

Greenhouse Gas Emissions Updates

The following tables¹ from PEA **Section 5.8 (Greenhouse Gas Emissions)** have been updated based on Data Request No. 3, Response No. 1. Updated emissions input and output files have been included as **Attachment C**, Air Quality Modeling Files. Project usage of SF₆ has been updated to 15,000 pounds, as described in Data Request 3, Response 3. Based on CARB's older regulations, the allowable SF₆ leak rate for circuit breakers is limited to one percent. Based on the total usage of 15,000 pounds, this equates to 150 pounds per year. Given this, 150 pounds per year was used in this updated GHG analysis.

Table 5.8-3: Expected Annual Construction CO₂e Emissions

Year	CO ₂ e (MT/Year)
Skyline Terminal and San Jose B Substation 2026	<u>1,490.00</u> <u>1853</u>
Skyline Terminal and San Jose B Substation 2027	<u>724.00</u> <u>1402</u>
Skyline Terminal and San Jose B Substation 2028	<u>78.40</u> <u>726</u>
<u>Skyline Terminal and San Jose B Substation 2029</u>	<u>724</u>
<u>Skyline Terminal and San Jose B Substation 2030</u>	<u>147</u>
Grove Terminal and Metcalf Substation 2026	<u>972.00</u> <u>1482</u>
Grove Terminal and Metcalf Substation 2027	<u>376.00</u> <u>832</u>
Transmission Lines 2026	<u>1,835.00</u> <u>917</u>
Transmission Lines 2027	<u>3,960.00</u> <u>2,232</u>
Transmission Lines 2028	<u>683.00</u> <u>214</u>
Total	<u>10,155.70</u>11,529
Yearly Average Construction Emissions (MT/year over 30 years)	<u>338.53</u>384
Expected construction emissions are based upon CalEEMod modeling assumptions (refer to Appendix 5-Data Request 3-A, Response No. 1, Attachment C) through years 2026 to 20 <u>28</u> <u>30</u> .	

Table 5.8-4: Operational Emissions Summary MT/Year

Site Locations	CO ₂ e (MT/Year)
Skyline Terminal Operations	<u>167.00</u>
Grove Terminal Operations	<u>167.00</u>
SF ₆ Emissions (Total allowed one percent or <u>60</u> <u>150</u> pounds per year)	<u>620.54</u> <u>1,551</u>
Amortized Construction Emissions (Table 5.8-3 above)	<u>338.53</u> <u>384</u>
Total Construction and Operations (MT/Year)	<u>1,293.04</u>2,269
Threshold	10,000
Exceeds Thresholds?	NO
Data is in MT. Conversion rate is 1 pound = 0.000453592 MT. GWP SF ₆ = 22,800 Data is presented in decimal format and may have rounding errors.	

¹ Where edits were made to text from the PEA, added text is shown in underline and removed text is shown in ~~strike through~~.