

A Portfolio of Innovation and Collaboration

Ahead of the Current

AKA
Energy Systems

AKA Energy System excels in delivering reliable, efficient, and fault-tolerant designs that are obsolescence-proof. This showcases our innovation and commitment to reducing environmental impact, as well as capital, and operational expenses.



AKA Energy Systems has pioneered and been the first to deliver DP3 vessels with fully tested, NV approved, closed bus technology.

AKA delivered the first-ever comprehensive AGP Power Plant protection. Setting a new industry standard from 20 to 350 years mean time between failure.

AKA revolutionized the drilling vessel industry by introducing the first of its kind – Hybrid Drill Floor, a breakthrough in safety, emissions control and performance.

Our detailed process understanding and utilization of mathematical models, validated through real testing, form the foundation of predictability in their solutions.

AKA's marine systems designed for simplicity and autonomy, predictability is built in, offering certainty throughout the testing, installation, commissioning, and maintenance phases. Thus, building confidence on the foundation of predictability.

Products

Microgrid

AKA's Microgrids provide marine vessels, communities and industries with efficient and reliable power. AKA will determine the best micro grid solution based on load profile, renewable energy availability, and fuel costs. AKA will retrofit existing generator plants.



Capabilities

Manufacturing

AKA has the capacity to manufacture and factory test mechanical and electrical equipment. We manufacture:

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- Medium Voltage Switchgear
- Energy Storage Systems
- E-Houses
- Cooling systems
- Structures & enclosures
- Generator plants



Hybrid Propulsion

The patented XeroPoint™ Hybrid Propulsion system reduces fuel and emissions in workboats and other vessels with variable duty cycles. In a case study, third party testing verified:

- 73% reduced particulate matter
- 51% reduced nitrogen oxides
- 27% reduced carbon dioxides
- 27% reduced fuel consumption



Hybrid Electric - Active Heave Control

AKA has supplied 6th generation drill ships with the world's first Hybrid Drill Floor. The system uses energy storage (ultra-capacitors) to level the load demands on the power plant. This improves the overall reliability and energy efficiency of the operation.



Critical Process Power & UPS

Achieve system availability expectations by sustaining your operation through a loss of grid or micro-grid power. Maintain power to critical systems to avoid production losses through the transition to backup power.



Asset Management

The AKA service team offers best practices in asset management. This includes inspection and audit of electrical and mechanical industrial systems. AKA engineers will determine an asset management plan that suits the client's operations & maintenance excellence objectives.



Training

Training is offered at client sites or our global facilities. AKA is equipped to train:

- Electrical practices
- Reliability & Asset Management
- Risk avoidance
- Operations (offshore drilling)



Documentation

Documentation is an integral part of AKA Energy Systems' products and processes. AKA's document development process ensures our clients receive the highest quality documentation products. Our practices provide relevant and up to date documentation while minimizing the impact to our client's process efficiency or product quality.



AKA Energy Systems

AKA Energy Systems (Aspin Kemp & Associates Inc.) is an energy systems provider delivering innovative solutions to island and microgrid power systems. AKA designs, manufactures, and supports power and propulsion assets for marine, Offshore O&G, and land-based industries.

AKA has shifted the paradigm for fuel efficiency and reliability in offshore drilling with proven fuel savings of over 50% and similar results in marine and land-based microgrids.

AKA offers a full spectrum of integrated products and services including systems integration, new product development, engineering, manufacturing, testing, installation, commissioning, life cycle support, field services, integrated documentation, and training. AKA's manufacturing facility in Prince Edward Island, Canada includes a state-of-the-art mechanical fabrication shop, an electrical assembly area, and a medium voltage test bay. AKA's global clients and partners also include MAN Energy Solutions, Transocean, Shell, GE Energy, Siemens, Eaton, Schneider Electric, and many more.



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