FLEET RENEWABLES

Experts in Technology Innovation

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RheEnergise Pumped Energy Storage

RheEnergise: Dramatically lowering the costs of pumped energy storage projects.

Lowest Embedded Levelised Cost of Storage

RheEnergise
Pumped Energy Storage

5 MW Typical Project *

Power	5 MW
Energy	12.5 MWh
Time to full power	< 1s
Life	> 60 years
Elevation between reservoirs	120m (70m min.)
Reservoir options	2 tanks ø 40m x 6.5m high 200m x 100m under car park
Cycling	Full depth, up to 4 x day
Cost	IRO £5m (£1m/MW installed)

- Anticipated scale range:
  On-grid 3MW/ 9MWh to 25MW/ 50MWh and Off-grid 1MW/ 4MWh to 3MW/ 18MWh

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Business and Investment

USPs	1/3 cost Lithium-Ion battery storage	**TRL**	4 - 5
	Full power <1s to hours (even days)	**Patents**	2# in drafting stage
	60% less head required than traditional pumped hydro storage	**Partners** (negotiations in progress)	4# in downstream supply chain. 1# upstream.
Business Model	Tech License & O&M	**Funding to date**	I-UK/ Founder Capital
Market	GIS Study underway. Initial indication 10's of thousands	**Revenue Model**	Under development

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Pumped Energy Storage

Business and Investment

Seeking	Strengthen Management Team	**Valuation**	IRO £2m post investment
	Scale Trial Site	**Spend**	Primarily construction scale test.
	Investor Interest		Wages & Overheads
Raise	IRO £300k SEIS Matched with £700k Grant One interested party - downstream		Patents Marketing
Timing of Raise	Q4 2018 to Q1 2019 **I.M.** Sept 2018	**Total Capital Requirement**	IRO £3m – £4m

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The Key to Energy Storage

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Thank You

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