



Managing Storage Complexity

Proper energy storage system maintenance is complex. Maximizing the lifetime value of your asset requires comprehensive skill sets across multiple technologies to ensure optimal performance, secure operating revenue, stabilize operating costs, and mitigate risks.

Industry Leading Expertise

Fluence delivers unparalleled insights and services built on 16+ years of energy sector knowledge, fleet operations, and deep data analytics. Our team follows through on our commitments and is focused on building strong, long-term partnerships with our customers. We find creative solutions to preserve your asset value and meet the unique commercial and operational requirements of energy storage projects.

FLUENCE SERVICES
BY THE NUMBERS*



9 GW ASSETS UNDER MANAGEMENT



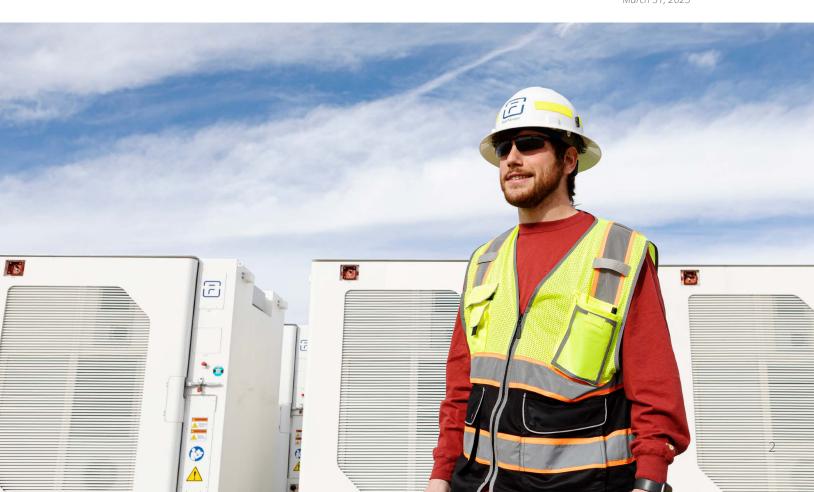
>97%

AVAILABILITY
ACROSS ELEFT



14
GWH ENERGY
STORAGE PROJECTS

*Under management as of March 31, 2025



Delivery Services

Fluence offers full turnkey implementation services for our energy storage products



Engineering

Project support including ground studies, plant and site layouts, electrical drawings, engineering studies, network diagrams, and manufacturing reports.





Delivery

Delivery of core storage system equipment including Cubes, inverter blocks, distributed controls, cabling, switchgear, transformers, metering, and more.



Installation

Full storage product and balance of plant installation including project and subcontractor management, customer handovers, and operator training.



Commissioning

Comprehensive configuration and startup services ensure all Fluence storage equipment, controls, software and applications are functioning as designed.

Long Experience Deploying Gridscale Solutions

From deploying the first grid-scale Lithiumion project as part of AES back in 2008, the team that founded and grew Fluence has been focused on deploying energy storage projects at grid scale, whether whether standalone, co-located with existing generation, or sited at transmission and distribution substations. Fluence has experience implementing dozens of transmission interconnected projects globally, ranging from 69kV to 500kV.

Across its history, Fluence's team has successfully deployed a wide variety of projects including:

- The first commercial lithium-ion battery system in the world, providing grid stability services (incl. inertial response) in Chile's remote Atacama Desert, back in 2009;
- The world's largest energy storage systems six times over - the latest being a 300 MW/1200 MWh project in northern California;
- The first grid-scale energy storage assets in 17 countries, ranging from the Dominican Republic to the Netherlands, from the Philippines to India;
- The first utility-scale hybrid wind + energy storage facility using lithium-ion batteries in 2011; and
- Two of the first battery-based "storage peakers" in Cailfornia totaling 37.5 MW/150 MWh, an emergency procurement in 2017 in response to a sudden loss of natural gas storage capacity – delivered to San Diego Gas & Electric in only eight months, from contracting to commissioning.

2009

AES Gener

LOS ANDES 20 MW/10 MWH **BATTERY** CO-LOCATED WITH **COAL PLANT**

2016

San Diego Gas & Electric

30 MW/120 MWH STORAGE PEAKER – AT **URBAN SUBSTATION**

2018

AES & Mitsubishi

10 MW/10 MWH FCAS/PEAK POWER

2019

SMC

FLEET OF 18 PROJECTS TOTALING 570 MW

2020

Statkraft Kilathmoy

11 MW/11 MWH **DS3 CO-LOCATED** WITH WIND FARM

2022

AES Luna

100 MW/400 MWh **CAPACITY PEAK POWER**









Operational Services



PERFORMANCE GUARANTEES

Safeguard asset revenue potential over project life with degradation, capacity, and availability guarantees



SPARE PARTS

Support system availability by storing operating spare parts onsite or subscribe to parts in regional warehouses



EQUIPMENT WARRANTIES

Limit your exposure to unforeseen O&M costs of your system and receive extensive claims support



OPTIMIZATION SERVICES

Maintain equipment and optimal operating conditions with various maintenance and remote support services



PROFESSIONAL SERVICES

Receive comprehensive training delivered by experienced service representatives online or in-person





ENERGY CAPACITY

Discharge energy (MWh) calculated based on proposed usage profile and battery degradation curves

 Mitigates risk and reduces potential revenue shortfall due to a loss of energy capacity over a system lifetime



DISCHARGE POWER

Guarantees system power at a certain level for a designated amount of time (step-down or constant power)

 Supports high-power applications, such as peaking capacity, with system performance assurance against market obligations



ROUND-TRIP EFFICIENCY

Measures energy in vs. energy out, providing certainty that the system achieves a certain level of efficiency

 Supports predictable operating expenses and protects against shortfalls in revenue from increased energy consumption



TECHNICAL AVAILABILITY

Calculated as an annual average across the entire installed system, tracked continuously throughout the year

Provides assurance that equipment will be available to run a minimum number of hours each year for revenue prediction

Parts & Warranties



SPARE PARTS

Fluence Spares Direct leverages regional warehousing and delivery logistics near our growing fleet of storage systems. Fluence handles all inventory management and parts warehousing on behalf of the customer. Alternatively, Fluence can provide a full operating spares list to be held onsite and managed by the customer.

Reduces upfront capital expenditures on bulk spare parts and storage facilities. Reduces the risk of spare parts depreciation and obsolescence while maintaining your availability guarantees.

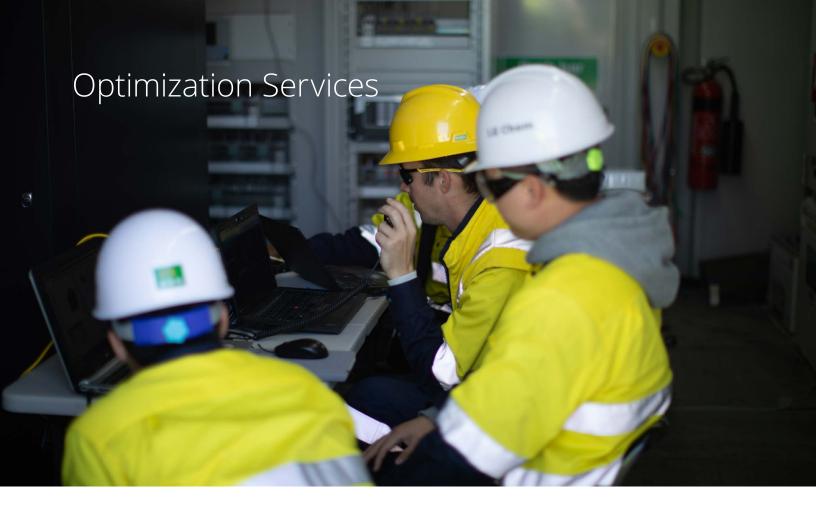


EQUIPMENT WARRANTEES

Standard equipment warranties are included in the Fluence product supply scope for all projects, including shipping and labor to service the warranty. On top of standard equipment warranty, Fluence can offer flexible, comprehensive extended warranties over the term of the service agreement.

> Ensures predictable operational expenses over the life of your asset through active management of long-term equipment supply, hardware obsolescence, technology interoperability, and more.





Fluence provides proactive monitoring and maintenance services, troubleshooting expertise, and fast response and repair times to maintain high system availability, enabling customers to minimize downtime and maximize revenues.



PREVENTATIVE MAINTENANCE

Maintaining equipment and optimal operating conditions with scheduled, systematic inspection, detection, and proactive corrections. Preventative maintenance activities are carried out by personnel trained to identify failures either before they occur or before they develop into major defects.



REACTIVE MAINTENANCE

Ensure systems return to full availability as quickly as possible via unscheduled work required to identify and resolve component or system failures. Reactive maintenance activities are provided by Fluence under a service agreement and enable technical availability guarantees.

Optimization Services



24/7 SYSTEM SUPPORT

Fluence employs a global network of technical experts and specialized maintenance contractors to provide full 24/7 coverage for on-call response to any system issue.

A 100 MW energy storage system is comprised of over 2 million battery cells, 30-50 power conversion systems and transformers; hundreds of environmental control and safety monitoring systems; and a comprehensive IT network. All of these components operate 24/7 and are unique sources of potential failure.

Our support network will quickly diagnose issues remotely and dispatch the appropriate technicians to site as needed, providing rapid issue resolution for your system.



PERFORMANCE REPORTING

Fluence provides automated reporting tools and customized analyses based on industry standard and customer defined key performance indicators (KPIs).

Prior to a system becoming operational, our performance analysis team leverages years of operating expertise to works with you to identify relevant KPIs and develop reporting templates to be delivered on a regular basis.

Our dedicated performance analysis team removes the overhead time associated with your team performing data analysis and reporting on their own, so they can focus on what they do best.

DELIVERING PROJECT PEACE OF MIND WITH FLUENCE 24/7 SUPPORT

At 6:53PM, the Fluence 24/7 team received alerts that all core breakers had tripped at a customer site. At 6:57PM, they notified the customer that our regional Field Service Engineer was remotely investigating the cause. At 7:05PM, our FSE notified the customer they found the cause and that they had dispatched local technicians to the site to visually verify and reset the breakers. At 7:53PM, the technicians verified the cause and had returned the system to full operation.

Professional Services



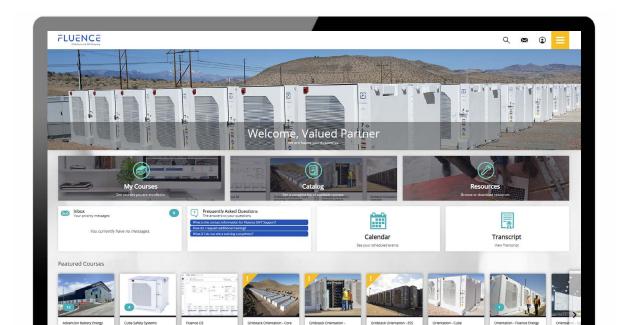
FLUENCE ACADEMY

Fluence Academy
enables customers to
manage operations and
maintenance training
more effectively, at
their own convenience
and pace. The platform
delivers a suite of learning
packages designed to
address the needs of
various stakeholders,
including first responders
and O&M technicians.

BUILDING O&M KNOWLEDGE WITH FLUENCE ACADEMY

As a nascent industry with GW of new assets coming online each year, the battery-based energy storage landscape is rapidly evolving. Understanding how to manage and maintain energy storage systems and technologies is critical for the utilities, developers, and power producers building large fleets of assets.

Fluence Academy supplements O&M documentation and on-site instruction with a self-serve, on-demand learning platform. Designed with the end-user in mind, Fluence Academy can be accessed by your team ondemand, anytime, from any device.



SINEBRYCHOFF BREWERY

Kerava, Finland

FLUENCE SOLUTION

15-year service agreement in which Fluence performs all preventative and reactive maintenance and provides 24/7 monitoring of the site. This also includes performance guarantees for time-based availability, round-trip efficiency, and energy capacity.

CUSTOMER BENEFIT

Beyond enabling the brewery to achieve carbon neutrality in 2021 (9 years ahead of schedule!), our solution gives Sinebrychoff confidence in alleviating the long-term technical risk of operating a battery storage site and helps safeguard the properties peak energy use



AES ALAMITOS

California, United States 100 MW/400 MWh

FLUENCE SOLUTION

20-year service agreement safeguards asset revenue potential over project life with capacity management, all preventative and reactive maintenance, and 24/7 remote monitoring of the site.

CUSTOMER BENEFIT

The AES Alamitos facility is contracted under a 20-year power purchase agreement (PPA) with Southern California Edison, replacing an existing natural gas peaker. Fluence's solution provides the peace-of-mind that the project will be able to satisfy customer demand over its 20-year lifetime







software for renewables and storage. Our solutions and operational services are helping to create a more resilient grid and unlock the full potential of renewable portfolios. With gigawatts of successful implementations across nearly 50 markets, we are transforming the way we power our world for a more sustainable future.