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

GB/Z 38766-2020

**Targeted poverty alleviation - Specification for operation and
management of photovoltaic-agriculture project**

精准扶贫 光伏农业项目运营管理规范

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Foreword

This guidance technical document was drafted in accordance with the rules given in GB/T 1.1-2009. Please note that some content of this document may involve patents. The issuer of this document does not assume responsibility for identifying these patents. This guidance technical document is proposed and managed by China National Institute of Standardization. This guidance technical document was drafted by: Suzhou Tenghui Photovoltaic Technology Co., Ltd., Jiangsu Tenghui Power Technology Co., Ltd., Zhongli Hangnong Technology Co., Ltd., China National Institute of Standardization, China Electric Power Research Institute Co., Ltd., China Poverty Alleviation Voluntary Service Promotion Association. The main drafters of this guidance technical document. Zhou Jianpeng, Zhai Xianwen, Wang Weifeng, Chen Jie, Jiao Tongbin, Sheng Wanxing, Wang Jinli, Liu Meng, Tian Limin.

The photovoltaic agriculture project is a new technology industry that combines the photovoltaic industry and modern agriculture organically, and is a compatible coexistence of photovoltaic and agriculture. With the new model of coordinated development, the stacked gains of "photovoltaic agricultural employment" can be realized. Photovoltaic poverty alleviation is the first effective mode of targeted poverty alleviation and targeted poverty alleviation in China, which is listed by the country as one of the top ten targeted poverty alleviation projects. Promote the use of poverty-stricken areas across the country. The application of photovoltaic agricultural projects to photovoltaic poverty alleviation conforms to the current national conditions and the actual conditions in poor areas. The situation is not only conducive to the increase of poverty alleviation benefits, but also to solving the employment problem of the poor. This guidance technical document is applicable to photovoltaic agriculture projects, and can be used by poverty alleviation organizations,

third-party institutions, and assisted objects in photovoltaic agriculture projects. Use for reference in poor work. Operational management specifications for precision poverty alleviation photovoltaic agricultural projects

1 Scope

GB/Z 38766-2020 is the Chinese national standard on targeted poverty alleviation - specification for operation and management of photovoltaic-agriculture project, in the field of services and company organization. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 28 April 2020 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication. Classification: ICS 03.100, CCS A00. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This guiding technical document gives the project conditions, division of responsibilities, organization and operation, analysis and evaluation of expected effectiveness of the photovoltaic agricultural project. Related content such as management. This guidance technical document is applicable to photovoltaic agriculture projects, and can be used by poverty alleviation organizations, third-party institutions, and assisted objects in photovoltaic agriculture projects. Use for reference in poor work.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article. For the cited documents without date, the latest version (including all amendments) applies to this document.

GB/T 36115 Technical guidelines for precision poverty alleviation village-level photovoltaic power plants

GB/T 36119 Guidelines for the management and evaluation of village-level photovoltaic power stations for targeted poverty alleviation

GB 50794 Photovoltaic power station construction specifications

GB 50797 Design Specification for Photovoltaic Power Station

3.1 Construction conditions

3.1.1 The photovoltaic agricultural project should comprehensively consider the

socio-economic conditions, natural environment and development conditions of the local area to determine the site.

3.1.2 The photovoltaic agricultural project should prefer to select unused land such as barren hills, barren beaches and barren slopes without changing the nature of the land.

3.1.3 The site of the photovoltaic agricultural project should be south-facing or near-south, and priority should be given to land with flat terrain and concentrated plots.

3.1.4 The photovoltaic agricultural project site should have a good ecological environment and meet the surrounding conditions of no industrial pollution, sufficient water resources, and convenient drainage and irrigation.

3.1.5 The photovoltaic agricultural project should have the transportation conditions for photovoltaic power generation and agricultural production.

3.1.6 Other site selection requirements for photovoltaic agricultural projects shall comply with the relevant provisions of GB 50797 and GB/T 36115.

3.2 Facilities and equipment conditions

3.2.1 The facilities and equipment of photovoltaic agricultural projects include photovoltaic power generation facilities and agricultural production facilities.

3.2.2 The photovoltaic power generation facilities and equipment mainly include photovoltaic support, photovoltaic components, inverters, transformers, power cables and other power generation facilities and equipment Related operation and maintenance testing equipment.

3.2.3 Agricultural production facilities and equipment mainly include facility greenhouses, facility equipment and operating machines.

3.2.4 The form of photovoltaic support for photovoltaic agricultural projects should be compatible with the agricultural scheme.

3.2.5 The height of the photovoltaic bracket of the photovoltaic agricultural project should not be less than 3m from the ground. The east-west pile distance and the north-south pile distance should be kept at a reasonable span. Should affect agricultural production operations.

3.2.6 The spacing of the photovoltaic array of the photovoltaic agricultural project should be designed according to the lighting requirements of the crops, and the photovoltaic support should be designed with flexible spacing Adjustable form, photovoltaic modules should be installed in a single row.

3.2.7 The photovoltaic agricultural project should consider the environmental characteristics of agricultural production, and the photovoltaic support should be made of corrosion-resistant aluminum alloy material.

3.2.8 The photovoltaic agricultural project should be based on the principle of saving land, and it is advisable to use roads, inverters, box transformers and other electrical equipment by elevating supports

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