

$$CO_2 = \left[(V_G \times MF_{CO_2}) + \left(\sum_{k=1}^m (MF_k \times CA_k) \times V_G \times eff_t \right) \right] \times \left[\frac{T_{sc} \times P_t}{T_t \times P_{sc}} \right] \times \rho_{CO_2} \times 0.001$$