California Environmental Protection Agency
Air Resources Board
Stationary Source Division

Supplement Version 2.0 to:

Stationary Source Division, Air Resources Board (February 27, 2009, v.2.1)

"Detailed California-Modified GREET Pathway for California Reformulated Gasoline (CaRFG)"

Release Date: September 12, 2012

Need for a Supplement to the CaRFG Pathway Document

The Low Carbon Fuel Standard (LCFS) compliance schedule for gasoline and substitutes for gasoline is based on the carbon intensity value for CaRFG. As part of the 2011 Regulatory Amendments to the LCFS, ARB staff proposed a revision to the Baseline Average carbon intensity value for CARBOB (California Reformulated Gasoline Blendstock for Oxygenate Blending) that increases the value from 95.86 to 99.18 gCO_2/MJ.[1] Because Baseline Average CaRFG is assumed to contain approximately 90 percent CARBOB and 10 percent California Average corn ethanol by volume, the carbon intensity value for CaRFG must be updated as well.

Baseline Average Carbon Intensity Value for CaRFG

On the basis of energy content, CaRFG is assumed to contain 93.48 percent CARBOB and 6.52 percent California Average corn ethanol.[2] Applying this weighting to carbon intensity values for CARBOB, 99.18 gCO_2/MJ, and ethanol, 95.66 gCO_2/MJ, results in a Baseline Average carbon intensity value for CaRFG of 98.95 gCO_2/MJ.

[1] California Air Resources Board: Supplement (Version 2.0) to Stationary Source Division (February 27, 2009, v.2.1) Detailed California-Modified GREET Pathway for California Reformulated Gasoline Blendstock for Oxygenate Blending (CARBOB) from Average Crude Refined in California.
[2] California Air Resources Board: Stationary Source Division (February 27, 2009, v.2.1) Detailed California-Modified GREET Pathway for California Reformulated Gasoline (CaRFG).