

## Electrified Parking Spaces Facility: Emission Reduction Calculation

The DEQ calculates emissions and reductions for *vehicles*. However, there are situations where a *facility* provides emission reductions. Here is a method for estimating emission reductions from Electrified Parking Spaces/Truck Stop Electrification (EPS/TSE) using the DEQ.

### A. Create a New Project and then 'Add a Vehicle or Engine Group'

- 1) Onroad Vehicles and Target Fleet = Long Haul Combination
- 2) Class = Class 8 (this should be the default)
- 3) Sector = Select the sector that best describes the trucks using the facility
- 4) Quantity = Number of parking spaces
- 5) Baseline Engine Model Year = The typical Engine Model Year of the trucks using the EPS
- 6) Baseline Fuel Type = ULSD (diesel)
- 7) Annual Fuel Volume (in gallons per vehicle) =  $0.8 * \text{hoteling hours}$  (see Step 10 for calculation of hoteling hours)
- 8) Annual Miles Traveled = 1
- 9) Annual Idling Hours = 0
- 10) Annual Hoteling Hours = Number of hours each parking space will be in use each year.  
For example, if a parking space is used 10 hours/day on average, and there are 365 days per year, then 3,650 hours.
- 11) Upgrade Year = The year the electrified parking spaces will begin being used
- 12) Remaining Life = Enter the expected lifetime of the EPS installation

### B. After saving the Group, 'Add an Upgrade'

- 13) Idling Control Strategies = Electrified Parking Space
- 14) New Annual Idling Hours = 0
- 15) New Annual Hoteling Hours = 0
- 16) Enter 'Upgrade Cost' and 'Labor Cost' of each parking space if you would like to estimate cost effectiveness.
- 17) Save the Upgrade.

**C. Select 'Quantify Project Emissions.'** The Lifetime Results are the Annual Results multiplied by the Remaining Life that was saved for the group.