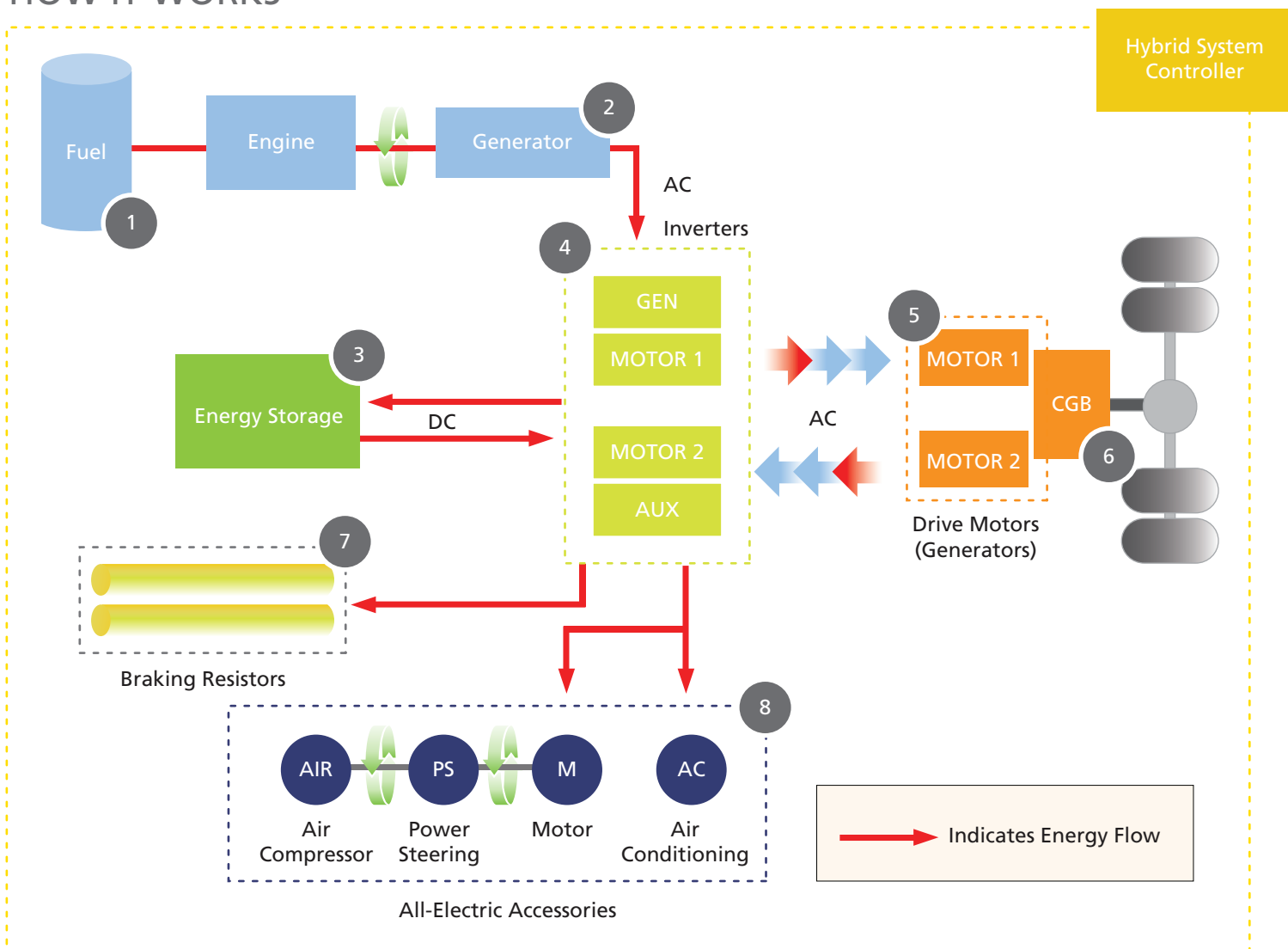


# THE ISE HYBRID DRIVE SYSTEM

## HOW IT WORKS



### HOW IT WORKS

- 1 ISE systems are fuel neutral. ISE offers a zero-emission fuel cell or a gasoline, diesel, or CNG engine.
- 2 Engine-based systems run a generator to produce high voltage electric power. Fuel cell-based systems produce electric power directly.
- 3 The energy storage system supplies additional electric power as needed.
- 4 The inverters control voltage, handle AC/DC conversion, and send the electric power to the electric drive motors.
- 5 The electric drive motors turn the vehicle's drive shaft, converting the electric power into mechanical power. In certain situations, the drive motors act as generators to charge the energy storage system.
- 6 The mechanical power is transferred through the axles to the wheels, making the vehicle move.

### WHY IT'S DIFFERENT

- 7 Braking resistors increase mechanical brake life and can be used to provide additional cabin heating for cold climates.
- 8 All-electric accessories and air conditioning provide additional gains in fuel efficiency.

Overall system: Our drive system components are independent of each other, so they can be located just about anywhere on the vehicle.



Call us to discuss options for your fleet.

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