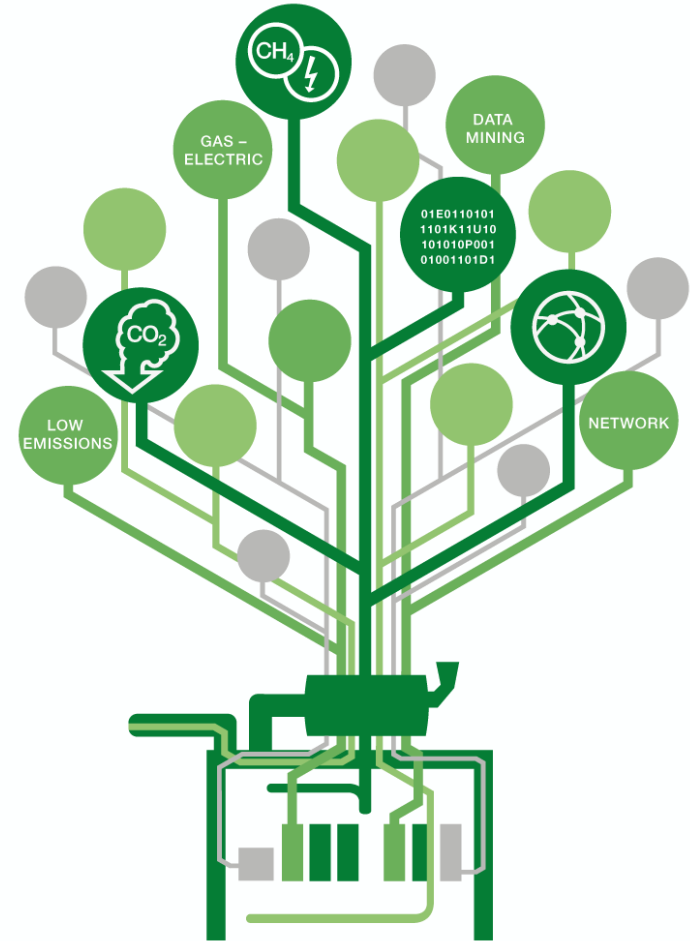


EKU POWER DRIVES

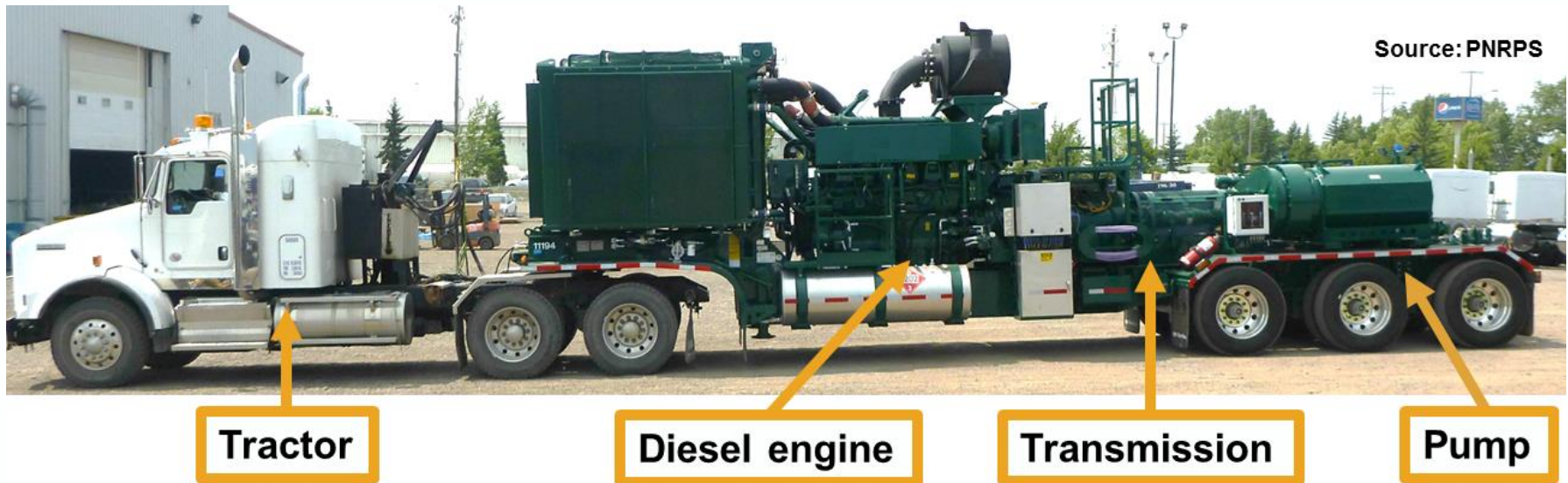
Improving efficiency

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EKU provides
power management
automation
that increases overall
system efficiency



Fracking operating costs a lot \$\$\$



- Pumps requires 9 - 12 maintenance services per year
- Short time until full overhaul – about 3 - 5 years
- Tractor required to remain on-site 24/7



- Operating margins are down and prices remain uncertain
- There is a lot of pressure on operating costs
- Technology focus must be on efficiency improvement



- The highest inefficiency is wasting energy
- Technology is available to solve this problem now

**The first step is electrification, but
focus is on maximum efficiency**



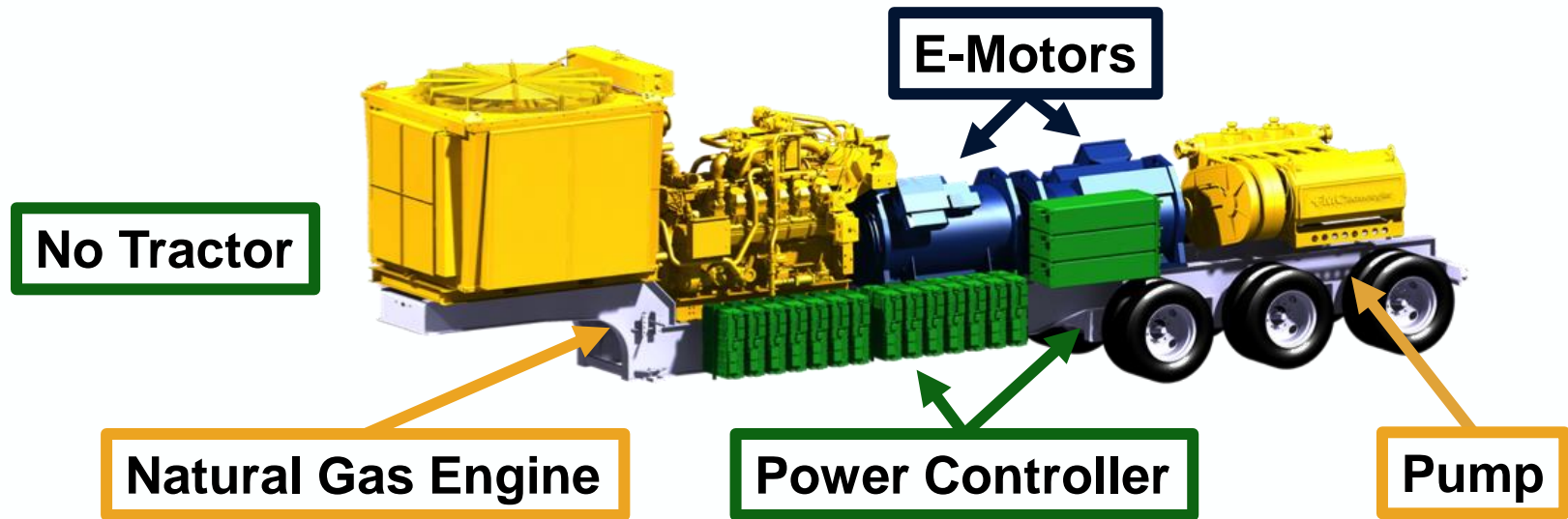
Dual-Fuel retrofit kit

- Low cost retrofit to existing diesel engines
- Can replace 50% of diesel
- Low conversion cost, used by most service providers
- Low energy efficiency
- Not sustainable, high emissions - “Methane slip”, NOx
- Can’t meet TIER 4 emission standards



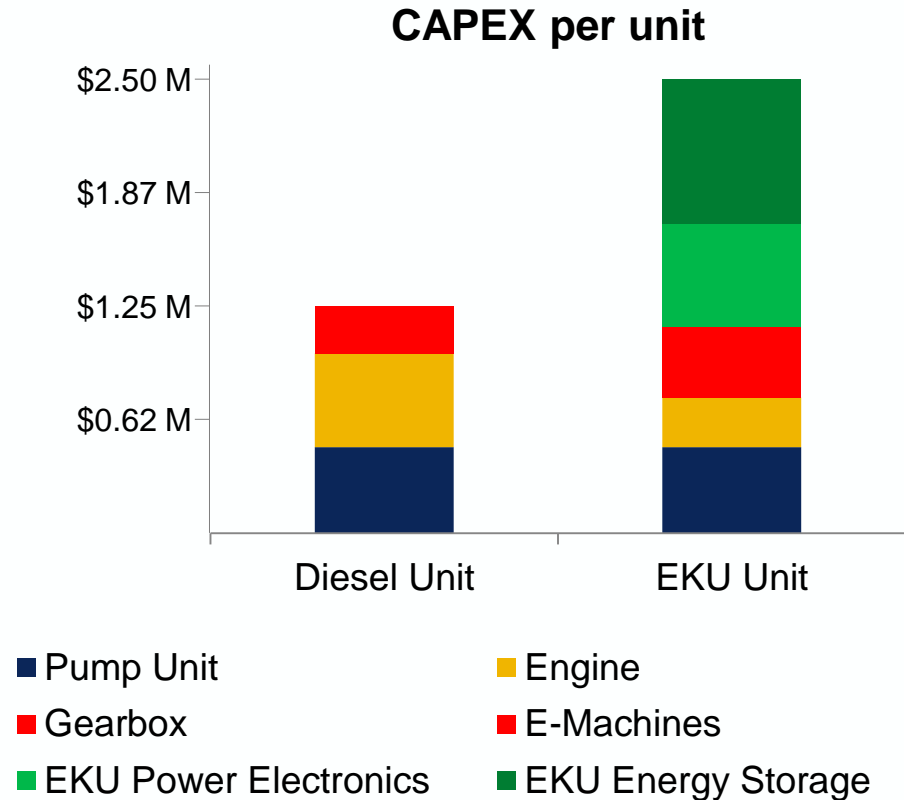
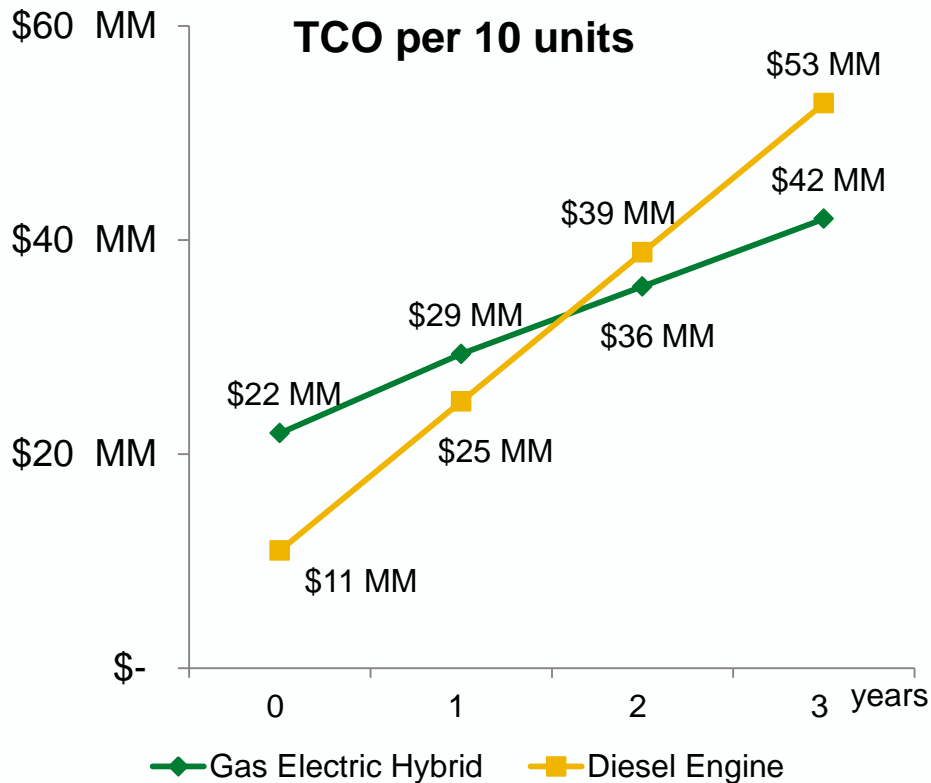
Central Power – Turbine

- Centralized natural gas turbine to generate electricity onsite
- Provides electric power to fracking pumps
- Offered by GE
- Very limited use due to size, installation time, safety concerns (power lines on site)

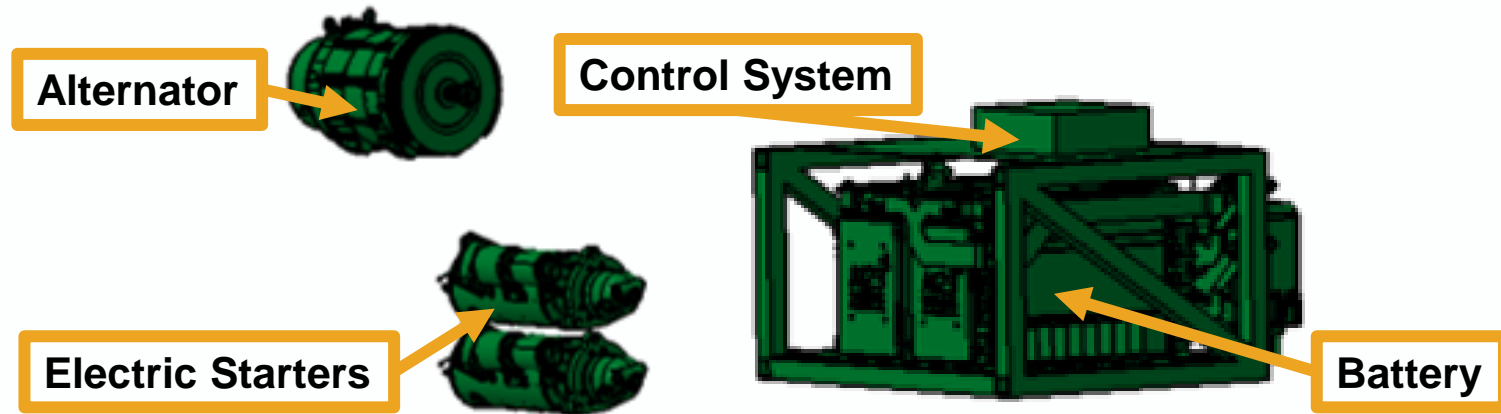


- **EKU** provides proprietary interconnected power controller
- Integrates off the shelf dedicated natural gas engine, electric motors and pump
- Divorce tractor from operations (becomes only a transport element)
- Eliminates non-pumping idle time
- Lower operating costs
- Longer off the shelf components lifetime ~ 50,000 h

Total Cost of Ownership (TCO)



Significant operating cost advantage, lower total cost of ownership and 2 years payback



- **ESC** is an affordable retro-kit for existing diesel fracking units
 - Up to 2 hours engine on standby, eliminating 95% of non-pumping idle time
 - Divorce tractor from operations
 - 50% lower operating costs
- Noise, emission and costs reduction

**The ESC permits a profitable
quick to market product**



- Maintenance services reduced to 2 - 3 per year
- Increased time until full overhaul – 6 - 10 years
- **Expected savings \$80-100 thousand per year**
- **\$20,000 down payment and \$12 per operating hour**

We cannot solve our problems with the same thinking we used when we created them.

Albert Einstein



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