AB 617 Truck Subcommittee Meetings

Previous Meetings

1. May 22, 2020
2. May 29, 2020
3. June 5, 2020
4. June 12, 2020
5. June 19, 2020

TRUCK Subcommittee Members
Joy Williams, EHC
David Flores, (Alt), EHC
Lianna Rios, SDG&E
Sal Razo Abrica, Teamsters
Larry Hofreiter, Port
Philomena Marino, Resident
Azucena Garcia-Ferro, CPI
Derrick Robinson, CPI
Keri Robinson, SANDAG
Jose Marquez, Caltrans
Kathy Keehan, APCD
Tom Maclean, Port, Guest
Susan Feedman, SANDAG
Jeff Hoyos, SANDAG
TAMT Interviews

Interviews Completed

- Dole
- IMI
- Zucarmex
- Vestas
- Terminalift (G2 Steel)
- Yara (G2 Steel)

Pending

- NCL (G2 Steel)

Other

- SDRS

85% of Activity
NCMT Interviews
Currently Interviewing

Pasha
• Storage / Otay Mesa
• Local Dealers
• Regional Dealers
• Rail (40%)
TRUCKS – Preliminary Findings to Date TAML 6/19/20

Estimated Truck Trips per Month On Average

<table>
<thead>
<tr>
<th>Containers</th>
<th>Dry Bulk</th>
<th>Break Bulk</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Distribution Center</td>
<td>Otay Mesa</td>
<td>NASSCO</td>
</tr>
<tr>
<td>Approx. 5 miles one way</td>
<td>Approx. 20 miles one way</td>
<td>Approx. 3 miles one way</td>
</tr>
</tbody>
</table>

- National Distribution Center: 520 (20%)
- National Distribution Center: 2,280 (80%)
- Otay Mesa: 330 (33%)
- Otay Mesa: 120 (12%)
- Otay Mesa: 550 (55%)
- NASSCO: 280
- NASSCO: 230 (82%)
- NASSCO: 50 (18%)

Please note these are preliminary estimates and are subject to change.
TRUCKS – Potential Increases Next Year

Estimated Truck Trips per Month On Average

- National Distribution Center
  - Approx. 5 miles one way
  - 2,800
    - 520 (20%)
    - 2,280 (80%)

- Existing Dry Bulk Tenant
  - Up to 8 additional vessel calls
  - Regular route to Otay Mesa
  - 1,600
    - 600
    - 330 (33%)
    - 120 (12%)
    - 550 (55%)

- Otay Mesa
  - Approx. 20 miles one way
  - 330
    - 120 (36%)

- NASSCO
  - Approx. 3 miles one way
  - 280
    - 230 (82%)
    - 50 (18%)

Please note these are preliminary estimates and are subject to change.
# Emission Reductions from Diesel Alternatives

**Emission Factor (in grams per mile)**

<table>
<thead>
<tr>
<th></th>
<th>Diesel</th>
<th>EV</th>
<th>NG</th>
<th>RNG</th>
<th>RD</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>2.19</td>
<td>0</td>
<td>0.22</td>
<td>0.22</td>
<td>2.19</td>
</tr>
<tr>
<td>PM</td>
<td>0.01</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.01</td>
</tr>
<tr>
<td>ROG</td>
<td>0.03</td>
<td>0</td>
<td>0.03</td>
<td>0.03</td>
<td>0.03</td>
</tr>
<tr>
<td>GHG</td>
<td>2,057</td>
<td>541</td>
<td>1,803</td>
<td>956</td>
<td>655</td>
</tr>
</tbody>
</table>

**Reductions Compared to Diesel**

<table>
<thead>
<tr>
<th></th>
<th>Diesel</th>
<th>EV</th>
<th>NG</th>
<th>RNG</th>
<th>RD</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>-</td>
<td>100%</td>
<td>90%</td>
<td>90%</td>
<td>0%</td>
</tr>
<tr>
<td>PM</td>
<td>-</td>
<td>100%</td>
<td>80%</td>
<td>80%</td>
<td>0%</td>
</tr>
<tr>
<td>ROG</td>
<td>-</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>GHG</td>
<td>-</td>
<td>74%</td>
<td>12%</td>
<td>54%</td>
<td>68%</td>
</tr>
</tbody>
</table>

## Diesel
- Electric Vehicles / H
- Natural Gas
- Renewable Natural Gas
- Renewable Diesel

**Notes**
- EMFAC (CARB) Data base
- Port uses RD in its fleet
- Hydrogen same as EV subject to source of electricity
Ad Hoc Truck Subcommittee Description

Ad hoc Truck subcommittee continuing
A group meeting to discuss the technological and institutional obstacles to greater electrification of truck fleets, particularly trucks serving the Port cargo terminals; to compile useful information about the truck fleets and the distances they routinely travel; and to try to identify solutions that can facilitate a shift away from fossil fuels while protecting truck drivers from unsustainable burdens.