

The Next Sustainable Cooling Technology

To achieve NetZero in refrigeration and cooling, the International Energy Agency estimates that 250 gigatons of CO₂ emissions need to be avoided by 2050.

It is estimated 30% of all power consumption in the world will be related to cooling by 2050.

For example:

- AI does not work if the computer chips are not cooled.
- Data centres do not work if they are not cooled.
- Google, Microsoft & Apple do not work if not cooled.



Patented deep-tech low carbon/zero carbon emission cooling technology with multiple applications:

Computer data centres

AI & Deep learning centres

Quantum computer cooling

Business & Domestic cooling

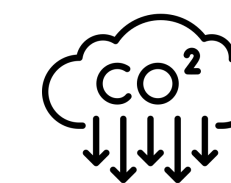
Commercial & Domestic refrigeration



Multi-Billion Market



Billions of £ saved



Billions of tonnes of CO₂ saved

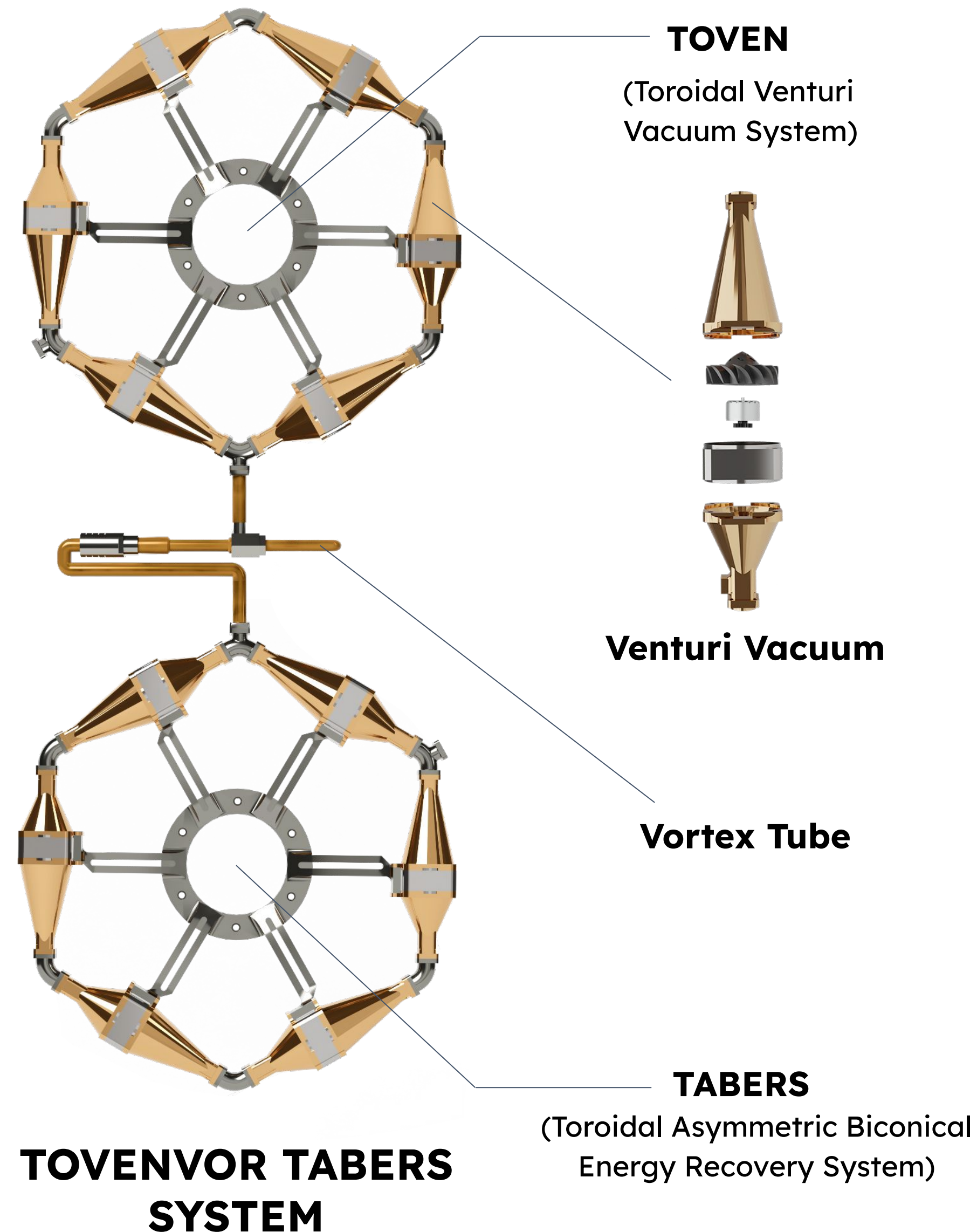
Innovation that cools and converts the rejected heat to energy. No refrigerant, no compressor. Patented, scalable, cost effective with a myriad of applications.

Deep Tech Unicorn

We dare you to prove us wrong.

The TOENVOR TABERS system introduces several groundbreaking innovations in cooling technology:

- **Refrigerant-Free Cooling:** Eliminates the need for harmful refrigerants, addressing environmental and health concerns associated with traditional cooling systems.
- **Energy Efficiency:** Utilises a toroidal venturi system and vortex tube to enhance cooling efficiency and reduce energy consumption significantly.
- **Energy Recovery:** The TABERS system converts waste heat into electricity, further improving the overall energy efficiency of the cooling process.
- **Scalability:** The technology is adaptable to various applications, from domestic refrigerators to large-scale industrial cooling systems.



Key Features:

Refrigerant-free cooling

Integrated energy recovery system

Energy-efficient design

Scalable applications from domestic to industrial use

Unitech Synergies Limited has developed a patented cooling system which does not use refrigerants, compressors or traditional cooling methods.

In TOENVOR, venturi vacuums were looped together which increased the energy efficiency of a venturi vacuum. The compressed air from the venturi vacuum is released into a vortex tube. A vortex tube has no moving parts and simply splits the incoming air into hot and cold streams. The cold air is returned to the system requiring cooling and the hot air is converted to electricity instead of simply being rejected.

In order to minimise risk and expedite adoption of the technology, Unitech is launching portable fridges and freezers via the COOLZE brand on Indiegogo. COOLZE products will not require any initial external grid power to operate as a solar panel will be used to initiate the process and then the system will cool and generate a slight excess from the thermal energy in air being converted to electricity, which will recharge a battery and power the fans.

The consumer avenue is a quick route to market and adoption of the technology minimising the commercial risk to the company and need to dilute equity or incur large debts for continuous R&D. It will also showcase the technology and prove its market readiness. A fridge is a fixed space. If this can be cooled, any space can be cooled. It is simply a matter of scale.



COOLZE portable fridge, with no messy ice cubes like traditional cool boxes.

How are we different from traditional cool boxes?

- ★ Fully recyclable materials
- ★ Durability and Reliability
- ★ Rapid Cooling Technology
- ★ Energy-Efficient Cooling Technology
- ★ Customizable RGB Lighting
- ★ Integrated Bluetooth Speaker
- ★ Durable and Stylish Outdoor Design
- ★ Smart Connectivity and Control

*For every 20 Coolze fridge sold, we will donate one fridge to UNICEF or other global charity.

Market Targets & Applications

Industrial and Office Buildings:

Providing scalable cooling solutions for large spaces.

Mobility Applications:

Offering portable and efficient cooling systems for vehicles and aircraft.

Data Centers:

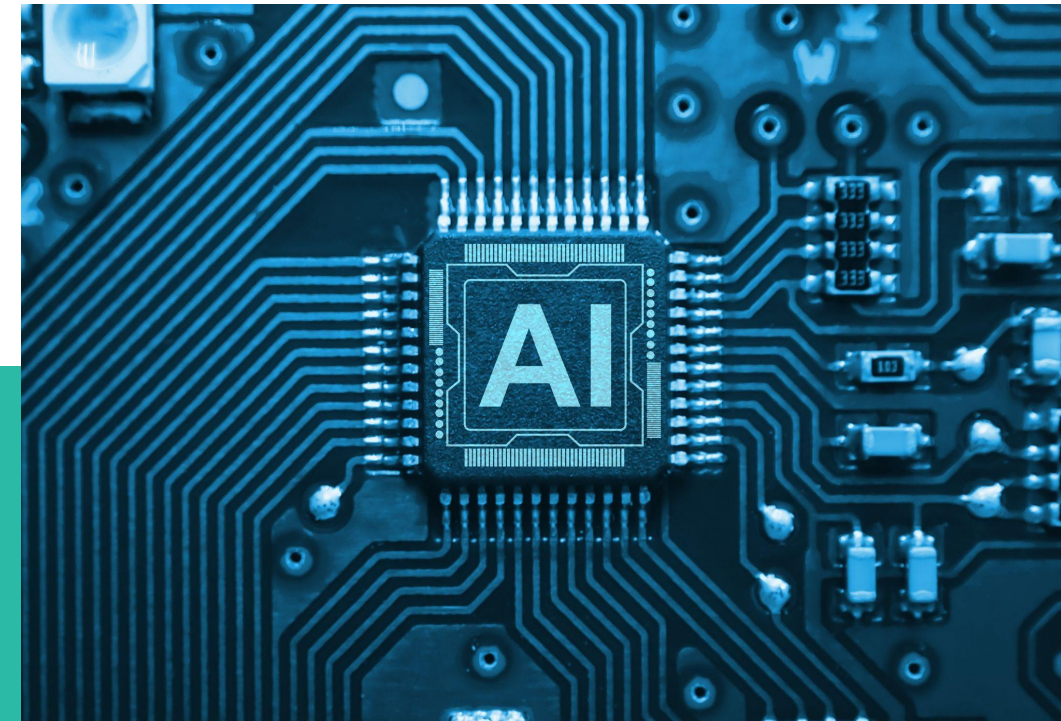
Reducing energy consumption and operational costs by utilising TOENVOR TABERS technology.

Domestic and Recreational Use:

Launching COOLZE, a zero-emission refrigerator and cooling device.

AI and Quantum Computing:

Ensuring efficient cooling for high-performance computing systems.



Market size

Global market with a total market size of

£250 billion (2024)

Carbon emission savings of

4.8 billion tons

A figure projected to surpass 12 billion tons by 2030.

- Customers such as Google, Amazon, Microsoft, Open AI will all be interested as it will help their progress to **NET ZERO**.
- Simple to retrofit.
- ROI within 18 months.



Business Model

Unitech operates on a B2B and B2C model, leveraging the commercialisation of its patented technology, TOVENVOR TABERS (Toroidal Venturi System and Toroidal Asymmetric Biconical Energy Recovery System). The core of Unitech's business model revolves around providing innovative cooling solutions that eliminate the need for traditional refrigerants, thereby addressing environmental and energy efficiency concerns. Unitech aims to serve various market segments including:

B2B Market:

- **Data Centres and Cloud Computing:** Providing cooling solutions that significantly reduce energy consumption and operational costs.
- **AI and Quantum Computing Companies:** Offering advanced cooling technologies crucial for maintaining optimal operating conditions of high-performance computing systems.
- **Industrial Cooling:** Targeting warehouses and office buildings with efficient cooling systems.
- **Mobility Cooling:** Supplying cooling solutions for vehicles, aircraft, and other mobile applications.

B2C Market:

- **Domestic Refrigeration:** Introducing COOLZE, a zero-emission cooling device targeted at households, particularly in developing countries.
- **Recreational Use:** Offering portable cooling devices for recreational purposes.

Product Development:

Development and commercialisation of TOVENVOR TABERS, beginning with the COOLZE refrigerator for the B2C market and scalable versions for B2B applications such as data centres.

Market Penetration:

Targeting key industries with high cooling demands, such as data centres, AI, and quantum computing, whilst also addressing the needs of the domestic and recreational cooling markets.

Unitech generates revenue through direct sales, licensing agreements, and collaborations with major companies in the cooling and refrigeration industries. The company also explores crowdfunding platforms such as Indiegogo to launch new products and raise initial capital.

Revenue Streams

1.

Product Sales

COOLZE: The COOLZE Crystal and COOLZE Traveller are designed for the consumer market, targeting individuals seeking zero-emission and lower-cost cooling solutions. Revenue will be generated through:

- **Direct Sales:** Initial sales via Indiegogo campaigns in the US, UK, EU, and Japan.
- **Online Retail Partnerships:** Distribution through major retailers such as Walmart, Tesco, Sainsbury's, and Amazon.
- **Global Sales:** Expansion into developing countries with a simplified version of COOLZE at an affordable price point, potentially supported by UN funding.

2.

B2B & Commercial Markets

Industrial and Office Cooling: Targeting businesses requiring efficient and environmentally friendly cooling solutions.

- **Direct Sales:** Providing bespoke cooling systems to large corporations and industrial clients.
- **Service and Maintenance:** Establishing ongoing service agreements to maintain optimal performance and efficiency of the cooling systems.
- **Data Centres:** Developing a larger, simplified version of the TOENVOR technology specifically for data centres.

3.

Energy Generation

Energy Recovery: Utilising the hot air generated by the TOENVOR TABERS system to produce electricity.

- **Micro-Generation Units:** Offering small-scale electricity generation units for residential and commercial use.
- **Energy Sales:** Selling excess generated electricity back to the grid or directly to consumers and businesses.

4.

Licensing and Technology Transfer

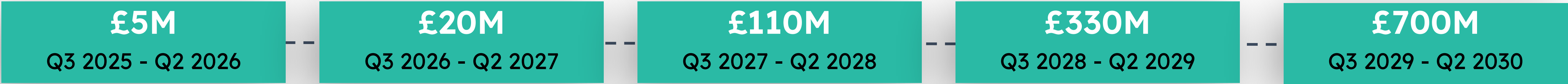
Refrigeration and Air Conditioning: Licensing TOENVOR TABERS technology to major manufacturers in the refrigeration and air conditioning industries, such as Mitsubishi, Hitachi, and Samsung.

- **Fridge and Freezer Manufacturers:** Partnering with companies to integrate the technology into new products.
- **Air Conditioning Manufacturers:** Entering into licensing agreements with global air conditioning market players like Daikin and Samsung.

Financial Plan



Revenue Projections:



Sales Channels

Go Market :

Data Centres and Cloud Computing, AI and Quantum Computing, Industrial Cooling.

Targeting technology giants such as Google, Microsoft, Apple, etc...








Direct Sales:

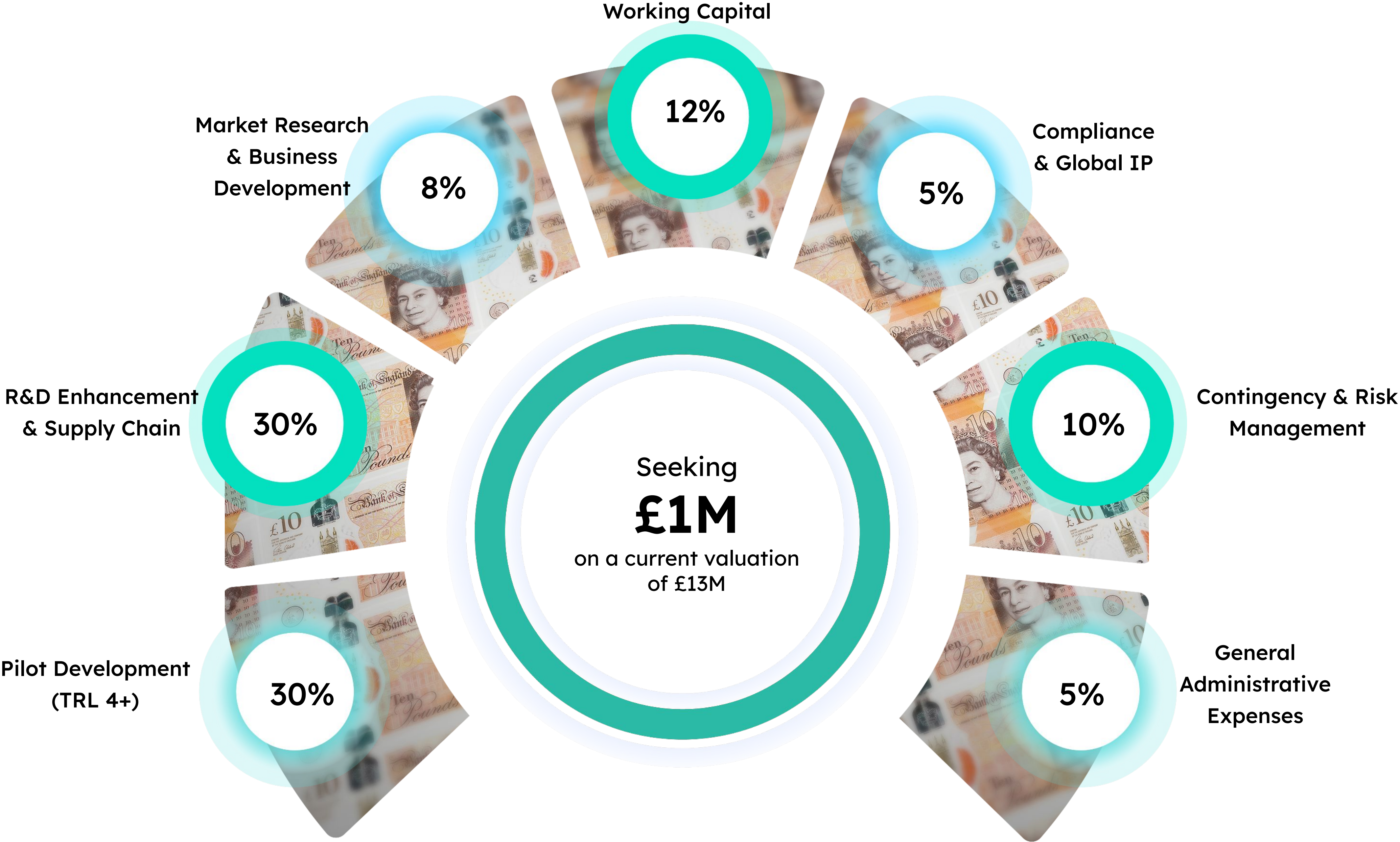
Engage with B2B customers such as Walmart, Tesco, Amazon, and others.

Licensing:

Collaborate with major manufacturers (e.g., Mitsubishi, Hitachi, Samsung) for broader market penetration.



The Ask





Beecham Koonjah

CEO, Director

As the Chief Executive Officer and a Director, Beecham oversees the overall management and operational strategy of TOVENVOR. His extensive experience in law, compliance, risks, operations and the energy sector equips him to navigate regulatory landscapes and ensure compliance with industry standards.

Beecham is also instrumental in business development, driving market entry strategies, and fostering relationships with key stakeholders.

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Overall, Unitech's **TOVENVOR TABERS** technology represents a paradigm shift in cooling solutions, offering a **sustainable**, **efficient**, and **scalable** alternative to traditional cooling systems.

Thank You

