Clean, quiet, proven

HybriGen® Power and Propulsion

BAE Systems has a proven track record of delivering safety, quality, performance, and reliability. Our HybriGen power and propulsion solution provides efficient electric propulsion and auxiliary power using on-demand technology to help reduce the gap to zero emissions. Our HybriGen patented technology utilizes a main engine and lithium-ion batteries to provide nearly silent, vibration-free electric propulsion, enhancing the operator and passenger experience.

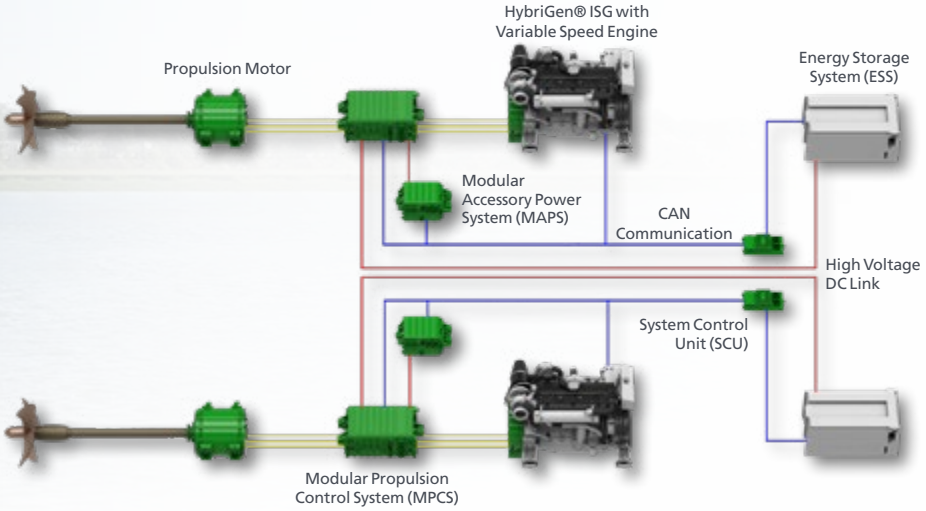
gettozero.com

BAE SYSTEMS

Electric Hybrid

How it works:

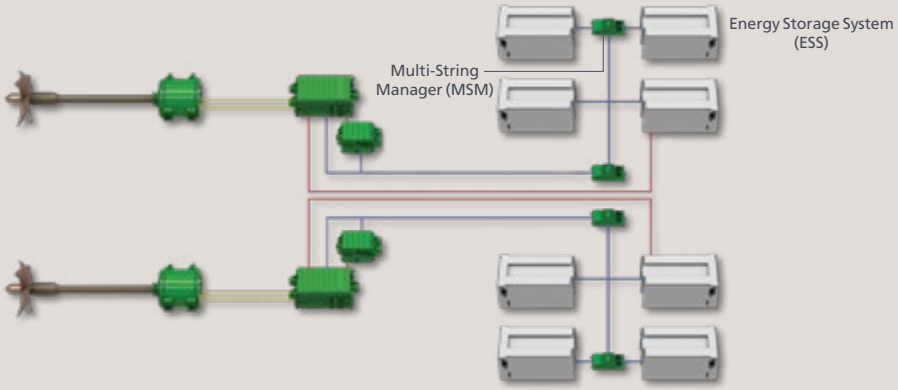
Our HybriGen Power and Propulsion solution uses variable speed generator sets to create electricity for auxiliary vessel power and electric propulsion. The system utilizes the generated electricity to efficiently deliver power to the hotel loads, the energy storage system, or paralleling with other power sources for greater power demand and system flexibility.



Battery Electric

How it works:

Without the need for onboard generator sets, energy storage is the sole source for auxiliary vessel power and electric propulsion. The energy storage is recharged by either AC or DC shore-side charging stations. Charging can occur either during daily operation (typically several higher power charges for short durations) or at end of day (which would use lower power for a longer duration). Whatever approach is needed, our integrated solution ensures simplicity.



Hydrogen Fuel Cell

How it works:

The hydrogen fuel cells replace the need for generator sets in the system, creating zero emissions electricity for auxiliary vessel power and electric propulsion. The DC-DC converter ties the fuel cell voltage to the main High Voltage DC Link via the MPCS. The balance between the number of hydrogen fuel cells and energy storage modules can be tailored to best suit the operational needs of the vessel.