



HILLCREST
energy technologies™

INVESTOR PRESENTATION

January 31, 2024

ENERGY SOLUTIONS POWERING THE FUTURE

Forward Looking Statement Notice

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This Presentation contains "forward-looking information" within the meaning of applicable Canadian securities laws. This information and these statements, referred to herein as "forward looking statements", are made as of the date of this Presentation or as of the date of the effective date of information described in this Presentation, as applicable. Forward-looking statements relate to future events or future performance and reflect current estimates, prediction, expectation or beliefs regarding future events and include, without limitation, statements with respect to: (i) the Company's ability to commercialize its products; (ii) the Company's ability to continue to develop new products; (iii) the ability of the Company to bring its products to the market and the speed with which it can do so; (iv) costs savings and other benefits of using the Company's products; (v) and the impact of the Company's products on the automotive supply chain.

Generally, forward-looking information can be identified by the use of forward-looking terminology such as "plans", "expects", or "does not expect", "is expected", "budget", "scheduled", "estimates", "projects", "targets", "forecasts", "intends", "anticipates", or "does not anticipate", or "believes" or variations (including negative and grammatical variations) of such words and phrases or state that certain actions, events or results "likely", "may", "could", "would", "might", or "will be taken", "occur", or "be achieved". Forward-looking information is based on opinions and estimates of management at the date the information is made, and is based on a number of assumptions and is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward looking information, including without limitation: (i) commodity prices; (ii) the willingness and ability of third parties to honor their contractual obligations; (iii) the decisions of third parties over which the Company has no control; (iv) environmental and government regulations; (v) availability of financing; (vi) judicial proceedings, (vii) force majeure events; (viii) risks associated



with the Company's ability to meet historic sales performances; (ix) the Company's ability to implement and fulfill its business strategies; (x) general economic conditions; (xi) adverse industry events; (xii) marketing costs; (xiii) loss of markets; (xiv) future legislative and regulatory developments; (xv) inability to access sufficient capital from internal and external sources, and/or inability to access sufficient capital on favourable terms; (xvi) income tax and regulatory matters; (xvii) the ability of the Company to implement its business strategies including expansion plans; (xviii) competition; and (xix) changes in regulation. The foregoing factors are not intended to be exhaustive.

Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance on forward-looking information contained in this Presentation or in certain of the other documents on file with Canadian securities regulatory authorities, which are available on the Company's SEDAR+ profile at sedarplus.ca. The Company and its directors, officers and employees each disclaim any obligation to update any forward-looking statements, whether as a result of new information, future events or results or otherwise, except as required by applicable law. Accordingly, readers should not place undue reliance on forward-looking statements due to the inherent uncertainty therein. All forward-looking information is expressly qualified in its entirety by this cautionary statement.

An investor should read this Presentation with the understanding that the Company's actual future results may be materially different from what is expected.

This Presentation does not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of the securities of the Company in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of such jurisdiction. The securities of the Company have not been and will not be registered under the United States Securities Act of 1933, as amended (the "**U.S. Securities Act**"), or any state securities laws and may not be offered or sold within the United States. Information concerning the assets and operations of the Company included in this Presentation has been prepared in accordance with Canadian standards and is not comparable in all respects to similar information for United States companies.

There is an offering document related to this offering that can be accessed under the Company's SEDAR+ profile at sedarplus.ca and the Company's website at <https://hillcrestenergy.tech/>. Prospective investors should read this offering document before making an investment decision.

No securities regulatory authority has expressed an opinion about these securities and it is an offence to claim otherwise. This offering may not be suitable for you and you should only invest in it if you are willing to risk the loss of your entire investment. In making this investment decision, you should seek the advice of a registered dealer.

Investment Highlights



THE FIRST TO MARKET WITH A REVOLUTIONARY INVERTER TECHNOLOGY PLATFORM

- Highly differentiated combination of **proprietary hardware and control firmware** offering next-generation power conversion capabilities
- **Adaptable to numerous, fast-growing market segments** such as e-mobility and grid-connected power generation and storage
- **Growing IP portfolio 100% owned by Hillcrest**



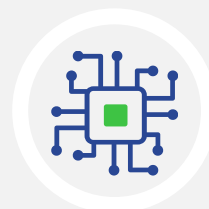
NEXT-GENERATION CAPABILITIES + US\$2,200 SAVINGS PER VEHICLE

- New levels of power density, efficiency, performance, and reliability
- **99.6% inverter efficiency** offers a significant advantage compared to conventional inverters on the market



SPEED TO MARKET

- Asset-light business model
- **Multiple co-development projects underway** offering clear pathway to commercialization
- **Ability to scale revenue quickly** with potential OEM partnerships



SIGNIFICANT TECHNOLOGY AND INDUSTRY EXPERIENCE

- Nearly **100 years of combined automotive sector experience**
- More than **50 years of combined grid-connect power system experience**
- More than 125 combined years of power electronics and power control experience

What is a Power Inverter?

Essential to Electrical Systems



An inverter is a power electronic device that converts direct current (DC) power to alternating current (AC) power

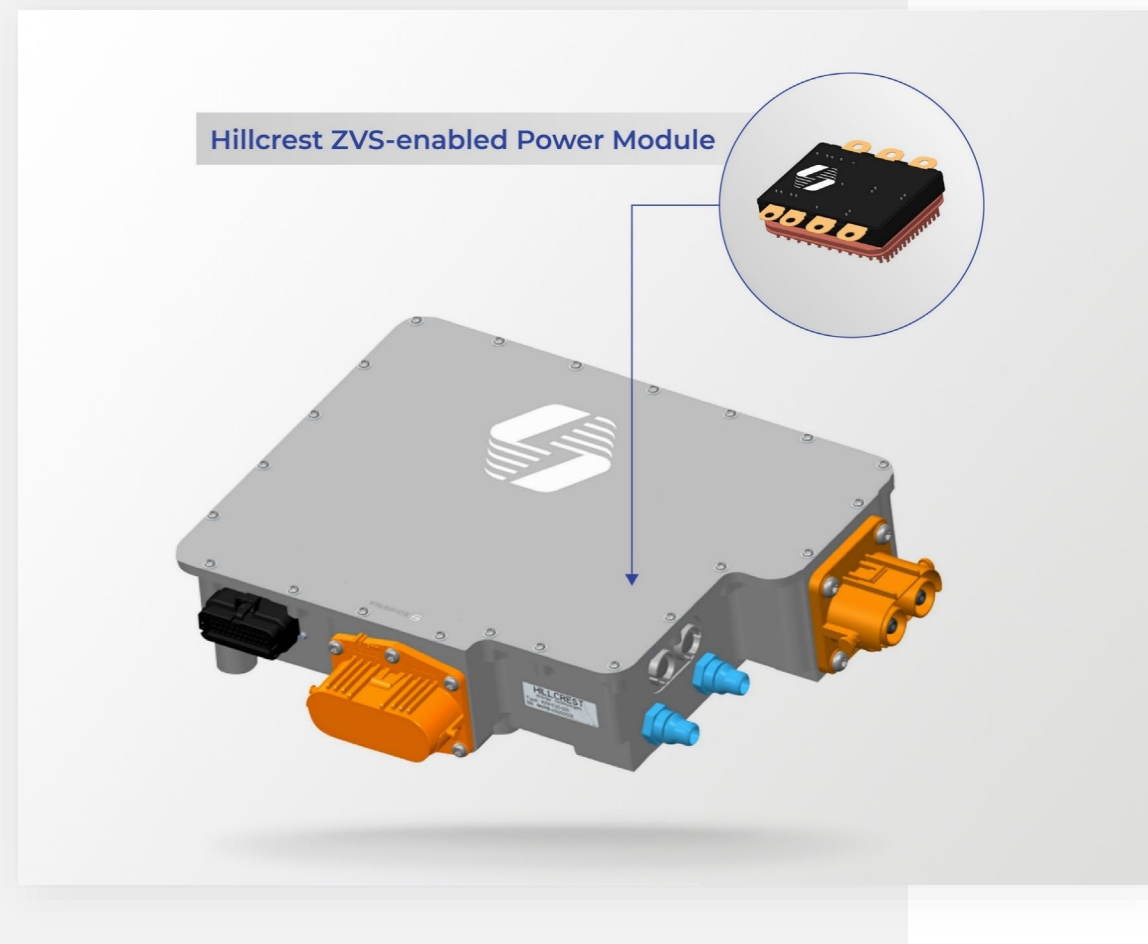


Source can be found [here](#)

Hillcrest EV Traction Inverter

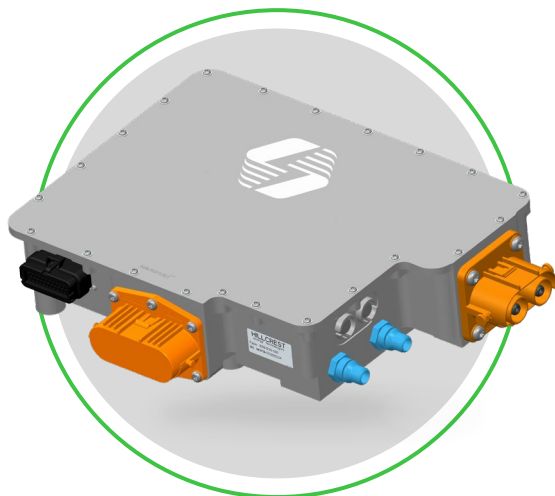
Nominal 350kW | 800V Silicon Carbide Inverter

- Most efficient inverter available (99.6%)
- ZVS technology eliminates switching losses
- Higher switching frequencies offer the potential to increase motor efficiency
- Proprietary combination of Hillcrest hardware and ZVS software can operate with virtually any motor
- Includes first-of-its kind ZVS-enabled power module



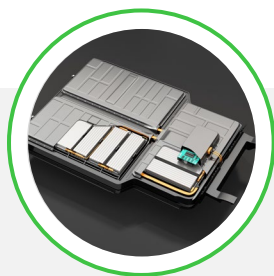
Benefits Across the Entire Powertrain System

EVs - First Application of Hillcrest ZVS Technology



POWER INVERTER

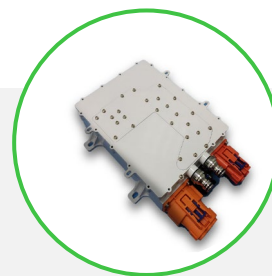
- Inverter efficiency of $\approx 99.6\%$
- Up to 50% reduction in size of DC-link capacitors
- Optimized use of semiconducting materials



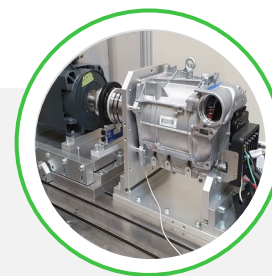
Traction Battery Pack*
Up to 15% reduction in size of battery pack



Charger
Expanded charging capabilities



Onboard Charger
Elimination of onboard charger



Traction Motor
Efficiency gains of up to 13% (partial load) can generate up to up to 26% improvement in range; enables new advancements in motor technologies

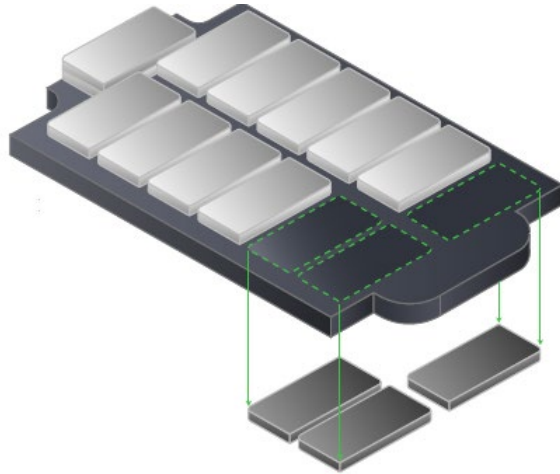


Emi Shielding
Reduction in EMI shielding/filters and improved system reliability

*Estimates based on battery pack size of 75 kWh, weight of 2,000 lbs. and cost of \$132/kWh

Supply Chain Impact

Hillcrest ZVS Traction Inverter



**UP TO US\$1,500
SAVINGS
in battery costs***

**UP TO 300 POUND
REDUCTION
in battery weight***

**UP to
15%***

- Fewer battery cells
- Reduction in complexity of battery system
- Reduction in end-of-life battery waste
- Reduction in critical EV Battery minerals needed per vehicle
- Reduction in upstream GHG emissions associated with supplying critical EV battery minerals

*Estimates based on battery pack size of 75 kWh, weight of 2,000 lbs. and cost of \$132/kWh



US\$2,200

Costs saving
per vehicle

Combined savings of
up to US\$1,500 in
battery pack savings*
plus up to \$700 in
other cost of materials
savings

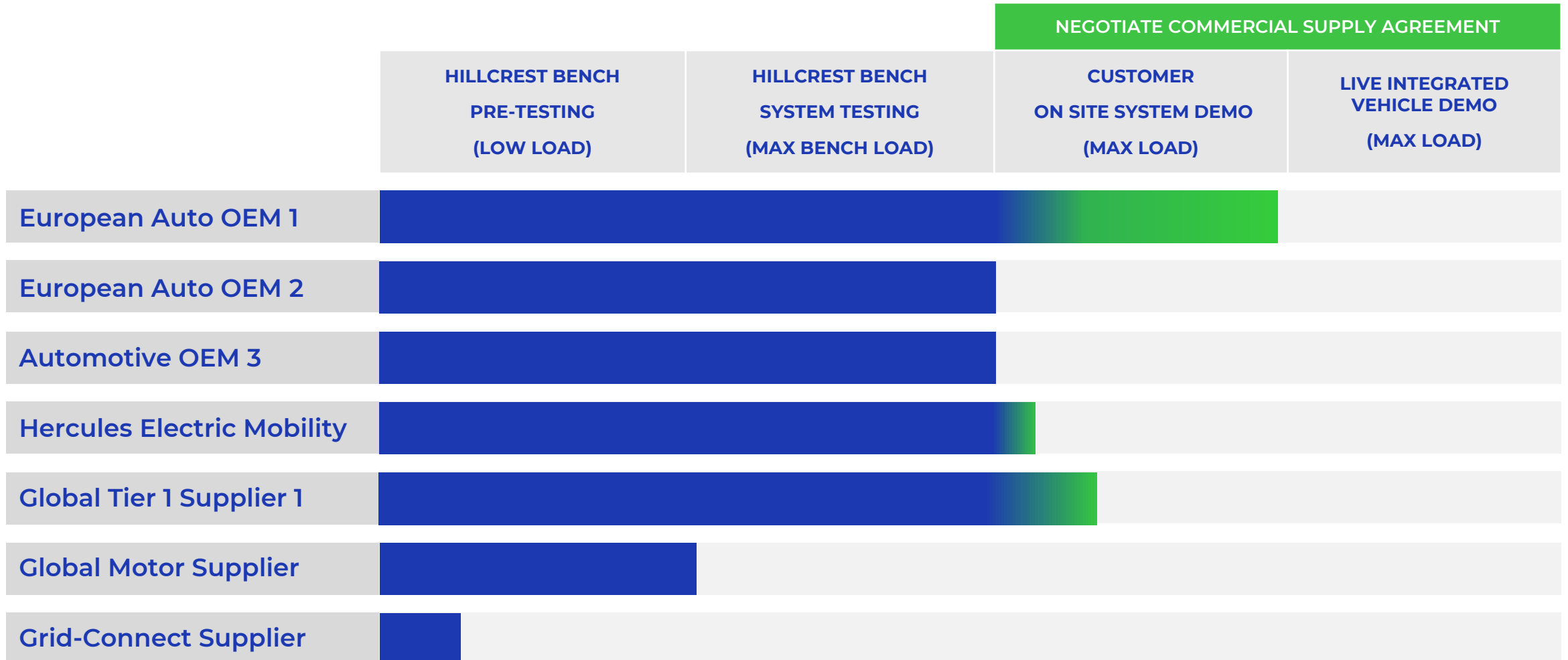


US\$220M

Costs saving for a **100,000-vehicle model run**

Commercialization Update

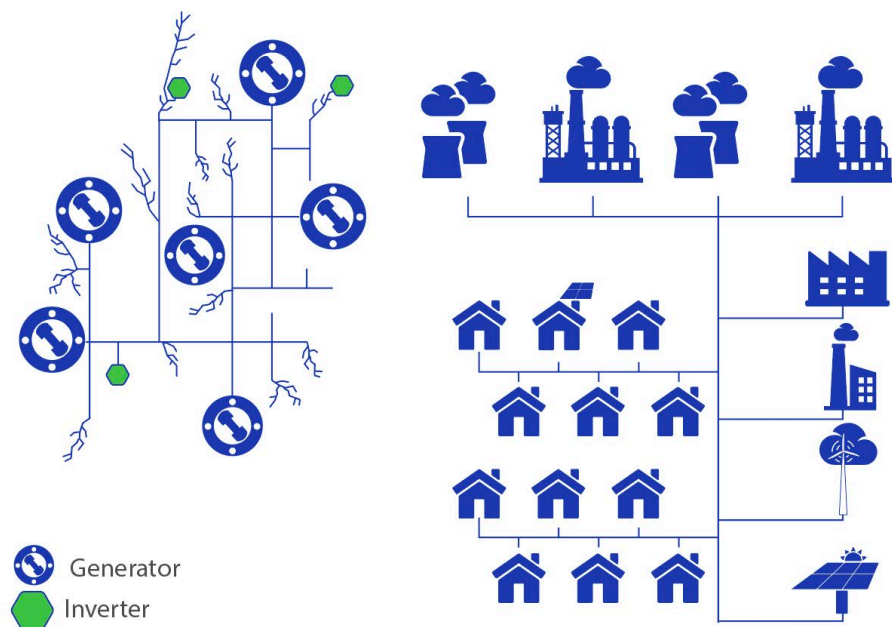
Updates on Current Commercial Engagements



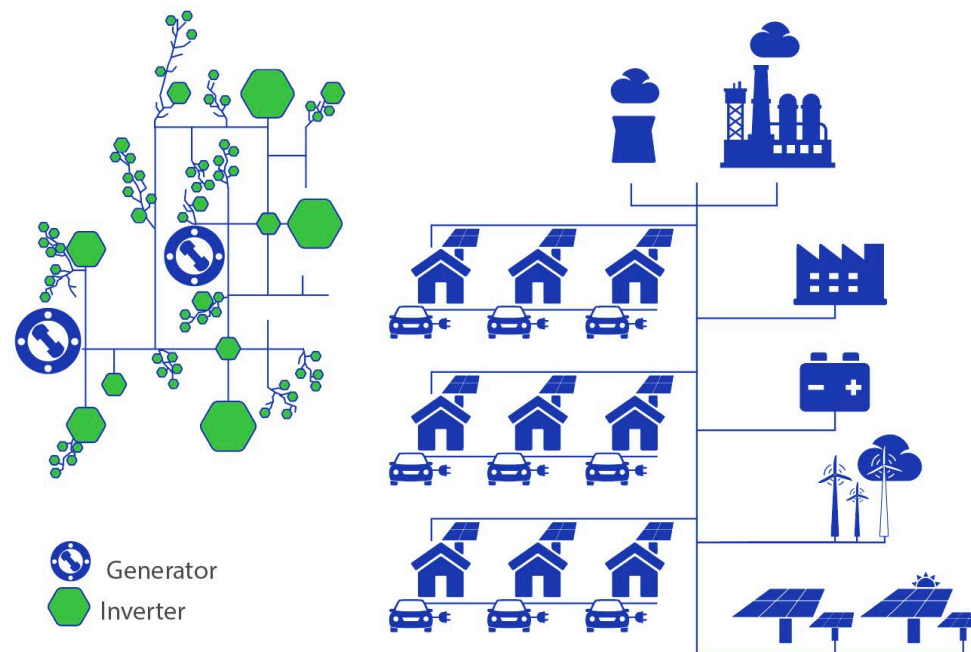
Hillcrest ZVS Inverter + Future Grid

Potential for Gigawatts of Annual Power Savings

PRESENT



FUTURE



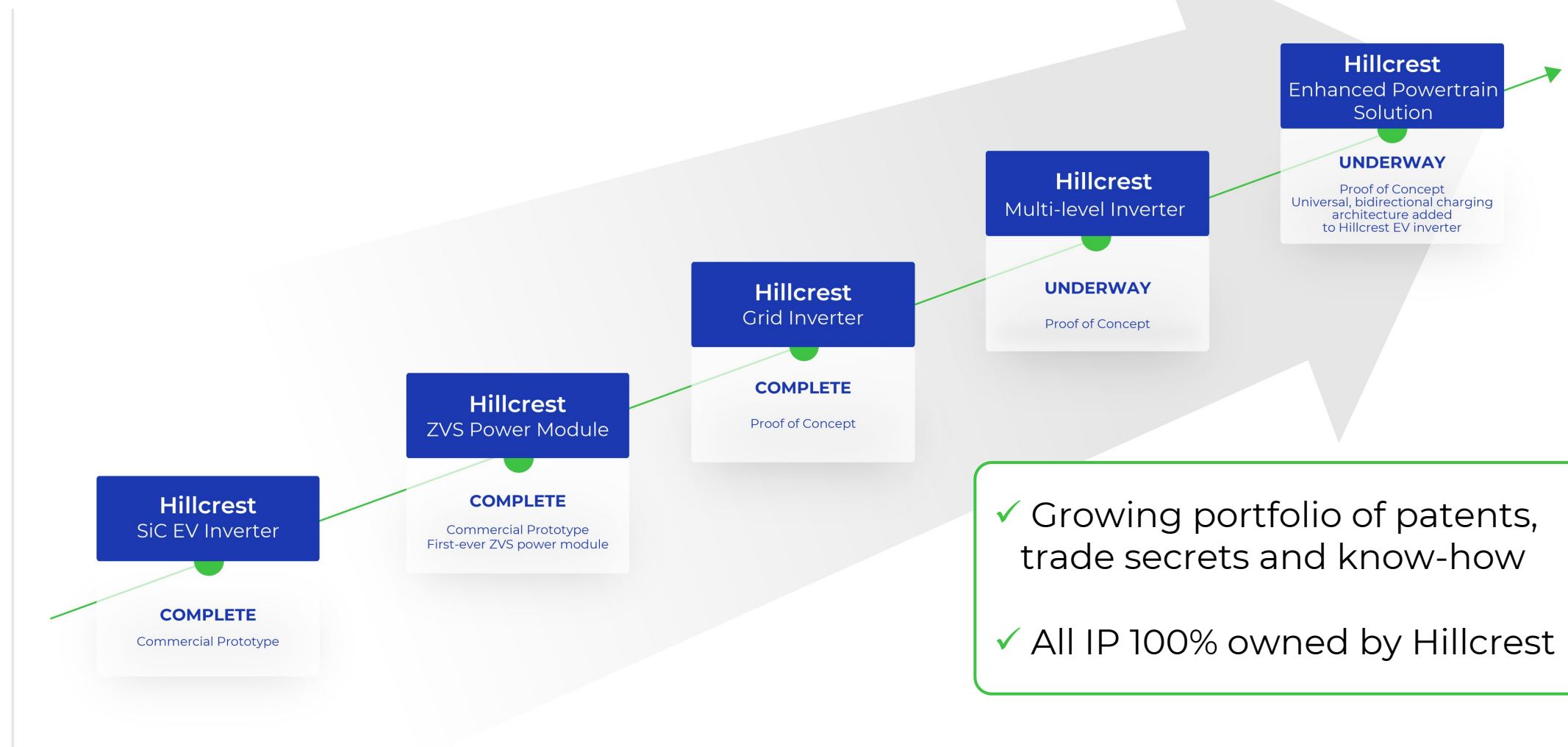
Higher Switching Frequencies + No Switching Losses = Greater Efficiency

- Reduction in demand for new power generation capacity
- Reduction in capital expenditures
- Consumer energy cost savings

Source: "Achieving a 100% Renewable Grid – Operating Electric Power Systems with Extremely High Levels of Variable Renewable Energy," <http://ieeexplore.ieee.org/document/7866938/>

Product Roadmap

One ZVS Technology Platform - 5 Product Deployments



Core Technical Team



ARI BERGER

Hillcrest Chief Technology Officer

Expert in electric machine control technologies, systems engineering and multi-disciplinary product design; more than 10 years of commercial experience with a track record of deploying new technologies and go-to-market strategies, specifically in the sector of electrification.



DR. JALAL AMINI

Hillcrest Senior Power Electronics Engineer

Senior power electronics engineer, possessing superior knowledge and experience in grid applications, power quality and renewable energies. He has designed and implemented a variety of power electronic devices including grid-connected devices such as a wind energy converter, active filters, fast chargers and energy storage systems, induction motor drives, and multilevel converters.



HARALD HENGSTENBERGER

Managing Director, Owner & Founder,
Systematec GmbH

Leader of the Systematec team and established electrical engineer with more than 25 years of experience designing, manufacturing, testing and validating hybrid and electric vehicle powertrains



JAMES HAMOND

Hillcrest Senior Technical Consultant

Having worked in the consumer, industrial and defense sectors, Mr. Hamond is a jack-of-all-trades, spanning hardware, embedded software, control and adaptive algorithms, register-transfer level (RTL), thermal management and mechanical design. He has worked with soft switching systems for over 15 years, most recently as CTO and co-founder of Pre-Switch Inc.

Advisors



DAN COKER
Hillcrest Strategic Advisor

Veteran automotive executive and pioneering entrepreneur possessing exceptional leadership capabilities and global network. During his 20+ years as president and CEO of Gentherm, Mr. Coker stewarded remarkable growth from inception to a \$1 billion enterprise that fundamentally altered automotive thermal management.



DR. HEINZ-GEORG BURGHOFF
Hillcrest Commercialization Consultant

Automotive business and product strategy expert in vehicle electronics. Dr. Burghoff spent over 20 years with DaimlerChrysler AG, where he held various management positions in passenger car development, heading up electric/electronic development as well as directing battery technology and strategy.

Capital Overview

As of January 31, 2024

Stock Listing	CSE: HEAT OTCQB: HLRTF FRA: 7HI
Basic Shares Outstanding	68.6M
Fully Diluted Shares Outstanding	88.1M
Warrants Outstanding (Average CAD\$1.68)	10.9M
Options Outstanding	3.7M
Restricted Stock Units	4.9M
Market Cap (January 31, 2023)	CAD\$18.2M
3-month Daily Average Trading Volume	70,226

Ownership

Insider Ownership	11%
New York Family Office	4.9%
German Advisor to the Company	5%
Close Business Associates	16%
Retail Investors	63.1%

Summary

100%

OWNED IP
PORTFOLIO

99.6%

~ PEAK INVERTER
EFFICIENCY



\$2,200

US DOLLARS SAVINGS
PER VEHICLE

7

CO-DEVELOPMENT
PROJECTS WITH EV AND
GRID-CONNECT POWER
SYSTEM PARTNERS

Disclaimer

Purchaser's Right of Rescission and Resale Restrictions

Statutory Rights of Action

In certain circumstances, purchasers resident in certain provinces of Canada, are provided with a remedy for rescission or damages, or both, in addition to any other right they may have at law, where a presentation and any amendment to it contains a misrepresentation. Where used herein, "misrepresentation" means an untrue statement of a material fact or an omission to state a material fact that is required to be stated or that is necessary to make any statement not misleading in light of the circumstances in which it was made. These remedies, or notice with respect to these remedies, must be exercised or delivered, as the case may be, by the purchaser within the time limits prescribed by applicable securities legislation.

The following summary is subject to the express provisions of the applicable securities laws, regulations and rules, and reference is made thereto for the complete text of such provisions. Such provisions may contain limitations and statutory defenses not described here on which the Company and other applicable parties may rely. Purchasers should refer to the applicable provisions of the securities legislation of their province for the particulars of these rights or consult with a legal adviser.

The following is a summary of rights of rescission or damages, or both, available to purchasers resident in the provinces of Ontario, New Brunswick, Nova Scotia and Saskatchewan. If there is a misrepresentation herein and you are a purchaser under securities legislation in Ontario, New Brunswick, Nova Scotia or Saskatchewan you have, without regard to whether you relied upon the misrepresentation, a statutory right of action for damages, or while still the owner of the securities, for rescission against the Company. This statutory right of action is subject to the following: (a) if you elect to exercise the right of action for rescission, you will have no right of action for damages against the Company; (b) except with respect to purchasers resident in Nova Scotia, no action shall be commenced to enforce a right of action for rescission after 180 days from the date of the transaction that gave rise to the cause of action; (c) no action shall be commenced to enforce a right of action for damages after the earlier of (i) 180 days (with respect to purchasers resident in Ontario) or one year (with respect to purchasers resident in Saskatchewan and New Brunswick) after you first had knowledge of the facts giving rise to the cause of action and (ii) three years (with respect to purchasers resident in Ontario) or six years (with respect to purchasers resident in Saskatchewan and New Brunswick) after the date of the transaction that gave rise to the cause of action; (d) with respect to purchasers resident in Nova Scotia, no action shall be commenced to enforce a right of action for rescission or damages after 120 days from the date on which payment for the securities was made by you; (e) the Company will not be liable if it proves that you purchased the securities with knowledge of the misrepresentation; (f) in the case of an action for damages, the Company will not be liable for all or any portion of the damages that it proves do not represent the depreciation in

value of the securities as a result of the misrepresentations; and (g) in no case will the amount recoverable in such action exceed the price at which the securities were sold to you. The foregoing is a summary only and is subject to the express provisions of the *Securities Act* (Ontario), the *Securities Act* (New Brunswick), the *Securities Act* (Nova Scotia) and the *Securities Act* (Saskatchewan), and the rules, regulations and other instruments thereunder, and reference is made to the complete text of such provisions contained therein. Such provisions may contain limitations and statutory defenses on which the Company may rely.

Notwithstanding that the *Securities Act* (British Columbia), the *Securities Act* (Alberta), and the *Securities Act* (Québec) do not provide, or require the Company to provide, to purchasers resident in these jurisdictions any rights of action in circumstances where this presentation or an amendment hereto contains a misrepresentation, the Company hereby grants to such purchasers contractual rights of action that are equivalent to the statutory rights of action set forth above with respect to purchasers resident in Ontario.

In Manitoba, the *Securities Act* (Manitoba), in Newfoundland and Labrador the *Securities Act* (Newfoundland and Labrador), in Prince Edward Island the *Securities Act* (PEI), in Yukon, the *Securities Act* (Yukon), in Nunavut, the *Securities Act* (Nunavut) and in the Northwest Territories, the *Securities Act* (Northwest Territories) provide a statutory right of action for damages or rescission to purchasers resident in Manitoba, Newfoundland, PEI, Yukon, Nunavut and Northwest Territories respectively, in circumstances where this presentation or an amendment hereto contains a misrepresentation, which rights are similar, but not identical, to the rights available to Ontario purchasers.

The statutory right of action described above is in addition to and without derogation from any other right or remedy at law.

Resale Restrictions

The securities described herein will be offered on a private placement basis in reliance upon prospectus exemptions under applicable securities legislation. Resale of the securities offered hereby will be subject to restrictions under the applicable securities legislation, which will vary depending on the relevant jurisdiction. Generally, such securities may be resold only pursuant to an exemption from the prospectus requirements of applicable securities legislation or pursuant to an exemption order granted by appropriate securities regulatory authorities.



HILLCREST
energy technologies™

CONTACT US



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<https://hillcrestenergy.tech>

THANK YOU!

ENERGY SOLUTIONS POWERING THE FUTURE



Benefits Across the Entire Powertrain System

EVs - First Application of Hillcrest ZVS Technology

Current E-Mobility Challenge	Hillcrest ZVS Technology Solution	Customer Benefit
Range	Up to 13% improvement in motor efficiency (partial load) for increased range of up to 26%	Up to 26% improvement in range
Performance (Power)	Up to 13% improvement in system-efficiency for increased power and better motor control	Up to 13% improvement in power and capacity
Battery Weight*	Up to 15% reduction in battery pack	Up to 300 lbs and US\$1,500 cost savings
Cost of Materials	Up to 50% reduction in capacitor size, reduction in EMI shielding	Up to US\$500 cost savings
System Complexity	Elimination of onboard charger and booster with deployment of Enhanced Powertrain Solution	Up to US\$200 cost savings
Charging Accessibility	Improved charging efficiency, speed and access at varying power levels (i.e. charging 800V vehicle on existing 400V chargers)	Up to 14% faster charging across a wider range of charging options

*Estimates based on battery pack size of 75 kWh, weight of 2,000 lbs. and cost of \$132/kWh

Hillcrest + Systematec GmbH

Our Strategic Partnership



Joint Development

- ✓ Continuous collaborative agreement
- ✓ Hillcrest directs projects and owns IP
- ✓ Seamless integration with Hillcrest engineering team



Capabilities

- ✓ Full spectrum power electronics engineering services based in Germany
- ✓ 13-member multi-disciplinary team with extensive industry experience
- ✓ Comprehensive insight into EV industry



Relationships

- ✓ Customers include numerous automotive OEM's and tier 1 suppliers
- ✓ Extensive industry network in auto, electrical & electronics
- ✓ Impeccable reputation

Learn more about Systematec: [Systematec GmbH](#)

Executive Team



DON CURRIE

CEO and Director

Trusted relationship and business builder with decades of North American equity markets exposure and public company financing success. Extensive experience owning and operating private businesses and serving on select public company boards.



Daryn Gordon

Chief Financial Officer

Chartered Professional Accountant (CPA, CA) with more than two decades of public company practice. Mr. Gordon started his career with global auditing firms Grant Thornton LLP and PwC Canada and transited to providing CFO services to Canadian public companies 14 years ago.



JAMES BOLEN

Chief Commercialization Officer

Veteran executive who is expert at leading innovation teams from concept development to commercial success. Mr. Bolen is the former president and CEO at Global Power Technologies USA, a global leader in ultra-reliable power systems for remote industrial architecture.



JAMIE L. HOGUE

Chief Operating Officer

More than 20 years of progressive experience in organizational development, operational management and policy leadership. Throughout her career, she's built diversified expertise in energy, water, natural resource and sustainability policy, communications and practice.



ARI BERGER

Chief Technology Officer

Expert in electrical machine control technologies, systems engineering and multi-disciplinary product design; over a decade of commercial experience with a track record of deploying new technologies and go-to-market strategies.

Board of Directors



DAVID FARRELL

Independent Chair

Mr. Farrell (B.Comm (Finance), LL.B, ICD.D) Mr. David Farrell is a corporate director with over 25 years of corporate and investment banking experience, and has negotiated, structured and closed more than US\$25 billion worth of M&A and structured financing transaction sfor numerous junior companies.



MICHAEL MOSKOWITZ

Independent Director

Seasoned technology executive and previous leader of Panasonic's North American business operations. Mr. Moskowitz enables technological innovation in key areas, such as sustainable energy, smart mobility, immersive experiences, integrated supply chain and consumer lifestyle.



DON CURRIE

CEO and Director

Trusted relationship and business builder with decades of North American equity markets exposure and public company financing success. Extensive experience owning and operating private businesses and serving on select public company boards.



KYLIE DICKSON

Independent Director

Canadian CPA who has played a pivotal role in multiple financings and M&A transactions. She was previously VP of Business Development at Equinox Gold Corp., VP Business Development at Trek Mining, CFO for JDL Gold Corp., Anthem United Inc. and Esperanza Resources, and served as the Corporate Controller of Minefinders Corporation.

Board of Directors (Continued)



MICHAEL KRZUS

Director

Former CEO and Director of NYSE listed company with 38 years energy industry experience including senior technical and executive management positions with both large and small publicly listed companies in Canada, USA, Australia and the Netherlands.



ROBERT LAMBERT

Independent Director

Currently Deputy Chairman of Jadestone Energy Inc., founder of Ipex Energy Ltd. And a partner in Oilfield Capital International LLP. Over the past 12 years held positions of CEO of Petra Petroleum Inc., Senior Independent Director of Eland Oil & Gas PLC, CEO of GB Petroleum Ltd., and previously held various executive management and senior operational roles with Conoco Inc. over a 25-year international career.



TOM MILNE

Independent Director

Senior financial executive with extensive international experience in energy E&P, pipelines, oil sands & communication technology; served as director of both public and private companies including chairman of audit committee for AMEX-listed oil sands company.