• High power density - 1 MW to 16 MW
• Efficient permanent magnet generators
• Modular drives for power conversion
• Significant fuel savings over ship service life
• Scalable designs for new and retrofit system installations
GA-EMS’ high speed generators directly couple with gas turbine engines and are optimized for variable speed operation, eliminating the need for speed-reducing gearboxes. The system optimizes the ratio between gas flow and turbine speed to significantly reduce fuel consumption, particularly when the turbines are operating at 40-60% of their rated power for long periods of time. Each system is lighter, more compact and requires less ancillary equipment. For new and existing ship designs, this results in measurable fuel, maintenance and space savings, and improved reliability to accommodate future power growth margins for extended ship service life.