

ENERGY SOLUTIONS POWERING THE FUTURE

INVESTOR PRESENTATION

January 2025

Forward Looking Statement Notice

DISCLAIMER

This corporate presentation and the information contained herein (the "Presentation") is proprietary and for business strategies; (x) general economic conditions; (xi) adverse industry events; (xii) marketing costs; (xiii) loss 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 January 2, 2025, 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 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.





INNOVATION

up to

99.7%

Inverter Efficiency

up to

13%

Improvement in Motor Efficiency

SIGNIFICANT

Reduction in EMI

up to

50%

Reduction in Capacitors

up to

60%

Reduction in Filters

IMPACT ACROSS MARKETS

up to **US\$220M**

in potential costs saving for a 100K-vehicle EV model run

up to US\$13M

in potential revenues over a lifetime of 250MW solar farm with a 2% increase in inverter efficiency

up to **US\$6M**

in potential annual revenues from Level 2 EV Chargers with a 2% increase in inverter efficiency

up to **US\$250K**

in potential annual energy savings for 100K ft² data center with a 2% increase in UPS efficiency

CAPABILITY

Ease of Technology INTEGRATION

ADAPTABLE

to Numerous Markets

100%

OWNED IP PORTFOLIO

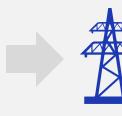
Extensive Industry
EXPERIENCE

HILLCREST energy technologies"

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



THE GLOBAL INVERTER MARKET is accelerating to

\$US 209B By 2032













@ CAGR of 18.6%



Source can be found here

Hillcrest ZVS Traction Inverter

Benefits Across the Entire Powertrain System









up to SIZE REDUCTION in DC-LINK CAPACITORS



TRACTION MOTOR

up to
13%
EFFICIENCY
GAINS

IMPROVED RANGE by up to 26%

LOWER EMI



COMBINED SAVINGS

up to
US\$1,800
in BATTERY
PACK
SAVINGS*



up to \$400 in MATERIALS SAVINGS** **1**0

≈99.7%
INVERTER EFFICIENCY

UP TO

US\$220M

Costs saving for a 100,000-vehicle model run



^{*}Estimates based on battery pack size of 100 kWh, weight of 1,000 lbs. and cost of \$153/kWh

^{**}Based on Hillcrest analysis

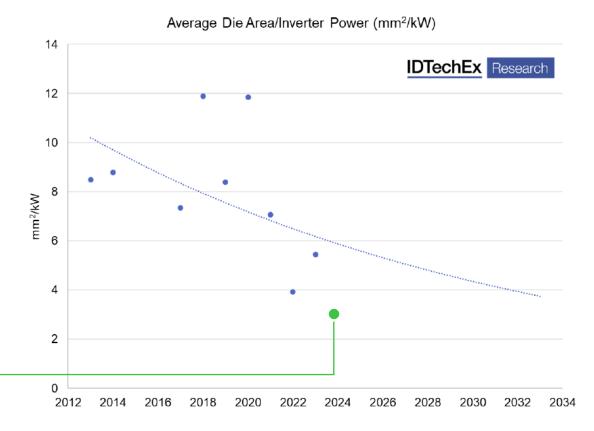


Hillcrest ZVS Traction Inverter

Cost savings From More Efficient Use of Semiconductors

- IDTechEx analyzed EVs from 2013-2023
- The general trend is that inverter power per unit area is increasing steadily.
- Vehicles analyzed include the Toyota Prius, Polestar 2, BMW i3, and Kia EV6, among others.
- By 2035, IDTechEx estimates that many vehicles will likely have die area per kW power below 4 mm² in the inverter.
- Hillcrest ZVS Traction Inverter has already achieved 3 mm²/kW





Hillcrest specifications added to IDTechEx analysis. Source: <u>The Future of EV Powertrains: SiC. GaN. and the Evolution of Power Electronics: IDTechEx Webinar</u>



Hillcrest ZVS Grid-Tied Inverter

Next-Generation Capabilities for New Sectors

POWER QUALITY AND HARMONICS



IMPROVED POWER QUALITY AND HARMONICS

Ability to string more inverters in parallel or run faster motors.

SYSTEM RELIABILITY AND **EXTENDED LIFESPAN**



IMPROVED SYSTEM RELIABILITY AND EXTENDED LIFESPAN

Reduces operating and capital costs.

LOWER EMI



LESS EMI SHIELDING AND **FILTERS**

Reduce cost.

SMALLER FILTERS

up to

60% FILTER SIZE REDUCTION



US\$13M

in potential revenues over a lifetime of 250MW solar farm with a 2% increase in inverter efficiency*

US\$6M

in potential annual revenues from Level 2 EV Chargers with a 2% increase in inverter efficiency**

*Assumptions:

- Capacity factor of 24.5%
- Power purchase price of US\$49.52/MWh
- 25-year life of solar farm

**Assumptions:

- Charging utilization rate of 15%
- Power price of US\$0.20/kWh



Hillcrest ZVS Power Factor Correction

New Levels of Efficiency and Reduced Capital Costs



POWER QUALITY AND HARMONICS



IMPROVED POWER QUALITY AND HARMONICS

Ability to string more inverters in parallel or run faster motors.

LOWER EMI



LESS EMI SHIELDING AND FILTERS

Reduce cost.

UP TO

US\$250K

in potential annual energy savings for 100,000 ft² data center with a 2% increase in UPS efficiency*

SYSTEM RELIABILITY AND **EXTENDED LIFESPAN**



IMPROVED SYSTEM RELIABILITY AND EXTENDED LIFESPAN

Reduces operating and capital costs.

SMALLER FILTERS

up to

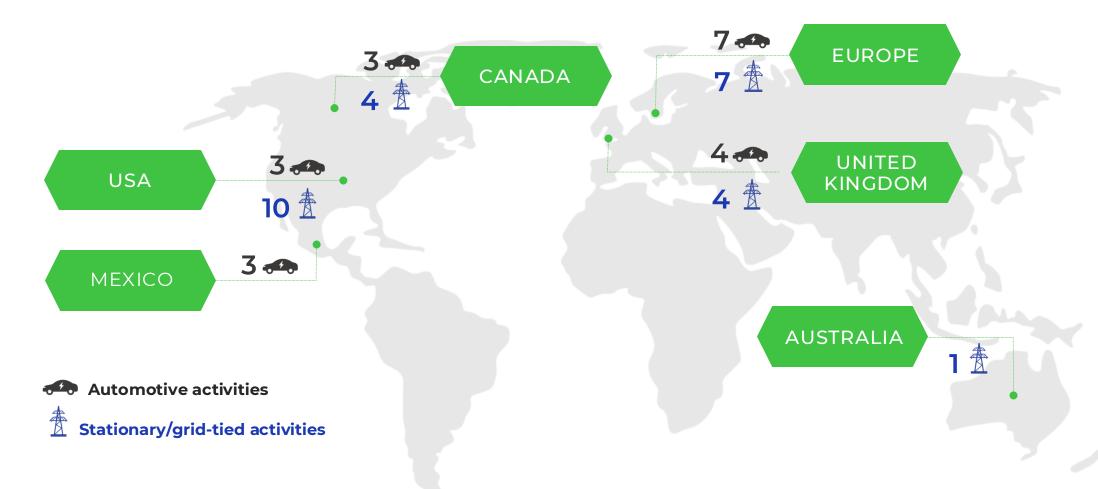
60% FILTER SIZE REDUCTION

*Assumptions:

- Average power price US\$0.12
- Annual data center energy usage of 87,600 MW



Current Commercial Activities





Sample of Current Automotive Commercial Priorities

Strong Momentum in Europe

EV Traction Inverters

Validated with OEMs & Tier One Suppliers

Advanced demonstrations and validation testing complete with multiple OEMs and Tier One suppliers.

Joint Development Opportunities

Multiple high-value joint development opportunities in advanced stages of negotiation.

ZVS Technology Integration

Ongoing system integration discussions with experts on incorporating ZVS technology into road-ready EVs.

Commercialization Nearing

Several promising commercial opportunities on the horizon.

PFC for Onboard Chargers

Engaged with Potential Customers

Actively engaging with five potential customers.

Upcoming Development Initiatives

Several joint development opportunities expected to launch within the next few months.

Strategic Speed to Market

Focused on quick market entry to support near-term cash flow.



Ocean Batteries AS Development

Experienced Marine Electrification Supplier Going Global

MARKET EXPANSION

Partnership with Ocean Batteries opens global marine and energy storage markets.

TECHNOLOGICAL LEADERSHIP

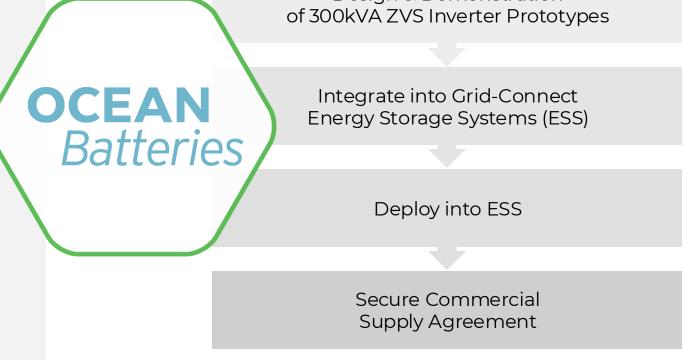
ZVS inverter bring superior efficiency, helping optimize grid-connected ESS.

REVENUE

Path to securing contracts and advancing commercialization.

KEY COMMERCIAL OBJECTIVES

Design & Demonstration





Core Technical Team



ARI BERGER

Senior Controls Engineer

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.



Industry Expertise



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.



NAD KARIM

VP Business Development

Seasoned executive with over 20 years experience. Mr. Karim has successfully launched and managed businesses across diverse sectors, including cloud networking, electric vehicle batteries, semiconductor IP, additive manufacturing, and advanced battery technologies.



DAN MATHIESON

Hillcrest Strategic Consultant

Mr. Mathieson is an innovative trailblazer with a legacy of five successful mayoral terms, renowned for his adeptness in network building. His visionary leadership transformed his community into a hub for cutting-edge automotive technologies. He currently serves on the advisory board for the <u>Auto Manufacturers Association's Project Arrow</u>.



Capital Overview

As of January 2, 2025

Stock Listing	CSE: HEAT OTCQB: HLRTF FRA: 7HI
Basic Shares Outstanding	99.3M
Fully Diluted Shares Outstanding	143.3M
Warrants Outstanding (Average CAD\$0.47)	28.6M
Options Outstanding	8.1M
Restricted Stock Units	7.3M
Market Cap (January 2, 2025)	CAD\$21M
3-month Daily Average Trading Volume	530,037

Ownership

Insider Ownership	11%
Family Offices	12%
German Advisor to the Company	5%
Close Business Associates	16%
Retail Investors	56%



Summary

100%
OWNED IP PORTFOLIO

99.7%
~ PEAK INVERTER EFFICIENCY



\$13M

IN USD POTENTIAL ADDITIONAL SOLAR POWER GENERATION REVENUES

\$2,200 In USD POTENTIAL

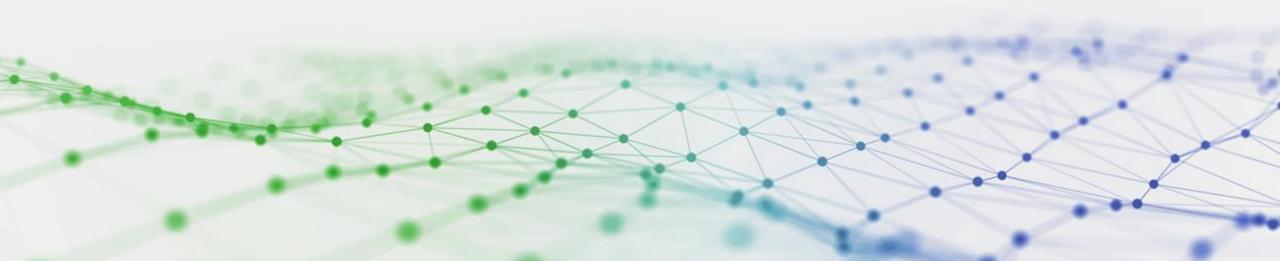
SAVINGS PER VEHICLE

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

HAVE QUESTIONS?

GET IN TOUCH WITH HILLCREST ENERGY TECHNOLOGIES

dcurrie@hillcrestenergy.tech +1 604 609 0006 www.hillcrestenergy.tech





Hillcrest + Systematec GmbH

Our Strategic Partnership





- ✓ 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: <u>Systematec GmbH</u>



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.



JAMIE L. HOGUE

Chief Operating Officer

More than two decades of progressive leadership, organizational development, marketing, and financial analysis expertise with proficiency in the fields of energy, water, natural resources, and sustainability policy.



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.



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.



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.

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.

