Analytical Analysis of the xEV Standards

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Abstract- This paper provides an all-inclusive state of the art analytical analysis of major categories of electrified transportation (xEVs) standards, issued by the world wide standardization organizations. Firstly, the current status for the standards by major organizations is presented followed by the graphical representation of the number of standards issued. The review then takes into consideration the interpretation of the xEVs standards developed by all the major standardization organizations across the globe. The standards are then differentiated categorically to deliver a coherent view of the current status followed by the explanation of the crux of these standards. This detailed elucidation of the standards will assist the researchers, reviewers and experts to find all the standards available in open literature at one platform and compare the merits and demerits of various standards. Further, the description of the status quo of the xEVs sector in India is outlined, which is of significant importance considering the increasing influence of electric mobility in the Indian transportation sector. This work will be valuable, principally to the automotive industry, as reference for product development applicable to numerous worldwide markets.