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Power Train Battery Electric Vehicles (BEVs) with Range Extenders

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Message from the Guest Editors

Dear Colleagues,

Emissions from the transportation sector are significant contributors to climate change and health problems because of the common use of gasoline vehicles. Countries in the world are attempting to transition away from gasoline vehicles toward battery electric vehicles (BEVs), to reduce emissions. However, there are several practical limitations with BEVs, one of which is the “range anxiety” issue, due to the lack of charging infrastructure, the high cost of long-ranged BEVs, and the limited range of affordable BEVs. One potential solution to the range anxiety problem is the use of range extenders, to extend the driving range of EVs while optimizing the costs and performance of the vehicles. A variety of several configurations with power trains include primary battery energy storage systems (ESSs) and secondary range extenders.



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