26 NOVEMBER 2020

30th CIGRE Greece National Conference "e-Session 2020"
Transmission & Distribution Challenges in Greece

TECHNICAL REQUIREMENTS FOR THE CONNECTION OF EV CHARGERS TO ELECTRICAL INSTALLATIONS

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ABSTRACT

This paper presents the technical requirements that need to be fulfilled for the connection and safe operation of electric vehicle (EV) chargers, connected to a new or existing electrical installation in Greece. Various technical issues are examined, with emphasis on safety issues, and a number of appropriate methods for connecting EV chargers to an electrical installation are suggested, depending on the characteristics of the latter. All requirements put forward are based on international standards which apply to the EV conductive charging system, on the current regulatory framework on electromobility in Greece, the domestic regulations regarding electrical installations and the international practice.

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