



FIT-4-AMANDA

Future European Fuel Cell Technology: Fit for Automatic Manufacturing and Assembly

EUROPEAN COMMISSION

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Publishable Executive Summary

The goal of this report is to gauge the feasibility of an integration of the new stack produced by the MMM into a commercial FC electrical vehicle from UPS. The calculations are based on data and requirements from UPS and PM.

The energy capacity of a high voltage battery was determined to cover, together with the produced PEMFC stack, the energy demands of the vehicle to travel the distance of 200 km. Influence of the driving cycle was studied and corresponding energy demands of the vehicle were calculated. To avoid focusing only on one tour (one type of driving cycle), a cycle based on average values of velocity and acceleration (from UPS' standard package car route) was also used for computations.