

$$CO_2 = \sum_{t=1}^{12} \left[\left[GC \times \frac{(100 - H_2O_{GC} - V_{GC} - S_{GC})}{100} - (CC + UCC + DE) \times \frac{(100 - S_{CC})}{100} \right] \times 3.664 \right. \\ \left. + (CCV \times 0.035 \times 2.75) \right]_t$$