

生产建设项目水土保持设施 验收鉴定书

项目名称: 乐清正泰 150 兆瓦农光互补光伏发电项目
项目编号: 乐发改备〔2015〕87 号
建设地点: 乐清市乐成镇城东街道胜利塘北片围区
验收单位: 乐清正泰光伏发电有限公司

2022 年 2 月 11 日

1. Basic information table of soil and water conservation facilities acceptance for production and construction projects

| | | | |
|---|--|-------------------|-------------------------|
| Project Name | Yueqing Chint 150MW Agricultural Photovoltaic Complementary Power Generation Project | Industry Category | Other power engineering |
| Responsible authorities (or major investors) | Yueqing Chint Photovoltaic Power Generation Co., Ltd. | Project Nature | New |
| Soil and water conservation plan approval authority, document number and time | Approving authority: Wenzhou Water Conservancy Bureau Approval number: Wenshuixu [2021] No. 27 Approval date: July 20, 2021 | | |
| Soil and water conservation plan change approval authority, document number and time | / | | |
| Soil and water conservation preliminary design approval authority, document number and time | / | | |
| Project construction start and end time | The total construction period is 14 months, from October 2015 to November 2016. | | |
| Soil and Water Conservation Plan Preparation Unit | Zhejiang Jiantou Environmental Engineering Co., Ltd. | | |
| Preliminary design unit for soil and water conservation | China Energy Engineering Group Zhejiang Electric Power Design Institute Co., Ltd. | | |
| Soil and Water Conservation Monitoring Unit | Zhejiang Jiantou Environmental Engineering Co., Ltd. | | |
| Soil and water conservation construction unit | Zhejiang Chint New Energy Development Co., Ltd. | | |
| Soil and Water Conservation Supervision Unit | Zhejiang Huadong Engineering Consulting Co., Ltd. | | |
| Soil and Water Conservation Facilities Acceptance Report Preparation Unit | Zhejiang Jiantou Environmental Engineering Co., Ltd. | | |

2. Acceptance opinions are based on the

"Notice of the General Office of the Ministry of Water Resources on Issuing the Supervision and Management Measures for Soil and Water Conservation in Production and Construction Projects"

Notice on Further Deepening the "Liberation of Water Resources"

Opinions on Comprehensively Strengthening Soil and Water Conservation Supervision through the Reform of "Management and Service" (Shuibao [2019] No. 160),

Yueqing Chint Solar Power Generation Co., Ltd. hosted a meeting in Yueqing City on February 11, 2022.

Acceptance meeting for soil and water conservation facilities of Yueqing Chint 150MW agricultural photovoltaic power generation project.

The participating units include Yueqing Chint Photovoltaic Power Generation Co., Ltd. (construction unit), Zhejiang Chint New Energy

Development Co., Ltd. (construction unit), Zhejiang Huadong Engineering Consulting Co., Ltd. (main project

and soil and water conservation supervision unit), Zhejiang Jiantou Environmental Protection Engineering Co., Ltd. (soil and water conservation monitoring

and facility acceptance report preparation units), with a total of 6 participants.

Collect the group (list attached).

The acceptance team and the participants will first check the site and review the materials.

He gave a speech and briefly introduced the construction status of the project. The leader of the acceptance team introduced the composition of the acceptance team.

The technical service units made relevant reports and passed the questioning of the acceptance team.

The acceptance group discusses and forms the acceptance opinion.

1. Project Overview

Yueqing Chint 150MW agricultural photovoltaic power generation project is located in Lecheng Town, Yueqing City.

The construction area of the northern section of Shenglitang in Dong Street District is a new project.

The total land area is 259.6476 hectares, of which 1.0009 hectares are permanent and 1.0009 hectares are temporary.

The total installed capacity of the project is 150MWp. The project uses polycrystalline silicon photovoltaic

The volt battery assembly is used as a photoelectric conversion device, which converts the current into 35kV through an inverter and a box transformer.

The AC power is connected to the power cable system in the field, and then the booster station is boosted to 110kV through secondary voltage

Afterwards, a 110KV overhead line "T" was used to connect to the Longshan-Shenhai line.

There are about 486,000 solar battery modules; the inverter uses a large centralized inverter, with a total of 296

1,660 intelligent combiner boxes; 148 box-type transformers. One booster station was built.

The station covers an area of 1.0009hm². The station management area has a production auxiliary building, a 35kV power distribution room and a

The auxiliary building has the main control room and related production rooms, as well as offices, conference rooms,

Staff dormitory, bathroom, restaurant, kitchen and public toilet.

The total investment in the project is RMB 1.5 billion, of which RMB 135 million is invested in civil engineering.

Photovoltaic Power Generation Co., Ltd. solved.

2. Approval of Soil and Water Conservation Plan

In July 2021, Wenzhou Water Conservancy Bureau issued the report on the soil and water conservation plan for this project.

Approval (Wenshui Xu [2021] No. 27).

The reply basically agrees with the scope of responsibility for soil and water loss prevention and control and the scope of water conservation plan report.

Soil loss prediction, setting of prevention and control targets, deployment of various soil and water loss prevention and control measures,

Maintain the basis, methods and benefit analysis of investment compilation.

The soil and water conservation facilities will be inspected and accepted at the same time.

3. Preliminary design or construction drawing design of soil and water conservation

Yueqing Chint Photovoltaic Power Generation Co., Ltd. commissioned China Energy Engineering Group Zhejiang Electric Power

Design Institute Co., Ltd. has carried out the construction drawing design (including soil and water conservation engineering).

A special chapter on soil and water conservation design has been compiled to enhance the operability and practicality of soil and water conservation measures.

4. Monitoring of soil and water conservation

In September 2021, the construction unit commissioned Zhejiang Jiantou Environmental Protection Engineering Co., Ltd. to carry out this

Project soil and water conservation monitoring work. On-site survey, data collection and timely completion of soil and water conservation monitoring

The monitoring process uses surveys, inspections, ground observations and data analysis.

Monitoring methods were used to monitor soil and water conservation. Two quarterly monitoring reports and one Yueqing

Summary report on soil and water conservation monitoring of Chint's 150MW agricultural-photovoltaic power generation project.

The main conclusions of the monitoring report: After the implementation of various soil and water conservation measures for the project, the project construction

All the soil and water loss areas were effectively controlled and improved, and no soil erosion occurred during the construction process.

The obvious danger of soil erosion, the soil and water conservation facilities that have been implemented are operating normally, and the soil and water conservation has been achieved.

Maintain the various soil and water loss prevention and control targets determined in the plan, including the overall soil and water loss control degree

99.9%, soil loss control ratio 1.7, slag interception rate 99.9%, forest and grass vegetation recovery rate 99.99%,

The forest and grass coverage rate is 71.51%.

(V) Preparation of the acceptance report and main conclusions

Yueqing Chint Photovoltaic Power Generation Co., Ltd. attaches great importance to soil and water conservation during the construction process.

After the project was completed, the organization conducted a self-inspection and preliminary inspection of the soil and water conservation facilities.

Zhejiang Jiantou Environmental Protection Engineering Co., Ltd. provides technical services for acceptance of soil and water conservation facilities.

In January 2017, the technical service unit for acceptance of soil and water conservation facilities inspected the 150MW agricultural photovoltaic power plant in Yueqing

The soil and water conservation facilities of the photovoltaic power generation project were surveyed and spot-checked on site, and a preliminary acceptance was formed.

Results.

The technical service unit for acceptance of soil and water conservation facilities shall

Notice on the Self-inspection of Water and Soil Conservation Facilities in Production and Construction Projects (Ministry of Water Resources [2017] 365

No. 12) and the "Implementation of the Ministry of Water Resources' Notice on Strengthening Supervision During and After the Event and Regulating Production

Notice on the Implementation of the Autonomous Acceptance of Soil and Water Conservation Facilities in Production Construction Projects (Zhejiang Soil and Water Conservation

ÿ2018ÿNo. 5), compiled and completed the Yueqing Chint 150 MW Agricultural Photovoltaic Power Generation Project

Project Soil and Water Conservation Facilities Acceptance Report", the main conclusions are as follows:

The construction unit compiled and submitted a soil and water conservation plan in accordance with the law and carried out follow-up soil and water conservation design,

Supervision and monitoring work, soil and water conservation compensation fees have been paid according to law, and the legal procedures for soil and water conservation have been completed.

The soil and water conservation measures were implemented according to the soil and water conservation plan, and the layout of the measures was comprehensive and feasible;

The soil loss prevention and control tasks have been completed, and the design and implementation of soil and water conservation measures have complied with relevant soil and water conservation regulations.

Standard requirements; overall achievement of soil and water loss prevention and control goals; follow-up management and maintenance responsibilities of soil and water conservation

The responsibilities have been fulfilled; the project's soil and water conservation facilities meet the acceptance conditions.

(VI) Acceptance conclusion

1. This project has fulfilled the procedures for preparation, submission and approval of the soil and water conservation plan in accordance with laws and regulations;

2. This project has carried out soil and water conservation monitoring and supervision work in accordance with laws and regulations;

3. The soil and water conservation measures system, levels and indicators have been implemented in accordance with the requirements of the soil and water conservation plan;

4. Important protection objects are safe and stable;

5. The soil and water conservation branch projects and unit projects have passed the acceptance inspection;

6. There are no major technical problems in the soil and water conservation acceptance report, monitoring summary and other reports;

7. The soil and water conservation compensation fees have been paid in accordance with the law and regulations.

In summary, this project has met the acceptance conditions for soil and water conservation facilities, and the project soil and water conservation is approved.

The facilities passed the final acceptance.

(VII) Subsequent maintenance requirements

During the project operation period, Yueqing Chint Photovoltaic Power Generation Co., Ltd. shall clarify the management of soil and water conservation facilities.

The management and maintenance department has established a soil and water conservation measures management and maintenance responsibility system to ensure that the built soil and water conservation measures

The supporting facilities and measures can play a long-term and stable role in soil and water conservation.

3. Signature Form of Acceptance Team Members

| Name of division | unit | Position/Title | signature | Remark |
|------------------|--|---|-----------|---|
| Team Leader | Wu Litao Yueqing Chint Photovoltaic Power Generation Co., Ltd. | | | Construction unit |
| Team Members | Chen Weifa | China Water Resources Pearl River Planning, Surveying and Design Co., Ltd. | | Invited Experts |
| | Wang Lin | Zhejiang Chint New Energy Development Co., Ltd. | | Construction unit |
| | Lv Guangfu | Zhejiang Huadong Engineering Consulting Co., Ltd. | | Supervision Unit |
| | Jiang Shan | Zhejiang Jiantou Environmental Protection Engineering Co., Ltd. | | Soil and Water Conservation Facilities Acceptance Report Preparation Unit |
| | Zhanjing | Zhejiang Construction Investment Environmental Protection Engineering Co., Ltd. | | Soil and Water Conservation Monitoring Unit |