

$$CO_{2,COKE} = \left[(CC \times TC_{CC}) + \sum_{i=1}^n (MF_i \times TC_{MF_i}) + (GC \times TC_{GC}) + (PC \times TC_{PC}) + (GHF \times TC_{GHF}) - \sum_{j=1}^m (SFC_j \times TC_{SFC_j}) \right] \times 3,664$$