

Notice of Upcoming Low Carbon Fuel Standard Credits Release for Electric Forklift Charging Claimed by Electrical Distribution Utilities

04/05/2018

Under the Low Carbon Fuel Standard (LCFS) regulation¹, California Air Resources Board (CARB) staff calculates credits claimed by Electrical Distribution Utilities (EDUs) for electric forklift charging and places these credits into EDUs' LCFS Reporting Tool and Credit Bank & Transfer System (LRT-CBTS) accounts.

Timing of Crediting

Staff expects to complete the annual credit calculation for the prior year and place credits in the utilities' accounts by **April 9, 2018** for credits from 2017 electric forklift charging. Because that timing is off-cycle relative to the other credit generation in the LCFS system, CARB is providing this public notice.

Summary of Crediting Methodology

Per Section 95491(a)(3)(D)(7) of the LCFS rule, the LCFS credits generated from electric forklift charging can be claimed by either the Electrical Distribution Utility (EDU), or the electric forklift operators. In the case of an EDU claiming the credits, CARB staff calculates the amount of electricity used to charge electric forklifts in each utility service territory as outlined below. In the case of an electric forklift fleet operator claiming credits, staff has published a methodology for determining electricity consumption of electric forklifts², and the amount of electricity used to charge the fleet would be subtracted from that of the staff calculations for utilities.

For each utility, staff calculates the electricity use for electric forklift by the number of electric forklifts in the utility's service territory, the daily average electric forklift electricity use per vehicle, and the work days of the year.

The number of the electric forklifts operated in California is calculated based on a forklift population study sponsored by CARB³. Each utility's share is approximated based on their share of the state's non-residential (commercial/industrial) electricity consumption determined by California Energy Commission's database of electricity consumption by entities⁴.

The daily average electricity use of a typical electric forklift is determined based on data published by Electric Power Research Institute (EPRI)⁵.

¹ Pursuant to California Code of Regulations, Title 17, section 95491(a)(3)(D)(7):

<http://www.arb.ca.gov/regact/2015/lcfs2015/lcfsfinalregorder.pdf>

² LCFS Regulatory Guidance 17-02: Methodology for Determining Electricity Consumption of Electric Forklifts:

https://www.arb.ca.gov/fuels/lcfs/guidance/regguidance_17-02.pdf

³ Social Science Research Center, 2017: Survey of Large Spark-Ignited (LSI) Engines Operating within California:

https://www.arb.ca.gov/fuels/lcfs/electricity/ssrc_2017.pdf

⁴ California Energy Commission, Electricity Consumption by Entity: <http://www.ecdms.energy.ca.gov/electbyutil.aspx>

⁵ EPRI, 2015: Electric Forklifts: https://www.arb.ca.gov/fuels/lcfs/electricity/epri_2015.pdf