

# PD-26: Construction Equipment Emission Reduction

1-2 points

**Goal:** Reduce air emissions from non-road construction equipment.

## Sustainability Linkage

Reducing emissions from construction equipment supports environmental and social principles by lessening impacts to air quality and reducing fossil fuel consumption.



Affected Triple Bottom Line Principles

## Background and Scoring Requirements

### Scoring Requirements

#### Requirement PD-26.1

#### 1-2 points. Implement Methods to Reduce Emissions

Implement one or more of the methods to reduce emissions in Table PD-26.1.A. **Points for methods are cumulative if roadways have more than one feature; however, this criterion shall not exceed a total of two points.**

TABLE PD-26.1.A. METHODS TO REDUCE CONSTRUCTION EQUIPMENT EMISSIONS (CONTINUED ON NEXT PAGE)

Requirement	No. Points	Method
PD-26.1a	1	Use non-road construction equipment that have engines that meet the current U.S. Environmental Protection Agency (EPA) Tier emission standards (Tier 3/Interim, Tier 4 as of April 2011) in effect for non-road engines of the applicable engine power group and account for at least 50 percent of the non-road construction equipment fleet operating hours for the project.
PD-26.1b	1	Use non-road construction equipment that have diesel retrofit devices for after-treatment pollution control verified by EPA or the California Air Resources Board (CARB) for use with non-road engines and account for at least 50 percent of the non-road construction equipment fleet operating hours for the project.
PD-26.1c	1	Owner shall require contractor to implement a no-idling policy during construction. The policy should include, at a minimum, the following topics (or equivalents): <ul style="list-style-type: none"> <li>• When drivers arrive at loading or unloading areas to drop off or pick up passengers, they should turn off their vehicles as soon as practical to eliminate idling time and reduce harmful emissions. Vehicles should not be restarted until passengers are ready to depart. Exceptions include conditions that would compromise passenger safety, such as extreme weather or idling in traffic.</li> <li>• Delivery vehicles should turn off their engines while making deliveries to the construction site.</li> <li>• All drivers of any company vehicle should receive a copy of the policy and have an opportunity to discuss it at the beginning of construction.</li> </ul>

Requirement	No. Points	Method
PD-26.1d	1	Contractor reduces emissions related to hauling earthwork onsite by using larger non-road hauling vehicles and establishes a materials hauling plan to make efficient use of backhauls, maximizing efficiency, and minimizing the number of “empty” trucks.
PD-26.1e	2	Use non-road construction equipment that have engines that meet the current U.S. EPA Tier emission standards (Tier 3/Interim, Tier 4 as of April 2011) in effect for non-road engines of the applicable engine power group and account for at least 75 percent of the non-road construction equipment fleet operating hours for the project.
PD-26.1f	2	Use non-road construction equipment that have diesel retrofit devices for after-treatment pollution control verified by EPA or the CARB for use with non-road engines and account for at least 75 percent of the non-road construction equipment fleet operating hours for the project.

## Resources

None Referenced.

## Scoring Sources

The project is considered to have met this criterion if the requirements above can be reasonably substantiated through the existence of one or more of the following documentation sources (or equal where not available):

1. A signed letter from the prime contractor stating the total non-road construction fleet operating hours and the percentage of those operating hours that meet at least one of the three criteria.
2. Provide a list of all non-road construction equipment used on the project that contains the following information for each piece of equipment:
  - Make and model of each piece of equipment.
  - Operating hours associated with the project.
3. Contract Documents requiring the Contractor to have a no-idling policy.