INVINITY ENERGY SYSTEMS

Company & Product Overview

PREPARED SEPTEMBER 2026



Energy Storage Without Limits

- We deliver **flexible energy storage without limits.** Utility-scale solutions built to solve the most critical challenges of the Age of Electricity.
- **Markets are changing**. Power demand is growing exponentially driven by the “electrification of everything” and explosive global growth across AI, AC and EVs.
- **Our global customer base are at the forefront of this change**. They include datacentres, energy intensive industries, network operators and governments around the world.
- **Proven mechanical technology** developed first in the **1880s,** advanced by **NASA in 1973** and **commercialised by Invinity in the 2020s**.
- **Power** and **energy** are separated—similar to pumped hydro.





VARIABLE DURATION

2-12 hour discharge durations to suit multiple use cases

UNLIMITED CYCLES

No degradation with use & unlimited cycles under warranty

FLEXIBLE OPERATION

Fast response & ramp capability across multiple operating modes

INHERENTLY SAFE

No risk of thermal runaway means faster planning & permitting

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Invinity Energy Systems

We are **a global leader in vanadium flow battery technology:**

- **Track record**: 2,000 batteries delivered / 10+ GWh dispatched
- **Global footprint:** Active across UK, EU, North American and APAC markets
- **Local presence:** Regional manufacturing options and support hubs
- **Modular & scalable solutions:** Product offering from MWh to GWh scale
- **Publicly owned:** LSE-listed, 25% owned by UK National Wealth Fund

10+
GWH
Discharged from our fleet since 2022

100
PROJECTS
Across 17 countries on five continents

190
EMPLOYEES
The most experienced team in flow batteries

83
PATENTS
Granted or pending, plus trade secrets

20+
YEARS
R&D investment in product and manufacturing



INVINITY ENERGY SYSTEMS

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Invinity's Global Customer Base

OPALCO
2 MWh VS3 / Washington



CHAPPICE LAKE
8.4 MWh VS3 / Alberta



PSG MOJAVE STEEL MILL (CEC)
32 MWh Endurium / California



IBEW
0.9 MWh VS3 / Michigan



ENERGY SUPERHUB OXFORD
5 MWh VS3 / Oxford



COPWOOD VFB ENERGY HUB
20.7 MWh VS3 / Sussex



HUNGARIAN PORTFOLIO
36.3 MWh VS3 & Endurium
/ Multiple Sites



KEPCO
1.5 MWh VS3 / Naju City



HITT CONVERGE
0.9 MWh VS3 / Virginia



PNNL (US DEPT OF ENERGY)
12 MWh Endurium / Washington



FLEXBASE TZL
1.5 GWh / Laufenburg



SOBOBA FIRE STATION (CEC)
0.5 MWh VS3 / California



DAIRYLAND (US DOE)
43 MWh Endurium
/ US Midwest



BAD RIVER TRIBE (US DOE)
2 MWh Endurium / Wisconsin



CHARLES MURGAT
3.5 MWh / Lyon



HORIZON POWER
0.3 MWh VS3 / Western Australia



SPENCER ENERGY
8 MWh VS3 / South Australia



V-ION, LA PLANA
1.2 MWh Endurium
/ Zaragoza



US MILITARY BASE
0.5 MWh VS3 / California



RINCON HARRAH'S (CEC)
4 MWh VS3 / California



VIEJAS MICROGRID (CEC)
10 MWh VS3 / California



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Invinity's Global Manufacturing Base & Partners

VANCOUVER
Design & Manufacturing



MOTHERWELL
Manufacturing





BATHGATE
Design & Manufacturing

SUZHOU BAOJIA
Manufacturing



INTERNATIONAL RESOURCES LIMITED
Strategic Partner / Hong Kong



UESNT
Strategic Partner / China





US MANUFACTURING
Coming Soon



VISTA, CA
Sales and Customer Support



LONDON
Sales & IR



ATRI ENERGY TRANSITION
Strategic Partner / India



EVERDURA
Strategic Partner / Taiwan

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Invinity's Customers



COLOCATED & STAND-ALONE

- Capture diverse revenue streams
- Optimise interconnections
- Maximise project NPV

COMMERCIAL & INDUSTRIAL

- Significantly reduce energy costs
- Maximise renewables
- Increased energy security

DATACENTRES

- Safe, reliable power
- Manage load fluctuations
- Optimise interconnections

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Technology & Product Overview



INVINITY
ENERGY SYSTEMS

The World's Most Proven Alternative to Lithium-Ion

INVINITY ENERGY SYSTEMS

Invinity delivers best-in-class technology performance:



Longer Life:
30+ Year Lifetime



More Economical:
Low LCOS



Configurable &
Scalable



Proven:
9+ GWh Dispatched

Invinity's technology holds fundamental advantages over Lithium Ion:



No Cycle-Driven
Degradation



Fast Response &
Accurate SoC



Easier Permitting:
Fire Safe & Quiet

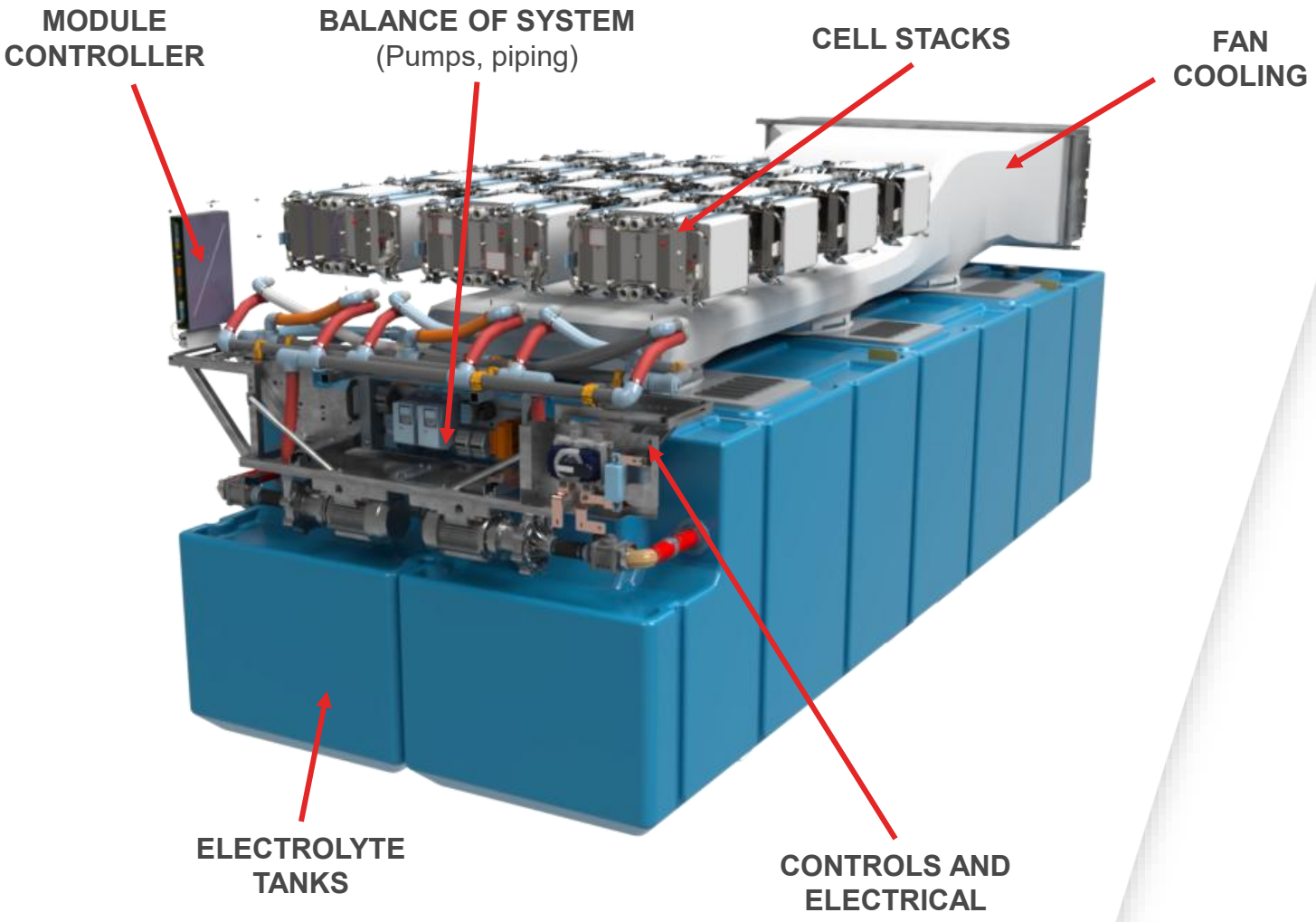


99% Recyclable
Residual Value

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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

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Invinity Endurium™

Proven technology: Our 4th generation commercially deployed product.



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

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Endurium™ Terminology and Scalability

Endurium String

- 4 x Modules and 1 String Control Unit (SCU)
- Each module is a factory-built vanadium flow battery
- Modules are stackable to increase energy density
- Power can be configured based on use case



Endurium Array

- Collection of 8-20 Strings with an Invinity Array Control
- ACU connected to 3rd Party PCS for charging and discharging
- Array layouts are standardised for EPC efficiency but can be customised to adapt to a site



Endurium BESS

- One or more Arrays and PCS aggregated together behind an interconnection or meter
- Controlled via an Invinity System Controller, with overall control by a 3rd party EMS
- Sizing and configuration based on the required use case and location



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Invinity Case Studies



INVINITY
ENERGY SYSTEMS

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
TLZ Laufenburg Design	Switzerland	2029	1.5+ GWh	FlexBase, Equans, Georg Fischer
Dairyland	Midwest, USA	2027	43 MWh	Dairyland Electric Cooperative, US DOE Office of Electricity
PSG Mojave Steel Mill	California, USA	2027	32 MWh	Pacific Steel Group, California Energy Commission
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:

U.S. DEPARTMENT of ENERGY

EMISSIONS REDUCTION ALBERTA 15

Department for Energy Security & Net Zero

STATE OF CALIFORNIA ENERGY COMMISSION

ARENA Australian Government Australian Renewable Energy Agency

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Technology Centre Laufenburg (TZL)

DESIGNING THE WORLD'S LARGEST FLOW BATTERY

- Invinity selected by FlexBase to design a 1.5 GWh VFB solution for Technology Centre Laufenburg
- The battery will support an AI datacentre and technology campus & provide support to the EU Grid Network
- Selection process assessed all major non-lithium battery manufacturers globally
- Engineering phase begun; fulfilment phase to commence 2027

1.5
GWH INITIAL CAPACITY

2.1
GWH PHASED EXPANSION

500
MW DATACENTRE

2027
ENGINEERING PHASE COMPLETION

"Invinity has proven to be the strongest partner by presenting the most compelling overall package with the lowest life-cycle costs (LCOS). Invinity's vanadium flow technology is perfectly suited for our project due to its safety–particularly its non-flammability–its cycle stability, and its flexibility in application."
Marcel Aumer
Group CEO, Chairman of the Board and Founder of FlexBase Group



INVINITY ENERGY SYSTEMS
FlexBase
EQUANS
+GF+ GEORG FISCHER PIPING SYSTEMS

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PSG Mojave Steel Mill

USA'S LARGEST FLOW BATTERY INSTALLATION

- Invinity has been contracted to deliver a 32 MWh Endurium VFB to Pacific Steel Group to their Mojave Micro Mill project
- The Mill, the first to be built in California in 50 years, will recycle 500,000 tons of scrap metal annually to produce sustainable, seismic-grade steel rebar for U.S. construction
- The battery is being supported with funding from the California Energy Commission
- Invinity will manufacture the VFBs at a new site to be launched in the USA

32
MWH CAPACITY

40
MWp SOLAR PV

USA
MANUFACTURING

2027
DELIVERIES COMMENCING



INVINITY ENERGY SYSTEMS

PSG PACIFIC STEEL GROUP

CALIFORNIA ENERGY COMMISSION

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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

20.7
MWH CAPACITY

3
MWp SOLAR PV

3-18
HOURS DISPATCH

2026
CONNECTION TO GB GRID



INVINITY ENERGY SYSTEMS

MADE IN BRITAIN

NATIONAL WEALTH FUND

Department for Energy Security & Net Zero

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Dairyland Power Cooperative

ENDURIUM™

INVINITY'S LARGEST DEAL IN THE USA

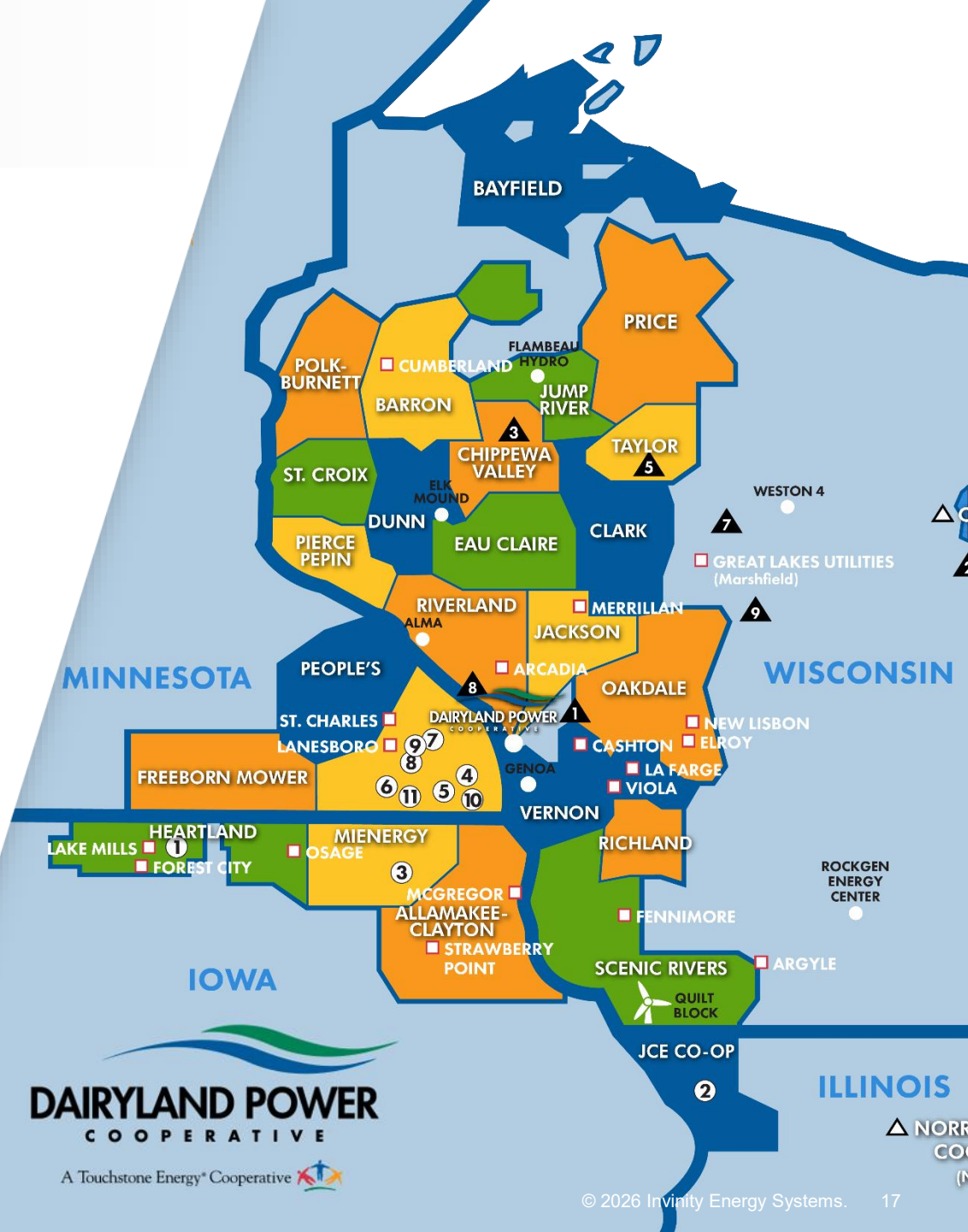
- Invinity has been contracted to deliver 43 MWh of Endurium VFBs to Dairyland Power Cooperative to be deployed across multiple sites in the U.S. Midwest
- The batteries will support grid resilience and reliability by providing long duration charge/discharge on demand
- The project is being supported with funding from the U.S. Department of Energy

43 MWH

GRID RESILIENCE AND RELIABILITY

USA MANUFACTURING

2027 DELIVERIES COMMENCING



INVINITY ENERGY SYSTEMS

DAIRYLAND POWER COOPERATIVE
A Touchstone Energy® Cooperative

U.S. DEPARTMENT of ENERGY

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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





INVINITY ENERGY SYSTEMS

VIEJAS
BAND OF KUMEYAAY INDIANS

INDIAN ENERGY LLC

STATE OF CALIFORNIA
ENERGY COMMISSION

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GET MORE BATTERY™

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