

Analysis of Flight Routes and Hints for Passengers – The Trip Emission Ecolabel

Task for a Project

Background

The environmental awareness of travelers has grown bigger in the last decade, and flight booking engines have responded, showing a CO₂ emission value as part of their search results. To allow passengers a better choice among offered aircraft for a flight, an Ecolabel for Aircraft was developed by Haß and Scholz in the year 2015. Based on the Ecolabel for Aircraft, Hurtecant under the supervision of Scholz developed two methods for a Trip Emission Ecolabels, because a passenger often cannot easily recognize the flight connection with least environmental impact.

Task

Task of this project is to apply the best of the two existing Trip Emission Ecolabels to a variety of flight connections, to discuss the findings and to give hints for passengers, when it comes to selecting a flight option. Following subtasks have to be considered:

- Review the previous research and decide, which Trip Emission Ecolabels should be used.
- Find interesting routes for the application of the Trip Emission Ecolabel.
- Calculate and print Ecolabels for Aircraft for missing aircraft, engine and cabin combinations.
- Calculate and print Trip Emission Ecolabels for interesting flight connections, found with a flight booking engine.
- Draw up an overview and discuss the findings.

The report has to be written in English based on German or international standards on report writing.