

# Plug & drill

# The fully electric HDD jobsite

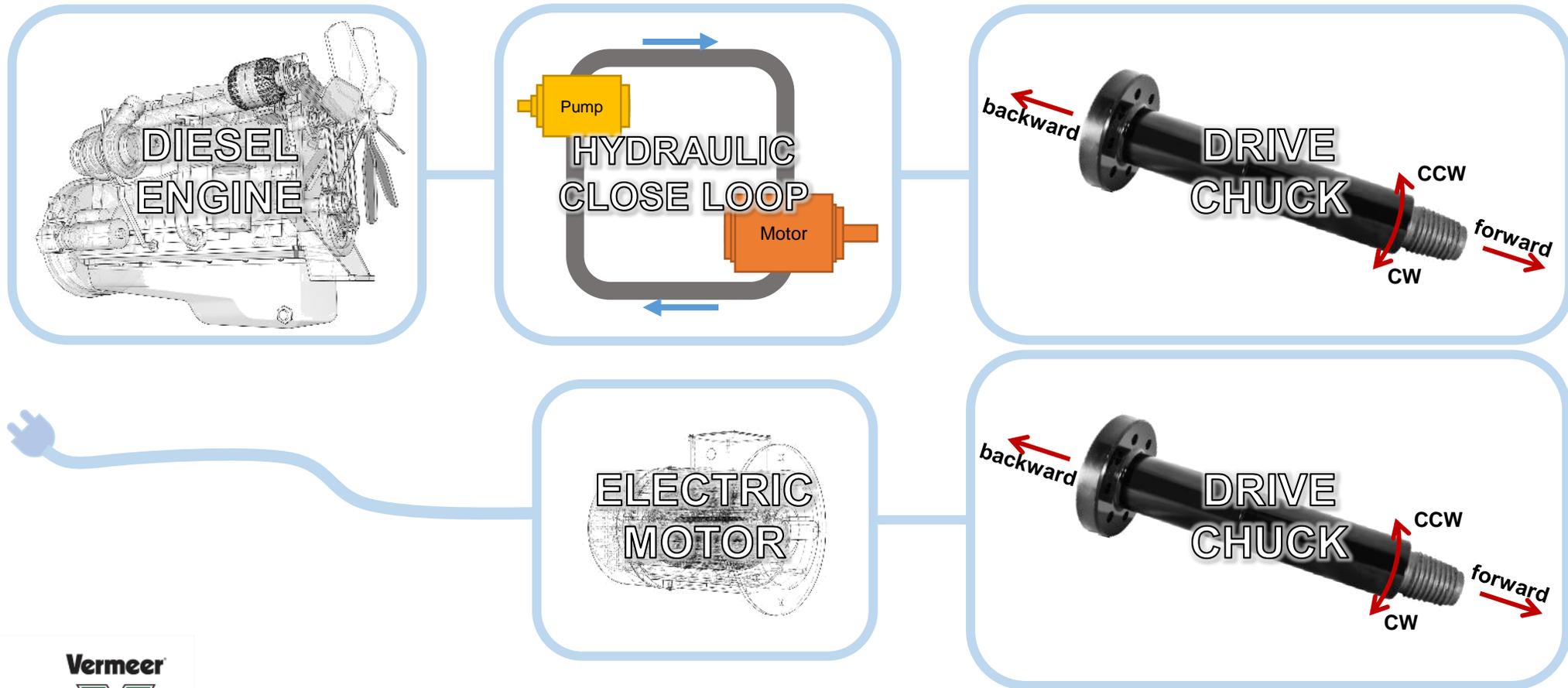
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# What is electric HDD?

Evolution from diesel-hydraulic to direct electric drills



# What is electric HDD?

What somebody thinks an electric HDD is...



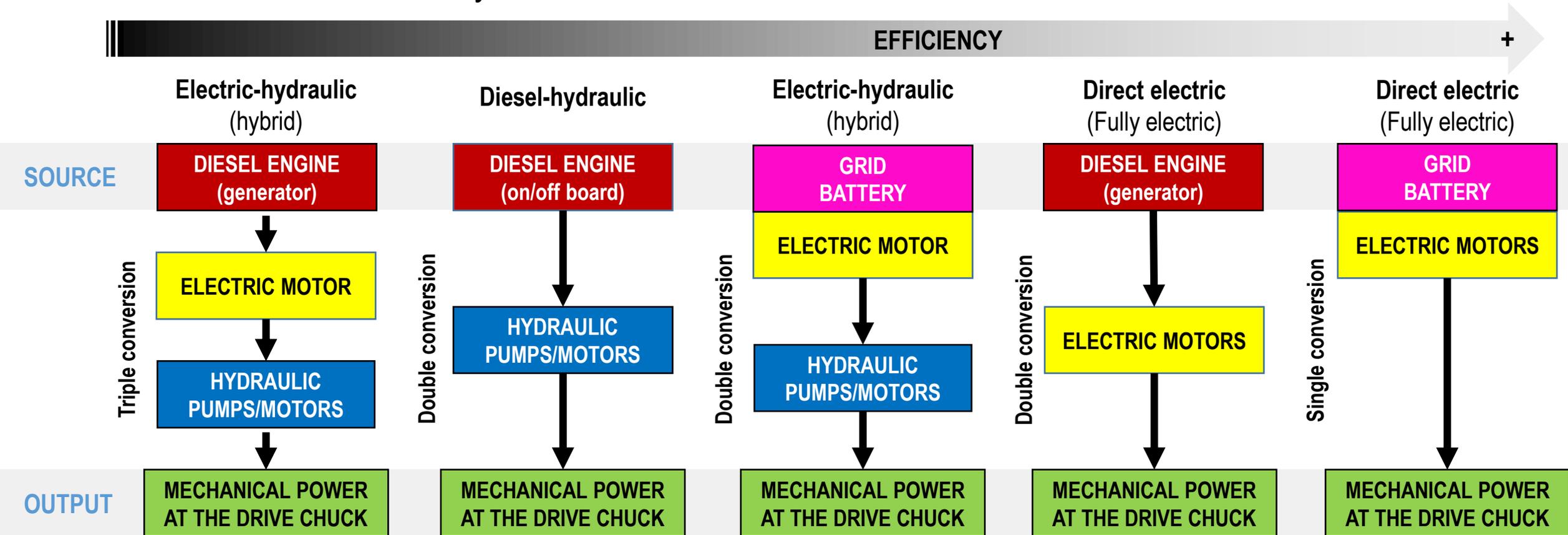
# What is electric HDD?

What an electric HDD actually is...



# What is electric HDD?

Evolution from diesel-hydraulic to direct electric drills



# Benefits of the direct electric drive

1. Efficiency
2. Multiple options for a power source
3. Minimal maintenance
4. High availability
5. Ease of service on the jobsite
6. Torque
7. Minimize contaminant spills
8. Data logging
9. Sound emission



# Challenges of the direct electric drive

1. High price point
2. Need for an external power source
3. Rigging-up time if landline and transformer needs to be preset



# Best practice

## When does it make sense to use an electric driven machine?

1. When restriction or regulations are in place that explicitly require electric equipment
2. When a significant sound emission reduction is required and there is no space for passive barriers (e.g., in urban areas)
3. Convenient access to the grid
4. Environmentally sensitive places (e.g., Natura 2000 areas)
5. Tight spaces (operating indoor)
6. What is the current equipment size limitation?

# Future possibilities

1. Wider range of models available
2. Availability of multiple power sources
3. High voltage
4. Induction carriage translation
5. Hydraulic driven design with pure natural oil or pure water
6. In the short term it will be hard to compete against the cost efficiency of hydraulic serial-produced machines on the condition to have non-contaminant hydraulic fluids\*



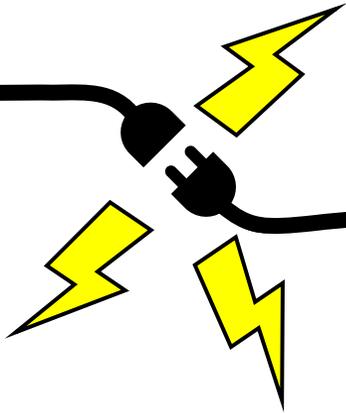
Impression

*\*e.g., bio-degradable hydraulic fluids*

# Conclusions

- Electric rigs have benefits that may outweigh non-electric rigs in some applications.
- We expect to see growth in the application of electric rigs, in both number and different sizes.
- Direct electric driven machines are resilient to change (regulations, power source, risk of contamination, etc.)
- The higher efficiency will guide the future of electric rigs regarding energy costs.





**Plug & drill**  
**Thank you!**



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