Truck & Engine Manufacturers Association®

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Renewable Diesel Definition

Renewable Diesel Definition

EMA is developing DRAFT proposed language for a Renewable Diesel definition in ASTM D975. EMA is planning to initiate the activity through a main committee working group to support an industry-wide development process.

EMA has identified concerns with lack of terminology or alignment that creates regulatory and market uncertainty.

- ‘Renewable Diesel’ is broadly referred to as renewable diesel, HVO, HEFA fuel, paraffinic diesel, non-ester renewable diesel, and biomass-based diesel across various standards and regulations
- The lack of a specific and inclusive definition creates inconsistent interpretation, complicates enforcement, and slows adoption
- A harmonized definition would ensure uniform understanding across ASTM, NCWM, EPA, CARB, and amongst members of the OEM industry
  - Supports Weights and Measures, Labelling, and Enforcement Consistency
  - Facilitates OEM Acceptance and Customer Confidence
- As renewable hydrocarbon fuels expand, standards bodies will need clear terminology and consistent classification principles

Renewable Diesel Definition

Existing regulations, definitions, and related standards may inform a draft proposed definition for Renewable Diesel:

- Renewable Diesel (EPA 40 CFR Part 80)
- Hydrotreated Vegetable Oil, HVO (EN 15940)
- Paraffinic Diesel (EN 15940, Fuel Quality Standards Determination)
- Hydroprocessed Esters and Fatty Acids Diesel, HEFA (CARB LCFS)
- Renewable Diesel Terminology and References:
  - EPA Renewable Fuels Standard (40 CFR 80.2) – *non-ester renewable diesel* and *biomass-based diesel*
  - CARB Low Carbon Fuels Standard – *renewable diesel* and *HEFA fuels*
  - EN 15940 – *paraffinic diesel fuel from hydrotreatment*

Renewable Diesel Definition

EMA has developed the following draft definition of Renewable Diesel factoring input received from industry to this point:

Renewable Diesel *shall be a hydrocarbon diesel fuel produced from renewable, recycled, or waste-derived biomass feedstocks through hydrotreatment or other hydrogen-based conversion processes, resulting in a fuel composed predominantly of paraffinic hydrocarbons and containing no mono-alkyl esters. The fuel shall meet all applicable requirements of ASTM D975 for the designated diesel fuel grade or, when designated and marketed as paraffinic diesel, shall meet the requirements of an applicable paraffinic diesel fuel specification (e.g., EN 15940 or an equivalent ASTM specification, where referenced). Renewable diesel shall be fully compatible with conventional diesel engines, emission control systems, and fuel distribution infrastructure when meeting the applicable specification requirements. This fuel may also be identified in regulations or other standards as non-ester renewable diesel, biomass-based diesel, Hydrotreated Vegetable Oil (HVO), or Hydroprocessed Esters and Fatty Acids (HEFA) fuel, depending on jurisdiction or regulatory context.*

- Factors under consideration:
  - No change to D975 Specification Limits
  - Primarily covers biomass feedstocks
  - Supports application of standardized paraffinic diesel

Thank you!

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