HybriDrive™ Propulsion System for Transit Buses

- Cleaner than natural gas
- Lower fuel consumption
- No transmission to maintain, and reduced brake maintenance
- Fully integrated, tested, and warranted
- Reliable and service-proven
- Smooth acceleration and better traction
- Reduced carbon emissions
- Commercially available

The Propulsion Control System directs the energy flow, indicated by the yellow arrows, using data from driver interfaces and all system components.

- The engine, controlled by the HybriDrive™ system, drives the generator.
- The generator supplies electricity to the traction motor and recharges the battery storage system.
- The traction motor uses electrical power to drive the wheels. During braking, the motor acts as a generator to return deceleration energy to the system by recharging the batteries. This “regenerative braking” system reduces brake wear.
- The traction battery system stores generator power and energy recovered during braking and supplies power for acceleration or hill-climbing.

BAE SYSTEMS