



Clean Heat Generator

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THE PROBLEM

Global Need for Clean
& Inexpensive Heat

£10+B UK market



OUR APPROACH

Rotation and
Magnetic Fields

Scalable Platforms



THE RESULTS

3 → 250+ kW
>> 95% Efficiency

Target £30+m Revenue

Illustrative Markets and Applications



Farms

- Off the mains gas grid, incurring 2x energy cost premium
- Adjacent to a river
- Harnesses hydro power to provide steady 25C **space heating** for horticultural and animal rearing



Wind Turbine OEM

- Face reduced sales through cost of providing grid connection
- Enhanced proposition to provide **rural heat**, bypassing need for expensive grid connection.
- 50% increased yield by replacing electrical subsystem with heat subsystem.



Chemical Plant

- Explosive operating environment
- Government carbon levies increasing costs.
- Requires 180+C **safe heat**.
- Adopts electrified heat solution consisting of motor coupled direct to Rotaheater.



Passenger vehicle

- Climate conditioning accelerates battery drain, reducing range.
- Operators keep vehicles on the road 18 hours/day.
- Clutch couples wheels and Rotaheater to generate **mobile heat** under controlled braking conditions, reducing battery drain.

Core Market

Extended Market

Lean Team Delivering Results

Robert Thompson (CEO)

ex-PwC Partner

Dr Andrew Tulloch (CTO, founder)

ex-Ploughshare Innovations CEO

Robert Beckham (Patent Attorney)

ex-DERA Head of IP

Advisors

ex-Rolls Royce, Emerson, and
Green Investment Bank

Innovate UK



Why Rotaheat?

Market Opportunity

- ✓ Displace the combustion of fuels for heat

Experienced Team

- ✓ Dedicated with strong commercial and technical expertise

Next Steps

- ✓ More reference sites and sales; strengthen B2B2C channels; scale up for light industrial markets

Projected Revenue

- ✓

2017	2018	2019	2020	2021
£73k	£0.5m	£3.4m	£10.2m	£23m @47%EBIT

The ASK

- ✓ Capital: £400+k now, £1.3m during 2019, £12m ABS