

Wavepower Technologies Limited

Running order;

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 - Declan, James & Stuart
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Wavepower Technologies Limited

Who are we?

Who are we?

- Formed: July 2014
- Co-Founders: Adam Norris & David Rubie-Todd
- Privately financed during 2014, 2015 & 2016
- Commercially focused development
- Strong links with academia: UK, EU, USA
- 24 months research, market intelligence & 'lessons learned' – optimal starting point
- 2016: the real work begins....

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What do we do?

What do we do?

- Technology Developer
 - Process Developer
 - Commercial Developer
 - Pioneers
-
- Leverage and transfer: commercial themes, ideas and technologies from world class industries and environments.

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Strategy?

Strategy?

- 2016-2021
 - TRL 1 thro' TRL 9 (UK & EU/Ireland)
 - First commercial array deployment (UK & Ireland)
- 2021-2025
 - Multiple wave farm deployment
 - UK
 - EU
 - USA
- 2026 & beyond

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Big Ticket Issues

Big Ticket Issues?

- Technology selection – survivability, cost, supply chain, efficiency...
- Commercial opportunities & positioning – stand-alone, niche', co-habitation, partnering, export market readiness
- **Project Finance**
 - Bankability
 - Risk profile
 - Financial credibility
 - Stakeholder confidence
 - Clarity of exit conditions

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Exceedence

The journey within Wavepower

The journey within Wavepower;

- Engineers, Accountants, Senior Management: days, weeks, months creating bespoke excel spreadsheet models.
- Emotive & subjective – agreement difficult
- Variable standards & approaches
- Hours expended.....
- Cost.....
- Accuracy ?
- Confidence ?

The journey within Wavepower;

- >1200 man hours saved during July, August & September
- Engineers focused upon engineering!
- Project speed increased.....
- Lenders Technical Advisor support the strategy: Atkins/MottMac
- ERDF Structural Fund support the strategy: Brussels & WEFO
- Project Finance evaluation = positive: EIB/SIB/Soc Gen' & Arthur Cox
- Site Selection, Technology Alignment, Prospecting +++
- A foundation for future decisions

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Advantages & Benefits

Advantages & Benefits

- Confidence
- Consistency
- Accuracy
- Repeatability
- Flexibility
- Credibility
- Bankability.....

Project Summary

Main Project Details

Resource Details

Farm Technology	Wave	Country	United Kingdom
Final Farm Size (MW)	5.16	Location Name	WaveHub
Operating Years	25	Data Year(s)	2005 Wave
Pre-Development Years	5	Water Depth (m)	50
Decommissioning Years	1	Comments	<Comments>

Device Details

Renewable Technology	Wave				
Manufacturer	wp				
Device Name	wp				
Deployment Depth /Height (m)	From 20m To 60m				
Power Rating (kW)	516				
Capacity Factor (%)	26				

Farm Energy Output Results

GBP

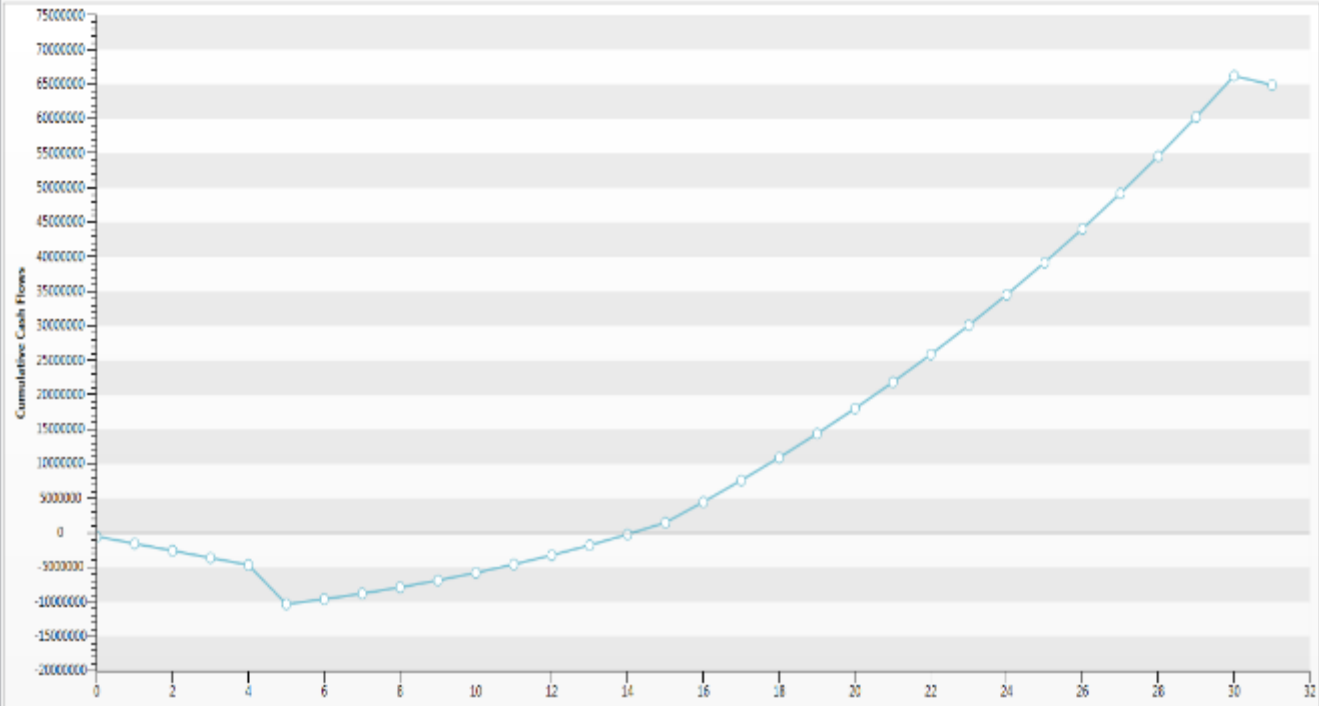
GBP/MW

Farm Annual Energy Production (MWh)	12,812	CAPEX	30,960,000	6,000,000
Farm Actual Energy Capture (MWh)	11,563	OPEX	928,800	4,500,000
Farm Annual Delivered Energy (MWh)	10,765	Salvage		
		Decommissioning	928,800	180,000

Total Revenue Rate GBP/MWh	480.00	Net Present Value GBP	26,897,466
Discount Rate (%)	8.00		
Inflation Rate (%)	2.50	IRR (%)	19.22 %
Debt/Equity Ratio	50.00 / 50.00		
Borrowing Rate (%)	2.00	LCOE (GBP/MWh)	570.74
Tax Rate (%)	20.00		

Show Cash Flow Chart and Table

View Chart | Cash Flow Sheet



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Future

Future

- Export market readiness
 - Commercial arrangements
 - Technology
 - Logistics
 - Supply Chain
- Global reach – based upon;
- Bankability built into all processes & procedures
- Financier & lender support
- Proven technology

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Q&A

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