

LOW CARBON FUEL STANDARD
PROPOSED NEW TEMPORARY FUEL PATHWAY

Renewable Propane



May 8, 2019

Pursuant to section 95488.9(b)(4) of the Low Carbon Fuel Standard (LCFS) regulation,¹ the Executive Officer may approve a new Temporary pathway for a fuel or feedstock-fuel combination not found in Table 8 of the LCFS regulation. This document proposes a carbon intensity (CI) value for a new Temporary pathway of Renewable Propane and includes the rationale for assigning the CI to this particular Temporary pathway.

Public comments on the originally proposed new Temporary pathway ~~were will be~~ accepted for 45 days (February 8 to March 25, 2019), ~~prior to certification. If relevant comments received during this period require significant revisions of the originally published pathway, an updated pathway will be posted for additional public comment.~~ After reviewing comments received during this period, staff proposes to revise this pathway to reflect variances in CI based on type of feedstock (see Table 1 below). The updated proposed pathways will be posted for additional public comment for 15 days (May 9 to May 22, 2019). Upon certification, this new Temporary pathway will be available for LRT-CBTS reporting for the quarter in which it is certified.

Rationale

Pursuant to section 95481(a)(125) of the regulation, renewable propane is defined as the liquefied petroleum gas (LPG or propane) that is produced from non-petroleum renewable sources. Various technologies can be used to produce renewable propane. The proposed Temporary CIs below are applicable only to the renewable propane that is produced from a hydrotreating process. The same feedstocks that are currently used in the production of biomass-based diesel (see Table 8 in section 95488.9(b)(4)) can also be used to produce renewable propane. In response to public comment, staff is proposing to offer separate Temporary pathway CIs for renewable propane produced from fats/oils/grease residues and plant oils (excluding palm oil and palm derivatives). This is consistent with the approach taken for Temporary pathway CIs for Biomass-based Diesel. Staff determined the proposed CI values using the most conservative data from LCFS certified renewable diesel pathways that produce propane as a co-product. The resulting CI was increased by an additional 5 percent and rounded to the nearest five CI points when applicable, consistent with the methodology used to determine existing Temporary CI values listed in the regulation. Staff recommends that the Temporary CI values for Renewable Propane shown in Table 1 below be proposed to be certified by the Executive Officer.

¹ All citations to the LCFS Regulation are found in Title 17, California Code of Regulations (CCR), sections 95480-95503

Table 1. Proposed Temporary CI

Fuel	Feedstock	Process Energy	CI (gCO _{2e} /MJ)
Renewable Propane	<u>Fats/Oils/Grease Residues</u>	<u>Grid electricity, natural gas, and/or renewables</u>	45
	Any feedstock derived from fats/oils/grease residues and plant oils (excluding palm oil and palm derivatives, as a sole feedstock or blended with other feedstocks)	Grid electricity, natural gas, and/or renewables	65
	Any other feedstock	Grid electricity, natural gas, and/or renewables	Baseline (2010) CI value for USLD