



Corporate Overview

JANUARY 2026



The world is facing an energy crisis

63%

of all global primary energy is wasted—representing loss of \$4.6tn p.a. or ~5% of global GDP.

- **Power quality issues cost India up to 2% of GDP annually.**
- **India's electricity demand is forecast to grow at almost double the global average through 2027.**
- **India has set a 411 GWh National storage requirement by 2032—to reduce renewable energy wastage and ensure grid stability.**



Global electricity demand is growing at a rapid and accelerating rate.



Global electricity networks are unable to keep up with the growth of renewable generation.



Historic under-investment in network infrastructure and over-reliance on fossil fuels has significantly increased energy prices and contributed to a global cost-of-living crisis.



Post-2024 Governments have made solving the energy crisis a key political priority globally.

The “Age of Electricity” requires **Long Duration Energy Storage** capacity to bolster existing network infrastructure and reduce wasted electricity.



Vanadium Flow Batteries have the power to unlock low-cost, low-carbon energy on-demand that will power global growth towards 2030 and beyond

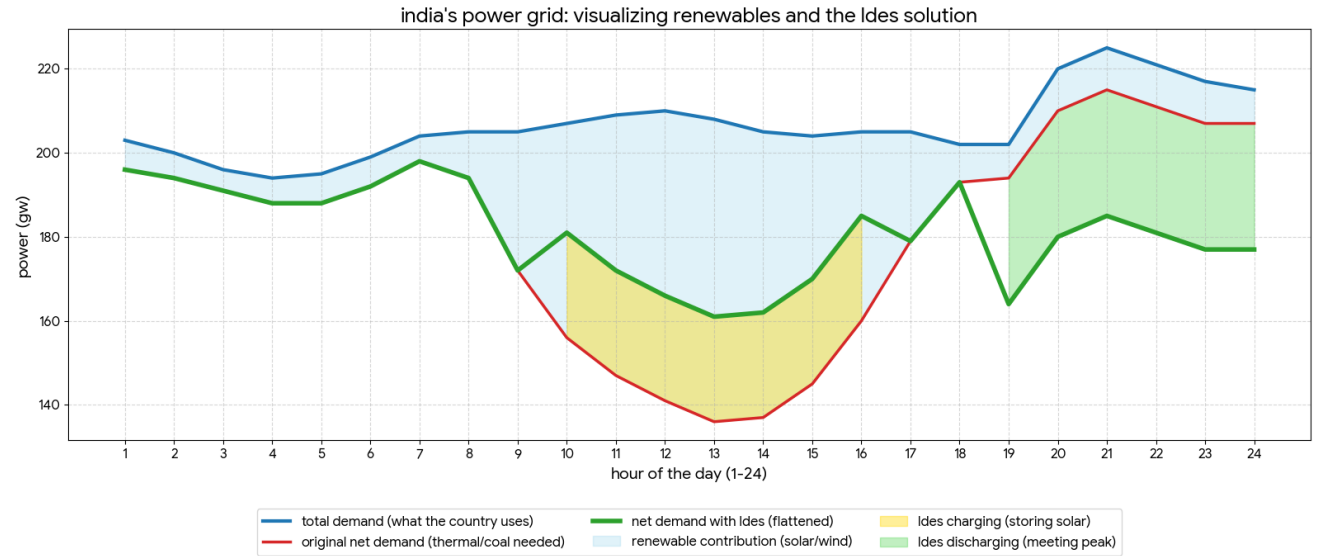
The Need for LDES in India

As solar capacity grows, **LDES provides a "buffer"** storing excess generation for use during peak demand periods.

- **The Gap:** Peak demand often occurs between 9 PM and 11 PM, driven by rising residential air conditioning loads.
- **The LDES Role:** Standard 2-hour batteries are only a "balancing tool" for short-term frequency. LDES is required to "time-shift" bulk solar energy from noon to the late-night peak, which is a 6- to 8-hour window that shorter batteries cannot bridge.

India currently **relies on coal for ~73% of its baseload power.**

- **Firming Renewables:** To move toward "Green RTC" (Round-the-Clock) power, renewables must become dispatchable.
- **Efficiency:** LDES allows existing coal plants to operate more efficiently by reducing the need for them to "cycle" (frequently start and stop) to manage solar fluctuations, which extends the life of these thermal assets.



Source: [Renewable Energy Integration in India: Present State and Long-Term Perspective](#), Invinity Analysis

Mandatory Time-of-Day tariffs for all consumers support the case for LDES, with peak-hour rates set 20% higher and solar-hour rates at least 20% lower.

- **Commercial Viability:** For industrial users, LDES can store energy during the cheap 8-hour solar window and discharge it during the expensive evening/night peak, potentially saving 40–45% on electricity costs.
- **Revenue Stacking:** LDES systems can "stack" multiple revenue streams by participating in energy arbitrage, frequency regulation, and ancillary services simultaneously

Why Choose Vanadium Flow Battery Technology?

ENDURIUM™ delivers best-in-class non-lithium LDES technology performance:



15 ms Response



**Reduced O&M
Streamlined Commissioning**



**Up to 100 MWh /
Acre**

Fundamental advantages of Invinity's VFB technology:



**Fire Safe
and Quiet**



**No Cycle-Driven
Degradation**



**Configurable and
Scalable**




99% Recyclable

Why Choose Invinity Energy Systems?

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 **7.7 GWh** dispatched to date for our customers, incl. multinational developers & utilities. Endurium jointly developed with: **ABB**  GamesaElectric



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 Sovereign Wealth Fund (National Wealth Fund)** and prominent international **Institutional Investors (~25% ownership from Indian Investors)**

In September 2025, Invinity was pleased to announce the establishment of a strategic partnership with Atri Energy Transition (Atri). Together, Invinity and Atri have entered the Indian market to offer high quality, domestically manufactured vanadium flow batteries for the first time.

Together, we are proud to offer the Indian market:

❑ WORLD-CLASS VANADIUM FLOW BATTERY TECHNOLOGY

Invinity have designed, developed and manufactured the most advanced and proven VFB technology globally.

❑ MADE IN INDIA MANUFACTURING

Alongside partners Atri, Invinity will establish an Indian manufacturing base to deliver a made in India product for the Indian market

❑ LOCAL SUPPORT AND ENGINEERING EXPERTISE

In-country support and engineering knowledge help to make your project a success.



Atri Energy Transition is a forward-looking energy company based in India with a clear and committed vision - to contribute towards a sustainable and dependable energy future.

After over two and a half decades in the infrastructure sector, specifically in thermal energy, Atri are now fully focused on Energy Transition, aligning with the global shift toward sustainability. Our goal is to develop and scale socially relevant and economically viable businesses in India and around the world. The company operates across 3 key verticals; Biofuels, Battery Storage and Urban Mobility

OUR CUSTOMERS



Invinity's Customers



UTILITIES & DEVELOPERS

- Energy services
- Wholesale market trading
- Enhancing renewables

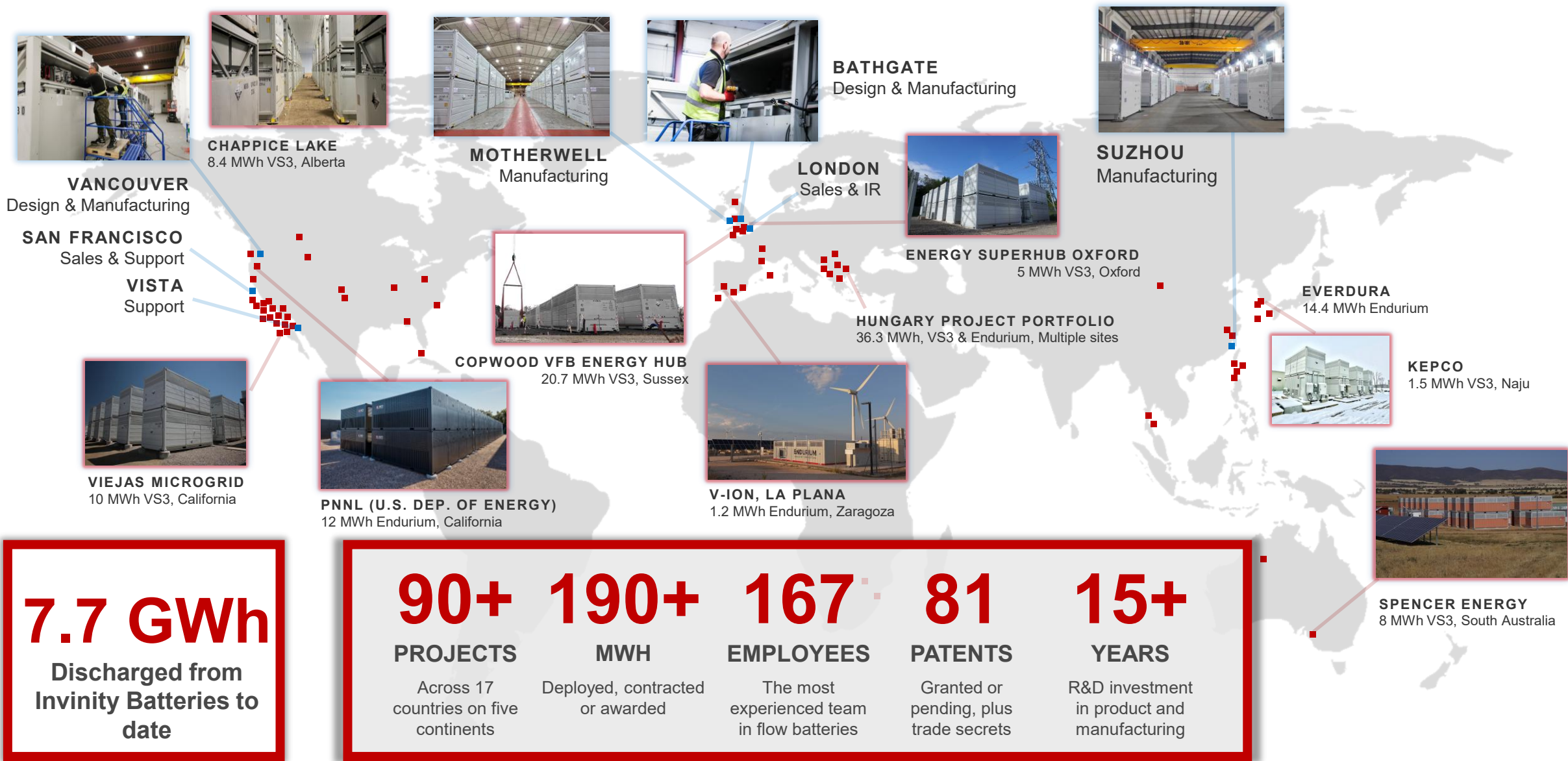
COMMERCIAL & INDUSTRIAL

- Energy cost savings
- Carbon emissions reduction
- Increased security

OFF GRID & MICROGRID

- Fuel cost reduction
- Firm renewable power
- Carbon emissions reduction

Global Footprint

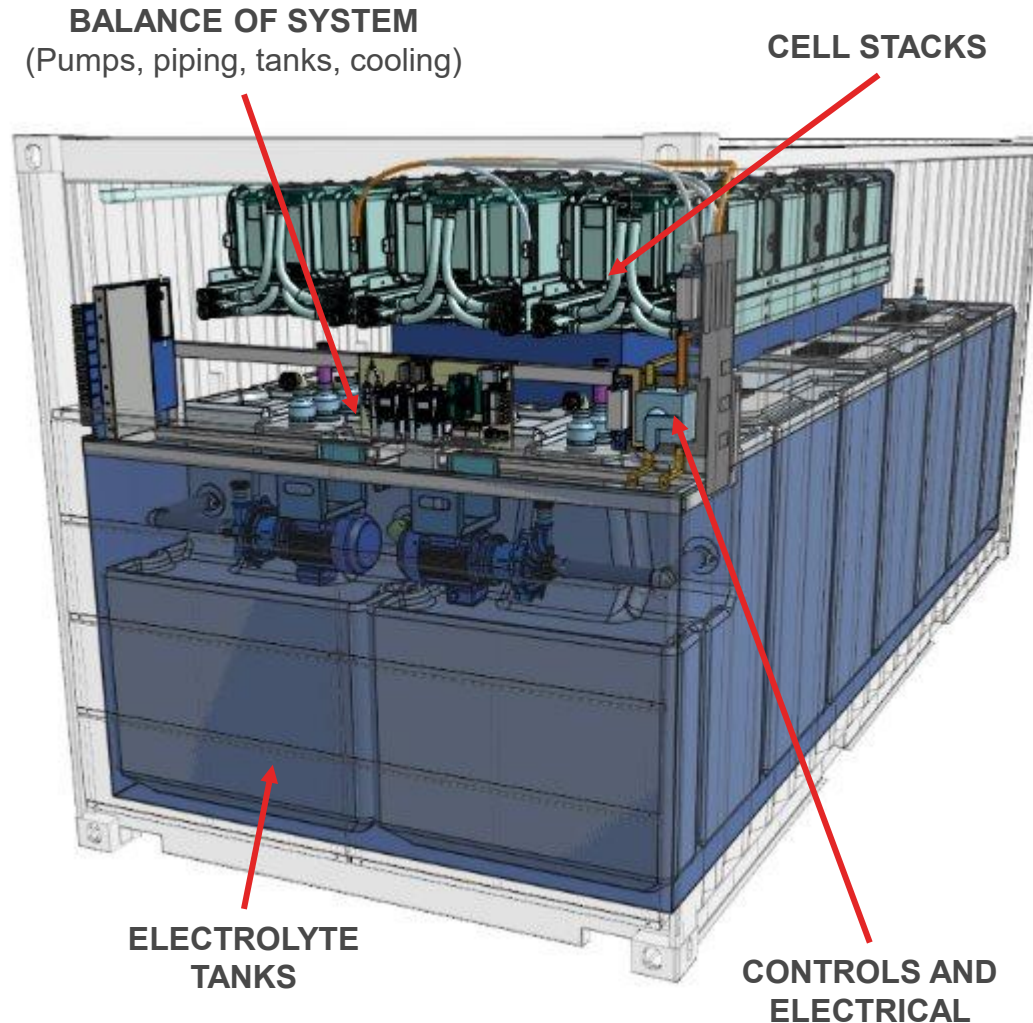


Our Technology



Inside a Vanadium Flow Battery

Safe / Economical / Proven / 30 Year Life



VANADIUM

□ AVAILABLE

Element 23, readily available and more abundant in the Earth's crust than copper. Accessible reserves in Australia, South Africa, United States, Canada.

□ REUSABLE

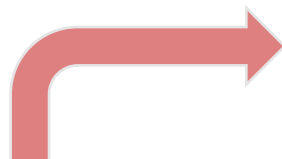
Virtually unlimited working life. 97% proven recovery rate from used electrolyte

□ SAFE

Electrolyte is ~70% water, non-flammable with no risk of thermal runaway

Invinity Product Range

Current Invinity product range



Avalon AFB3

- 2018
- Commercial prototype
- Limited deployment



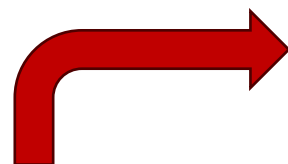
redT Gen3

- 2018
- Commercial prototype
- Limited deployment



Invinity VS3 “Six-pack”™

- 2020
- 1st commercially successful VFB
- Nearly 2,000 modules manufactured and sold to date
- Over 7.5 GWh dispatched in commercial operation



Endurium™

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



Endurium Enterprise™

- 2025
- Based on Endurium product platform
- Optimised for Commercial & Industrial customer segment
- Developed in response to significant demand received from this sector



Invinity Endurium™ Battery Array

Proven technology. Optimised for large-scale projects.



Example 3 MW / 12 MWh
ENDURIUM™ Configuration

RATED POWER:
CONTINUOUS

3-250+
MW

ENERGY STORAGE:
NOMINAL

12-500+
MWh

ENERGY STORAGE:
DURATION

3-18
HOURS

LIFETIME:

30
YEARS

RECOMMENDED
DEPTH OF
DISCHARGE:

100%

CYCLE LIFE:

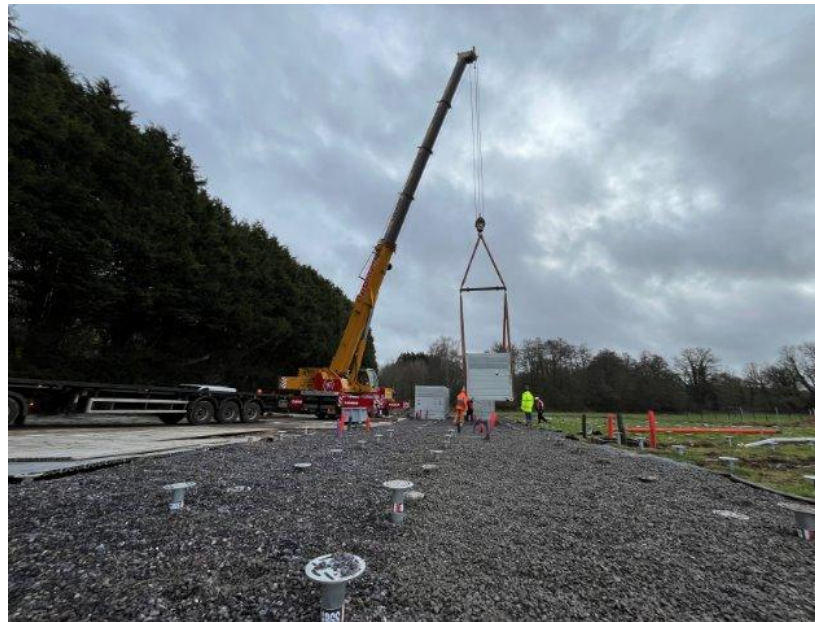
UNLIMITED

CASE STUDIES



Copwood VFB Energy Hub: Green-light for a UK-First

- Invinity will **develop, own and operate** an up to 20.7 MWh solar-coupled LDES project in Southeast England
- Representing **Invinity's largest project** to be deployed to date, this project will be the **UK's first co-located LDES and solar** project once operational in 2026
- Once operational, this will be **Europe's largest flow battery installation**



Department for
Energy Security
& Net Zero



**NATIONAL
WEALTH
FUND**



Customer Testimonials – Elemental Energy

“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

8.4 MWh

**Chappice Lake Solar +
Storage Project**
in Alberta – the largest of its
type in Canada

Chappice Lake Solar + Storage / Alberta, Canada
Elemental Energy / 8.4 MWh Invinity VS3 Battery

Customer Testimonials – Indian Energy



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

"I've been tracking on Invinity's advanced battery storage technology for a few years, but once I met Invinity's leadership team I truly understood why Invinity's technology is superior to other energy storage solutions."

"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 and General Manager, Maada'oozh

10 MWh

VIEJAS MICROGRID
in Southern California –
Invinity's largest project to
date



Customer Testimonials – ABB Renewable Energy



“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

ABB



GamesaElectric

1.2 MWh

ENDURIUM at La Plana

V-ion
PROJECT

