

$$CO_{2,FP} = \left[\begin{aligned} & (ALe \times TC_{ALe}) + \sum_{j=1}^m (AD_j \times TC_{AD,j}) + (EC \times TC_{EC}) \\ & - (ALs \times TC_{ALs}) - (LA \times TC_{LA}) - (R \times TC_R) - (RS \times TC_{RS}) \end{aligned} \right] \times 3,664$$