



**HILLCREST**  
energy technologies™

# ENERGY SOLUTIONS POWERING THE FUTURE

**INVESTOR PRESENTATION**

July 2024



# Forward Looking

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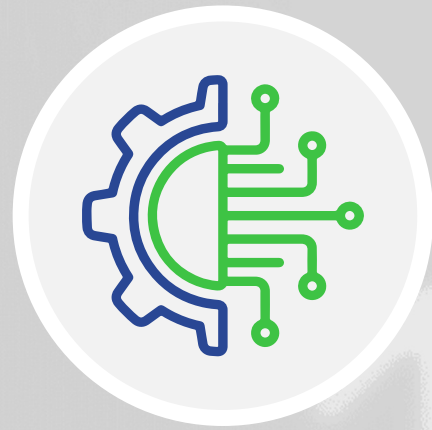
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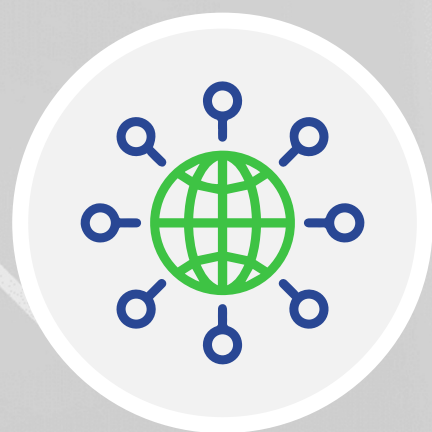
**No securities regulatory authority has expressed an opinion about these securities and it is an offence to claim otherwise. This offering may not be suitable for you and you should only invest in it if you are willing to risk the loss of your entire investment. In making this investment decision, you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



## 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

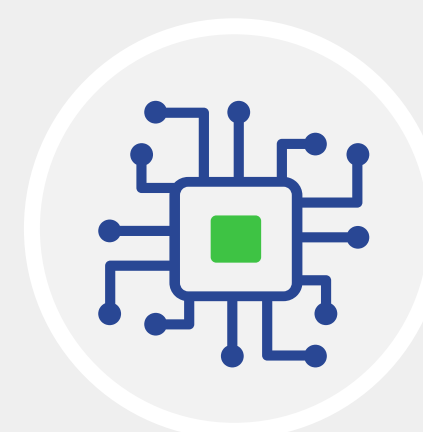


## UP TO US\$2,200 SAVINGS PER VEHICLE

- **Significantly better EMC** compared to conventional inverters
- **99.7% inverter efficiency** offers a significant advantage compared to conventional inverters on the market

## UP TO US\$13.2M IN ADDITIONAL SOLAR POWER GENERATION REVENUES

- **Improved power quality and harmonics**
- **Significantly better EMC** compared to conventional inverters
- **99.7% inverter efficiency** offers a significant advantage compared to conventional inverters on the market



## 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

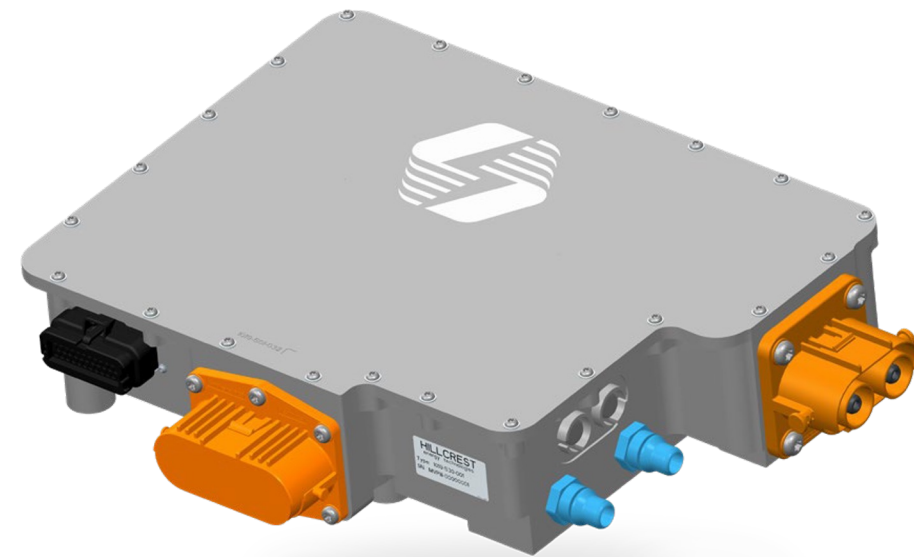


An **inverter** is a power electronic device that converts direct current (DC) power to alternating current (AC) power



# Benefits Across the Entire Powertrain System

## EVs - First Application of Hillcrest ZVS Technology



### POWER INVERTER

- . Inverter efficiency of  $\approx 99.7\%$
- . Up to 50% reduction in size of DC-link capacitors.
- . Optimized use of semiconducting materials



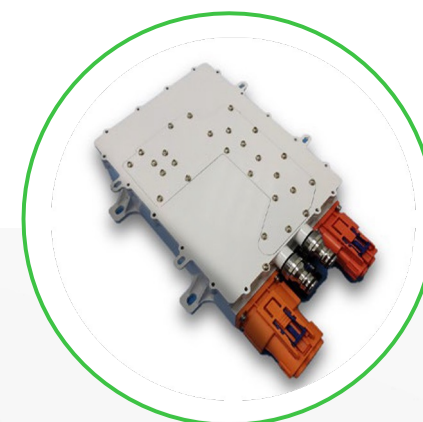
#### Traction Battery Pack\*

Up to 15% reduction in size of battery pack



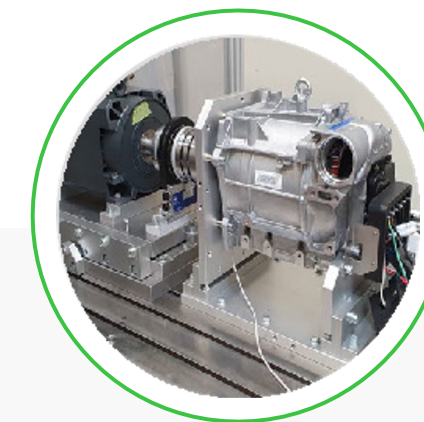
#### Charger

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



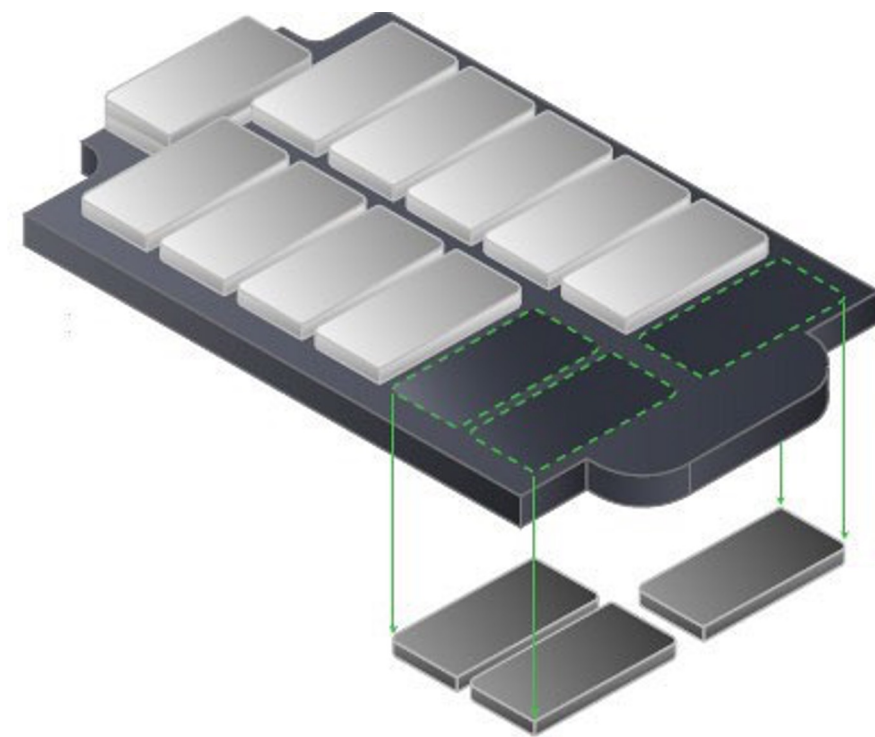
#### Emi Shielding

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



**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**

# Hillcrest ZVS Grid-Tied Inverter

## Next-Generation Capabilities for New Sectors

### GRID-TIED INVERTER VALUE PROPOSITION

Hillcrest is redefining the landscape of power inverter capabilities with its Zero Voltage Switching (ZVS) technology. This cutting-edge solution introduces higher switching frequencies without the common drawbacks associated with conventional power inverters.

HIGHEST POSSIBLE  
**INVERTER  
 EFFICIENCY**  
 UP TO  
**99.7%**

SYSTEM COST SAVINGS  
 THROUGH SIZE AND WEIGHT  
**REDUCTION**  
 UP TO **↓ 45%** UP TO **↓ 60%**  
 LINE FILTERS DC-LINK CAPACITORS

#### IMPROVED POWER QUALITY AND HARMONICS

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

#### REDUCED ELECTROMAGNETIC INTERFERENCE (EMI)

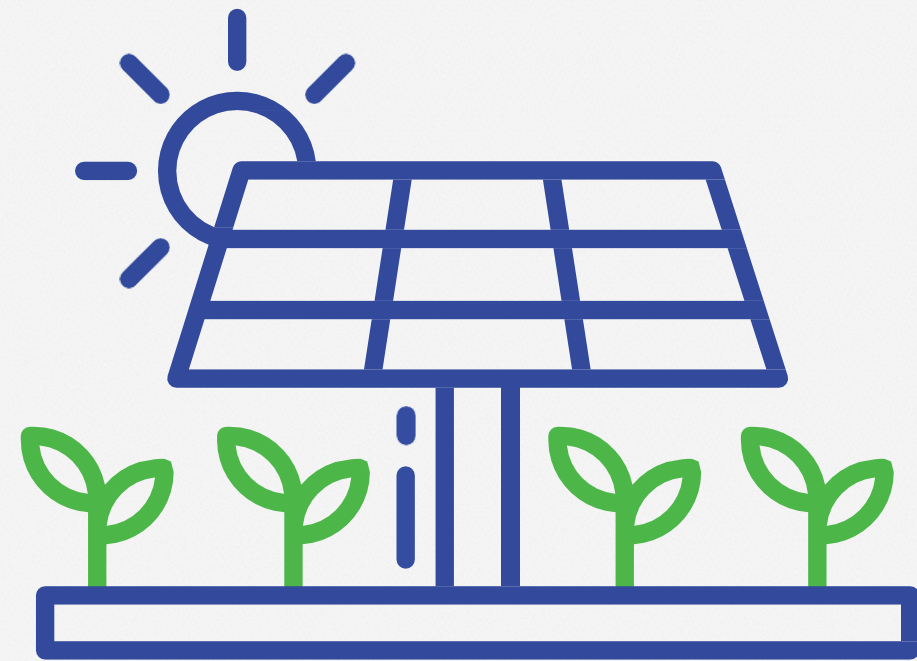
Requires less shielding and filters, reducing costs and weight.

#### IMPROVED SYSTEM RELIABILITY AND EXTENDED LIFESPAN

Reduces operating and capital costs.

# Hillcrest ZVS Grid-Tied Inverter

Cost Savings + Superior Performance



AN ADDITIONAL

**US\$13.2M\***

in potential revenues over a lifetime of

**250MW SOLAR FARM**

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

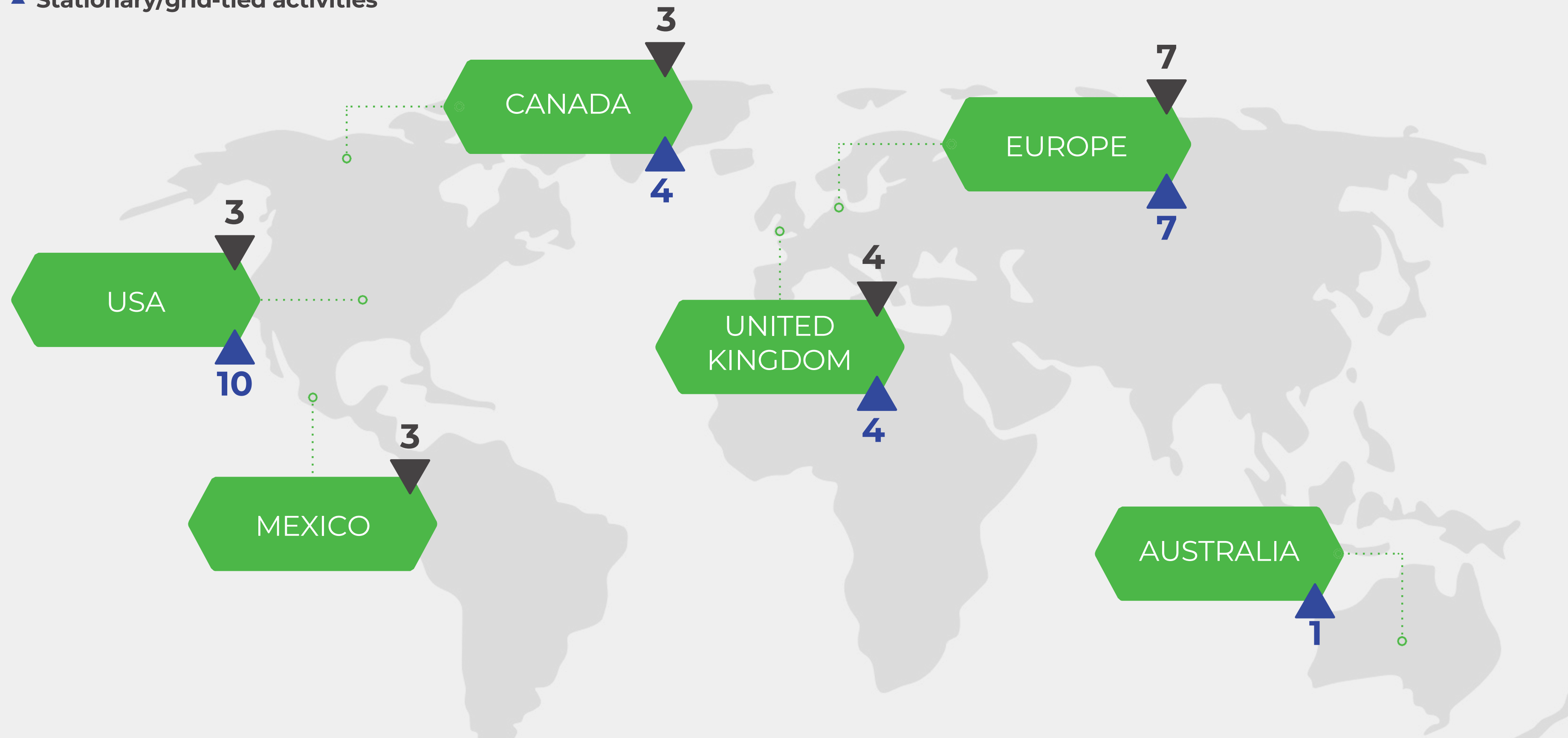




# Current Commercial Activities

▼ Automotive activities

▲ Stationary/grid-tied activities



# ESS Innovator

## Experienced Marine Electrification Supplier Goes Global

### Key Commercial Objectives

Design and demonstrate 300kVA | 800V ZVS inverter prototypes

Integrate ZVS inverters into grid-connected energy storage systems (ESS)

Deploy ZVS inverter into grid-connected ESS

Secure commercial supply agreement



# Sample of Current Automotive Commercial Priorities

## Strong Momentum in Europe Continues

### European Automotive OEM

Various rounds of advanced demonstration complete

Potential joint development project under discussion

**Integration of ZVS inverter into road-ready EV**

**Commercial agreement**

### 3 European Automotive Companies

Adaptation of ZVS for use in onboard chargers and power factor correction (PFC) applications

**Speed to market + near term cashflow**

# 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.

# Strategic 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.



## 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 Auto Manufacturers Association's Project Arrow.

## 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 July 15, 2024

## Stock Listing

CSE: HEAT  
 OTCQB: HLRTF  
 FRA: 7HI

Basic Shares Outstanding	<b>100.5M</b>
Fully Diluted Shares Outstanding	<b>143.3M</b>
Warrants Outstanding (Average CAD\$1.68)	<b>27.5M</b>
Options Outstanding	<b>8.3M</b>
Restricted Stock Units	<b>7.0M</b>
Market Cap (April 29, 2024)	<b>CAD\$30M</b>
3-month Daily Average Trading Volume	<b>742,587</b>

## Ownership

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

# Summary



**100%**  
OWNED IP PORTFOLIO

**99.7%**  
~ PEAK INVERTER EFFICIENCY



**\$13.2M**

US DOLLARS ADDITIONAL  
SOLAR POWER GENERATION  
REVENUES

**\$2,200**

US DOLLARS SAVINGS  
PER VEHICLE

**7**

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

# HAVE QUESTIONS?

**GET IN TOUCH WITH HILLCREST ENERGY TECHNOLOGIES**

[dcurrie@hillcrestenergy.tech](mailto:dcurrie@hillcrestenergy.tech)

+1 604 609 0006

[www.hillcrestenergy.tech](http://www.hillcrestenergy.tech)





# 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

# 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.



## 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.



## 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 for 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.

