

$$E_{CO_2} \sum_{i=1}^I \sum_{n=1}^{12} (EF_{LIME_{i,n}} * M_{LIME_{i,n}}) + \sum_{i=1}^I \sum_{n=1}^{12} (EF_{LAD_{i,n}} * M_{LAD_{i,n}}) + \sum_{i=1}^I E_{waste_{i,n}} \quad (\text{Eq. 3-4})$$