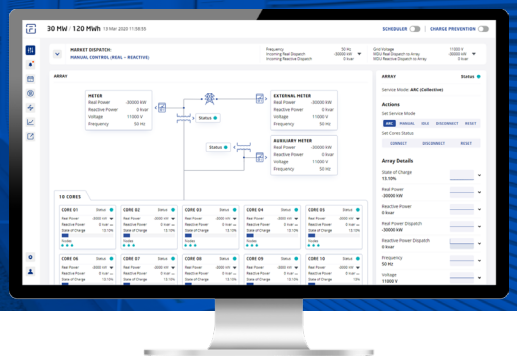
FLUENCE
A Siemens and AES Company

FLUENCE OS

Market Dispatch

Fluence OS bridges the gap between complex market requirements and dispatchable power



The Fluence OS market dispatch unit (MDU) manages application logic and rules so storage assets can dispatch according to specific market or operator requirements. The MDU is preconfigured with applications specific to the client's requirements and is the primary interface to external market or energy management system (EMS) signals. It can be controlled manually by setting various operating parameters and schedules, or it can be set to follow commands from external signals using embedded logic, such as automatic generation control (AGC) from the California Independent System Operator (CAISO).

Applications can be combined, or stacked, with other applications to create unique combinations of services, maximizing revenue opportunities for customers. For example, combining real and reactive power applications to dispatch energy or regulate frequency while maintaining a desired power factor, with priority given to certain services.

Common MDU Applications

The MDU contains proven applications that are compliant with various grid requirements worldwide, enabling Fluence storage systems to participate in a variety of major services, including:

- Primary frequency regulation
- Secondary frequency response
- Peak shaving
- Voltage regulation
- Power factor regulation

Example Market Controls Package

In addition to individual market dispatch applications, Fluence can offer controls packages tailored towards specific markets. For example, Fluence has developed a suite of controls applications that enables asset owners in Great Britain's NGESO market to participate in the new dynamic frequency response services. With our pre-integrated controls hardware and software, customers can maximize revenue without the need to layer additional metering or software on top of the energy storage asset.