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GB/T 46897-2025

Specification for the emergency management of photovoltaic power stations

光伏发电站应急管理规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the China Electricity Council. This document was drafted by: Wuling Power Co., Ltd., Wuling Power Co., Ltd. Ningxia Branch, and Guangzhou Yineng Digital Technology Co., Ltd. Hunan Wuling Electric Power Technology Co., Ltd., Wuling Electric Power Co., Ltd. Yunnan Branch, Hunan Disaster Prevention Technology Co., Ltd., Guangdong Provincial Electric Power Development Limited Liability Company, Guangdong Branch of China Three Gorges Corporation, Hubei University of Automotive Technology, Guangzhou Qi'an Zhongzhi Construction Management Co., Ltd. Responsible companies, Daqing Huanghe Photovoltaic Storage Empirical Research Co., Ltd., and State Power Investment Corporation Guizhou Jinyuan Weining Energy Co., Ltd. The main drafters of this document are. Xiang Ming, Zhu Zhenjun, Deng Rui, Qi Zhengping, Chen Zhiyong, Wu Deming, Luo Lijun, Kang Zhiyuan, Chen Difang, and Xu Wenchao. Luo Jing, Xu Lixia, Tan Zhenguo, Liu Wenyang, Su Liang, Luo Hongxiang, Ding Jie, Li Bo, Li Ningjia, Zhu Sheng, Wen Guanming, Song Guowei, Liu Tao, Mao Xinguo Cao Feng, Sun Zhe, Li Mengze, Yang Qiyan, Chen Long, Qin Zhengbing, Liu Weijun. Emergency Management Standards for Photovoltaic Power Stations

1 Scope

GB/T 46897-2025 is the Chinese national standard covering the emergency plan of a solar plant - fire in the array or the inverter room, battery thermal runaway where storage is present, extreme weather and flooding, grid loss, and the rescue of someone injured on a remote site. First edition, with the PV safety code GB/T 35694-2025. It was issued on 31 December 2025 and has been in force since 1 April 2026, as a first edition. The document is under the responsibility of the China Electricity Council. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the procedures for emergency management of photovoltaic power plants, including data collection, hazard identification and risk assessment, emergency resource investigation, emergency plans, and emergency response. Requirements for emergency drills, emergency supplies management, etc. This document applies to emergency management of safety production in photovoltaic power plants.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 13861 Classification and Codes of Hazardous and Harmful Factors in Production Processes

GB/T 29639 Guidelines for the Preparation of Emergency Response Plans for Production Safety Accidents in Production and Business Units

GB/T 42312 Guidelines for the Preparation of Emergency Response Plans for Production Safety of Electrochemical Energy Storage Power Stations

GB/T 42314 Technical Guidelines for Hazard Identification in Electrochemical Energy Storage Power Stations

GB/T 42317 Emergency Drill Procedures for Electrochemical Energy Storage Power Stations

GB 50797 Design Standard for Photovoltaic Power Stations DL/T 692 Technical Specifications for Emergency Rescue in the Power Industry

3 Terms and Definitions

The terms and definitions defined in GB/T 29639 and GB 50797 apply to this document.

4 General Requirements

4.1 Photovoltaic power stations should collect emergency management information in accordance with relevant national and industry regulations on safety production management and in light of the actual conditions of the photovoltaic power station. This includes gathering relevant information, conducting risk assessments, developing emergency plans, regularly carrying out emergency drills, managing emergency supplies, and establishing emergency coordination mechanisms.

4.2 Photovoltaic power stations should collect relevant information on the design, construction, acceptance, operation, inspection, and maintenance of the photovoltaic power station in accordance with emergency management requirements. material.

4.3 Before developing an emergency response plan, a hazard identification and hazard assessment should be conducted based on the current situation of the organization, focusing on personnel, equipment, and the environment. To carry out emergency resource surveys.

4.4 Emergency response plans should be prepared in accordance with relevant regulations on work safety and emergency management, taking into account the actual situation and characteristics of the unit; when an emergency occurs... When there are significant changes in the production environment or problems are discovered during emergency drills, revisions should be made in a timely manner and the review and filing should be reorganized.

4.5 Emergency drills should be conducted regularly in conjunction with relevant units, taking into account the drill objectives, key points of accident prevention, and the actual production situation of the photovoltaic power station. Emergency drills were conducted.

4.6 Photovoltaic power stations should, based on their actual emergency management needs, carry out emergency material storage, deployment, inspection, maintenance, and upgrading. Work.

4.7 In areas prone to natural disasters or secondary disasters such as earthquakes and typhoons, photovoltaic power stations should establish and improve communication and coordination mechanisms and regularly conduct [activities].