

Coomtech Limited

Low Carbon Technologies



*To achieve global warming goals we **must** implement **practical** ways to **immediately** reduce the impact of the industrial sector **today**, whilst we find better ways to secure the future.*

-We cannot side step this problem.



Enabling the drive
to **Net Zero**

Investment Teaser

Funding Round £3M –Q2 2021

Disclaimer

This document contains information and assessments: It constitutes neither an investment advice, any investment services nor the invitation to make offers or any declaration of intent.

A decision upon an investment or the acquisition of a product shall be made by applying the relevant prospectus as well as the sales documents in consideration of the respective risks as well as tax and accounting.

The validity of the information provided is limited to the date of the preparation of this medium and may change in course of your objectives or in course for other reasons. The source of information is reliable; however, we cannot guarantee the validity and the actuality of the provided information.

Historical information cannot be understood as a guarantee for future earnings.

Predictions concerning future developments only represent forecasts.

Investment opportunity

Coomtech offers an exciting 27X* return on investment opportunity, in a global cleantech innovation

The business saves its customers 75% in energy costs and emissions, through easy implementation of its patented industrial materials drying technology; ***'Coomtech enabled'***

£3m investment is being sought to support the sales growth; building upon the experienced management team and widening the focus into more markets and geographies

With initial customers, the business model is highly cash generative, based upon sale/license plus 10yr+ recurring revenue contracts, with high margins – new build plants & upgrades

The addressable market is in excess of \$75bn and growing

**35X
return**

**75%
energy
saving**

**\$75bn
market**

*Based upon forecasts which may change

Business opportunity

We are all surrounded by infrastructure built with materials needed to be dried before use: cement, sands, minerals and many more

Current technology is based upon a 100 year old design that is energy inefficient and polluting

These cornerstone industries, our customers, are taking action to reduce energy use and emissions, as driven by their clients, shareholders and governments

Benefits to the customer are compelling:

- c. 75% costs and emissions reductions
- Easy to use and to integrate
- Enables use of new materials
- Available now

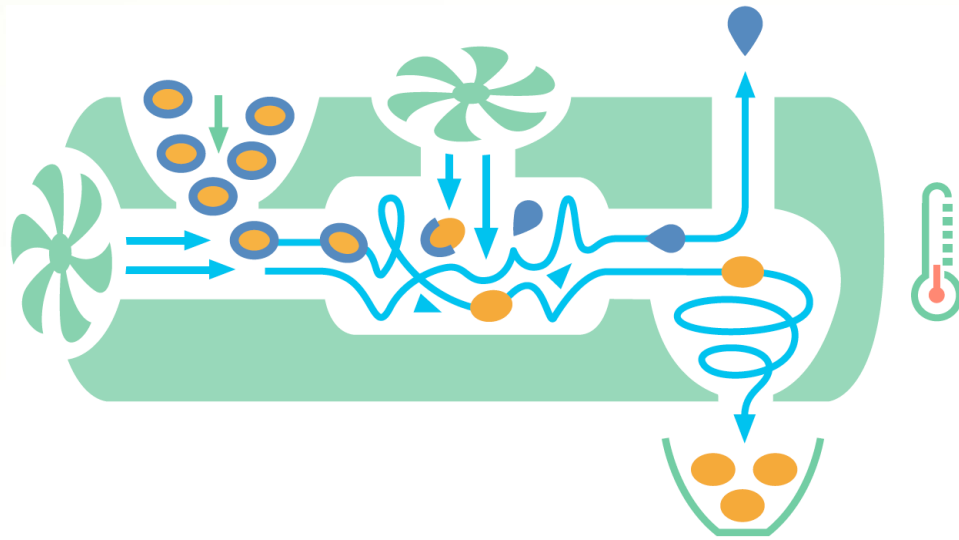
Order sizes range from entry level at £700k to £15m+ at production scale, with significant & high margin
10+ year recurring revenue contracts.



Low carbon drying system

The Magic

The Coomtech patented innovation leverages the forces of nature in a more efficient way



Material is fed into the system, into a flow of warm air

As the material is blown through the system, (0.7 seconds) the flow enters drying sections, where managed turbulent air is injected, physically stripping the moisture from the particles of material (think Dyson hand dryer)

The moisture is then carried along as humidity in the warm air, which is then diverted at the end of the process

Note: The Coomtech process only need to heat the air to around 85°C to carry the moisture, compared to c.600°C used in current systems (thermal dryers) as required to aggressively vaporise moisture.

Commercialisation strategy

As a technology company we will evolve our strategy from being an equipment provider to a licensor of innovative technology to equipment manufacturers

1. In order to gain initial market traction and visibility/credibility, we have to be the seller of the drying systems to customers
2. Once we have this traction, plant build companies such as ThyssenKrupp will design and build plants with the Coomtech system *inside*: Coomtech then provides only the core 'cartridges'
3. Finally, we will license our technology to equipment manufactures, such as ThyssenKrupp, Kawasaki, Siemens etc. Focussing on innovation of new products/markets

Our financial modelling demonstrates that a business operating as per stage 1 above would provide a very viable investment case, resulting in the 35X returns stated. Moving up the stages would further enrich this investment.

When customers buy

A. New plant construction:

- Where new plants are being built clients are looking for latest and most efficient technology. Though costs is still the primary driver, emission are becoming of greater importance to the customer, their customers and shareholders
- Where the Coomtech process allows clients to enter new market segments, previously not economically viable with current technology

B. Plant expansion:

- Similar to new build plants, where plant expansion is required, the Coomtech system is easy to integrate, highly flexible, and offers the lowest costs and emissions operation

C. Plant upgrade:

- Plants have an overall and sectional life cycle. During the period of operation, sections of a plant will be upgraded over time, either due to wear or operational efficiency. As the operating costs of the drying section are so high using traditional technology, upgrading to the Coomtech system, being 75% cheaper to run, is a viable business decision
- The reduced emissions factor is becoming a more compelling influence

Case studies

Material: Fly ash

Repurposing of the waste by-product from coal fired power stations for use in the cement mix. In the UK and many other countries, this waste material stands in large stockpiles where coal fired power station once operated.

Some 160m tonnes of stockpiled ash is available in the UK which amounts to over 40 years of materials supply for the UK.

- Plant size: 200kt pa
- Cost: £2.9m (we see a 20% margin)
- Annual revenue (10 yr. contract): £500k pa
- Material value pre repurposing: £5.00 pt
- Value post processing: £55 pt
- Cost to process: £12 pt

Material: Hydrogen extraction (zero emissions)

To satisfy the worlds rapidly growing demand for economical hydrogen (vehicles, electricity, industry etc.), one source material is lignite. A pilot programme is in development in Australia.

- Pilot Plant size: 32kt pa, cost: £750k
- Production Plant size: £15m+ (20% margin)
- Annuity revenue of c.£2.50* per tonne per annum
- Material value pre processing: £7.00 pt
- Hydrogen value: £1,500 pt**
- Processing costs: TBC c. 15%

Carbon capture is used to zero the emissions.

* We expect the per tonne charge to be lower for very large plants TBC

**<https://www.rechargenews.com/transition/green-hydrogen-on-sale-in-open-market-at-80-higher-price-than-grey-h2/2-1-743348>

Market data



Minerals



Global volume > 500M mtpa

Fuels



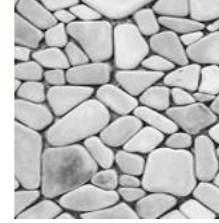
Global volume > 2,000M** mtpa

Sands



Global volume > 13,000M mtpa

Construction



Global volume > 5,000M mtpa

Food



Global volume > 400M mtpa

Hydrogen



Market size TBD
Est 20mtpa***

Number of plants (average)	2,000	8,000	52,000	20,000	3,200	80
Market Size: Plant + 10yr revenue	£ 17,500,000,000	£ 70,000,000,000	£ 455,000,000,000	£ 175,000,000,000	£ 28,000,000,000	£ 700,000,000
Assume 10% penetration	£ 1,750,000,000	£ 7,000,000,000	£ 45,500,000,000	£ 17,500,000,000	£ 2,800,000,000	TBD

Coomtech Assumptions based upon client interaction:

- Av Plant size in these markets = 250,000 mtpa
- Market value is the maximum value to Coomtech if it dried all material in the sector based on a licence fee of £2.50 per tonne dried

Current clients and key engagements

Order
2020

Australia/Japan – Hydrogen processing (£750k pilot*)

Order
2020

UK – Pharmaceutical manufacturing efficiency gains (Project plant)

LOI
2020

Global – Multiple – Order + Corporate Venture programme



New in
2021

UK – Recycling waste fly ash for use in cement, 50 years supply – new build

New in
2021

UK/EU - Drying GBFS for use in cement mix, multiple sites, upgrades + new builds

New in
2020

UK/EU – Waste limestone shavings to enable reuse in construction/cement

New in
2020

UK – Recycling waste fly ash for use in cement (£6.3m production)

New in
2020

UK– Recycling waste fly ash for use in cement (Pilot to £2.9m production)

New in
2020

India 1 – Bauxite waste drying from Aluminium production (£1m pilot)

New in
2020

India 2 – Lignite drying for emission reduction in power generation (£1m pilot*)



Note:*Production plant is £9.30m minimum

Tangible environmental value



A single Coomtech enabled processing plant* cuts CO2 emissions by the equivalent of **616,550 mature trees, per year**, over existing technology **and is cheaper**



Over the typical life of a processing plant (10 years) that equates to the equivalent of **6.6m mature trees**



A deciduous tree takes **35 years** to reach maturity, by which time a Coomtech enabled plant could save the equivalent CO2 as **22m trees**



“One Coomtech enabled plant would save the equivalent CO2 emissions as 22m mature trees”.

**500k t/pa plant*

Solid leadership

PHILIP JARVIS Chief Executive Officer

Philip joined the business in 2019 to take it forward through commercialisation to fully operational in the global market. From an exceptional background in Xerox Philip brings substantial executive leadership experience with deep understanding of early stage and high growth in various sectors including tech, tech enabled, medical devices, services, engineering, and public sector. Key impact areas are strategy, structure, marketing/sales and operations.

Non-Executive JON SCOTT MAXWELL Chairman and investor

30 years' experience managing international industrial businesses, most recently as Chief Executive of Delta plc. Since then he has guided several investments through the full cycle to successful exit. Jon provides strategic advice to the business and leads our board as its Chairman. Jon is a high net worth investor who has backed Coomtech during its R&D phase since 2015.

PETER ANDERSON Chief Operating Officer & Founder

30 years experience as a Director and MD of operating and manufacturing businesses including the roll out of major multi million pound projects in the automotive sector. Peter led projects at Britax Vega Limited increasing the company value from £5m to £30m and Strix increasing the company value from £50m to £70m. Peter leads all aspects of the Coomtech business.

CHRIS EVERY Commercial Director & Founder

Chris has held director and CEO roles at major blue chip corporates such as BAT, Unilever and Williams Holdings. More recently, Chris has been involved in cleantech start ups - including Brimac Environmental Services Ltd., where he led an acquisition from Tate & Lyle. He funded and sold Nviro Cleantech plc and then until recently was Non Exec Chairman and founder of AlgaeCytes Ltd., an algae based biopharma business from start up to commencing the build of a £20m+ production facility. He is also director of a mining and infrastructure fund.

JERRY BIGGS Non-Executive and Investor

Jerry is a Founding Director and CEO of NCL Technologies created in 2010 with an operating model developed specifically to address the commercialisation funding gap. Prior to experience includes CIO of Ashberg Ltd, Director of funds distribution for NTGI, Director at HSBC Securities and Director at BoS Investments. Jerry holds the IMC, IAQ and is an FCA Approved Person (CF1/CF30), he also Board positions on various tech SMEs.

GRAHAM HUTCHINS Chief Finance Officer

Graham is a professionally qualified Finance Director with over 30 years of experience. He has worked with large and small organisations. His experience includes start-ups (Innovate UK), system implementations (Vodafone), business process re-engineering and restructuring (FedEx), as well as mergers and acquisitions (Vodafone). His core experience includes providing commercial business partner support, running transaction processing centres, delivering financial plans and investment appraisals, and implementing good governance are core strands to his bow. He is currently the CFO at NCL Technology Ventures Ltd.

PAUL TAYLOR Group Engineering Director

Accomplished operations, project and engineering professional with over 30 years' experience in automotive, engineering and durable goods sectors. Paul has led the engineering improvements since 2016.

MIRI ZLATNAR Sales Director

An experienced commercial track record as both seller and buyer of fossil fuels in the international power industry, Miri also has experience as an expert witness in trading disputes and as an energy journalist and analyst for the EU

Summary

- ✓ Five year 35X return on investment
- ✓ Accelerating growth rate
- ✓ 10 year recurring revenue contracts
- ✓ Customers orders for 2021 delivery
- ✓ Compelling client benefits- cost and environmental
- ✓ Fully scalable model – uses 3rd party sub assemblies
- ✓ Proven & patented technology
- ✓ Experienced team

Seeking £3m equity investment

EIS qualified ('Knowledge Intensive' category)



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**75%
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