



**An exergonic reaction** is defined as a spontaneous chemical reaction that results in the liberation of energy.

Our company takes its name from this scientific term, and builds its portfolio of products around the concept of managing the highly efficient and instantaneous release of energy.

releasing energy to the world

### About Exergonix

Exergonix provides the missing link in the advancement of innovative energy solutions. Energy storage and renewable technologies are essential to the evolution of a smarter decentralized grid structure that could help the world's population alleviate its dependency on fossil fuels and protect the environment for future generations.

Exergonix' advanced energy storage systems employ new and significantly improved technologies in lithium-ion battery nano-material cell design, environmental packaging, and advanced electronic controls that offer advantages over competing products. This includes a suite of higher energy density batteries providing optimum power with quick response capability, increased cycle life, incorporation of better safety mechanisms, enhanced durability and extended life.

Our organization is truly a value-add solutions provider and not just a supplier of batteries. We are comprised of a comprehensive sales, engineering, manufacturing, modeling and financing entity to partner with clients on projects from cradle-to-grave.

Exergonix integrates decades of experience in battery technology, power management, and advanced renewable energy management.

Having worked together for well over 5 years prior to Exergonix, the team has independently or jointly produced systems in several zero-failure applications such as medical devices, military and aviation. Exergonix now brings forward this fail-safe quality and reliability into utility and high-end stationary energy storage applications.

From a one-off custom solution to the production of volume products from 1kWh to 1MWh, Exergonix is prepared to design and supply superior energy storage systems as a partner to our clients.



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## Releasing Energy to the World

Innovative Energy Solutions - from homes to power plants





**Formed in early 2010**, Exergonix is positioned as a world leader in the design and production of advanced energy storage systems into a broad range of stationary and mobile applications. Our superior design utilizes a proprietary technology and a suite of intellectual property that has been developed over a nearly 10 year period at the cost of tens of millions of dollars. Research focused in many areas including power electronics advancements, superior packaging techniques, an advanced exclusive Battery Management System (BMS) and the integration of military-grade high power advanced cell technology for use in target applications.

Exergonix positions itself as a designer, integrator and manufacturer of value-add solutions involving energy storage. We take the core know-how and technology and supply our customers a turnkey system that exceeds expectations including performance, cost, quality and reliability. Applications have included:

- Direct utility grid integration from commercial to transmission and distribution scale;
- MicroGrid design from remote diesel generated communities, to renewable generation;
- Telecommunication integration focused on the elimination or best-use of legacy generators;
- UPS applications that require both extended backup for days or megawatt of power for a few minutes.
- Military systems including manned portable field-use packs to large utility and MicroGrid style systems.



Rack View inside the 1MW CS-DESS System

Exergonix' core Distributed Energy Storage System (DESS) design uses lithium ion nano-material cells and advanced patented technologies. From 1kWh to 1MWh builds and packages its primary modular approach into systems of various sizes and to meet a wide range of applications.

## Low Volt – Distributed Energy Storage Systems (LV-DESS)

- Modular design with ability to connect them in series
- Rack mountable in a typical 19" UPS system
- Available in 48v, 24v, and 12v
- Available from applications requiring .5C to 5C rates

## Residential Scale – Distributed Energy Storage Systems (RS-DESS)

- Modular design medium voltage output
- Nano-Cell technology with 6,000+ cycles
- Available from 25kWh – 100kWh

## Commercial Scale – Distributed Energy Storage Systems (CS-DESS)

- Modular design high voltage output
- Nano-Cell technology with 6,000+ cycles
- Available from 100kWh – 1MWh

