

$$CO_2 = \sum_{i=1}^{12} \left[ \begin{aligned} &(PC \times MP) - \left( CSM \times \frac{MP}{1000} \right) - (BC \times PC \times MP \times (S_p + Ash_p + H_p)) \\ &- ((1 - BC) \times PC \times MP \times (S_c + Ash_c)) - (MP \times CP) \end{aligned} \right] \times 3.664$$