

$$CO_2 = \sum_{n=1}^{12} \left[\sum_{i=1}^k \left[(V_{GI})_{i,k} \times (C_{GI})_{i,k} \times \frac{(MM_{GI})_i}{MVC} \right] - \sum_{j=1}^m \left[(V_{GP})_{j,k} \times (C_{GP})_{j,k} \times \frac{(MM_{GP})_j}{MVC} \right] \right] \times 3.664 \times 1$$