus remote monitoring, unmatched by competitors.



Delivery

2025 delivery vs. 2027 or unknown for competitors.



Manufacturing

Canadian-made with safe battery chemistry and maintenance-free design.



Lifespan

13x longer runtime than traditional generators (SoCalGas). HPS is poised to lead in the \$5.11B–\$70.17B market (2025–2037) with its innovative, cost-effective tech.

BENEFITS

In the Field



End User Partners



Management



FRANCOIS BYRNE

FOUNDER, CEO & DIRECTOR

While racing hybrid cars in university, Francois saw the broader potential of battery tech. After completing his engineering degree and MBA, he founded Hybrid Power Solutions to deliver fuel-free energy to untapped markets. Focused on sustainability and innovation, HPS offers plug-and-play battery systems that replace gas generators across industries. As solar demand grew, he expanded into scalable residential solutions. His mission is to build a company that drives innovation and delivers clean, practical power.



MUNEER YOOSUF

CFO

With over 20 years of experience in accounting and financial management, Muneer Yoosuf has led teams, scaled startups, and managed assets worth over \$7B. His expertise spans manufacturing, construction, defense, and trading. He has implemented ERP and costing systems, led M&A initiatives, and optimized financial strategies. With global experience, he drives efficiency and growth, leveraging financial, operational, and technological insights to deliver strategic direction across diverse business environments.



RAFAEL OLIVIERA

HEAD OF ENGINEERING

Dr. Rafael Oliveira has over 25 years of engineering experience and 13 years as a professor in Brazil and Canada. He holds a Ph.D. from Toronto Metropolitan University, specializing in power electronics. With expertise in converter topologies, renewable energy, and wireless charging, he has worked in academia, R&D, and industry, authoring numerous peer-reviewed papers and a book on modular multilevel converters.



BRUNO ANTIDORMI

DIRECTOR

Bruno Antidormi, recently retired from EllisDon Corporation, served as Toronto Area Manager (2002) and Senior VP (2004), overseeing GTA projects. With 35 years in construction, he specialized in Design-Build, Construction Management, and Lump Sum projects, particularly in healthcare. His leadership ensured successful, on-time, and within-budget project delivery. A University of Toronto graduate (1979), he chaired the Toronto Construction Association in 2005 and remains a highly respected construction professional.



PAUL GORMAN

DIRECTOR

Paul Gorman is a Toronto-based corporate specialist with 25+ years of experience in emerging growth companies, public listings, and asset evaluation. As President of Riverbank Capital Inc. for 18 years, he's raised over \$185M, developed marketing strategies, and driven business growth. He helped revitalize the graphite sector in 2008 through Northern Graphite and advised several other companies. In 2009, he founded Mega Graphite Inc. and has served as CEO for three other firms.



ALVIN KERSTING

DIRECTOR

Alvin Kersting is a seasoned C-suite executive with 25+ years of experience leading and advising private and public companies in advanced technology sectors. His expertise includes business strategy, M&A, and financial growth. He is a Senior Partner at Alliance Group Holdings, a board member at Eye Care Professionals, and an advisor to multiple firms. A former board member of AmCham Canada and the Ontario Aerospace Council, he also held Controlled Goods Program verification for DoD projects.



ANGELO CATENARO

DIRECTOR

After a 15-year pro hockey career in Europe, Angelo Catenaro founded Vecture Inc., growing it into a leading Canadian exporter of Lithium-Ion battery management systems with 100+ employees, all based in Concord, Ontario. In 2016, Vecture was acquired by German conglomerate Eberspaecher, a \$6B revenue company. Angelo continues to lead the business as President of the new entity, Eberspaecher-Vecture.

TEAM STATS:

TECHNICIANS & ASSEMBLY STAFF [6]

ENGINEERS [2]

SALES REPS [2]

PRODUCTION MANAGER [1]

TECHNICAL SALES [1]

GRAPHIC DESIGNER [1]

Milestones

\$5M

- Remote Monitoring
- Full carbon offset program
- Solid state battery testing
- Terra reshoring + Deployment
- Internal rental fleet

\$12M

- Euro Expansion
- 1-2 Megawatt/h systems
- AI Based system decision
- Deploy in High Volumes to Large Fleets

\$20M

- Solar/Wind trailer
- Spark V2
- Offer larger scale Bess for backup power and prime power
- Integrate solar into skin of Spark and Terra

\$30M - \$100M

- Expand Market Presence
- Enter Large-Scale Mining and Oil & Gas Pumping Projects

2025

2026

2027

2028

2029

2030



HYBRID POWER SOLUTIONS

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