

Invinity Energy Systems is a global manufacturer of proven vanadium flow batteries, a leading alternative to lithium-ion technology for the utility-scale energy storage market.

Built as a standardised product in a factory, these VFBs transform a technology proven for decades into a vital part of the energy transition. Invinity has deployed more product than any other company in our space, including the largest VFB systems in the U.S., Canada, Australia and the UK. These systems are unlocking low-cost, low-carbon renewable energy on demand, helping to improve energy security for our customers and accelerate global progress towards net zero.

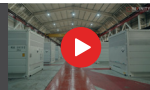


Shifting to renewable energy requires energy storage.

Lithium will not meet all future energy storage needs.

Invinity delivers the utility-grade alternative.

INVINITY CAPITAL MARKETS DAY HIGHLIGHTS 23 JULY 2024



Tickers	AIM: IES / AQSE: IES / OTCQX: IESVF
Markets	UK: London Stock Exchange (AIM) and AQSE Growth Market U.S.: OTCQX International
Market Cap	£55m (Nov 24)
Sector	Clean Tech, Energy Storage, Renewable Energy
Covering Analysts	Alex Brooks (Canaccord Genuity), Phil Smith (VSA), Adam Forsyth (Longspur)
Brokers	Canaccord Genuity, VSA Capital
Financial Year End	31 December



Significant Shareholders (> 3%)	% Holding
National Wealth Fund	24.67%
Schroders plc	18.54%
Premier Miton	4.30%
Janus Henderson	3.74%
Herald Investment Management	3.73%
Directors & Staff Total Holdings	2.19%

INVESTMENT PROPOSITION

- Revenue generative, leading global manufacturer of Vanadium Flow Batteries (VFB). A BloombergNEF Tier 1 energy storage supplier (the first non-lithium supplier) that is funded for growth, with no debt and strong global institutional shareholder base.
- Proven, modular flow battery technology supported by blue chip partners – 75 MWh deployed or contracted for delivery to date.
- Key partnerships include National Wealth Fund, California Energy Commission, U.S. Department of Energy, Siemens Gamesa, Everdura (Everbrite), EDF Renewables, Dawsongroup, Indian Energy, Hyosung, Ideona & STS and Scottish Water.
- Global operations and close to 1 GWh of annual production capacity – access to all major energy storage markets with a footprint in North America, Europe, Asia & Australasia.
- Total annual energy investment surges to \$5 trillion by 2030 [Source: IEA](#) – our proven alternative to lithium and our next-generation battery makes the Company well-placed to be a leader of large-scale, low-LCOS energy storage solutions.
- Sustainable Investment Opportunity – gain pure-play energy storage exposure to a cleantech leader at the forefront of the Net Zero energy transition.

OUR PRODUCT

Invinity's proven, modular vanadium flow batteries, the recently launched ENDURIUM™ and the VS3, are backed by 17+ years of R&D and serve the large scale energy storage requirements serve the energy storage requirements of commercial, industrial and utility-scale customers. The Company's patented technology is proven in commercial applications, is non-flammable, fully recyclable and does not contain conflict minerals. The key competitive advantage of Invinity's batteries is that they do not degrade with use like other battery technologies such as lithium-ion. This characteristic makes Invinity's batteries an ideal choice for deployment alongside low-carbon renewable generation.



SAFE

No fire risk - the electrolyte is a water-based solution



ECONOMICAL

Low cost per MWh on a Levelized Cost of Storage (LCOS) basis. Fully recyclable.



LONG LIFE

Unlimited daily cycles - over 20 years of continuous operation



PROVEN

Invinity's first grid-connected installations completed

CURRENT SALES PIPELINE (MWh)	Base	Advanced	Qualified Near Term ¹	Qualified Further Term ²
30 Nov 2023 (Year-End Business Update)	49.8	92.0	1,898.5	3790.7
17 June 2024 (2023 Annual Report)	45.8	446.5	2009.4	4122.2
% Change vs YE Business Update	-8%	+385%	+6%	+9%

¹Near term dates in the Qualified categories are where estimated delivery is within the next 24 months. ² Further Term reflects estimated deliveries that are beyond the next 24 months.

KEY CUSTOMERS & PROJECTS



CHAPPICE LAKE CANADA

8.4 MWh VFB collocated with 21 MWp PV

[> READ MORE](#)



ENERGY SUPERHUB OXFORD UK

5 MWh VFB, Transmission connected

[> READ MORE](#)



VIEJAS CASINO & RESORT CALIFORNIA US

10 MWh VFB collocated with 15 MWp PV

[> READ MORE](#)



SPENCER ENERGY AUSTRALIA

8 MWh VFB collocated with 6 MWp PV

[> READ MORE](#)

MARKET SEGMENTS Invinity targets three key customer groups directly across its core target geographies of the UK, North America and Australia and indirectly in non-core markets via its key reseller partners in Taiwan and Southeast Asia that maximises the Company's global reach. Some of Invinity's current customers and partners include:

Front of Meter



SIEMENS Gamesa
RENEWABLE ENERGY



Behind the Meter



Microgrids



THE OPPORTUNITY FOR OUR PRODUCT

Invinity's batteries are deployed into applications typically described as "high-throughput", where incumbent lithium-ion technology is not suitable due to durability, safety or end-of-life disposal concerns. These use cases include:

- **Solar, Wind & Tidal dispatch**
Making renewable power available on demand
- **Grid Support & Constraint Management**
Providing flexibility to constrained networks & delivering ancillary services (FFR, DR, FCAS etc.)
- **Energy Security**
24/7 energy resilience for critical operations

BOARD & EXECUTIVE



Neil O'Brien Chairman



Jonathan Marren CEO



Matt Harper CCO



Adam Howard CFO



Rajat Kohli SID



Michael Farrow NED



Kristina Peterson NED

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REQUEST A MEETING

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SYSTEMS DEPLOYED

75
MWh
DEPLOYED
OR CONTRACTED

82
SITES

15
COUNTRIES

5
CONTINENTS

81
PATENTS

17+
YEARS
R&D INVESTMENT