

The Role of EV's in Ancillary Services

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Abstract— Ancillary services comprise several products that ensure that the electricity grid is stable and secure. At present, these products are mostly delivered by large power plants. With an increasing share of (smaller) non-conventional forms of energy in the energy supply market, also the type of asset for the delivery of these products will have to change. TenneT currently runs among others a pilot project that examines if it is possible to provide frequency support with new technologies - for instance EV's - and/or (aggregation of) smaller assets. On European level, upcoming changes concerning regulations of the Frequency Containment Reserves (FCR) product underline this development.