



Clean Heat Generator

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20 June 2019



Rotaheater® Pico and Micro



THE PROBLEM

Global Need for Clean
& Inexpensive Heat
£10+B UK market



OUR APPROACH

Rotation and
Magnetic Fields
> 97% Efficiency



THE MARKET

Heat required
3 → 250kW
> 100°C



OUR ASK

- 1) Reference sites
- 2) £500k Capital (Nov '19)



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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



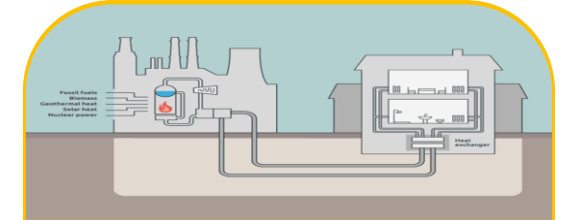
Wind Turbine OEM

- 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.



District / Multi-occupancy

- Localised communal heating to increase efficiency / lower costs.
- Electric motive drives Rotaheater to generate **community heat**, exploiting low/off-peak electricity costs.
- Increase grid flexibility and supplement CHP technologies.

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 M&A/Strategy

ex-Emerson CFO

ex-NED Green Investment Bank

Innovate UK





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