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Marko Kapetanović and Niels van Oort

Multi-Criteria Evaluation of Propulsion Alternatives for a City Bus Fleet Renewal: a Dutch Case Study

ABSTRACT. Public transport companies (PTCs) are facing significant challenge in phasing out high-polluting diesel vehicles and selecting alternative propulsion solution for their city bus fleet renewal. To support PTCs in this complex multi-criteria decision making process, this paper presents an integrated method, that includes the improved Analytical Hierarchy Process (AHP) to define the weights of criteria, and the Technique for Order Preference by Similarity to Ideal Solution (TOPSIS) to assess and rank considered solutions. The method is applied in a case study of Arriva, one of the Dutch major PTCs, with battery-electric system with opportunity charging identified as the optimal configuration.