



**HILLCREST**  
energy technologies™

# INVESTOR PRESENTATION

April 1, 2024

# 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](http://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.

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There is an offering document related to this offering that can be accessed under the Company's SEDAR+ profile at [sedarplus.ca](http://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**



## 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

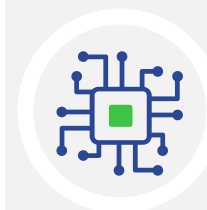


## UP TO US\$2,200 SAVINGS PER VEHICLE

- **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

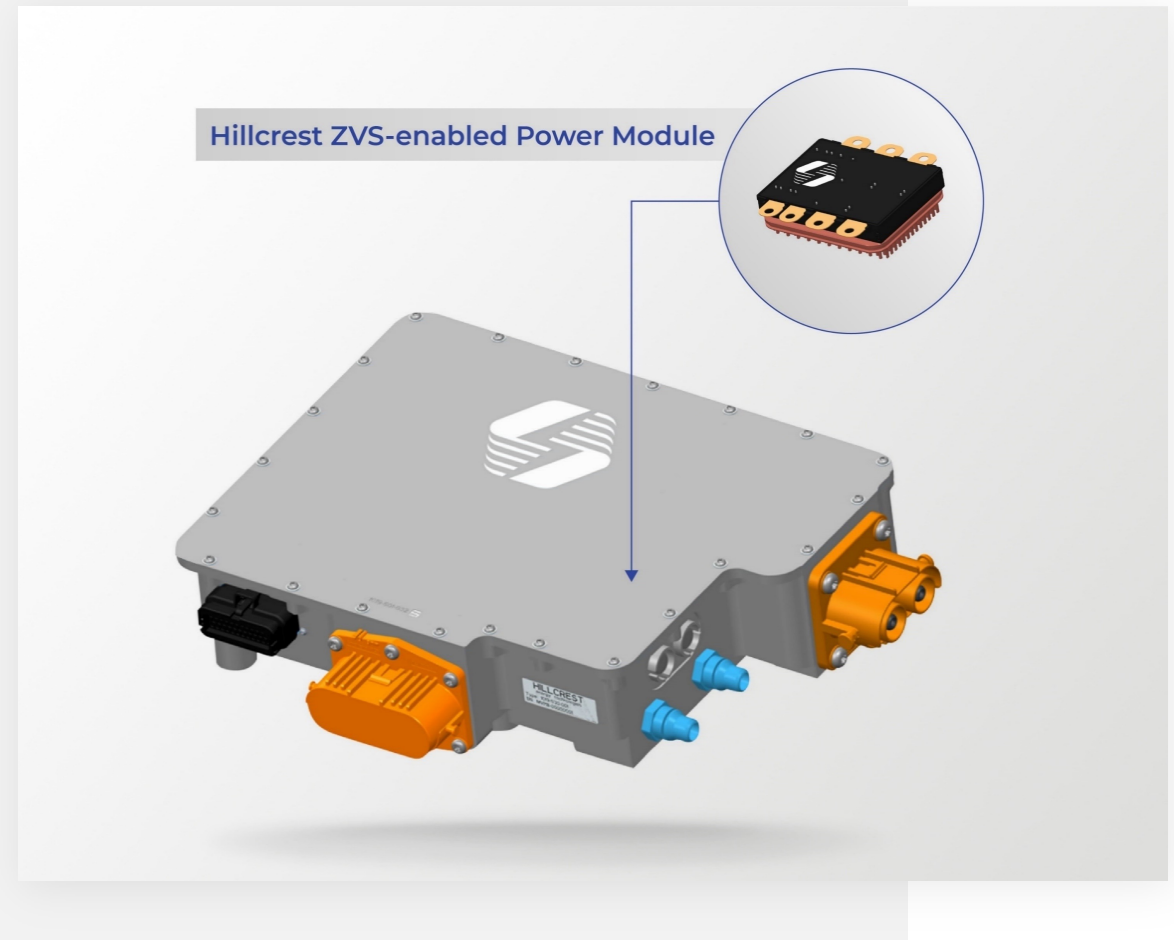


Source can be found [here](#)

# Hillcrest EV Traction Inverter

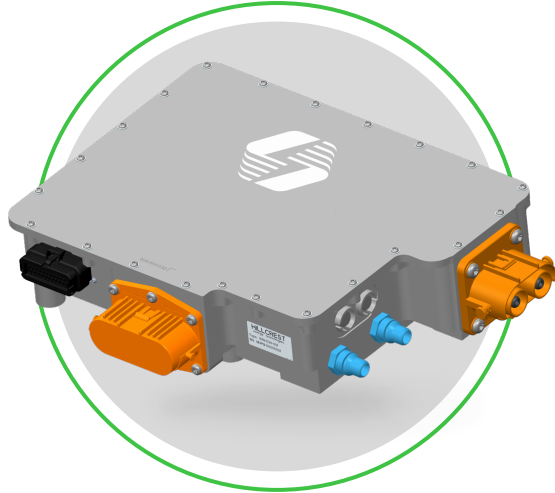
## Nominal 350kW | 1000V Silicon Carbide Inverter

- 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



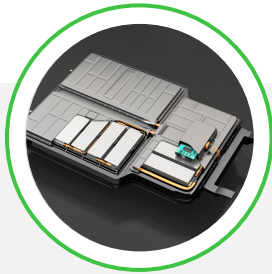
# Benefits Across the Entire Powertrain System

## EVs - First Application of Hillcrest ZVS Technology



### POWER INVERTER

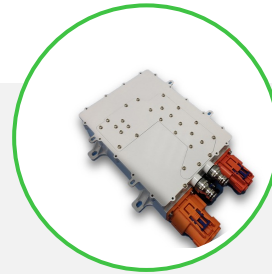
- Inverter efficiency of  $\approx 99.7\%$
- Up to 50% reduction in size of DC-link capacitors
- Optimized use of semiconducting materials



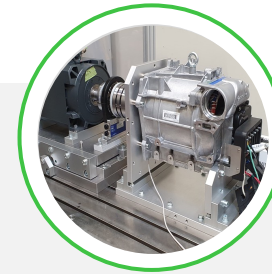
**Traction Battery Pack\***  
Up to 15% reduction in size of battery pack



**Charger**  
Expanded charging capabilities



**Onboard Charger**  
Elimination of onboard charger



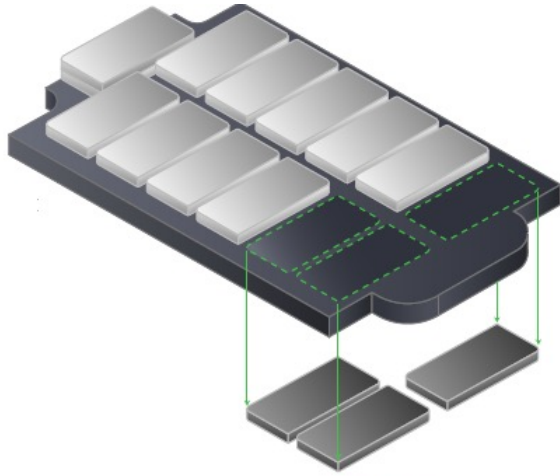
**Traction Motor**  
Efficiency gains of up to 13% (partial load) can generate up to up to 26% improvement in range; enables new advancements in motor technologies



**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%\***

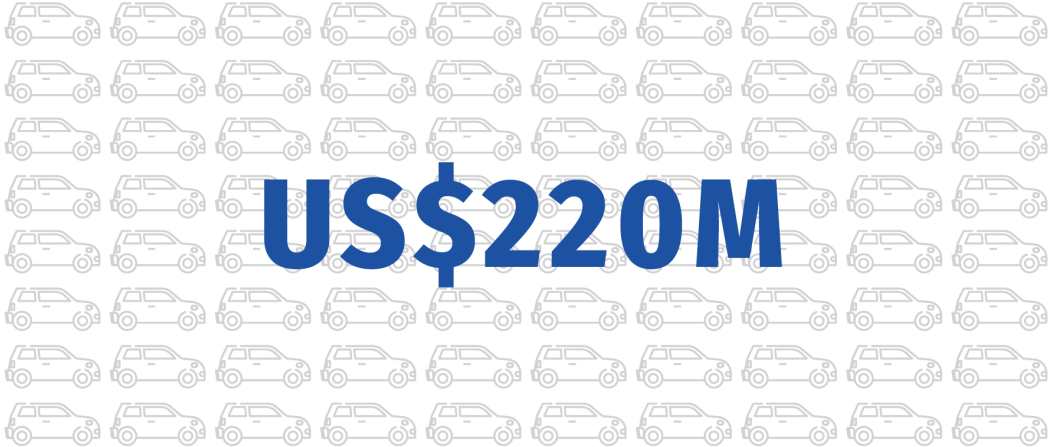
- Fewer battery cells
- Reduction in complexity of battery system
- Reduction in end-of-life battery waste
- Reduction in critical EV Battery minerals needed per vehicle
- Reduction in upstream GHG emissions associated with supplying critical EV battery minerals

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



**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**

# 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.

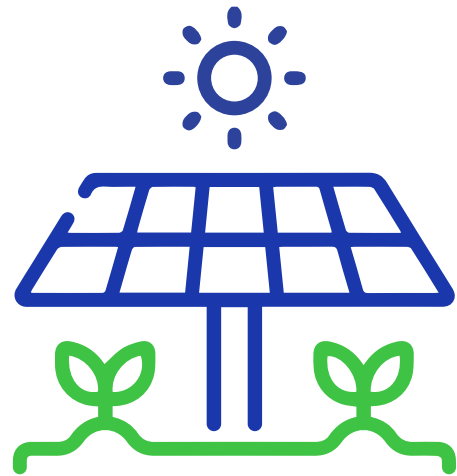
### IMPROVED SYSTEM RELIABILITY AND EXTENDED LIFESPAN

Reduces operating and capital costs.



# Hillcrest ZVS Grid-Tied Inverter

## Sample Impact of Improved Inverter Efficiency



AN ADDITIONAL  
**US\$13.2M\***  
in potential revenues over the lifetime of a  
**250MW SOLAR FARM**  
with a 2% increase in inverter efficiency



**\*Assumptions:**

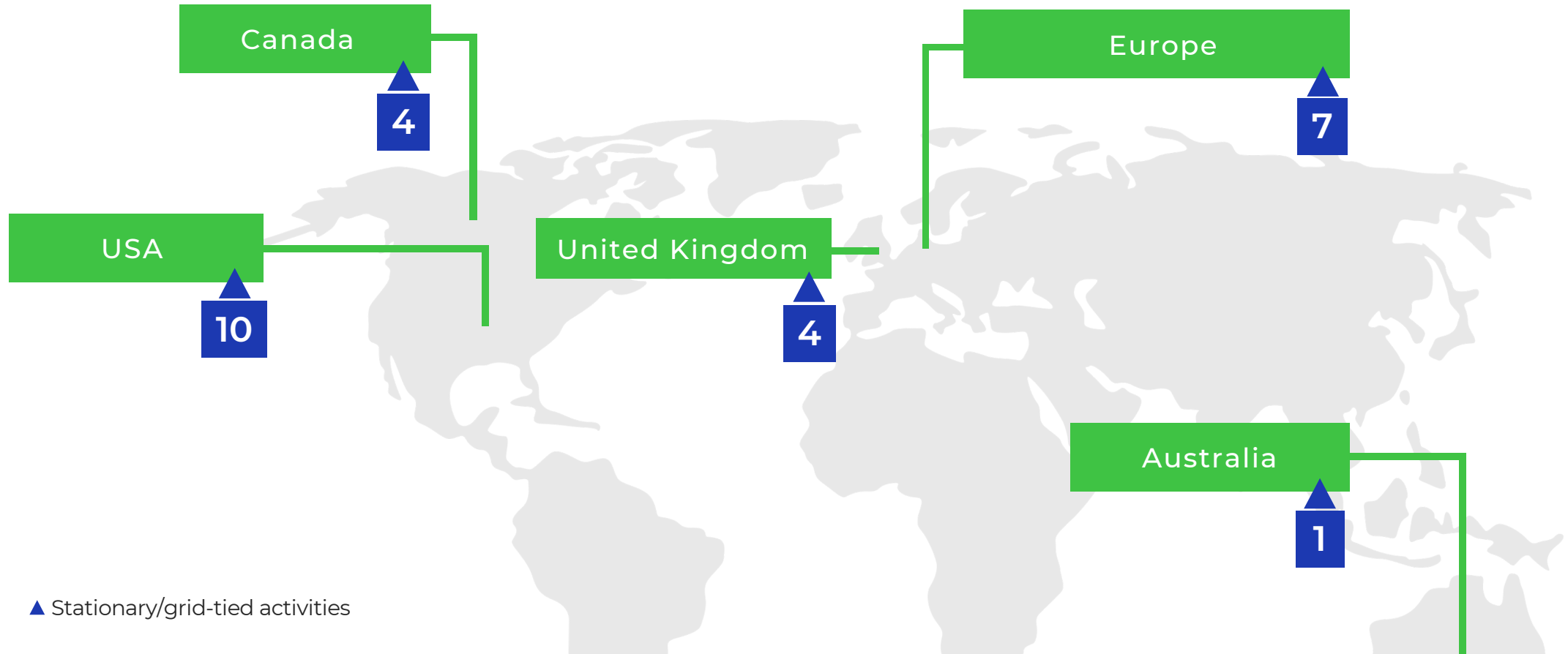
Capacity factor of 24.5%

Power purchase price of US\$49.52/MWh

25-year life of solar farm

# Commercial Activities Underway

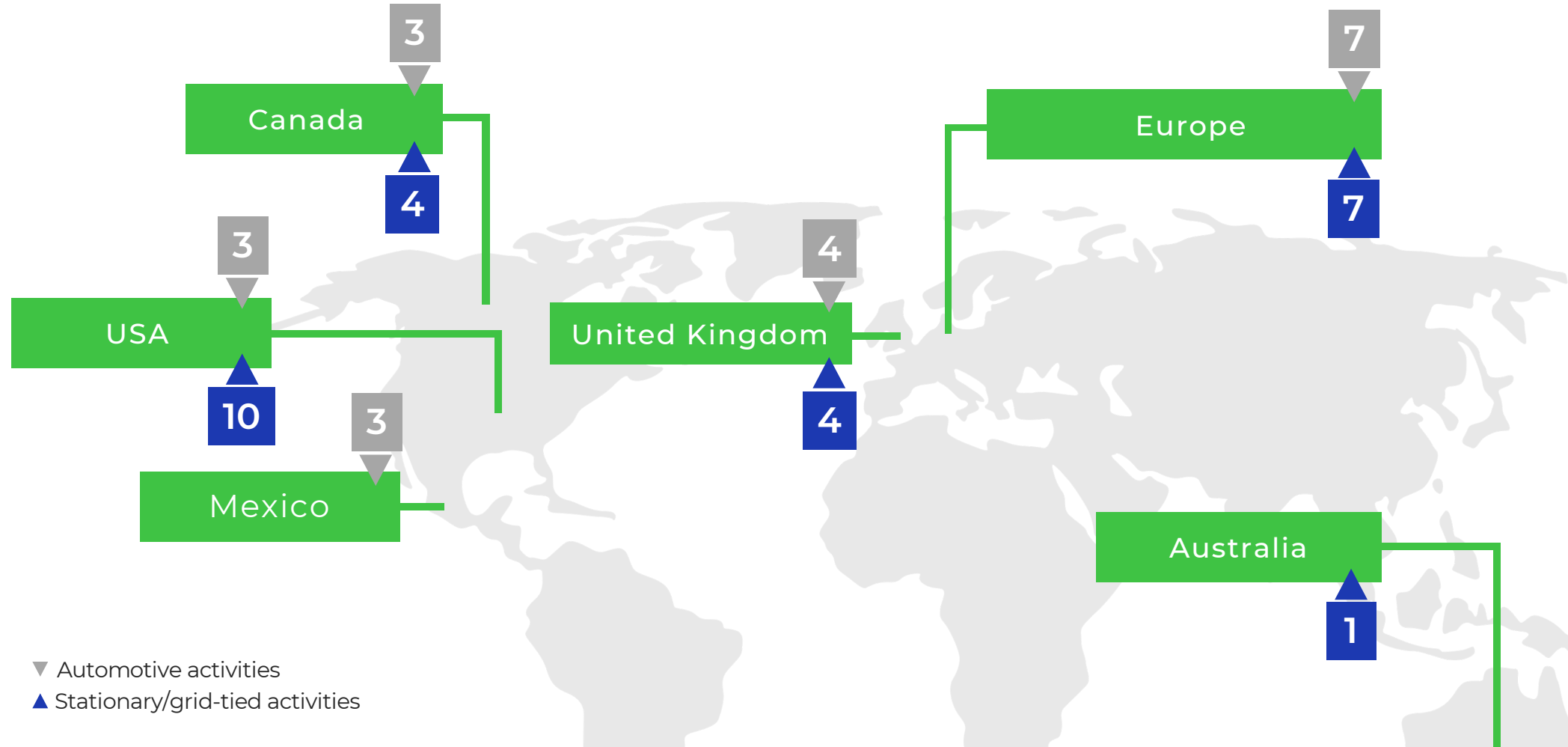
## Stationary | Grid-Tied Activities



▲ Stationary/grid-tied activities

# Commercial Activities Underway

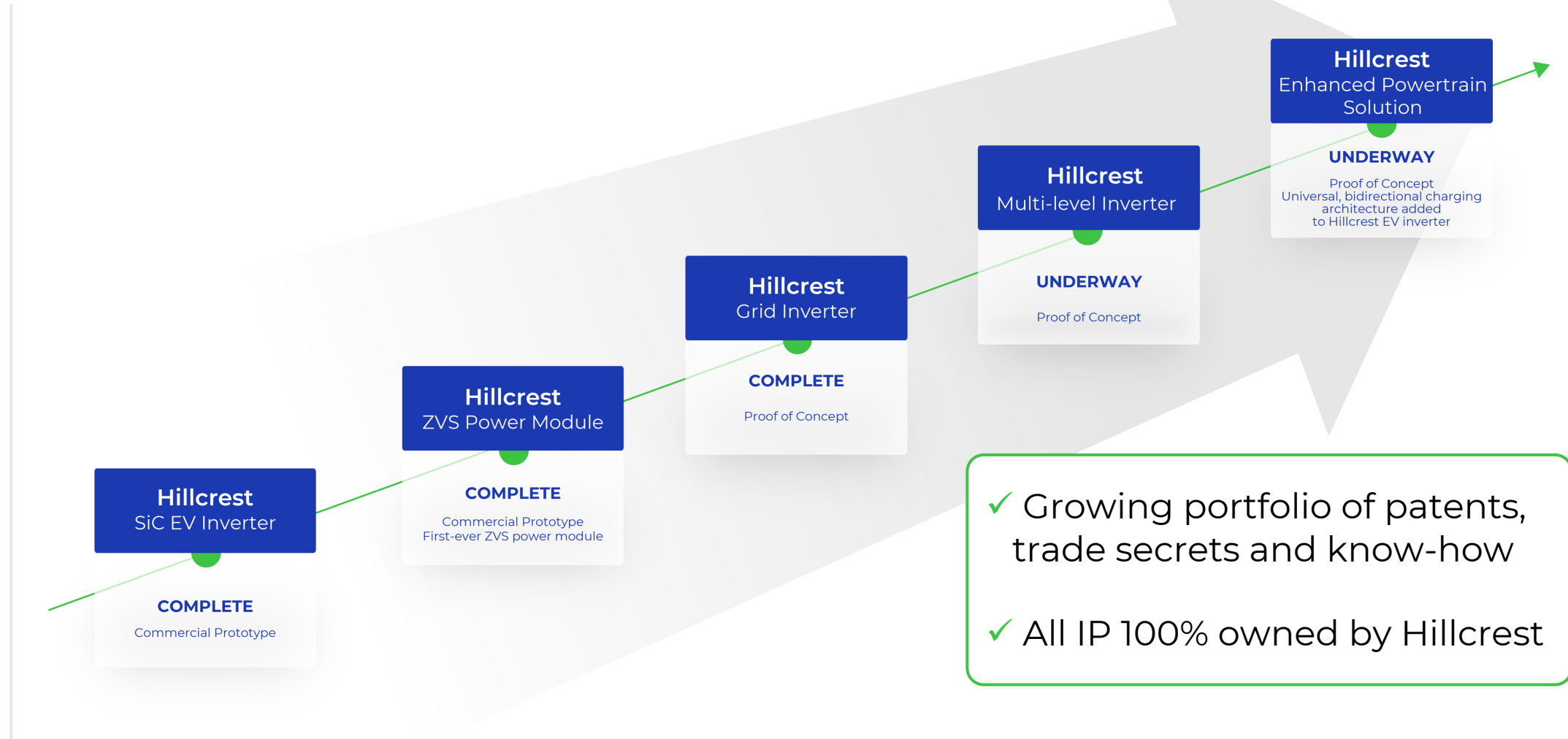
## All Commercial Activities



▼ Automotive activities  
▲ Stationary/grid-tied activities

# 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.

## 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.



**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.



**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.

# Capital Overview

As of April 1, 2024

Stock Listing	CSE: HEAT OTCQB: HLRTF FRA: 7HI
Basic Shares Outstanding	73.7M
Fully Diluted Shares Outstanding	97.2M
Warrants Outstanding (Average CAD\$1.68)	14.8M
Options Outstanding	3.7M
Restricted Stock Units	5.0M
Market Cap (February 14, 2024)	CAD\$16M
3-month Daily Average Trading Volume	123,194

## 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

**99.7%**

~ 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



# 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



# 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 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



**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.