

## Rapid Power Deployment for E-Frac Conversion in Oil & Gas



This case study highlights how VoltaGrid supported an oil & gas service company transitioning from diesel-based hydraulic fracturing to electric (e-frac) fleets. The company needed 30–40 megawatts of power in under 20 seconds, alongside on-site compressed natural gas (CNG) supply. VoltaGrid provided this through our mobile power generation and CNG trailer fleet.

# THE CHALLENGE

The client faced two key challenges: first, the need for rapid, near-instantaneous power delivery—30 to 40 megawatts in under 20 seconds—to power their new e-frac fleets. Second, the switch from diesel to CNG required reliable on-site gas supply. Additionally, they needed mobility—being able to disassemble and move to a new site, gas line included, in less than eight hours.

# THE SOLUTION

VoltaGrid deployed mobile power generation capable of delivering the 30 to 40 megawatts nearly instantaneously. In parallel, our mobile CNG trailers provided on-site natural gas supply. Importantly, our modular system allowed us to move with the client from site to site, fully disassembling and reassembling operations—including gas lines—in under eight hours.



# THE RESULTS

By converting to e-frac powered by CNG, the client significantly reduced emissions.

Compared to diesel, CNG-powered operations resulted in up to 25% lower CO<sub>2</sub> emissions and over 90% fewer NO<sub>x</sub> and particulate emissions. In addition, the flexibility of VoltaGrid's mobile power and gas fleet enabled the client to maintain operational agility, relocating in less than eight hours. Overall, the shift reduced environmental impact and enhanced efficiency, making operations cleaner and faster.



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