

Halliburton And VoltaGrid Electric Solution Reduces Emissions for Chesapeake Energy Corporation

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Halliburton Company (NYSE: HAL) and VoltaGrid LLC today announced the first successful deployment of an advanced electric fracturing solution. This project is the first pad in a multi-year contract with Chesapeake Energy Corporation (NASDAQ: CHK) with more than 140 stages in the Marcellus. It combines Halliburton's all-electric fracturing spread featuring the Zeus™ 5,000 horsepower (HHP) electric pumping unit with VoltaGrid's advanced power generation system. This high-performing solution reduced emissions for Chesapeake by 32% and applied over 25 megawatts of lower-carbon power generation by leveraging Chesapeake's local field gas network.

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“By safely reducing our emissions profile without impacting the reliability and performance of our operations, this partnership has exceeded our expectations and further demonstrates our commitment to leading a responsible energy future as we continue on our path towards achieving net-zero direct emissions,” said Patrick Finney, Chesapeake’s Vice President – Completions.

Chesapeake credited the two technologies for reducing emissions and driving additional fuel savings. Unlike other pumping units that may average around 3,000 HHP, a single Zeus pumping unit delivers 5,000 HHP at over 22 barrels per minute (BPM). Halliburton’s all-electric spread features a newly designed large-bore, dual-manifold trailer, which allows the Zeus pumps to achieve higher rate capacities with fewer failure points. With its electric-based powertrain and industry leading pump technology, the Zeus pumping unit delivers 40% higher performance than conventional pumps. This spread also provides electric blending, wireline, and ancillary equipment.

“Halliburton’s Zeus fracturing operation exceeds expectations of what is possible with electric fracturing technology,” says Michael Segura, vice president of Halliburton Production Enhancement. “Being able to sustainably deliver higher performance on a prolonged basis reflects the performance and reliability built into this electric pumping equipment.”

Using VoltaGrid’s emissions portal, Chesapeake can track and analyze real-time emissions and carbon intensity throughout the completions operation, allowing the operator to maximize fuel efficiency and minimize emissions.

“Chesapeake is the first operator to use the VoltaGrid system on an electric frac operation,” said Nathan Ough, CEO of VoltaGrid. “The exceptional performance of VoltaGrid allowed Chesapeake to quickly scale power generation to meet the high intermittent demands of a modern completions design.”