



Company & Product Overview

Simon Biancardi
Director Commercial Operations

PREPARED MAY 2026



Invinity Energy Systems (AIM:IES)

We deliver the world's **most proven, most mature** non-lithium energy storage:

- **Track record:** 2,000 batteries delivered / 8+ GWh dispatched
- **Global footprint:** Active in every major energy storage market
- **Local presence:** Regional manufacturing and support
- **Modular & scalable solutions:** Product offering from MWh to GWh scale
- **Publicly owned:** LSE-listed, 25% owned by UK National Wealth Fund

8+

GWH

Discharged from our fleet since 2022

96

PROJECTS

Across 17 countries on five continents

167

EMPLOYEES

The most experienced team in flow batteries

81

PATENTS

Granted or pending, plus trade secrets

15+

YEARS

R&D investment in product and manufacturing

The World's Most Proven Alternative to Lithium-Ion

Invinity delivers best-in-class technology performance:



Longer Life:
30+ Year Lifetime



More Economical:
Low LCOS



Configurable &
Scalable



Proven:
8+ GWh Dispatched

Invinity's technology holds fundamental advantages over Lithium Ion:



No Cycle-Driven
Degradation



Fast Response &
Accurate SoC



Easier Permitting:
Fire Safe & Quiet



99% Recyclable
Residual Value

CURRENT INVINITY PRODUCT RANGE

Avalon AFB3



- 2018
- Commercial prototype
- Limited deployment

redT Gen3



- 2018
- Commercial prototype
- Limited deployment

Invinity VS3 "Six-pack"™



- 2020
- 1st commercially successful VFB
- 2000 modules manufactured and sold to date
- Over 7.5 GWh dispatched in commercial operation

Endurium™



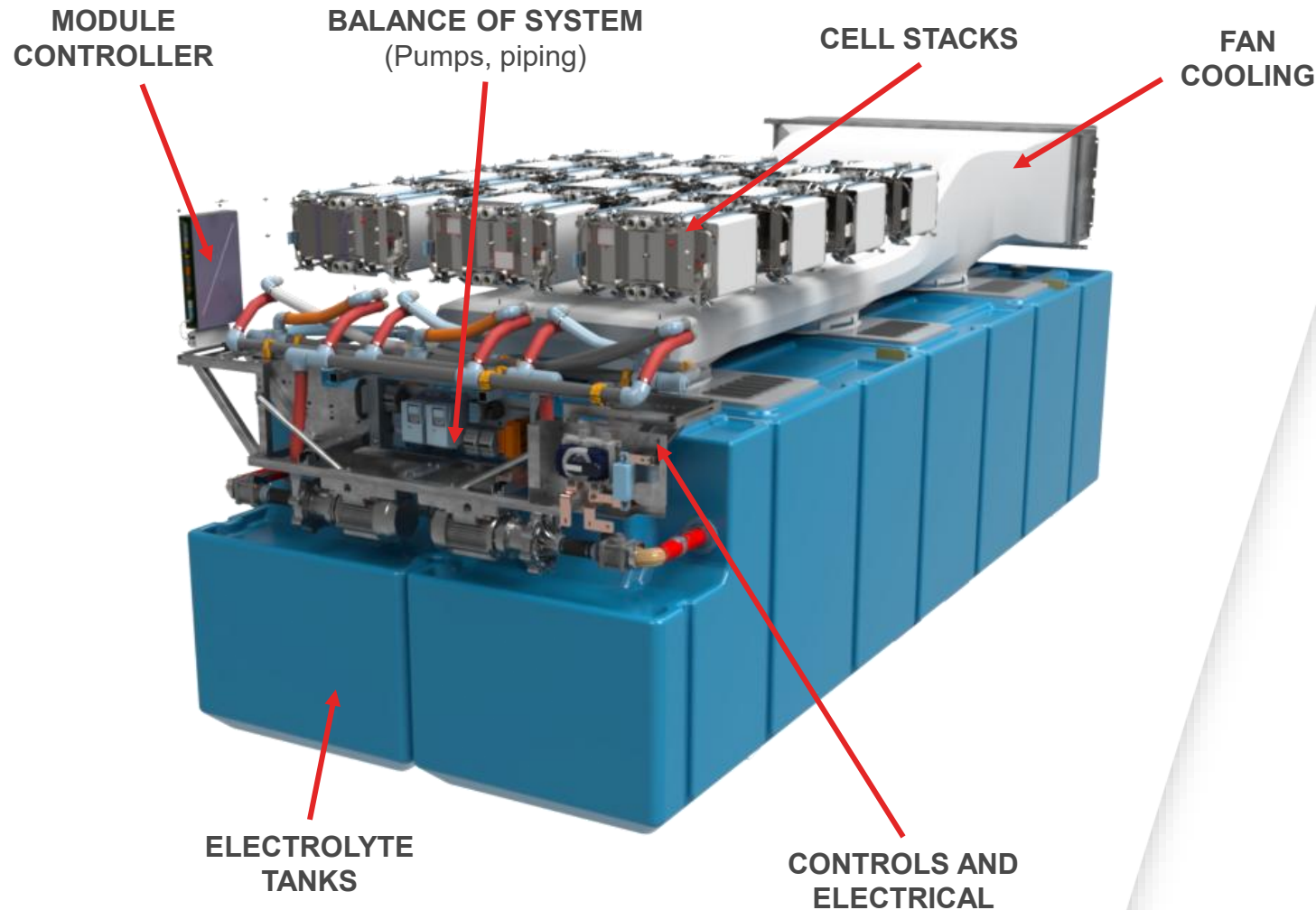
- 2024: Endurium
- Cost engineered evolution of VS3 product
- Optimised for large grid-scale projects
- Jointly developed with ABB
- GWh-scale projects in commercial pipeline



- 2025: Enterprise Configuration
- Optimised for Commercial & Industrial customer segment
- Developed in response to significant demand received from this sector

Inside a Vanadium Flow Battery (VFB)

Safe / Economical / Proven / 30+ Year Life



A COMPLETELY INTEGRATED VFB SOLUTION

❑ POWER STACKS

Sixth-generation stacks are backwards compatible and incorporate design and material improvements from across our fleet

❑ ELECTROLYTE

~70% water, non-flammable with no risk of thermal runaway with 97% proven vanadium recovery rate at end of life

❑ BATTERY MANAGEMENT SYSTEM

Developed in-house to ensure security against external threats; site-level controllers integrate to EMS via standard Modbus

Proven technology: Our 4th generation commercially deployed product.



<p>RATED POWER: CONTINUOUS</p> <p>1-250+ MW</p>	<p>ENERGY STORAGE: NOMINAL</p> <p>4-500+ MWh</p>	<p>ENERGY STORAGE: DURATION</p> <p>3-18 HOURS</p>
<p>LIFETIME:</p> <p>30+ YEARS</p>	<p>RECOMMENDED DEPTH OF DISCHARGE:</p> <p>100%</p>	<p>CYCLE LIFE: UNLIMITED</p>

ENDURIUM™

FOR LARGE COLOCATED & STANDALONE PROJECTS

Our proven technology optimised for projects of 12+ MWh, Endurium is the flexible alternative for any use case.

AVAILABLE CONFIGURATIONS

- 3-100+ MW Rated Power
- 12-500+ MWh Energy Storage
- 4-18 Hours Discharge Duration



ENDURIUM™ ENTERPRISE

FOR COMMERCIAL & INDUSTRIAL

Endurium Enterprise offers exceptional performance at smaller scale behind-the-meter.

AVAILABLE CONFIGURATIONS

- 1-20 MW Rated Power
- 4-80 MWh Energy Storage
- 3-18 Hours Discharge Duration



Challenges with Existing Li-Ion Options

LITHIUM ION OPERATIONAL CONSTRAINTS & COSTS

INVINITY PLANNING & OPERATIONAL ENHANCEMENTS

Operation

- Degradation limits performance and incurs costs
- Warranty conditions limit market adaptation

- Non-degrading chemistry
- Unlimited cycling and throughput

Siting

- Fire safety concerns stall planning permission
- Cooling system noise requires large set-backs

- Non-flammable
- Quieter than a PCS

Supply

- Long supply chains to overseas factories
- Expensive disposal and recycling

- Regional manufacturing, engineering and support
- 99% of components recyclable

The Invinity VFB Advantage:

- Superior economics in heavy-cycling applications like datacenters
- Easier permitting in jurisdictions with moratoriums on lithium ion systems
- Qualification for LDES programs with added points for regional content

Invinity Case Studies



Experience: Large Scale Projects

Invinity has been deploying grid and large scale C&I project of increasing size

Select List of Awarded & Deployed Projects

Project	Location	Deploy Date	Size	Project Partners
DOE Utility Pilot (US)	Confidential	2026	42 MWh	National Renewables Cooperative Organization, US DOE Office of Electricity
Invinity Copwood VFB Energy Hub	East Sussex, UK	2026	20 MWh	UK Department of Energy Security & Net Zero
Utility Pilot	Taiwan	2026	14 MWh	Everdura
DOE LDES Demonstrator	Washington, USA	2026	14 MWh	Department of Energy, Pacific Northwest National Laboratory (PNNL)
FOM Merchant	Hungary	2026	11 MWh	Confidential
Viejas Microgrid	California, USA	2024	10 MWh	California Energy Commission, Viejas Band of Kumeyaay Indians, Indian Energy
Rincon Microgrid	California, USA	2024	4 MWh	California Energy Commission, Rincon Band of Luiseño Indians, PowerFlex EDF Renewables
Spencer Energy	South Australia	2023	8 MWh	Yadlamalka Energy, ARENA
Chappice Lake Solar + Storage	Alberta, Canada	2023	8 MWh	Elemental Energy, Cold Lake First Nations, Emissions Reduction Alberta
Energy Superhub Oxford	Oxford, UK	2022	5 MWh	EDF Renewables, City of Oxford

Our track record of successfully partnering on winning proposals includes securing funding from:



Gamesa Electric V-iOn Project

ENDURIUM™

JOINT DEVELOPMENT OF NEXT-GEN GRID-SCALE VFB

- Renewables integration testing & validation for Endurium
- 1.2 MWh solar and wind-paired

“We believe the vanadium redox flow battery will be a key technology in order to achieve global decarbonisation goals, and the Endurium vanadium flow battery is the necessary utility-scale link for vanadium batteries to become part of this energy transition.”

Damian Perez de Larraya
Global Product Portfolio Manager, ABB Renewable Energy



Chappice Lake Solar + Storage

CANADA'S LARGEST VANADIUM FLOW BATTERY

- 8.4 MWh flow battery system + 21 MWp solar array
- Operating since Q4 2023 serving the daily needs of more than 7,000 Albertans

“Invinity’s energy storage systems take a good thing and makes it better. And that’s what we’re trying to do with renewable energy, take a good thing and make it better. Renewables often take heat for being intermittent, and batteries help. They’re going to enable greater integration and penetration of renewables across the world. Canada can be a leader, both in the technology development as well as the roll out and commercialization and execution.”

Jamie Houssian, Principal, Elemental Energy

MADE IN CANADA
OF DOMESTIC & IMPORTED PARTS



Copwood VFB Energy Hub

EUROPE'S LARGEST FLOW BATTERY INSTALLATION

- Invinity is constructing and will own & operate a 20.7 MWh solar-coupled LDES project in Uckfield, Southeast UK
- UK's first co-located LDES & solar project once operational
- Project financing includes a £10m grant from DESNZ
- Revenue streams will include grid balancing & trading
- Delivered H1 2026

90

VS3
MODULES

20.7

MWH
CAPACITY

3-18

HOURS
DISPATCH

3

MW SOLAR
PV



Pacific Northwest National Laboratory

ENDURIUM™

THE US' LARGEST VANADIUM FLOW BATTERY

- DOE-funded long duration energy storage demonstrator
- Project will validate up to 24-hour energy discharge, peak load reduction, and resilience applications



Endurium Render via UTU

12

MWH
CAPACITY

4-24

HOURS
DISPATCH

2026

DELIVERY IN
H2



U.S. DEPARTMENT
of ENERGY



Viejas Enterprise Microgrid

N. AMERICA'S LARGEST VANADIUM FLOW BATTERY

- 10 MWh AC-coupled with 15 MW PV / 10 hour off-grid resilience
- CEC-funded system commissioned Q1 2026

“Invinity is dedicated to its customers in meeting our needs for utility-scale energy storage.

Invinity is hyper-focused on high quality manufacturing of its battery storage technology. When it comes to quality, they will not waver – you will find in this industry that quality is not always the number one priority.

Invinity’s technology is commercially proven, safe, long lasting and economical.”

Dr. Craig Reiter, CSO & General Manager, Maada’oozh



Dr. Craig Reiter
CSO & General Manager / Maada'oozh



Spencer Energy Solar + Storage

THE WORLD'S LARGEST SOLAR-POWERED VFB

- 8 MWh Invinity Battery System + 6 MWp Solar PV
- Australia's largest flow battery / Operating since 2024

CONFIGURED FOR MULTIPLE SERVICES INCLUDING:



SOLAR SHIFTING



MORNING PRICE ARBITRAGE



FREQUENCY CONTROL (FCAS)



The **global market leader** in modular Vanadium Flow Battery technology. We deliver the **most proven, most mature LDES technology available** on the market today.



PROVEN AT SCALE

2,000 batteries delivered and operational, with over **8.0 GWh** dispatched to date for our customers, incl. multinational developers & utilities.



GLOBAL FOOTPRINT

Active in every major market – **Largest VFB projects in UK, EU, USA, Canada and Australia** all use Invinity technology.



STRATEGIC PARTNERSHIPS

Our global partnership network supports local content requirements and regional production capabilities. **We think globally but act locally.**



COMMERCIAL TRACTION

Our commercial opportunity pipeline covering every major energy storage market globally. Including **16.7 GWh of UK Government-backed projects.**



TRANSPARENT OWNERSHIP

Invinity is a UK public company, listed on the London Stock Exchange (**AIM:IES**). Major shareholders include **UK National Wealth Fund** and **Tier-1 British Institutional Investors.**



**GET MORE
BATTERY™**



INVINITY
ENERGY SYSTEMS