

$$CO_{2,EAF} = \left[(I \times C_I) + (SC \times C_{SC}) + (FL \times C_{FL}) + (EL \times C_{EL}) \right. \\ \left. + \sum_{i=1}^n (CAR_i \times C_{CAR,i}) - (ST \times T_{ST}) - (SL \times C_{SL}) - (R \times C_R) \right] \times 3.664$$