

$$CO_{2,LF} = \left[ \begin{aligned} & (MS_{SUP} \times C_{MSsup}) + \sum_{j=1}^m (AD_j \times C_{AD,j}) + (EL \times C_{EL}) \\ & - (MS_{prod} \times C_{MSprod}) - (SL \times C_{SL}) - (R \times C_R) - (Rp \times C_{Rp}) \end{aligned} \right] \times 3.664$$