Electric Drilling Technologies

Environmentally Friendlier Drilling

electricdrilling.net          Ph: 972-381-0090
Utility Power for Oil and Gas Drilling Operations
Primary Load Centers on a Drilling Rig
600V Input – All Variable Speed Drives

Top Drive – Rotate Pipe String (800HP)

Draw Works – Raises block/pipestring (1350+ HP)

Mud Pumps – Pump fluid into pipe to rotate bit (2 x 1500HP)
Conventional Oil Field Electrical Power

Typical Rig Load = 1,500 – 2,500 kW

- 52+ dB - High Noise level
- 1500-2500 gallons fuel/day
- Requires frequent refueling traffic
- Expensive to operate and maintain
- High CO2 Output
- Noxious emissions
With the same amount of power, the generators could be running.....
DFW Airport 2008
Generator Emissions greatly reduced *

- CO2 – reduced 4-5 tons per day
- Nox – 750-800 lbs per day
- VOC (Volatile Organic Compounds) 33-40 lbs per day
Operational Cost Comparison

Daily diesel operating cost
• Ave 2000 gallons
• Cost $2.00 Gallon
• Ave Daily Cost = $4,000.

Daily Utility Electric Operating Cost
• Ave 20,000 kWh Day
• Cost = .10
• Ave Daily Cost = $2,000.

✓ Daily Savings: $2,000.
Community Impact

- Diesel emissions eliminated
- Reduced noise
- Reduced fuel traffic
- Safer neighborhood environment
- No smoke rising from pad to be seen
- Happier Neighbors

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