



Next Generation Energy Systems

Aspin Kemp & Associates has a proud history of developing reliable power management systems for our clients. Our generator protection systems on drilling platforms have helped to reduce energy consumption while saving downtime and reducing losses and risk. More recently, AKA has moved to hybridize processes in the offshore drilling, marine and land-based energy environments.

As an industrial and marine engineering firm, we accept responsibility for environmental stewardship and renewal.

AKA's innovative Energy Storage Systems are the ideal solution to a wide range of power industry challenges. Wherever energy storage can improve the performance of power generation and distribution - from alternative energy production to island power grids - AKA's technology is the answer!

AKA uses Active Front End (AFE) technology at the grid connection and our systems can be provided with a range of energy storage mediums from

chemical to solid state depending on the application. The systems are modular, with the front ends being scalable for power and the storage being scalable for energy.

The systems are 'grid-connectable' drop-in-place solutions that can be easily added to existing installations. Both the Active Front End size and the energy storage behind it can be scaled according to the customer's specific requirements. Furthermore, many such systems can exist autonomously on a common grid, allowing future expandability.

The result is that AKA Energy Systems deliver consistent clean AC power with built-in power conditioning and improved reliability with reduced stress on the AC power sources. Superior robustness and longevity results from the use of solid state power electronics.

"Excellence in Engineering Design and Innovation will be our legacy to the next generation."

Jason Aspin CEO - Aspin Kemp & Associates

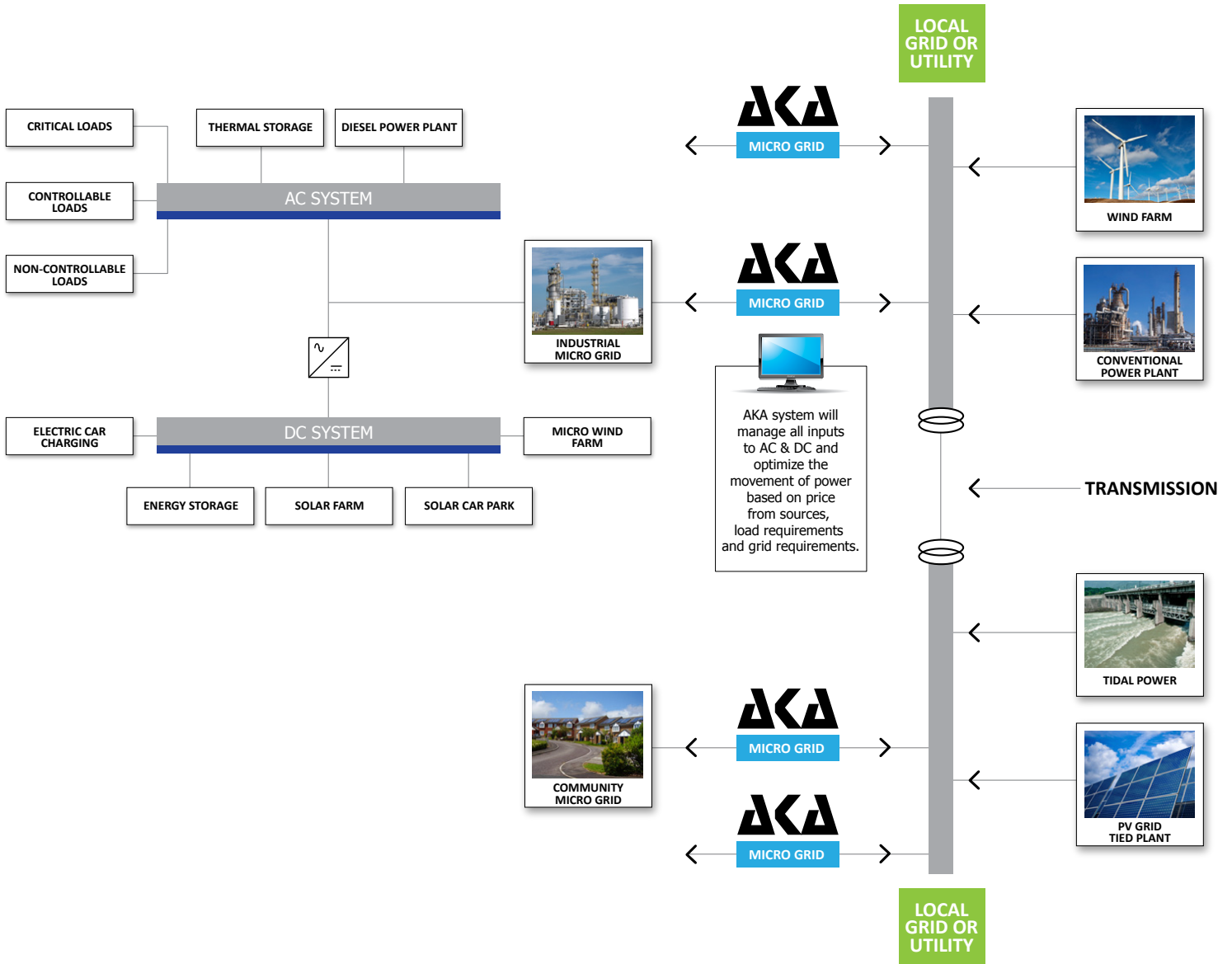
Why AKA Micro Grid?

BENEFITS

- Peak Shaving - concurrent & non concurrent.
- Smart grid with no additional infrastructure;
 - Efficient use of available energy source,
 - Intelligent loads, and
 - Intelligent energy sources.
- UPS functionality;
 - System ride-through, and
 - Ideal for facilities with high cost of downtime, or high risk associated with downtime.
- Allows multiple power sources; diesel generation, natural gas generation, wind, solar, and Hydro, etc.
- Flexible energy storage solutions; lithium polymer battery, lead acid battery, hydrogen fuel cell and flywheel.
- Decreases infrastructure cost for inclusion of renewable and alternative energy sources through multi leveraged utilization.
- Provides connections of backup generation to grid to help meet capacity reserve requirements;
 - Through utilization of generation to grid it provides alternate revenue stream to asset owner which otherwise wouldn't be available, and
 - Allows facility to become a utility and provide power to potential customers.



AKA MICRO GRID



0000-AKA-E-2024 V3_00



HEADQUARTERS
 23 Brook Street
 Montague
 Prince Edward Island
 Canada C0A 1R0

AKA WORLD OFFICES
 North America - Canada
 EU - Bulgaria
 Asia - Singapore, China

SALES
 +1.902.620.4882
 sales@aka-group.com
 info@aka-group.com
www.aka-group.com