



Electric Drilling Technologies

Environmentally Friendlier Drilling

electricdrilling.net

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Electric Drilling
TECHNOLOGIES

Utility Power for Oil and Gas Drilling Operations

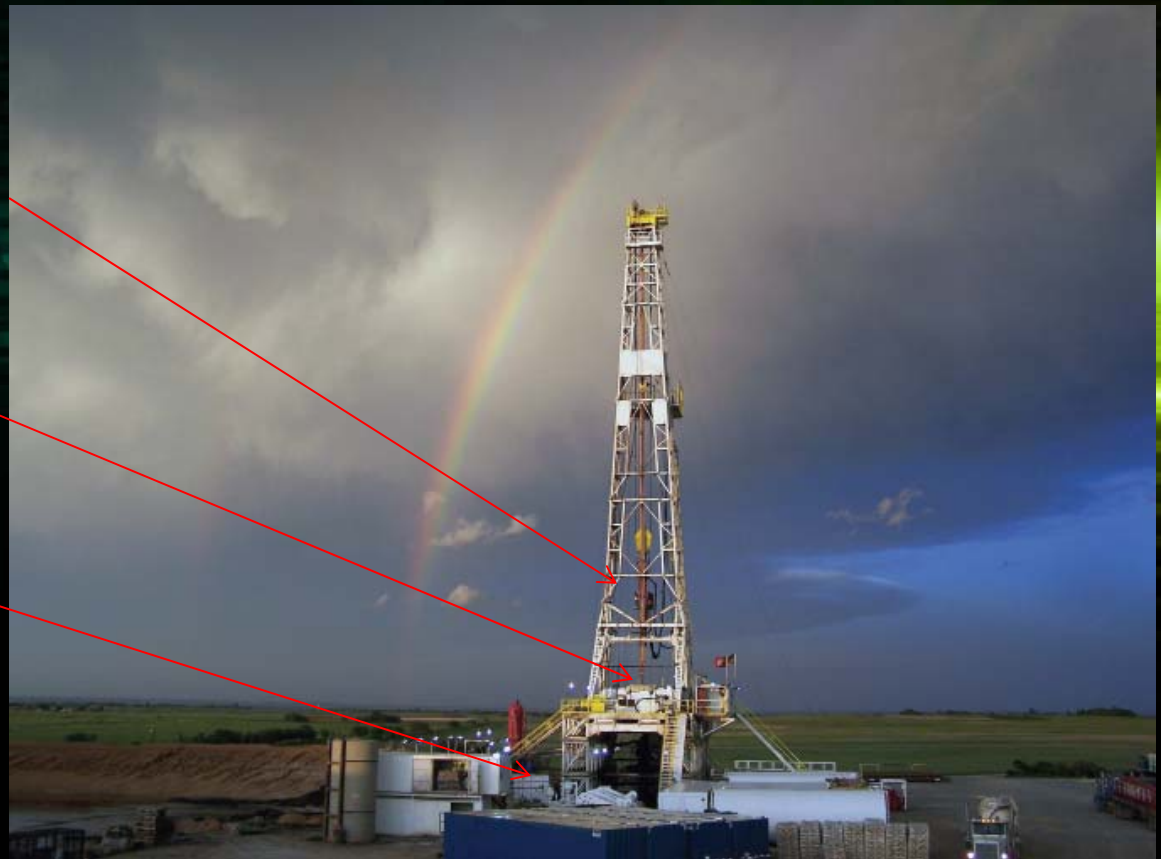


Primary Load Centers on a Drilling Rig 600V Input – All Variable Speed Drives

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)



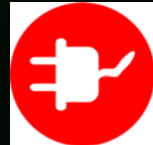
Conventional Oil Field Electrical Power

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

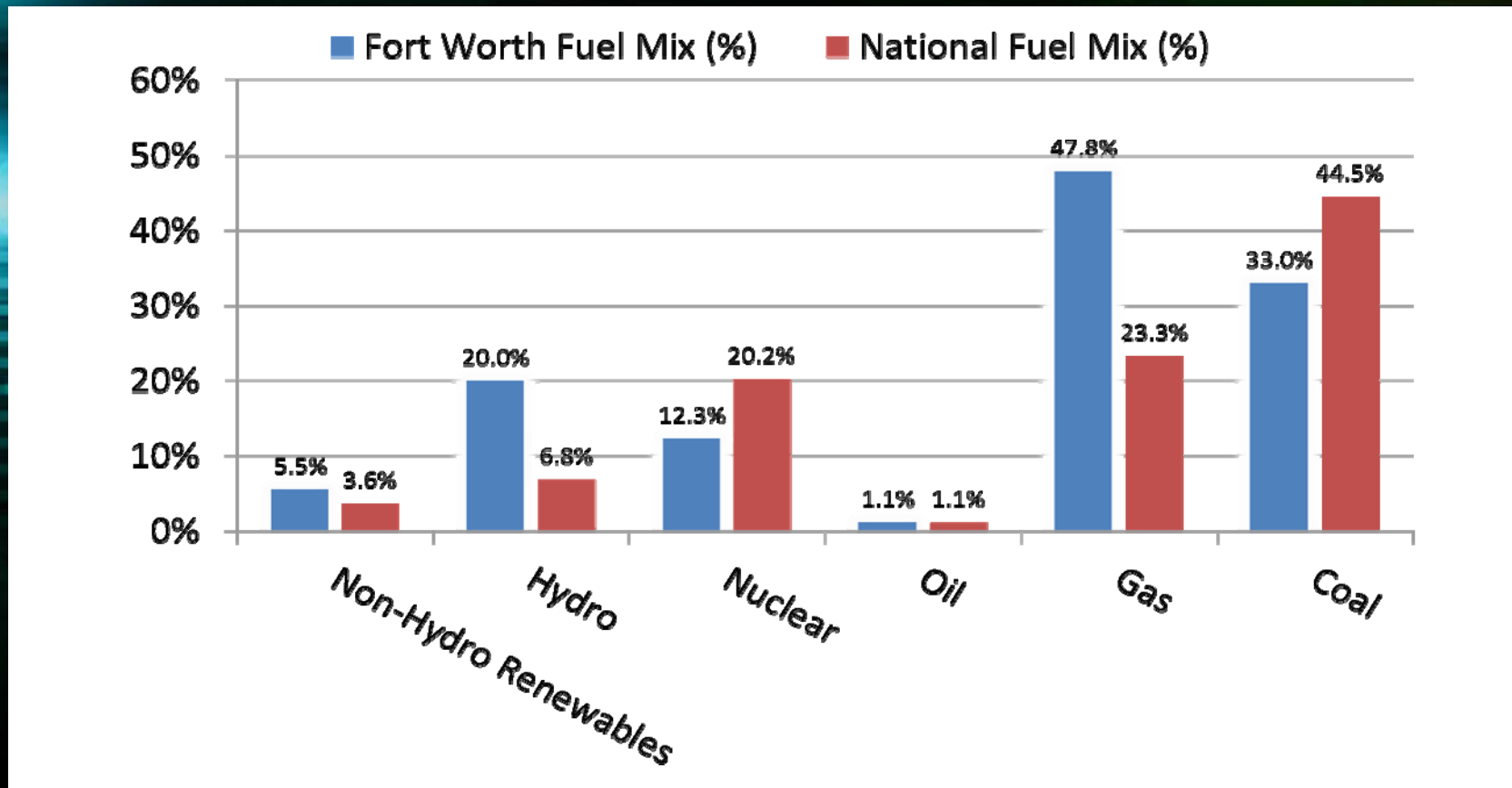


Electric Drilling 2015



Environmental Impact

- ✓ Generator Emissions greatly reduced *
 - CO2 – reduced 4-5 tons per day
 - Nox – 750-800 lbs per day
 - VOC (Volatile Organic Compounds) 33-40 ;bs 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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