

**To:**  
Devon Energy Corporation  
333 West Sheridan Avenue  
Oklahoma City, Oklahoma  
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**Project name:**  
Methane Intensity Calculation Verification

**Date:**  
July 9, 2020

# Verification Documentation for Methane Intensity Calculation

AECOM used professional judgement and best engineering practices in applying the following methodology of calculating methane intensity:

$$\text{Methane Intensity \%} = \frac{E}{G * C * D * \frac{1,000 \text{ scf}}{\text{mscf}} * \frac{1 \text{ tonne}}{1,000 \text{ kg}}}$$

Where:

- E* = Total Methane Emissions (Tonnes of Methane)
- G* = Total Gas Produced (Mscf)
- C* = Weighted Average Mole Fraction of Methane in Produced Gas
- D* = Methane Density of 0.0192 kg/scf

Using data submitted to the U.S. Environmental Protection Agency via the Greenhouse Gas Reporting Program for Devon Energy Corporation’s reportable facilities and data provided directly from Devon Energy Corporation for its non-reportable facilities, the equation shown above was used to calculate the methane intensity for calendar years (CY) 2018 and 2019.

With the parameters outlined in the table below, the methane intensities for CY 2018 and 2019 were calculated to be 0.316% and 0.277%, respectively.

Calendar Year	Total Methane Emissions (E) <i>Tonnes of Methane</i>	Total Gas Produced (G) <i>Mscf</i>	Weighted Average Mole Fraction of Methane in Produced Gas (C)	Methane Intensity <i>Percent</i>
2018	31,805	664,778,051	0.788	0.316%
2019	28,898	690,070,327	0.787	0.277%

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