



Annual General Meeting Presentation

28 November 2022

ASX: ZEO
www.zeotech.com.au

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The information in this presentation relating to exploration results for the Toondoon Project is extracted from the ASX release entitled 'Notice of General Meeting/Proxy Form' released to the ASX on 28 July 2022 which is available on the Company's website www.zeotech.com.au.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement, and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed.

The Company confirms that the form and context in which the competent person's findings are presented have not been materially modified from the original market announcement



Our vision is to contribute to a **sustainable future** by empowering our people to **collaborate and innovate**, utilising proprietary technology and advanced materials.

Corporate snapshot



\$58M

Market capitalisation



1,615M

Shares on issue
(25th Nov 2022)



\$3.34M

Cash at bank
(25th Nov 2022)



\$0

Debt



\$0.036

Current share price

Board & Management

Sylvia Tulloch - Non-Executive Chair

Peter Zardo - Managing Director

Rob Downey - Non-Executive Director

Dr. John Vogrin - Project Manager

Scott Burkhart - CCO

Technical partners

The University of Queensland

Griffith University

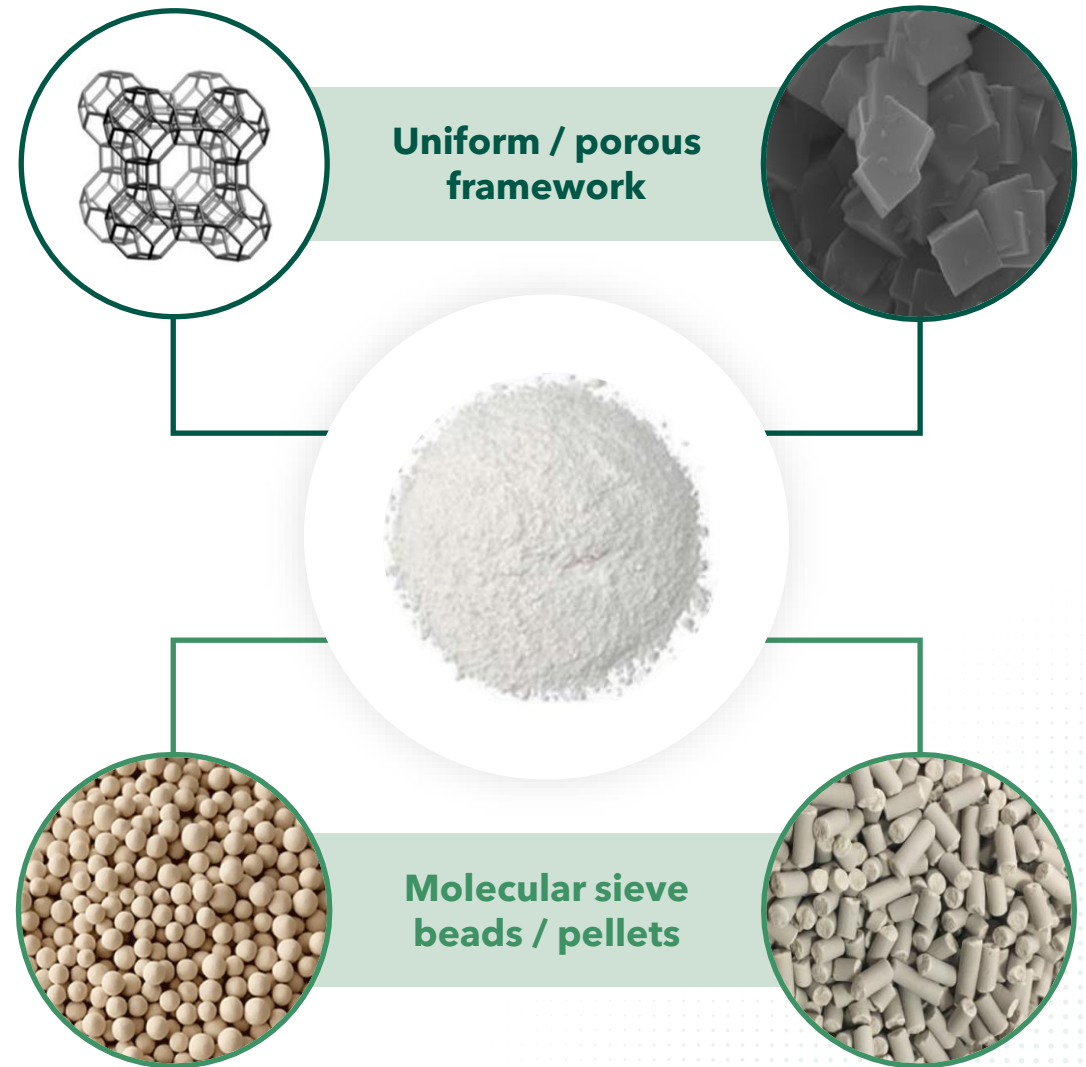
Share price and volume



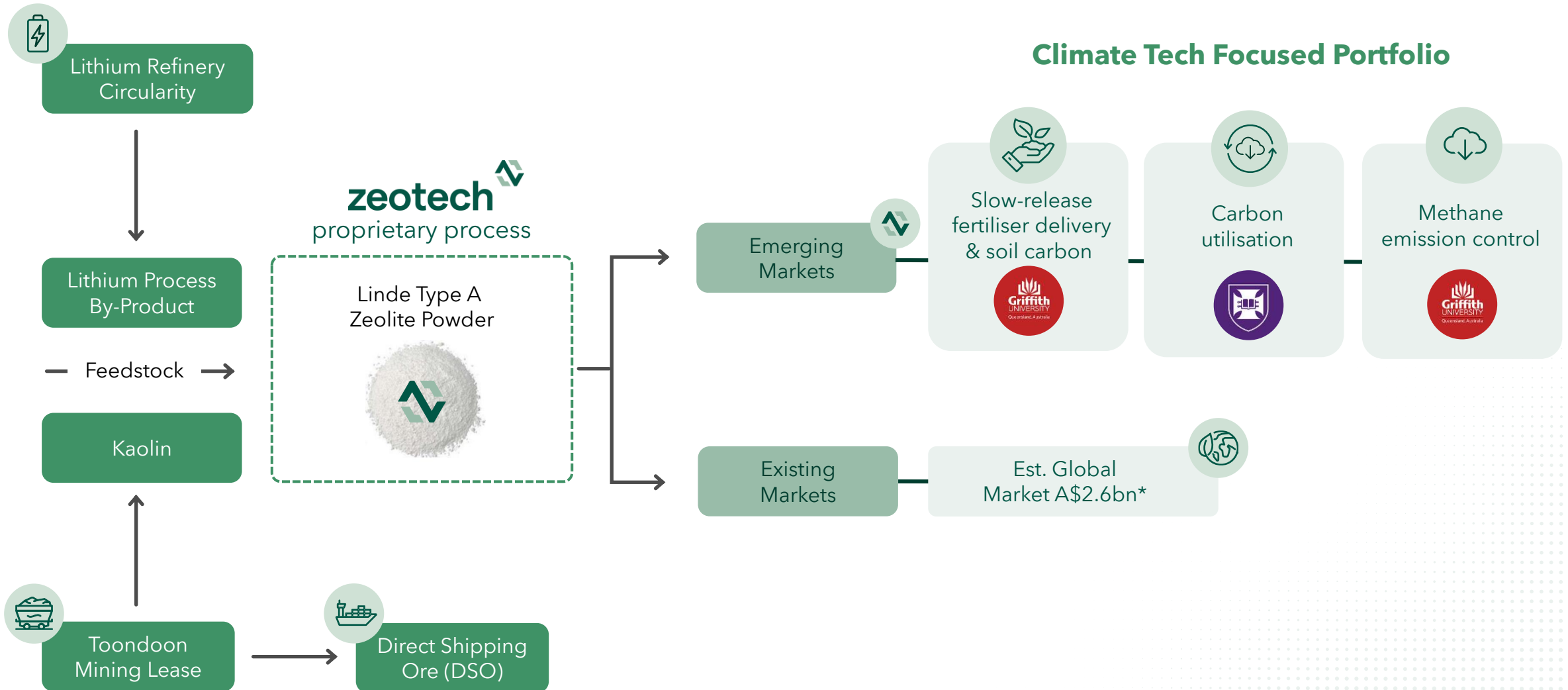
Manufactured Zeolites

Zeolites are high-value adsorbents / catalysts with broad applicability

- Manufactured zeolites are aluminosilicate minerals with a **sponge-like structure (framework)**
- Zeolites are made up of tiny pores that make them useful as **adsorbents, catalysts and ultrafine filters**
- Type A zeolites are commonly known as **molecular sieves**
- Can be designed to **selectively adsorb molecules or ions** dependent on their unique construction and can be regenerated repeatedly for re-use
- **Manufactured zeolites act like a magnet** that can hold cations, including heavy metals, ammonia, low level radioactive elements, toxins, petrochemicals, many different types of gases and a multitude of various solutions, offering diverse applications

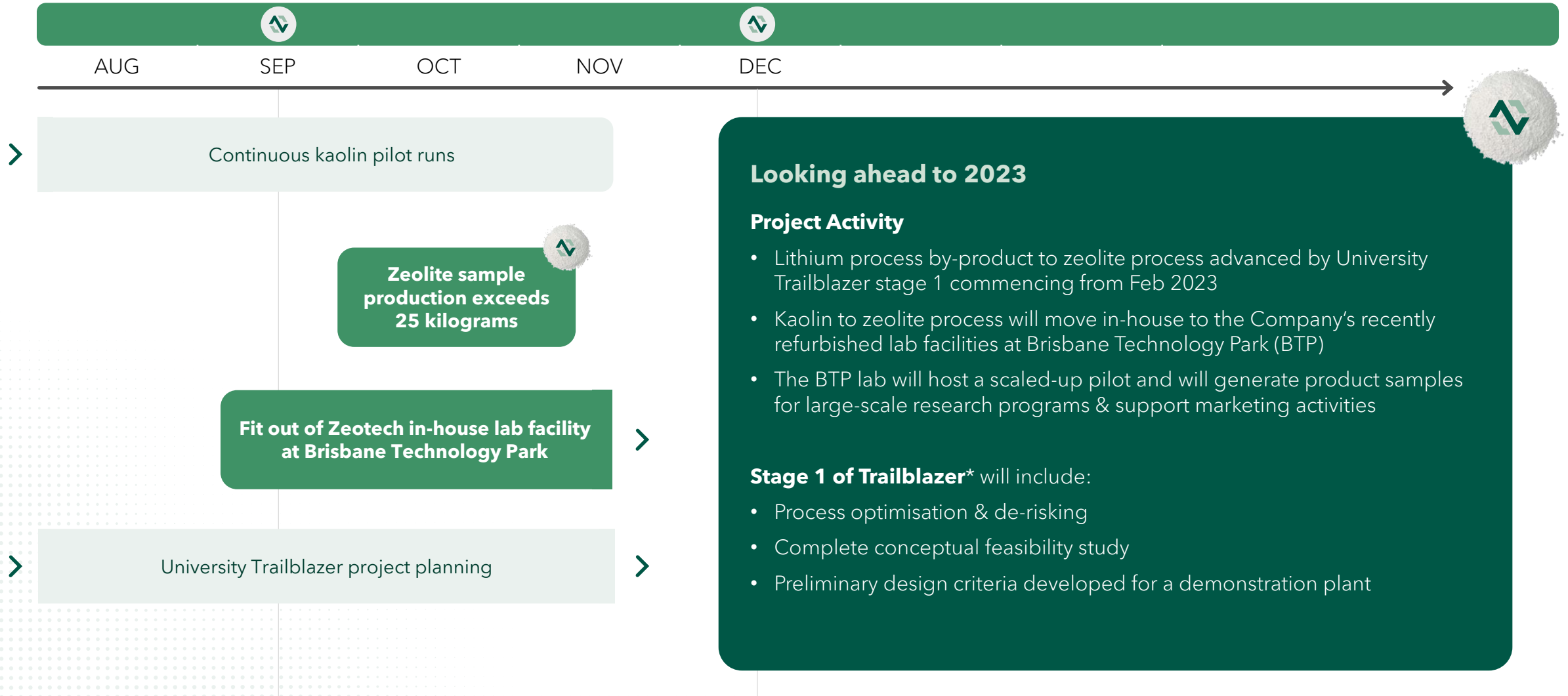


Integrated mineral processing technology company



*Aranca -Global Analysis 4A Detergent and 3A, 4A and 5A molecular sieves grade Nov 2020 (market data)

Technology to advance under parallel work streams



Lithium refinery circularity

Proprietary IP to convert lithium process by-product into Type A zeolites



Achievements from 2022

- Lithium process by-product (leached spodumene) to zeolite process demonstrated by multiple continuous closed-loop circuits.
- Lead industry partner in the successful Resources Technology & Critical Minerals Processing Trailblazer Grant Program together with UQ and Covalent Lithium
- Pilot program produces more than 4kg of zeolite product from lithium process by-product



Looking ahead to 2023

- Trailblazer stage 1 to commence from February 2023*
- Further process optimisation and de-risking
- Completion of a conceptual feasibility study
- Preliminary design criteria developed for a demonstration plant

* Awaiting formal Trailblazer Grant Program approval



Lithium Process By-Product
(image) Dr. John Vogrin

CO₂ Utilisation

**Hydrogenation of CO₂
utilising metal-based
zeolite catalysts**



Achievements from 2022

- Accepted as an industry partner in the ARC Industrial Transformation Training Centre for the Global Hydrogen Economy ("GlobH2E"), led by The University of New South Wales, securing circa \$350,000 in ARC grant funding over a 3-year project
- UQ recruitment of a Postdoctoral Research Fellow completed from more than 30 global applicants demonstrating strong interest in carbon utilisation technology



Looking ahead to 2023

- Detailed project planning and development of stage 1 comprising:
 - Setting up a continuous flow reactor for CO₂ hydrogenation
 - Modifying the manufactured zeolite materials to boost their active sites
 - Developing metal-based zeolite catalysts for hydrogenation of CO₂ to value added chemicals



Carbon Emissions
(image) Getty images

Developing Agri-soil Products

Improve fertiliser economics and enhance soil carbon



Achievements from 2022

- Commencement of core dual-stream nutrient management and carbon markets program at Griffith University
- Promising early results from soil carbon and nutrient retention trials. Treatments containing Zeotech products consistently exhibited higher organic matter/carbon content than controls
- Griffith carbon market scoping study finds manufactured zeolites have potential to contribute to GHG mitigation and identified seven opportunities for climate change - leading to methane emission control opportunity



Looking ahead to 2023

- Nutrient sorption and desorption optimisation and test results
- Results from the carbon incubation trials
- Soil carbon enhancement study and the potential for twinned organic and inorganic carbon sequestration by Zeotech products
- Agronomic nutrient delivery glasshouse validation trials



Zeotech Zeolite Beads
(image) Dr. Chris Pratt

Landfill methane control

Facilitate methane oxidation & contribute to climate change mitigation



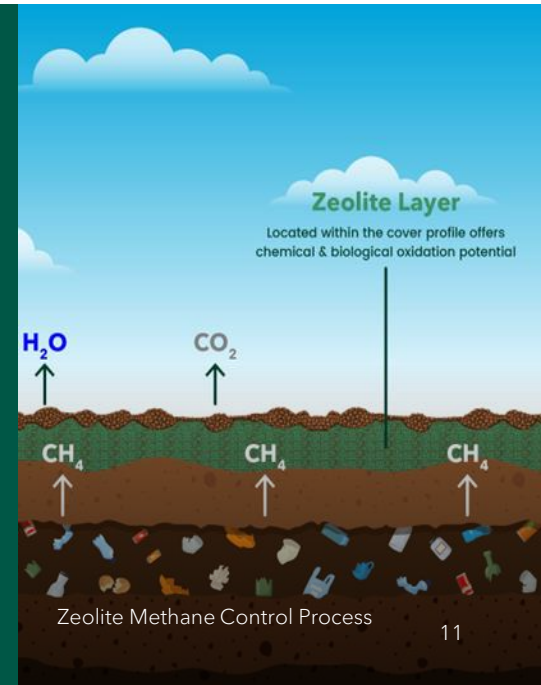
Achievements from 2022

- Establishing a 12-month multi-stage targeted research program to develop & validate the application of Zeotech products for controlling landfill methane emissions
- Program developed in collaboration with industry partner, Cleanaway, enabling access to active landfill sites for field validation
- Recruitment of Post-doctoral Research Fellow specifically for the program underway



Looking ahead to 2023

- Research program to commence from February 2023
- Stages 1 & 2 bench-scale studies, with successful outcomes leading to onsite landfill field trials
- The research will provide an opportunity to evaluate the potential for Zeotech products to be applied for methane emission control across diverse industries, such as mining & agriculture



Toondoon Kaolin Project

Optimal zeolite feedstock with near-term cashflow potential



Achievements from 2022

- Completion of Toondoon Project acquisition
- Early discussions with local third-party mining contractors, transportation and storage providers, with internal study covering proposed mining operations and logistics for FOB and CIF pricing
- Samples sent to separate diversified Indian mineral processing companies for analysis, followed by indicative DSO FOB and CIF pricing issued to Indian prospects Q3, with negotiations continuing



Looking ahead to 2023

- Traffic impact assessment to facilitate further discussions with NBRC and DTMR.
- Mine planning, pit design, environmental authority and cultural heritage planning
- Engage international marketing agent and develop Asia & European markets
- Expand opportunities within India, utilising TIQ and Indian RM's network



Toondoon kaolin

Investment Proposition



ESG positive company

An emerging mineral processing technology company, with a portfolio of exciting projects targeting circularity and sustainability, all utilising advanced materials 'manufactured zeolites'



Sustainable proprietary process

Maximising green & sustainable processes for the production of manufactured zeolites = low energy use, reduced production time, high reagent recycling.



Patent-pending technology

The company's core technology – International Preliminary Examination Authority examiner (Australian Patent Office), expressed a view that all 26 claims in the PCT application are novel and inventive.



Agri-product development

Developing slow-release fertiliser inputs to improve efficiency, reduce nutrient pollution and protect/enhance soil carbon levels.



Climate change technology centric

Portfolio of projects targeting the reduction / mitigation of GHG emissions, including carbon sequestration, methane oxidation and carbon utilisation.



Integration and near-term cashflow

Approved Mining Lease provides exceptionally high-grade raw ore kaolin underpinning low-cost zeolite production and offering accelerated DSO revenue opportunity.

THANK YOU



Zeotech Limited

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