

Green Energy from Renewable and Waste Sources
at lower cost and more efficient than current alternatives



REASONS TO INVEST

OVERVIEW

OPPORTUNITY

PROBLEM

SOLUTION

MANAGEMENT

REASONS TO INVEST

low-cost, clean electric power

MORE AT A LOWER COST. I Terum Energy's proprietary modular energy systems are highly competitive versus currently available renewable Waste-to-Power (WTP) systems

- approximately 40% less expensive
- about 3x more electric power produced per project
- manages all heat stream simultaneously – both heating and cooling
- fewer units required – simple project design, reduced maintenance

ENVIRONMENTALLY FRIENDLY. Converts industrial waste heat and GHG emissions into clean electric power (fuel-free)

RAPIDLY EXPANDING HUGE MARKET. Global WTP market is projected to climb to \$25.7 billion in 2026E (from \$13.4 billion in 2021)

EXPERIENCED MANAGEMENT TEAM. Successful track record of building and managing energy, industrial manufacturing, and technology companies

\$000,000	
TOTAL RAISED	
00	\$44.62
INVESTORS	Million
	VALUATION
\$2.00	\$250.00
PRICE PER SHARE	MIN. INVESTMENT
Class B	Equity
Common	OFFERING TYPE
SHARES OFFERED	
\$5 Million	Reg CF
OFFERING MAX	OFFERING
Invest Now	





ITerum Energy Company
Issued August 24, 2022

CrowdCheck, Inc. delivers due diligence, disclosure and compliance services for online capital formation. The Compliance Check looks for evidence indicating that the company is a legitimate venture conducting the type of business it claims, is properly incorporated and is in good standing with a U.S. state or jurisdiction, and meets the legal requirements to seek investment through an online securities offering. The Compliance Check does not constitute an investment recommendation or advice of any kind.

[Learn More](#)

[Invest Now](#)

Overview



Iterum Energy Company will manufacture and market modular power generation systems to convert waste-heat into low-cost, environmentally-friendly electric power (Waste-to-Power, or WTP).

- Converts greenhouse gas (GHG) thermal emissions and industrial waste-heat into clean electric power (fuel-free)
- Custom-designed, modular, and scalable architecture – maximizes electric power production from a wide variety of sources – lower-cost and more efficient than current alternatives
- Partners with producers of GHG emissions and waste-heat to install and manage energy solutions – customers use or sell surplus power to grid
- Rapidly expanding global market for emerging renewable technologies such as WTP
- Experienced management team – long and successful track record successfully building and managing energy, industrial manufacturing, and technology companies

Iterum Energy has identified new market opportunities within the renewable energy industry through its capability to convert a variety of energy sources to a range of useful utilities

[Learn More](#)

[Invest Now](#)

Problem – GHG Emissions and Waste-Heat ^{1,2,3,4}



Nearly three-quarters of all energy produced by humanity is squandered as waste heat – new technologies are now exploring ways to capture and reuse this vast renewable source

- Fossil fuels are major contributors waste heat pollution and GHG emissions – presenting serious environmental consequences
- Industries, utilities, and transportation – large sources of waste heat but great potential to be converted to renewable power (WTP)
- Landfills, waste incineration, and agricultural waste – emit methane and biogas which contribute to GHG emissions



[Learn More](#)

[Invest Now](#)

Opportunity ^{5,6}



To limit global warming to 1.5 degrees Celsius, over \$131 trillion (34% efficiency, 26% renewables, 22% electrification, and 18% other) of investment is estimated between 2015 and 2050E

- Renewable energy markets have been led by wind and solar – but new opportunities are emerging to increase the utilization of other renewable energy resources such as waste heat recovery, geothermal, biomass, and hydro
- Global WTP market is expected to climb to \$25.7 billion by 2026E from \$13.4 billion in 2021



Solution/Strategy



Iterum deploys innovative, engineered renewable energy solutions into key markets where we utilize our industry knowledge, experience, and contacts to create – Energy from Renewable Sources™

- Generates clean electric power (fuel-free, emissions-free) using locally sourced GHG emissions and waste heat; additional high-value utilities – heating, cooling, potable water, hydrogen, and EV charging
- Risk management – business interruption from natural disasters (off-grid power production and energy storage; off-grid EV charging stations); business liability (waste heat mitigation; water treatment)
- Proprietary engineering, software, and process design – commercially available and proven technologies (fuel-free, emissions-free) – know-how, trade secrets, trademarks



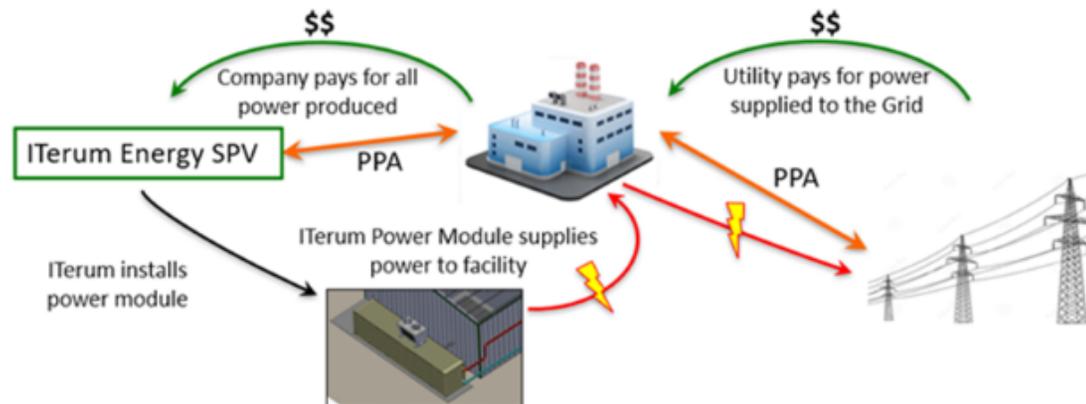
[Learn More](#)

[Invest Now](#)

Partnership Model

Partner with emitters of GHG and waste-heat to create...

- Heat Energy Conversion System – SPV LLCs
- New revenue streams – customers use green electric power or sell surplus green electric power to the Grid
- Mature and extensive pipeline of potential partners



ITerum Modular Energy Systems

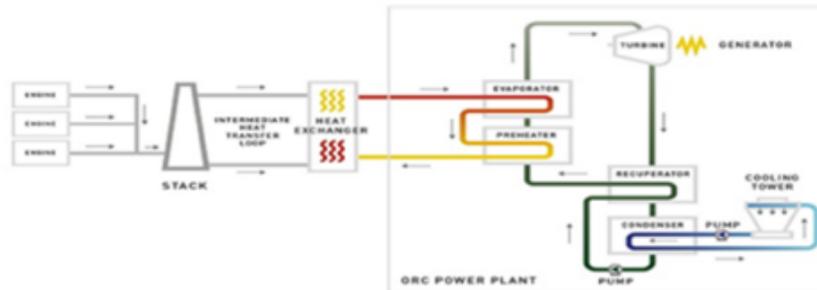


Heat collection system designed for max energy conversion

- Process Flow algorithms
- Machine Learning Feedback Loops
- Proprietary Heat Exchanger Specifications

Efficient Turbine Design

- Intelligent variable Speed controls
- Several Sizes and Configurations – Utilize all Heat



Proprietary thermal design

- Intelligent flow rate monitors
- Maximize heat to power conversion
- Higher Temp heat collection

Total solution delivery

- Complete Integrated System
- Software Backbone to Manage Efficiency

Modular system ready to scale

- Multiple ORC Modules in 1 Container
- Easily sized for each application

[Learn More](#)

[Invest Now](#)

Competitive Advantages



Flexible and scalable architecture

- Easy transport and installation (modular system arrives assembled); maximizes power generation (collects waste-heat from wide variety of sources)
- One comprehensive system (collection, storage, and generation of electric power)
- AI/ML software for predictive failure to reduce downtime
- Low-cost and more efficient than current alternatives

Creates end-to-end solutions

- Easily integrates with existing industrial processes and renewable power projects – no disruption to operations, maintains existing system as backup

Scalable across a wide range of industries and heat sources

- Including diesel power generation, geothermal, solar thermal, other renewables



Competitive Advantages – Case Study



- **Lower overall project cost** – over 40% less expensive
- **Greater electricity produced** – about 3x more electricity per project
- **Manage all heat streams simultaneously** – both heating and cooling

Example – Power produced from heat collected from three internal combustion engines (ICEs)

where:

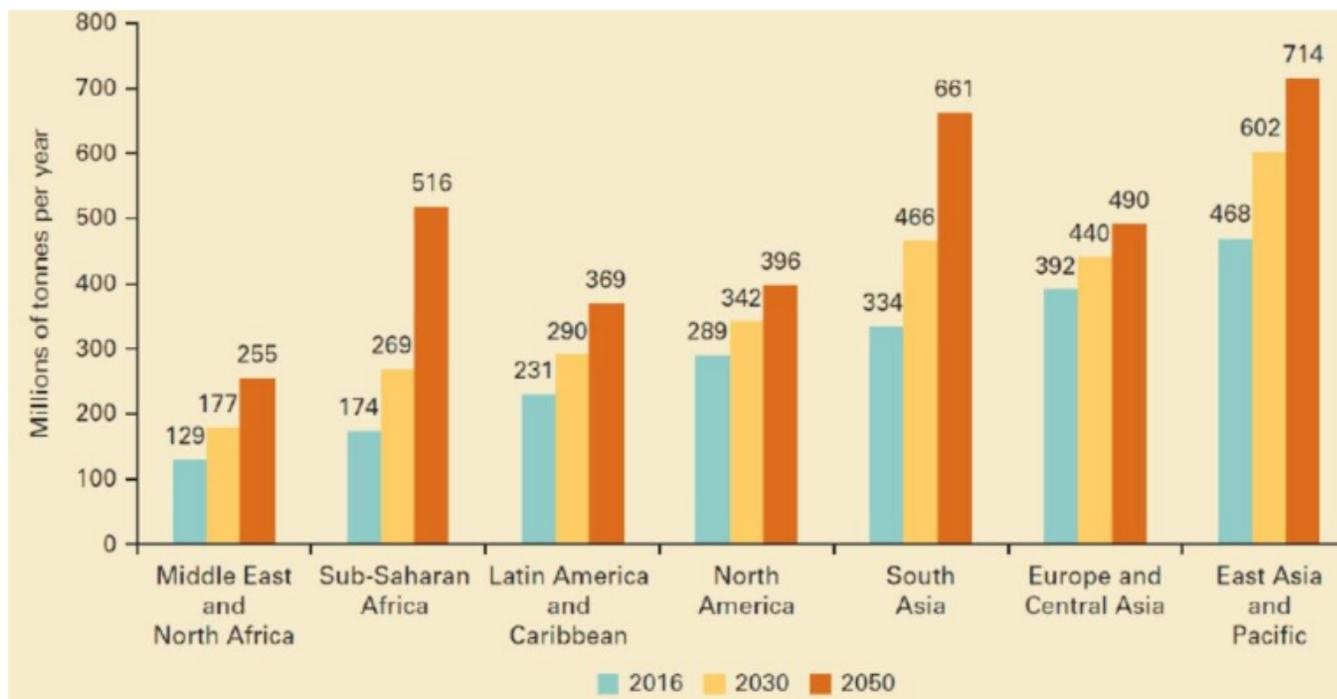
- Each ICE has two waste heat streams: (i) hot exhaust gas, and (ii) cooling jacket water
- Price of electricity is \$0.10 per kW-hour
- Project life of 20 years

Metric	ITerum Energy	Competitor	Difference
Production per unit (kWh/ICE)	575	200	375
Total production (kWh)	1,725	600	2.9x
Number of units required	1	6	1/6
Cost per system (\$)	\$3,000,000	\$300,000	
Total project cost (\$)	\$3,000,000	\$1,800,000	1.6x
Cost per kWh (\$/kWh)	\$1,739	\$3,000	58%
Annual electricity production (kWh)	14,904,000	5,184,000	2.9x
Annual electricity value (\$)	\$1,490,400	\$518,400	2.9
Payback (years)	2.0	3.5	

Target Market #1 – MSW, Agricultural, and Biomass ^{7,8,9,10}



- Globally, about 2 billion tonnes of municipal solid waste (MSW) is produced annually – with at least 33% not controlled in an environmentally safe manner; about half of the world's population does not have access to basic waste disposal systems
- Estimated target market about \$250 million annually



Target Market #2 – Conventional Combustion Engines ¹¹



- Reciprocating internal combustion engines are a well-established technology – with over 200 million units produced per year, worldwide, for industrial, commercial, and institutional facilities for power generation and combined heat and power (CHP)
- Estimated target market about \$150 million annually



Management



Mark Ryan – Founder, Executive Chairman, President, and Chief Executive Officer

Over 30 years of continued success in building and managing companies. Founded ITezum Energy / Pyramid Green Power in 2011. Held senior positions in accounting/finance, operations, marketing and sales, product development and engineering. Early career positions with major corporations including Hughes Electronics and Parker Hannifin. Co-inventor of LTFC Prime Mover. Platinum LEED certification. Graduate studies in Business Administration. M.S. Engineering from Portland State University. B.S. Finance and Accounting from Oregon State University.



Todd E. Stevens, PhD – Director of Technology

Over 20 years of technology development, technical management, and consulting experience for renewable energy, fuel cell and semiconductor companies. Since 2020, Director of Technology, ITezum Energy. Since 2010, Managing Director and Consultant, Inovus Energy. Prior Vice President of Engineering at Neah Power; Vice President of Engineering at Neah Power; Senior Project Engineer at Mesoscopic Devices; and Director of Research and Development at Synetics Solutions. Former Assistant Professor at Oregon Institute of Technology. Licensed Professional Engineer (PE). PhD and M.S. in Mechanical Engineering from Clarkson University – characterized advanced solar materials as a NASA fellow. B.S. in Mechanical Engineering from the University of Maine.



M. Oussama Laraichi, PhD – Director of Operations

Over 10 years of international experience in industrial management and technology with expertise in supply chain management. Business Analytics and Systems Transformation at Wolters Kluwer Health. Previously worked in Integrated Resource Planning at Portland General Electric, and in Business Systems Transformation at Arkadin. Prior Project Manager for cutting edge ERP solutions at Groupe PSA, a leading European automotive corporation. PhD in Technology Management from Portland State University. M.S. in Information Systems Management and B.S. in Computer Science from the University of Bordeaux (France).



Cullen P. Ryan – Secretary and Director of Field Operations

Over 10 years of engineering experience applying renewable energy technologies. Regional Field Services Manager at Powin Energy. Applications Engineer, Leviton Manufacturing Corp. Internships with Intel and Industria Construction. Absentee Shawnee Native American Tribe. Member of American Indian Science and Engineering Society (AISES), Association of Energy Engineers (AEE), and IEEE – Power and Energy. M.S. in Global Energy Management from the University of Colorado. B.S. in Renewable Energy Engineering from Oregon Institute of Technology.

[Learn More](#)

[Invest Now](#)

FOOTNOTES:

Problem – Waste Heat and GHG Emissions

- (1) Sustainability – Converting Municipal Waste to Energy through the Biomass Chain – 210421
- (2) University of Oxford – Quantification of Global Waste Heat and Its Environmental Effects – 2018
- (3) <https://e360.yale.edu/features/waste-heat-innovators-turn-to-an-overlooked-renewable-resource>
- (4) EPA – CHP – Waste Heat to Power Systems – April 2022

Opportunity

- (5) https://www.einnews.com/pr_news/572604374/waste-heat-to-power-global-market-to-grow-at-rate-of-13-through-2026
- (6) WSJ Video – 211029 – <https://www.wsj.com/video/series/wsj-explains/how-much-would-it-cost-to-reduce-global-warming-131-trillion-is-one-answer/7CDC8900-9FF0-4DF6-BD69-25A5FF5B02B5>

Target Market #1 – MSW, Agricultural, and Biomass

- (7) The World Bank – What A Waste 2.0 – Global Snapshot of Solid Waste Management to 2050 – website 220619
- (8) <https://www.statista.com/statistics/530481/largest-dump-sites-worldwide/>
- (9) University of Colorado Boulder – The Hidden Damage of Landfills – 210415
- (10) EPA – Statistical Report – 2018

Target Market #2 – Conventional Combustion Engines

- (11) EPA – Catalog of CHP Technologies – March 2015
ternal estimates using independent third-party research

OFFERING SUMMARY

COMPANY: IIterum Energy Company

CORPORATE ADDRESS: 400 South 4th Street, Suite 500, Las Vegas, Nevada 89101

OFFERING MINIMUM: \$25,000

OFFERING MAXIMUM: \$5,000,000

MINIMUM INVESTMENT
AMOUNT (PER INVESTOR): \$250.00

TERMS

OFFERING TYPE: Equity

SECURITY NAME: Class B Non-Voting Common Stock

MINIMUM NUMBER OF SHARES
OFFERED: 12,500

MAXIMUM NUMBER OF SHARES
OFFERED: 2,500,000

PRICE PER SHARE: \$2.00

PRE-MONEY VALUATION: \$44,618,784

Use of Proceeds May Change Materially

Any information provided regarding the use of proceeds is an estimated forecast only. The Company might incur uses of proceeds that differ materially from any use of proceeds information provided to prospective investors, including salary or other compensation to current owners, founders, senior management, or their friends or relatives.

[OFFERING DETAILS \(LINK\)](#) [FILL IN](#)

[FORM C FILING \(LINK\)](#) [FILL IN](#)

The investor should read the Form C, Offering Memorandum, and the Risks section before investing in this transaction.

RISKS

These securities are offered under an exemption from registration; however, the U.S. Securities and Exchange Commission has not made an independent determination that these securities are exempt from registration. A crowdfunding investment involves risk. You should not invest any funds in this offering unless you can afford to lose your entire investment. In making an investment decision, investors must rely on their own examination of the issuer and the terms of the offering, including the merits and risks involved. These securities have not been recommended or approved by any federal or state securities commission or regulatory authority. Furthermore, these authorities have not passed upon the accuracy or adequacy of this document. The U.S. Securities and Exchange Commission does not pass upon the merits of any securities offered or the terms of the offering, nor does it pass upon the accuracy or completeness of any offering document or literature.

COMMENTS

IMPORTANT MESSAGE

REG CF INVESTMENTS, AND ALL EQUITY CROWDFUNDING INVESTMENTS, ARE SPECULATIVE, ILLIQUID, AND INVOLVE A HIGH DEGREE OF RISK, INCLUDING THE POSSIBLE LOSS OF YOUR ENTIRE INVESTMENT. IN MAKING AN INVESTMENT DECISION, INVESTORS MUST RELY ON THEIR OWN EXAMINATION OF THE ISSUER AND THE TERMS OF THE OFFERING, INCLUDING THE MERITS AND RISKS INVOLVED.

NO SECURITIES OFFERED ON THIS WEBSITE HAVE BEEN RECOMMENDED OR APPROVED BY ANY FEDERAL OF STATE SECURITIES COMMISSION OR REGULATORY AUTHORITY.

All securities listed on this site are being offered by, and all information included on this site is the responsibility of, the applicable issuer of such securities. Castle Placement, LLC does not provide any investment advice or recommendations, and does not provide any legal or tax advice with respect to any securities. Castle Placement, LLC does not verify the adequacy, accuracy or completeness of any information.

Neither Castle Placement, LLC nor any of its officers, directors, agents and employees makes any warranty, express or implied, of any kind whatsoever related to the adequacy, accuracy, or completeness of any information on this site or the use of information on this site. See additional general disclosures contained herein.

By accessing this site and any pages on this site, you agree to be bound by our [Reg CF Investment Considerations, Disclosures and Risks](#) and [Privacy Policy link](#), as may be amended from time to time without notice or liability.

The securities offered on this site are not offered in jurisdictions where public solicitation for offerings is not permitted; it is solely your responsibility to comply with the laws and regulations of your country of residence.

Potential investors are strongly advised to consult their legal, tax and financial advisors before investing.

California Investor Only – [Do Not Sell My Personal Information link](#)

Canadian Investors – investment opportunities posted and accessible through the site will not be offered to Canadian resident investors.

[Learn More](#)

[Invest Now](#)

0 COMMENTS

Leave a reply

Your email address will not be published. Required fields are marked *

Comment

Name *

Email *

Website

POST COMMENT

Connect with Castle



About us

Castle Placement raises capital and finds loans for middle market companies

Headquartered in New York City, with offices in Boston, Dallas, Detroit, Houston, Los Angeles, Miami, and Washington DC

Broker-dealer; member of FINRA/SIPC

\$1 million to \$1 billion in all industries/geographies

Artificial intelligence/machine learning accurately matches investors with companies

CPGD - proprietary app connects companies with investors in real time

Robust, data-driven, deal flow technology facilitates information flow, negotiations, documentation, and closing

Experienced investment bankers: extensive relationships and structuring experience

World-class team of professionals from top-tier global investment banks

Over 64,500 institutional investors and 600,000 accredited investors - private equity, venture capital, strategic, family offices, pension funds, foundations, endowments, sovereign wealth funds, hedge funds, and lenders.

Forward Looking Statements

Information available to investors may contain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, which do not relate strictly to historical or current facts

Forward-looking statements often include words such as "will," "anticipates," "estimates," "expects," "projects," "intends," "plans," "believes" and words and terms of similar substance in connection with discussions of future operating or financial performance

Forward-looking statements often regarding the adequacy of funding to meet future needs, expected future revenue and expenses, the market for goods or services, or other similar matters

Forward-looking statements are based on management's current expectations and assumptions regarding the company's business and performance, the economy and other future conditions and forecasts of future events, circumstances and results

Forward-looking statements, as with any projection or forecast, are inherently susceptible to error, uncertainty, and changes in circumstances

Actual results may vary materially from those expressed or implied in forward-looking statements due to economic, strategic, political and social conditions, government regulation, errors in estimates such as in the expected market size, expected costs of bringing a product to market, expected timelines and resources required to complete projects, and other operational and financial estimates, recent and future changes in technology, services and standards, changes in consumer behavior, plans, initiatives and strategies, and consumer acceptance thereof

In addition, actual results may vary materially from those expressed or implied in forward-looking statements due to changes in the plans, initiatives and strategies of the third parties that

[Risks, Disclaimer and Email Policy](#)

[Reg Best Interest Disclosure](#)

[Reg CF Investment Considerations, Disclosures and Risks](#)

[Reg CF Educational Material](#)

[Privacy Policy](#)

[Business Continuity](#)

[Legal](#)

[California Residents Only - Do Not Sell My Personal Information](#)

[Contact us](#)

Castle Placement provides three ways to raise funding from investors globally and in the US (all 50 states, Puerto Rico, and Washington DC) under federal and state laws and regulations:

-- Regulation Crowdfunding: \$5 million per year; light disclosure required; anyone (including non-accredited) can invest; general solicitation/advertising permitted

-- Regulation D Rule 506(c): amount raised is unlimited; light disclosure required after closing; only accredited investors (high-net worth individuals and institutions) can invest; general solicitation/advertising permitted

-- Regulation A+: \$75 million per year; significant (but less than an IPO) disclosure required; anyone (including non-accredited) can invest; general solicitation/advertising permitted; sometimes referred to as a "mini-IPO."

Castle Placement does not make investment recommendations and no communication, through this website or in any other medium, should be construed as a recommendation for

Equity Crowdfunding Investment Risks:

Castle Placement does not make recommendations of securities to investors.

The company issuing securities is Castle Placement's client.

If you are an investor, you are not a customer or client of Castle Placement.

Your decision to invest is yours alone, with the help of your professional and legal advisors.

Equity crowdfunding investments, and start-up investments in particular, are speculative and involve a high degree of risk and those investors who cannot afford to lose their entire investment should not invest in start-ups.

Companies seeking startup investments through equity crowdfunding tend to be in earlier stages of development and their business model, products and services may not yet be fully developed, operational or tested in the public marketplace. There is no guarantee that the stated valuation and other terms are accurate or in agreement with the market or industry valuations.

Additionally, investors may receive illiquid and/or restricted stock that may be subject to holding period requirements and/or liquidity concerns. In the most sensible investment strategy for start-up investing, start-ups should only be a small part of your overall investment portfolio. Further, the start-up portion of your portfolio should include a balanced portfolio of different start-ups.

Investments in startups are highly illiquid and those investors who cannot hold an investment for the long term (at least 5-7 years), or lose their investment in its entirety, should not invest.

For more background of the Castle Placement, LLC broker-dealer and professionals, [Click Here](#).

For additional important risk and disclaimer information, [Click Here](#).

This site is operated by Castle Placement, LLC ("Castle Placement"), a registered broker-dealer and member FINRA/SIPC located at 1460 Broadway, New York, NY 10036. Castle Placement does not give investment advice, endorsement, analysis or recommendations with respect to any securities. All securities listed here are being offered by, and all information included on this site is the responsibility of, the applicable issuer of such securities. Castle Placement is not responsible for the adequacy, accuracy or completeness of any information. Neither Castle Placement nor any of its officers, directors, agents and employees makes any warranty, express or implied, of any kind whatsoever related to the adequacy, accuracy or completeness of any information on this site or the use of information on this site. By accessing this site and any pages thereof, you agree to be bound by the Terms of Use and Privacy Policy.

including adjustments due to changes in tax laws, initiatives and strategies of the third parties that are necessary or important to the company's success, competitive pressures, including as a result of changes in technology, ability to deal effectively with economic slowdowns or other economic or market difficulties, increased volatility or decreased liquidity in the capital markets, including any limitation on the company's ability to access the capital markets for debt securities, refinance its outstanding indebtedness or obtain equity, debt or bank financings on acceptable terms, failure to meet earnings expectations or comply with federal, state and foreign regulations as they related to securities offerings and exchanges, the adequacy of the startup's risk management framework, changes in U.S. GAAP or other applicable accounting policies, the impact of terrorist acts, hostilities, natural disasters (including extreme weather) and pandemic viruses, or a disruption or failure of the company's or its vendors' network and information systems or other technology upon which its businesses rely

Furthermore, actual results may vary materially from those expressed or implied in forward-looking statements due to changes in tax, federal communication and other laws and regulations, digital systems being compromised by hacking, forking and hostile take-over, changes in foreign exchange rates and in the stability and existence of foreign currencies, and other risks and uncertainties which may or may not be specifically discussed in materials provided to investors

Any forward-looking statement speaks only as of the date on which it is made – companies are under no obligation to, and generally they expressly disclaim any obligation to, update or alter their forward-looking statements, whether as a result of new information, subsequent events or otherwise

should be construed as a recommendation for any security offered on or off this investment platform.

There is no guarantee of success, and there is a potential for loss of your investment.