

$$NG_{emissions} = \sum_{i=1}^n \left[ NG_i \times NG_{CH_4} \times 0.667 \times 0.001 \times \left[ ((1 - DE_i) \times 21) + \left( DE_i \times \frac{12}{16} \times \frac{44}{12} \right) \right] \right]$$