



CO₂ PERFORMANCE LADDER

Harmonisation Decree 4

Title

Aviation emissions reduction through participation in renewable fuels program.

context:

Participation in renewable fuel programs is currently the only serious method of reducing emissions from air travel (besides flying less). It is not clear what requirements apply to these programs in order to be approved. In addition, the current programs communicate an emission reduction per fuel unit (ton or litre), while for the CO₂PL an emission reduction per passenger kilometer is requested.

Harmonization Decree:

Participation in renewable fuel programs is accepted as a measure for the measure list and for reducing CO₂, regardless of which airline is flown. Programs must meet the following requirements:

- The renewable fuel purchased is certified for a RED recognized scheme;
- The program (this can be a stand-alone program or the program of an airline) provides a specification of the amount of renewable fuel purchased accompanied by an auditor's report.

The CO₂ emission reduction should be calculated as follows:

1. With the correct emission factor (WtW) from www.co2emissiefactoren.nl, based on the number of passenger kilometers determines the emission (in kg CO₂);
2. With the correct emission factor (WtW) from www.co2emissiefactoren.nl, the the amount of kerosene determined (in liters);
3. The number of liters at 2. is the maximum number of purchased liters of renewable fuel that may be used for the CO₂ Performance Ladder. The emission reduction is equal to the reduction that, according to the program, belongs to the purchased amount of renewable fuel.

Example:

1. A flight of 5,000 km leads to 735 kg of CO₂ emissions (based on 0.147 kg/km).
2. This is equivalent to a consumption of 229.54 liters of kerosene (based on 3.202kg/litre)
3. A program communicates 80% emission reduction (WtW). If at least 229.54 liters (or 183.63 kg) of renewable fuel is purchased, an 80% reduction may be applied to 735 kg of emissions, resulting in an emission of 147 kg of CO₂.

Date of publication Harmonization Decree:

21/10/2021

Transition period:

Title: Harmonisation Decree Implementation Aviation

Version: 1.0

Date: 21/10/2021

Status: Final



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