



25 March 2024

INVESTOR PRESENTATION

Dotz Nano Limited (ASX: **DTZ**, **Dotz** or the **Company**) provides the following, updated Investor Presentation for the information of shareholders in the Company, investors and other interested parties.

Copies of the Investor Presentation can also be downloaded from the Company's website.

-ENDS-

This announcement has been authorised for release by the Board of Dotz Nano Limited.

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About Dotz Nano Limited

Dotz Nano Limited (ASX: DTZ) is a nanotechnology company developing innovative climate and industrial nano-technologies.

The Company's primary focus is centered around ground-breaking carbon dioxide (CO₂) management technologies leading towards carbon-neutral future. The company's proprietary carbon-based solid sorbent, offering an efficient and sustainable approach, facilitating industrial deep decarbonization.

To learn more about Dotz, please visit the website via the following link: www.dotz.tech.

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Nanotechnology Powering Industry and Environment

Dotz Nano Limited [ASX:DTZ] **Corporate Deck**



March 2024

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Dotz at a glance.

- **VALIDATED PROPRIETARY TECHNOLOGIES**
- **ATTRACTIVE TARGETED MARKETS**
- **EXPERIENCED TEAM**
- STRATEGIC PARTNERSHIPS
- CLEAR GROWTH PATHWAYS





Partners & Supporters















Experienced leadership team with proven experience in leading growth and value.

EXECUTIVE TEAM



Sharon Malka

CEO



Liat Bar Ziv Alperovitz

CFO



Michael Shtein, Ph.D.

Founder, CTO



Shirley Shoshaney-Kleiner

CMO

BOARD OF DIRECTORS



Bernie Brookes

Chairman



Doron Eldar

Director



Kerry Harpaz

Director



Glenn Kelly

Director



Mitchell Board

Director



Destz.EARTH CO₂ Capture

An urgent problem

A large and growing market

Superior technology

The right time



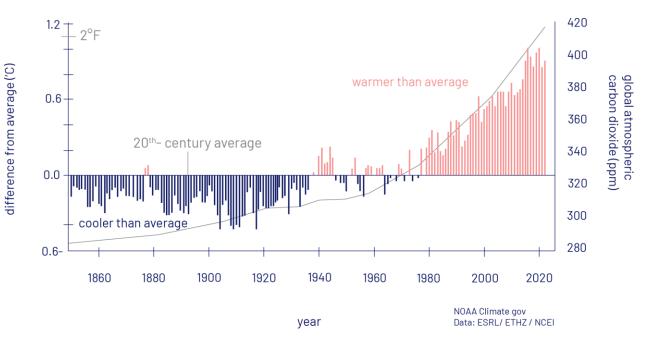
Fossil fuel increases CO_2 concentration in the atmosphere resulting in global warming and catastrophes....

Average global temperatures have already risen

1.2°C

due to increasing atmospheric CO₂ concentration

Yearly global surface temperarture and atmospheric carbon dioxide (1850-2022)

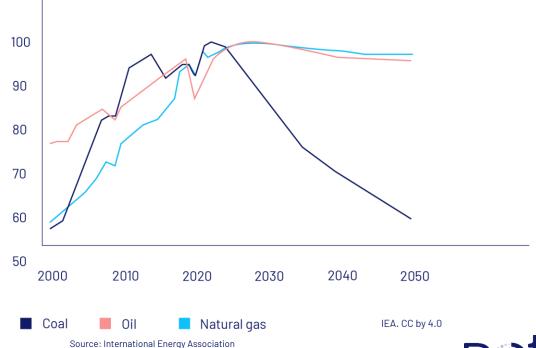


An urgent problem

...While remaining a key energy source for years to come, carbon capture plays pivotal role in energy transition.



Fossil fuel consumption by fuel in the STEPS, 2000-2050



A large and growing market

Energy combustion and industrial processes account for $\sim 65\%$ of global CO_2 emissions.

Annual CO₂ emission breakdown Other Buildings 6% 21% Transport 25% Industry

Source: International Energy Association, Net Zero by 2050

Target markets









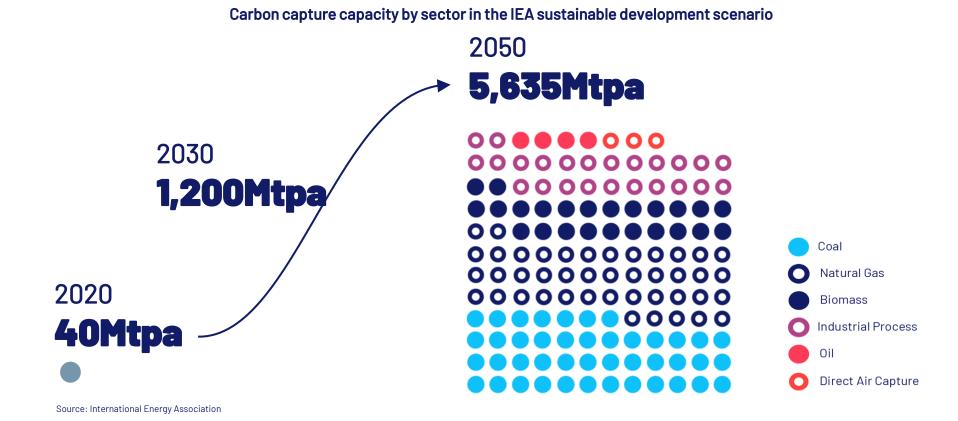




And more

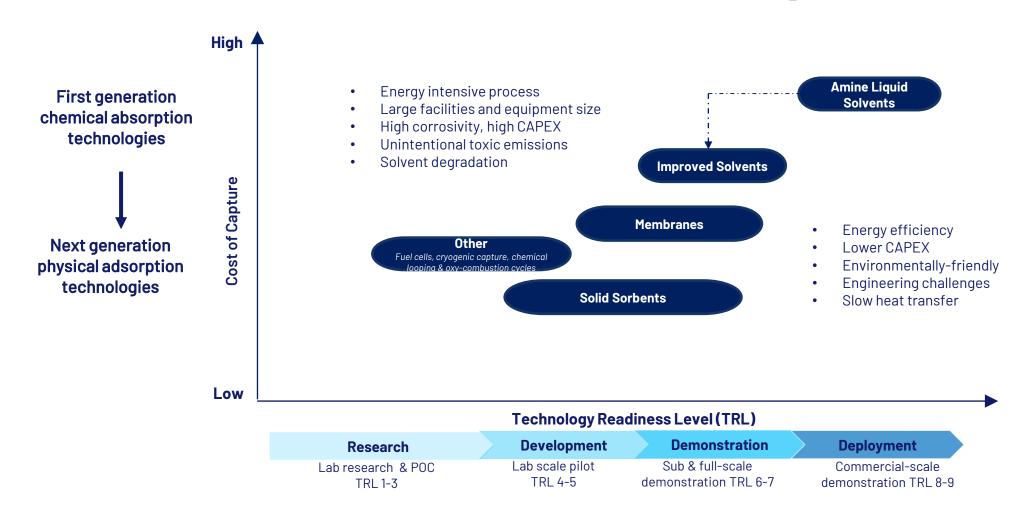


Carbon capture capacity must grow 140x from today to limit temperature rise to 1.5°C.

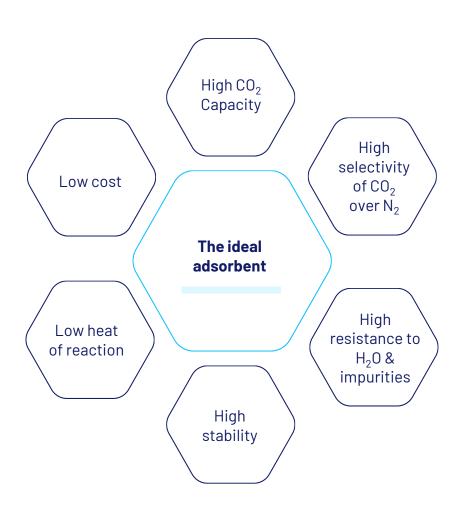




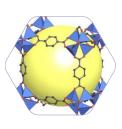
Energy efficiency, resistance to degradation and low cost, make solid sorbents ideal for carbon capture.



Porous carbon excels in cost-efficiency and resistance to impurities.

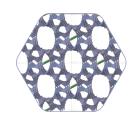


Metal organic frame-work



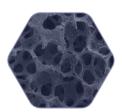
- CO₂ capacity
- Selectivity
- H₂O resistant
- Expensive

Zeolite



- CO₂ capacity
- Selectivity
- Regen. cost

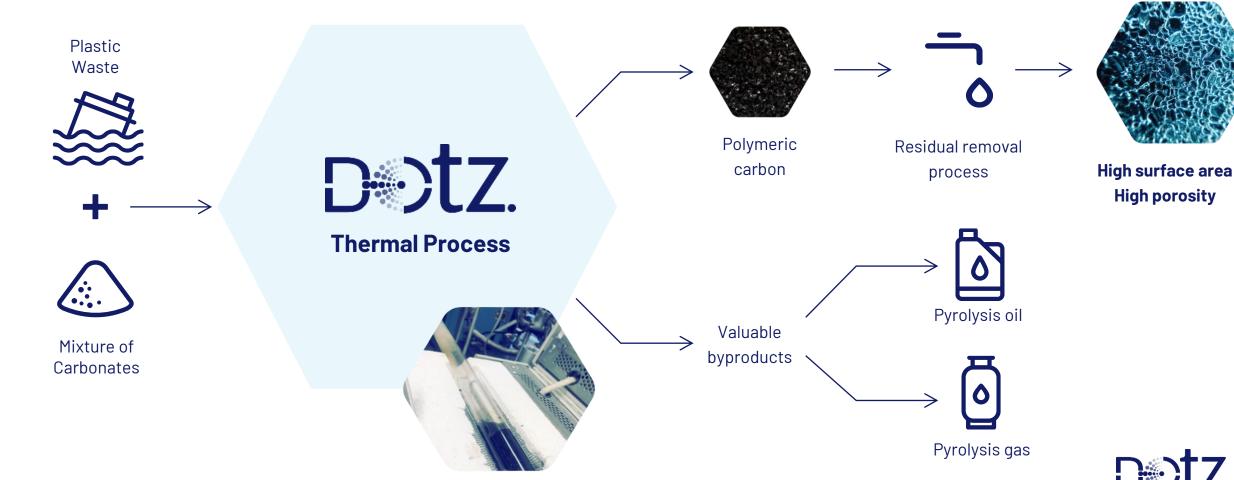
Porous Carbon



- CO₂ capacity
- Selectivity
- Resistive to impurities
- Inexpensive

Proprietary synthesis method for converting plastic waste to porous carbon sorbents.

Nano-porous **Carbon sorbent**



Superior technology

A new era of sorbents powered by nanotechnology enabling wide-scale, cost effective CO_2 capture.

NANO-POROUS CARBON SORBENT demonstrates enhanced performance and potential to drive down cost of carbon capture



3X higher adsorption capacity¹

Facilitated by unique structure & surface area



Higher CO₂ selectivity¹

& low moisture sensitivity



Lower energy penalty¹

Less energy is required for sorbent regenration



Regenerable and reusable

For multiple cyclic capture processes

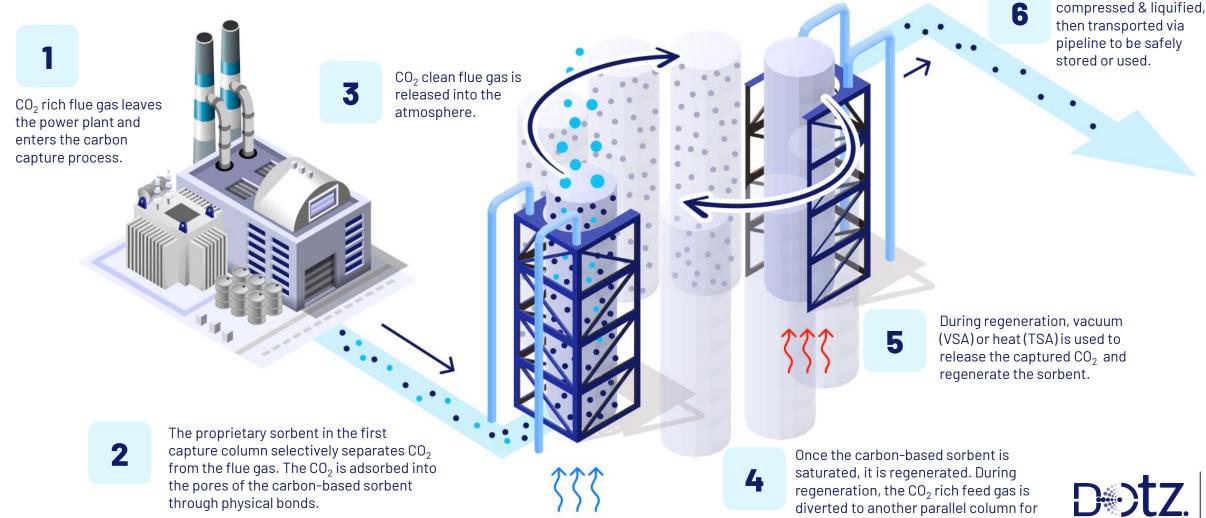


Tailorable surface properties

Compatible with diverse CO₂ sources

Simple, straightforward and modular process facilitates lower cost of capture and easy integration.

A pure stream of CO₂ is



continuous removal process.



Technology development roadmap: clear value creation development milestones.

2023

TRL 2 POC

✓ Technology Transfer

TRL 3 – lab validation

Bench-scale demo unit

2024

Objective: technology demonstration at lab scale

- **⊘** Sorbent validation
- **⊘** Process simulation

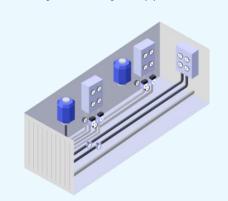


2025

TRL 4-5 – tech demonstration

Small-scale pilot unit

Design and manufacture a pilot unit designed to capture 1-2 TPD Objective: validate a technology for a given flue gas/application



2026

TRL 6-8 - tech demonstration

Industrial pilot unit

Design and manufacture an industrial unit designed to capture >10 TPD Objective: unit for small/med scale emitters / first step CCS implementation





2023

Sorbent optimization

Formulation and formation of the sorbent, scale-up and optimization

(1) The right time

2024 is a turning point in the fight against global warming with governmental incentives and regulation...

Australia, Europe, and the US push aggressive economic incentives to meet emission reduction targets.

Department of Energy

Biden-Harris Administration Announces Over \$2.3 Billion Investment To Cut U.S. Carbon Pollution

ELECTRIC POWER | ENERGY TRANSITION | LNG | NATURAL GAS | PETROCHEMICALS — 29 Mar 2022 | 15:50 UTG

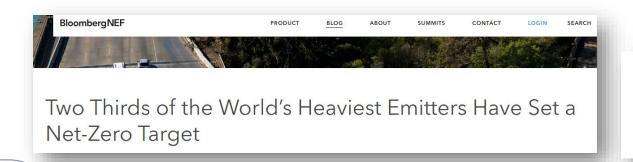
Australia assigns \$975 million for hydrogen, clean energy, CCUS in budget

European Union to provide €3 billion in funding to help CCS projects

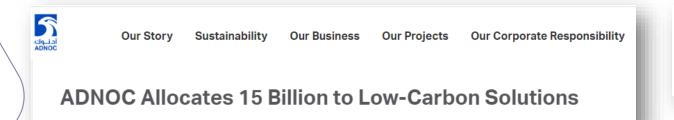
Some 300 million to 640 million tonnes per annum of carbon dioxide needs to be captured to meet emission targets

The right time

...while more and more companies accelerate their Net Zero strategies and targets.



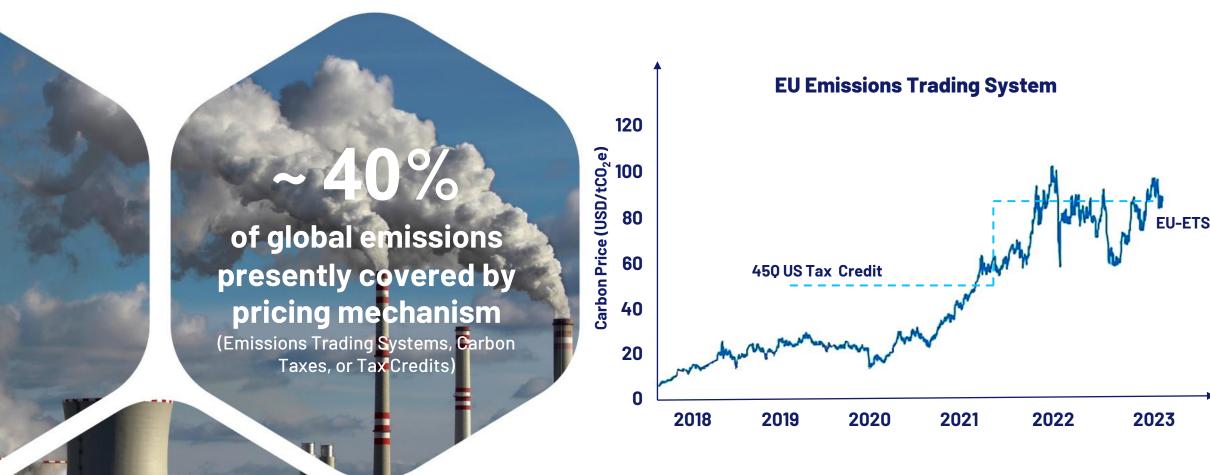
ExxonMobil announces ambition for net zero greenhouse gas emissions by 2050



Woodside Petroleum's \$5bn emerging energy investments

The right time

Carbon prices and pricing mechanism provides economic viability.





Large and growing market Attractive and focused industrial markets¹ with unmet need.

- Stricter environmental and social regulations
- Increased losses due to counterfeiting and parallel markets
- Product ownership validation becomes common
- The need to connect physical goods to the digital world



Advanced and validated authentication solutions for anticounterfeiting and monitoring.



VALIDOTZTM

- Dozens of optical taggants
- Embedded in the product
- Compatible with a range of hosting materials



INSPECTM

- Hand-held devices
- Easy-to-operate
- Real-time, on-site, information reading



INSIGHT

- Management platform IT
- Mobile app
- User-friendly presentation of the collected data

Dotz solution benefits:

In-field real-time
Detection & measurement

Compatible with a range of hosting materials

Simple, easy-to-use solution

Validated solution – various successful field trials

Multiple applications across range of industries

Value proposition addressing established industry challenges.

Anti-counterfeiting & anti-alteration

Authenticating bulk product in a robust way

Product liability & anti-dilution

Providing insight into how customers are using a product

Quality Assurance (QA)

A tool to monitor production and manufacturing processes

ESG validation & circular economy

Providing proof of origin and increase transparency along supply chains

In-field measurement

Allowing lab tests to be conducted in the field, saving on time and expenses

