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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 29772-2013

**General requirements of electric vehicle battery swap
station**

电动汽车电池更换站通用技术要求

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Foreword

This Standard is drafted according to the rules specified in GB/T 1.1-2009

This Standard is proposed by National Energy Administration

This Standard is under the jurisdiction of China Electricity Council.

The responsible drafting organizations are State Grid Corp, China Electric Power Research Institute, South Electric Grid Research Institute, Electric Power Research Institute of State Grid, XJ Corp, Zhejiang Power Co., Ltd, Shanghai Dianba New Energy Technology Co., Ltd, Shenzhen Power Supply Planning Design Institute Co., Ltd and Tianjin Qingyuan Electrically Driven Vehicle Co., Ltd.

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General requirements of electric vehicle battery swap station

1 Scope

This Standard prescribes the construction type, site selection, power supply system, charging and battery swap system, monitoring system, carriageways and parking spaces, civil engineering, safety and fire protection, marks, logos and others of the electric vehicle battery swap station.

This Standard is applicable to electric vehicle battery swap stations, and it can also be referred by the electric vehicle battery distribution center for execution.

2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB/T 14549 Quality of electric energy supply—Harmonics in public supply network

GB/T 29317 Terminology of electric vehicle charging/battery swap infrastructure

GB 50016 Code of Design on Building Fire Protection and Prevention

GB 50034 Standard for lighting design of buildings

GB 50052 Code for design electric power supply systems

GB 50053 Code for design of 20kV & under electric substation

GB 50054 Code for design of low voltage electrical installations

GB 50057 Design code for protection of structures against lightning

GB 50140 Code for design of extinguisher distribution in buildings

DL/T 448 Technical administrative code of electric energy metering

DL/T 621 Grounding for AC electrical installations

DL/T 814 Function specification of distribution automation systems

DL 5027 Typical rules of fire protection for electric power installations

NB/T 33001 Specification for Electric Vehicle Off-board Conductive Charger

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