

## **Development of a Range Extended Electric Vehicle Demonstrator**

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### **ABSTRACT**

MAHLE has developed a dedicated Range Extender engine which is focussed on meeting the requirements for a compact-class range-extended electric vehicle (REEV). In order to enable development and refinement of the NVH attributes of the engine it is being installed into a modified current vehicle. The resulting demonstrator vehicle is intended to reflect likely near to market steps for REEVs.

This paper presents details of the resulting demonstrator vehicle and also an analysis of the likely legislative and “real world”, fuel consumption and CO<sub>2</sub> emissions performance of the vehicle.