**CMAP FY 2018-2022 CMAQ PROJECT APPLICATION**

**DiReCT Emissions Reduction – EMISSIONS BENEFIT form**

|  |  |
| --- | --- |
| **PROJECT EMISSIONS BENEFIT DATA** | Project Title:  |
| Complete this section for each group of vehicles (type, engine, technology, etc.). Use additional sheets as needed. |
| Vehicle Type: [ ]  School Bus [ ]  Transit Bus [ ]  Refuse Hauler [ ]  Short Haul [ ]  Long Haul [ ]  Delivery Truck(check one) [ ]  Emergency Vehicle [ ]  On-Highway [ ]  City/County Vehicle [ ]  Passenger Locomotive [ ]  Switch Engine [ ]  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ specify |
| Vehicle Size: [ ]  Class 2b (8,501 - 10,000 lbs.) [ ]  Class 3 (10,001 - 14,000 lbs.) [ ]  Class 4 (14,001 - 16,000 lbs.)(check one) [ ]  Class 5 (16,001 - 19,500 lbs.) [ ]  Class 6 (19,501 - 26,000 lbs.) [ ]  Class 7 (26,001 - 33,000 lbs.) [ ]  Class 8a (33,001 - 60,000 lbs.) [ ]  Class 8b (60,001 and over) [ ]  School Bus [ ]  Transit Bus |
| Horsepower [ ]  0 [ ]  1 [ ]  3 [ ]  6 [ ]  11 [ ]  16 [ ]  25 [ ]  40 [ ]  50 [ ]  75 [ ]  175(check one) [ ]  300 [ ]  600 [ ]  750 [ ]  1000 [ ]  1200 [ ]  2000 [ ]  3000 |
| Current Fuel Type: [ ]  LPG [ ]  LNG [ ]  CNG [ ]  Biodiesel 100 [ ]  Biodiesel 20 [ ]  Biodiesel 10 [ ]  Biodiesel 5(check one) [ ]  E85 [ ]  Diesel, 3,400 ppm sulfur [ ]  Diesel, 500 ppm sulfur [ ]  Diesel, 15 ppm sulfur [ ]  Emulsion |
| Model Year (all vehicles in a group should have the same model year): \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Before project: Fuel Consumed (gallons per year of current fuel type for all vehicles in the group combined): \_\_\_\_\_\_\_\_\_\_\_ gallons |
| After project: Fuel Consumed (gallons per year of current fuel type for all vehicles in the group combined): \_\_\_\_\_\_\_\_\_\_\_ gallons |
| Before project Annual Vehicle Miles/vehicle in group: \_\_\_\_\_\_\_\_\_\_\_ miles Annual Idling Hours/vehicle in group: \_\_\_\_\_\_\_\_\_hours |
| After project Annual Vehicle Miles/vehicle in group: \_\_\_\_\_\_\_\_\_\_\_ miles Annual Idling Hours/vehicle in group: \_\_\_\_\_\_\_\_\_hours |
| Technology to be Applied | # veh | Technology to be Applied | # veh |
| Diesel Oxidation Catalyst |  | Recalibration |  |
| Diesel Oxidation Catalyst + Closed Crankcase Ventilation |  | Selective Catalytic Reduction |  |
| Diesel Particulate Filter |  | Exhaust Gas Recirculation + Diesel Particulate Filter |  |
| Hybrid Electric Replacement w/ Diesel Particulate Filter |  | Emissions Control Devices |  |
| Partial Flow Filter |  | Other |  |
| Compressed Natural Gas (CNG) Replacement |  | Engine Repower |  |
| Lean NOx Catalyst/Diesel Particulate Filter |  | Engine Replacement |  |
| Post-Implementation Fuel Type: [ ]  LPG [ ]  LNG [ ]  CNG [ ]  Biodiesel 100 [ ]  Biodiesel 20 [ ]  Biodiesel 10 [ ]  Biodiesel 5(check one) [ ]  E85 [ ]  Diesel, 3,400 ppm sulfur [ ]  Diesel, 500 ppm sulfur [ ]  Diesel, 15 ppm sulfur (non-road only) [ ]  Emulsion [ ]  Electricity |
| Diesel Vehicle Replacement ApplicantsExpected remaining life of vehicles being replaced (years):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Total Number of Vehicles (all groups combined): \_\_\_\_\_\_\_\_\_\_\_\_\_ vehicles |
| Indicate on the map the location of where vehicles will be in service. |
| Time of day that vehicles will be in operation (hour): From\_\_\_\_\_\_\_\_\_to \_\_\_\_\_\_\_\_\_. |
| Ridership Demographics (If vehicle is for transit service):% over 65 in age \_\_\_\_\_\_\_\_, % under 5 in age \_\_\_\_\_\_\_\_\_, median household income \_\_\_\_\_\_\_\_, % minority \_\_\_\_\_\_\_\_\_ |

|  |
| --- |
| **PROJECT DESCRIPTION** (Use this space to provide additional details on the project and include links or other reference to the US EPA/CARB certification or verification.) |
| 1. Please describe improvements. Include links or other reference to the US EPA/CARB certification or verification. |