



# eos

## Clean Energy Storage Systems



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## *A safe, scalable, efficient and sustainable alternative to lithium ion*

Babcock & Wilcox (B&W) has partnered with Eos Energy Enterprises (Eos) to deploy the next generation of energy storage solutions.

We share Eos' commitment to bring reliable, competitive, sustainable and safe clean energy to a wide range of industries and applications.

This proven, safe and flexible energy storage solution diversifies the product offerings of B&W's Renewable segment and strengthens our leadership role as a trusted supplier of energy and environmental solutions.

### *Eos Clean Energy Storage Systems*

The Eos energy storage systems use proven chemistry with accessible components in a durable system design that's been tested for more than a decade. It is a reliable alternative to lithium-ion battery technology.



With a 3- to 12-hour range of discharge capability, immediate response time, and modular construction, the Eos storage system can be scaled and configured to reduce total cost of ownership and maximize profitability in a wide range of industrial, utility and commercial applications.

It can withstand extreme temperature and other environmental conditions, provides complete depth of discharge, and can be easily integrated into existing power infrastructure.



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### *Znyth® Zinc Battery Technology*

The heart of the Eos energy storage system is the unique Znyth® (pronounced zenith) zinc hybrid cathode technology which results in a safe, non-flammable and non-corrosive battery.

The Znyth technology utilizes inexpensive, widely available materials within a robust, scalable design to achieve long life and extremely low cost. It is developed on patents and patent applications covering cell configuration and architecture, cathode design and materials, electrolyte and electrolyte additives, battery management systems, and low-cost manufacturing processes. The result is a battery technology with unparalleled performance and wide-ranging applications.

## Applications

### Industrial and Commercial

The Eos clean energy storage system provides high-energy users such as industrial plants and large commercial facilities with both economic and reliability benefits.

- **Energy management:** By storing inexpensive electricity produced at night and displacing consumption during peak hours of the day, customers can reduce their demand charges and gain significant electricity cost savings.
- **Backup power:** Energy storage can provide limited-duration backup power to help customers continue reliable operation during temporary outages.

### Power Utilities

With storage, utilities can rely on a cleaner, more efficient energy mix while deferring costly infrastructure upgrades. Storing inexpensive electricity produced at night for use during peak hours of the day allows utilities to displace more expensive, peaking generation sources, reducing costs and emissions. In addition, long-duration energy storage can provide clean, cost-effective, and easy-to-deploy generation capacity in load centers where it's needed most.

### Renewables

Energy storage can optimize and extend the integration of intermittent renewable power supplies such as solar and wind. It can also be utilized as part of renewable-powered microgrids to bring clean energy to remote locations with limited transmission and distribution infrastructure.

## Technology Features and Benefits

### Delivering a Reduction in Overall Levelized Cost of Storage

- **Safe** – non-flammable, non-hazardous, non-corrosive technology is a reliable alternative to lithium-ion battery technology
- **Scalable** – containerized and stackable for flexibility and future expansion requirements; plug-and-play construction for fast and lower onsite assembly costs; multiple configurations to meet various application requirements
- **Efficient** – up to 80% efficiency in 100% depth of discharge applications; low parasitic load and flexible charge and discharge rates
- **Sustainable** – designed to last up to 6,000 cycles for an estimated 20-year life; fully recyclable components in standard facilities

## System Options

### Energy Block

Outdoor configurations up to 10 MW



### Indoor Energy Rack

Configurations for large commercial applications



### Power House

Installations for applications of 10 MW or more with minimal footprint



### Flexible

Multiple configurations to meet various application requirements



# **EOS Clean Energy Storage Systems**



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RENEWABLE | ENVIRONMENTAL | THERMAL

Established in 1867, Babcock & Wilcox is a global leader in renewable, environmental and thermal technologies and services for power and industrial applications.

For more information or to contact us, visit our website at [www.babcock.com](http://www.babcock.com).