$$E_{\text{elec}}^{i} = \sum_{\mu\nu}^{\text{AO}} D_{\mu\nu}\left(H_{\mu\nu}^{\text{core}} + F_{\mu\nu}\right)$$

$$E_{\text{total}}^{i} = E_{\text{elec}}^{i} + E_{\text{nuc}},$$