\[
\begin{align*}
    CO_2 &= \sum_{n=1}^{12} \left[ T_n \times EF_{CO_2,n} \right] \times \frac{2000}{2205} \tag{Eq. BB-2}\n    CH_4 &= \sum_{n=1}^{12} \left[ T_n \times 10.2 \right] \times \frac{2000}{2205} \times 0.001 \tag{Eq. BB-3}
\end{align*}
\]

Where:
- \(CO_2\) = Annual \(CO_2\) emissions from silicon carbide production facility (metric tons \(CO_2\)).
- \(T_n\) = Petroleum coke consumption in month \(n\) (tons).
- \(EF_{CO_2,n}\) = \(CO_2\) emissions factor from month \(n\) (calculated in Equation BB-1 of this section).
- \(2000/2205\) = Conversion factor to convert tons to metric tons.
- \(n\) = Number of month.

(c) If GHG emissions from a silicon carbide production furnace or process unit are vented through the same stack as any combustion unit or process equipment that reports \(CO_2\) emissions using a CEMS that complies with the Tier 4 Calculation Methodology in subpart C of this part (General Stationary Fuel Combustion Sources), then the calculation methodology in paragraph (b) of this section shall not be used to calculate process emissions. The owner or operator shall report under this subpart the combined stack emissions according to the Tier 4 Calculation Methodology in §98.33(a)(4) and all associated requirements for Tier 4 in subpart C of this part.

(d) You must calculate annual process \(CH_4\) emissions from all silicon carbide production combined using Equation BB-3 of this section:

\[
    CH_4 = \sum_{n=1}^{12} \left[ T_n \times 10.2 \right] \times \frac{2000}{2205} \times 0.001 \tag{Eq. BB-3}
\]

Where:
- \(CH_4\) = Annual \(CH_4\) emissions from silicon carbide production facility (metric tons \(CH_4\)).
- \(T_n\) = Petroleum coke consumption in month \(n\) (tons).
- 10.2 = \(CH_4\) emissions factor (kg \(CH_4\)/metric ton coke).
- \(2000/2205\) = Conversion factor to convert tons to metric tons.
- 0.001 = Conversion factor from kilograms to metric tons.
- \(n\) = Number of month.