

# Vergleichsstudie von Systemansätzen für das Schnellladen von Elektrofahrzeugen

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# Vergleichsstudie von Systemansätzen für das Schnellladen von Elektrofahrzeugen

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Die Arbeiten dieser Studie wurden zum größten Teil im Jahre 2013 durchgeführt. Trotz der Fortschritte in der Harmonisierung der verschiedenen Systemansätze für das Schnellladen von Elektrofahrzeugen bestehen diese weiterhin. Die in dieser Studie gefassten Aussagen haben weiterhin Bestand. Der objektive Vergleich der Ansätze bietet weiterhin einen umfassenden Überblick und unterstützt somit Harmonisierungsbestrebungen voranzutreiben und schlussendlich weltweit den Ausbau der Ladeinfrastruktur für die Elektromobilität zu bestärken.

Anmerkung der Autoren im März 2016

## **Abstract:**

One of the major challenges for a global success of electric vehicles is to meet customer's expectations to a user-friendly charging infrastructure. The technology of fast charging of electric vehicles offers electric vehicle users the opportunity to travel in excess of the car's range. Therefore, various system approaches and standards for fast charging of electric vehicles have been developed in several countries and by different manufacturers. Within the scope of this study existing approaches of system designs for fast charging of electric vehicles in different regions (China/Europe/USA/Japan) have been analyzed in terms of their technical, economical and legal feasibility. For this purpose the general system for fast charging has been defined and several evaluation criteria have been determined. Based on the system, the regarded system approaches have been compared due to their different features and abilities. To expedite the comprehensive implementation of the fast charging technology, it is recommended that the proponents of the different system approaches will work together to benefit from their respective experience. Consequently, they are able to accelerate the joint use of the large technically and economically useful potential of fast charging.

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**Impressum**

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