CSE: HEAT | OTCQB: HLRTF | FRA: 7HI



INVESTOR PRESENTATION

December 7, 2023

ENERGY SOLUTIONS POWERING THE FUTURE

Forward Looking Statement Notice

DISCLAIMER

This corporate presentation and the information contained herein (the "Presentation") is proprietary and for authorized use only. It is being provided for the use of prospective investors with the express understanding that, without the prior permission in writing from Hillcrest Energy Technologies Ltd. ("Hillcrest" or the "Company"), the investor will not copy this Presentation or any portion of it or use any information contained herein for any purpose other than evaluating a potential investment in securities of Hillcrest.

This Presentation provides general background information about the activities of Hillcrest, Information disclosed in this Presentation is current as December 6, 2023, except as otherwise provided herein and Hillcrest does not undertake or agree to update this Presentation after the date hereof. All information is derived solely from management of Hillcrest and otherwise publicly available third-party information that has not been independently verified by the Company. Further, it does not purport to be complete nor is it intended to be relied upon as advice (legal, financial, tax or otherwise) to current or potential investors. Each prospective investor should contact his, her or its own legal adviser, independent financial adviser or tax adviser for legal, financial or tax advice. Recipients of this Presentation who are considering acquiring securities of the Company are referred to the public filings made by the Company with Canadian securities regulatory authorities, which are available under the Company's SEDAR+ profile at sedarplus.ca.

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 majeur 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 forwardlooking 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 gridconnected 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 gridconnect 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













is accelerating to

By 2029

@ CAGR of 16.4%



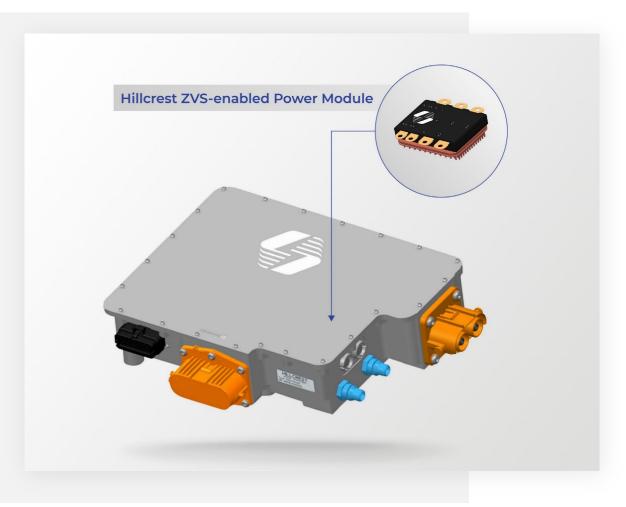


Source can be found here



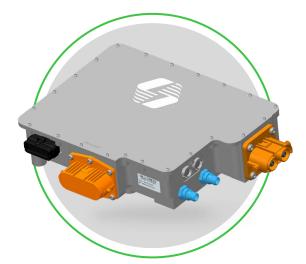
Hillcrest EV Traction Inverter Nominal 350kW | 800V Silicon Carbide Inverter

- 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 ≈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



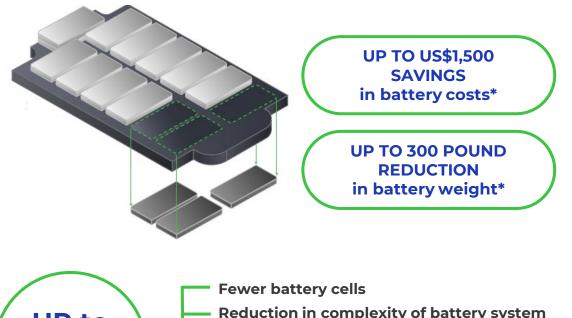
Traction Motor Efficiency gains of up to 13% (partial load) can generate up to up to 26% improvement in range; enables new advancements in motor technologies



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



Reduction in complexity of battery system **UP** to Reduction in end-of-life battery waste 15%* 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



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



Costs saving for a 100,000-vehicle model run



Commercialization Update Updates on Current Commercial Engagements

			NEGOTIATE COMMERCIAL SUPPLY AGREEMENT	
	HILLCREST BENCH PRE-TESTING (LOW LOAD)	HILLCREST BENCH SYSTEM TESTING (MAX BENCH LOAD)	CUSTOMER ON SITE SYSTEM DEMO (MAX LOAD)	LIVE INTEGRATED VEHICLE DEMO (MAX LOAD)
European Auto OEM 1				
European Auto OEM 2				
Automotive OEM 3				
Hercules Electric Mobility				
Global Tier 1 Supplier 1				
Global Motor Supplier				
Grid-Connect Supplier				



Hillcrest ZVS Inverter + Future Grid **Potential for Gigawatts of Annual Power Savings**

FUTURE PRESENT Generator Generator Inverter Inverter

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

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.

energy technologies

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.

energy technologies"

Capital Overview

As of December 5, 2023

Stock Listing	CSE: HEAT OTCQB: HLRTF FRA: 7HI
Basic Shares Outstanding	66.5M
Fully Diluted Shares Outstanding	91.2M
Warrants Outstanding (Average CAD\$1.68)	16.1M
Options Outstanding	3.7M
Restricted Stock Units	4.9M
Market Cap (December 5, 2023)	US\$22M
3-month Daily Average Trading Volume	64,960

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

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



CONTACT US



dcurrie@hillcrestenergy.tech



+1 604 609 0006



https://hillcrestenergy.tech





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 CFO 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 I. 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 FARREI I 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.