POWER DELIVERY OPTIONS
UNDER CONSIDERATION
Conventional Mechanical 4 Wheel Drive

Each wheel can operate at a unique speed and torque
Skid Steers (4x4, 6x6, 8x8)

Clutch, transmission, and transfer case can be replaced with hydraulic pumps and motors

All Wheels on the same side turn at the same speed
Electric Drive Options

Separate electrical motors for each axle
Or for each side (skid steer)

Separate electrical motors for each wheel
Electro-Hydraulic Drive

Hydraulic Motor

Power Management Controller

Electric Motor

Hydraulic Pump

Battery

Alternative Fuel

Hydraulic Motor

Engine GEN

Hydraulic Motor
Dual Power – Mechanical or Electrical Drive

Mechanical Side Options
a. Transmission, Transfer Case, differential, shafts
c. Hyd. Pump + multiple hyd. Motors

Electrical Side Options
Single or multiple electric and/or hydraulic motors
Parallel Hybrid: Mechanical and Electric Drive

- Diesel Engine
- Transmission
- Controller
- Motor
- Power Management Controller
- Battery
- Alternative Fuel
Series Electric Hybrid

Option A: Large Generator / small battery
Option B: Mid-size Generator / mid-size battery
Option C: Small Generator / larger battery
Option D: Hydraulic pump and motors