

## Trailer Refrigeration Unit: Emission Reduction Calculation

Here is a method for estimating emission reductions from a Trailer Refrigeration Unit (TRU) using the DEQ.

### **A. Create a New Project, select 'Onroad/Nonroad/Locomotive', then 'Add a Vehicle or Engine Group'**

- 1) Nonroad Equipment = Stationary
- 2) Class/Equipment = Power Generation
- 3) Baseline Engine Model Year and/or Baseline Tier = for the TRU, not the truck
- 4) Upgrade Year = for the TRU, not the truck
- 5) Baseline Fuel Type = for the TRU, not the truck
- 6) Baseline Annual Fuel Volume (in gallons for group) = for the TRU, not the truck
- 7) Baseline Annual Usage Hours = for the TRU, not the truck
- 8) Baseline Horsepower = for the TRU, not the truck
- 9) Remaining Life = for the baseline TRU, not the truck

### **B. After saving the Group, add an Upgrade.**

- 10) Upgrade Type = Engine Replacement
- 11) Upgrade = select the replacement and fuel type of the new TRU
- 12) New Engine Model Year and/or New Tier = for new TRU
- 13) New Horsepower = for new TRU
- 14) Annual Diesel Gallons Reduced (for group) = from improved fuel-efficiency of new TRU
- 15) Enter costs for new TRU if desired
- 16) Save the Upgrade.

### **C. Quantify.**