

## Maximizing Cost Efficiencies; Minimizing Environmental Impact



In Canada, clients **ELIMINATED**  
**~420 roundtrip truckloads** of  
diesel that would have otherwise  
been transported to the job site

STEP Energy Services supports our clients in their pursuit of sustainable solutions to improve the fuel efficiency and environmental stewardship of their operations.

Dual-fuel fracturing pumps use a mixture of natural gas and diesel which reduces diesel usage, improves operational efficiencies and minimizes the environmental impact of hydraulic fracturing operations. STEP's approach to maximizing dual-fuel efficiency is through the optimization of equipment layout on the project site, monitoring engine performance from the field and continually analyzing pump fleet metrics in the office. This ultimately leads to optimal dual-fuel displacement and substitution rates and a significant savings for operators.

STEP's dual-fuel fracturing fleet:

- Represents **132,500 HP** in Canada
- **Delivers industry-leading substitution and displacement rates** through STEP's proprietary operational procedures which allows for full suite of diagnostics and optimized system performance
  - Our Tier 2 dual-fuel fleet consistently delivers sustained substitution rates of 65% without loss of hydraulic horsepower
- **Minimizes on-site diesel consumption** during operations which **significantly reduces fuel costs**
  - Approximate savings calculated between \$10,000 to \$30,000 per day\* using our Tier 2 dual-fuel assets
- **Reduces the volume of diesel transported** to client's job site and associated emissions
- **Decreases emissions intensity** of operations

As operators continue to pursue sustainability targets that span the lifecycle of their operations, STEP will support our clients in the interest of these goals and expand our dual-fuel capabilities based on market demand.

\*Estimates based on hydraulic fracturing jobs ranging from 5,000 liters of diesel per day for shallow, lower rate operations to 75,000 liters per day for operations in deep, high pressure proppant-intensive operations.

Visit <http://www.stepenergyservices.com/resources/dualfuelcalculator> to calculate your potential cost savings.