

## FACTS ABOUT

# Tractor-Trailer Greenhouse Gas Regulation

*Reducing Climate Change Emissions from Tractor-Trailers*



## What is the purpose of the regulation?

The California Air Resources Board (ARB) approved the Tractor-Trailer Greenhouse Gas regulation to significantly reduce greenhouse gas emissions produced by certain heavy-duty tractor-trailers. The reduction in greenhouse gas emissions will be achieved by requiring the use of aerodynamic tractors and trailers that are also equipped with low rolling resistance tires. Along with reducing greenhouse gas emissions this regulation will, over time, save money as well as reduce our dependence on foreign oil.

The tractors and trailers subject to this regulation must either use United States Environmental Protection Agency (U.S. EPA) "SmartWay" certified tractors and trailers, or be retrofitted with SmartWay verified technologies. The SmartWay certification process is part of U.S. EPA's broader voluntary program called the SmartWay Transport Partnership (SmartWay) Program. For information about the SmartWay program, go to:

[www.epa.gov/smartway/](http://www.epa.gov/smartway/).

## Who is affected by the regulation?

The regulation applies primarily to owners of 53-foot or longer box-type trailers, including both dry-van and refrigerated-van trailers, and owners of the heavy-duty tractors that pull them on California highways. These owners are responsible for replacing or retrofitting their affected vehicles with compliant aerodynamic technologies and low rolling resistance tires. All owners, regardless of where their vehicles are registered, must comply with the regulation when they operate their affected vehicles on California highways.

Besides the owners of these vehicles, drivers, motor carriers, California-based brokers and California-based shippers that operate or use them also share in the responsibility for compliance with the regulation. One or all of these parties may be held accountable for operating or using non-compliant vehicles on California highways.

## What are the requirements of the regulation and when must I comply?

For tractors subject to the regulation:

- 2011 through 2013 model year (MY) **sleeper-cab** tractors that pull affected trailers must be SmartWay certified,
- 2011 through 2013 MY **day-cab** tractors that pull affected trailers must use SmartWay verified low rolling resistance tires,
- All 2010 and older MY tractors that pull affected trailers must use SmartWay verified low rolling resistance tires.

2014 MY and newer tractors are not subject to this regulation, since they must meet requirements of the federal Heavy-Duty Greenhouse Gas regulations. For more information go to

<http://www.epa.gov/otaq/climate/regs-heavy-duty.htm>

For trailers subject to the regulation:

- 2011 and newer MY 53-foot or longer box-type trailers must be **either**
  - SmartWay certified **or**
  - Retrofitted with SmartWay verified technologies, as follows:
    - Low rolling resistance tires, **and**
    - Aerodynamic technologies
- 2010 and older MY 53-foot or longer box-type trailers (with the exception of certain 2003 to 2009 MY refrigerated-van trailers) must meet the same aerodynamic technology requirements as 2011 and newer MY trailers, unless they previously registered to phase-in their compliance over time.
- 2010 and older MY trailers must use SmartWay verified low rolling resistance tires by January 1, 2017.
- 2003 to 2009 MY **refrigerated-van** trailers equipped with 2003 or newer MY transport refrigeration units have a compliance phase-in between 2017 and 2019.

## Who is not affected by the regulation?

The regulation does not apply to the following:

- Military tactical vehicles
- Authorized emergency vehicles
- Drayage tractors and trailers that operate within a 100 mile radius of a port or intermodal rail yard
- Curtain side vans
- Solid waste vehicles
- Drop frame vans
- Container chassis

## Are there any special provisions?

There are several exemptions and temporary passes that may be obtained from ARB such as for:

- Short-haul tractors
- Local-haul tractors and trailers
- Storage trailers
- Relocation of local-haul/storage trailers
- Transfer of ownership of trailers

## What kinds of equipment will meet the requirements of this regulation?

The equipment requirements for tractors depend on the model year of your tractor, as described earlier. If you own a day cab or a sleeper cab that is a 2010 MY or older, you only need to make sure it has SmartWay verified low rolling resistance tires. If you have a 2011 through 2013 MY sleeper cab tractor, it must be a SmartWay certified tractor, which came equipped from the manufacturer with the approved technologies. If you own a 2014 or newer tractor, you do not have to comply with the tractor requirements of this regulation.

To meet the trailer requirements of the regulation, you may use a SmartWay certified trailer, or retrofit your trailers with approved low rolling resistance tires and one or more of the following verified aerodynamic technologies:

- Trailer rear fairings
- Trailer side skirts
- Trailer front gap fairings
- Other SmartWay approved technologies

The type or number of aerodynamic technologies required on your trailer will be based on the percentage of fuel savings of each device. These required percentages can be found in the regulation at:

[www.arb.ca.gov/cc/hdghg/regulation.htm](http://www.arb.ca.gov/cc/hdghg/regulation.htm). Basically, in addition to the tire requirements, dry vans must use technologies that provide at least a 5 percent improvement in fuel efficiency, and refrigerated vans must use technologies that provide at least a 4 percent improvement in fuel efficiency.

Information about the specific technologies that have been verified by the SmartWay program can be found at:

[www.arb.ca.gov/cc/hdghg/technologies.htm](http://www.arb.ca.gov/cc/hdghg/technologies.htm)

## Where can I find more information about the regulation?

Fact sheets, compliance tools, and regulatory documents are available at

[www.arb.ca.gov/cc/hdghg/hdghg.htm](http://www.arb.ca.gov/cc/hdghg/hdghg.htm) or by calling the ARB's diesel hotline at (866) 6DIESEL (634-3735). You may also obtain this document in an alternative format by contacting ARB at: (916) 323-9075 (voice); (916) 324-9531 (TDD, Sacramento area only); or (800) 700-8326 (TDD, outside Sacramento). TTY/TDD/Speech-to-Speech users may dial 711 for the California Relay Service.