$$E_{e,E} = \left(C_{liq,\,f}\right)\left(V_{liq,\,f}\right)\left(D_{liq,\,f}\right) + \left(C_{vap,\,f}\right)\left(V_{vap,\,f}\right)\left(D_{vap,\,f}\right) \qquad \text{[Equation 9]}$$