

ICS 81.040.01

CCS Q 30



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

GB/T 47395-2026

**Evaluation requirements for energy-saving and
carbon-reduction technologies in the flat glass industry**

平板玻璃行业节能降碳技术评价要求

Issued on: March 31, 2026

Implemented on: October 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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1 Scope

GB/T 47395-2026 is the Chinese national standard covering assessing a proposed saving in a float glass plant - the furnace that runs continuously for a decade and cannot be turned off, the batch and cullet ratio, the waste heat recovery and the oxy-fuel and electric boosting options. First edition, in force since 1 October 2026, and the glass counterpart of the cement technology evaluation standard GB/T 47617-2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the China Building Materials Federation. This page is published from the official record of the 2026 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 general requirements, evaluation requirements, evaluation process, calculation of evaluation indicators, and scoring methods for the evaluation of energy-saving and carbon-reduction technology for flat glass industry. This Document applies to the implementation of energy-saving and carbon-reduction technology evaluation for flat glass industry.

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in this Document. For the dated documents, only the versions with the dates indicated are applicable to this Document; for the undated documents, only the latest version (including all the amendments) is applicable to this Document.

GB/T 13234 Determination of energy savings in organizations

GB/T 13471 Methods for calculating and evaluating the economic benefits of energy saving

project

GB/T 19001 Quality management systems - Requirements

GB 21340 The norm of energy consumption per unit products for glass products and cast stone

GB/T 24001 Environmental management systems - Requirements with guidance for use

GB/T 32151.7 Requirements of the carbon emissions accounting and reporting - Part 7. Flat glass enterprise

GB/T 33760 Technical specification at the project level for assessment of greenhouse gas emission reductions - General requirements

GB/T 40064 Energy-saving technology evaluation guidelines

GB/T 45001 Occupational health and safety management systems-Requirements with guidance for use

GB/T 45482 General principle for confirmation accounting of comprehensive energy consumption in enterprises

3 Terms and Definitions

For the purposes of this Document, the terms and definitions given in GB 21340, GB/T 33760 and GB/T 40064 apply.

4 General Requirements

4.1 Evaluation requirements shall comply with the provisions of GB/T 40064.

4.2 Complete records shall be kept of the standards and specifications on which the evaluation is based, data sources, calculation methods, and evaluation process, to facilitate the review and verification of results.

4.3 The organization and personnel conducting the evaluation shall possess relevant professional capabilities and experience; be familiar with energy-saving and carbon-reduction technologies, laws and regulations, standards and specifications in the relevant field; and the organization shall be equipped with at least one professional technical person in charge.

5.1 Basic requirements

5.1.1 The evaluated party shall establish and effectively operate a quality management system, environmental management system, and occupational health and safety management system in accordance with GB/T 19001, GB/T 24001, and GB/T 45001.

5.1.2 Energy-saving and carbon-reduction technology shall comply with the requirements of relevant laws, regulations, and policies, etc. Products manufactured using energy-saving and carbon-reduction technology shall meet the requirements of relevant national and industry standards.

5.1.3 The ownership of intellectual property rights for energy-saving and carbon-reduction technology shall be clear and undisputed.

5.2 Evaluation indicator requirements The evaluation indicators consist of primary and secondary indicators. Primary indicators include energy-saving and carbon-reduction capacity, technological advancement, technological maturity, economic benefits, and promotion potential. Evaluation indicators for energy-saving and carbon-reduction technology for flat glass industry are shown in Table 1. Table 1 - Evaluation indicators

6 Evaluation Process

6.1 General procedure The evaluation process for energy-saving and carbon-reduction technology includes developing an evaluation work plan, conducting technical evaluations, and generating an evaluation report.

6.2 Evaluation work plan

6.2.1 The party being evaluated for energy-saving and carbon-reduction technology shall provide comprehensive supporting materials according to the evaluation requirements, ensuring the conformity, authenticity, and accuracy of the relevant application information. The materials include, but are not limited to, the following.

- a) Basic information of the evaluated party, including name, address, corporate credit, asset size, and compliance with relevant laws, regulations, and standards;
- b) Technology name and category, etc.;
- c) Principles and characteristics, including core technologies, key process flows, and main technical indicators, etc.;
- d) Intellectual property certificates, relevant patents, achievement appraisals, testing and inspection reports, and comparative data and materials with similar advanced technologies and cases at home and abroad;
- e) Technology application status, including application areas and scope, application and industrialization status, energy-saving and carbon-reduction effects (including calculation methods and basis), technology promotion status and obstacles, etc.;
- f) Application case information, including energy consumption data, operational data, testing and monitoring data, economic data and their calculation process, customer evaluations, etc., which may include test or evaluation reports provided by qualified

third-party professional institutions;

g) Other necessary documents and materials.

6.2.2 Based on the characteristics of the energy-saving and carbon-reduction technology applying for evaluation, formulate corresponding evaluation plans. The evaluation plan should include.

a) Background and evaluation objectives. Determine whether the technology meets the requirements for energy-saving and carbon-reduction technology;

b) Evaluation object. Technology with energy-saving and carbon-reduction effects;

c) Evaluation methods and indicators. Quantitative evaluation indicators shall prioritize existing national, industry, or international standards, providing the basis for calculation or testing methods; qualitative indicators can refer to expert experience for tiered quantitative analysis, etc.;

d) Evaluation organization and implementation. Establish an evaluation team and formulate an evaluation timeline;

e) Other relevant requirements.