

ICS 65.020.99
CCS F 10

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

LY/T 2072-2022

**Comprehensive energy consumption of wood drying
production
(English Translation)**

Issued on: September 7, 2022

Implemented on: January 1, 2023

Issued by: State Forestry and Grassland Administration

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting.

This document replaces LY/T 2072-2012 "Comprehensive Energy Consumption in Wood Drying Production". Compared with LY/T 2072-2012, except for structural adjustment in addition to editorial changes, the main technical changes are as follows.

- a) The content of the scope has been changed (see Chapter 1, Chapter 1 of the 2012 edition);
- b) Delete the definition of basic energy consumption per unit output of wood drying production (see 3.3 of the 2012 edition);
- c) Added the definition of comparable comprehensive energy consumption per unit output of wood drying production (see 3.3);
- d) Delete the basic energy consumption classification per unit output (see Chapter 4 of the 2012 edition);
- e) Added the grading index of comparable comprehensive energy consumption per unit output (see Chapter 4);
- f) Deleted the material density correction factor (see 5.4.3 of the 2012 edition);
- g) Delete the annual production correction factor (see 5.4.6 of the 2012 edition);
- h) Changed the tree species correction factor (see 5.5.1, 5.4.1 of the 2012 edition);
- i) Changed the wood moisture content correction factor (see 5.5.3, 5.4.4 of the 2012 edition);
- j) The thickness correction factor has been changed (see 5.5.4, 5.4.5 of the 2012 edition);
- k) Deleted auxiliary production and auxiliary production energy consumption (see 6.2.6 of the 2012 edition);

l) Deleted the data processing method (see Chapter 7 of the 2012 edition);

m) The standard coal coefficient for energy conversion has been changed (see Appendix A, Appendix A of the 2012 edition).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

This document is sponsored by the National Energy Foundation and Management Standardization Technical Committee Forestry Energy Management Sub-Technical Committee (SAC/TC20/SC7) Proposed and managed.

1 Scope

This document defines the terms and definitions of the comprehensive energy consumption of wood drying production, and specifies the comparable comprehensive energy consumption per unit output of wood drying production.

The grading index, the calculation principle and method of production energy consumption, the test and measurement requirements of production energy consumption.

This document is applicable to the calculation and index assessment of comprehensive energy consumption in wood drying production.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 153 Conifer sawn timber GB/T 2589 General rules for comprehensive energy consumption calculation GB/T 4817 Sawn timber of broad-leaved trees GB/T 6422 Energy Testing Guidelines for Energy-Using Equipment GB/T 6491 Drying quality of sawn timber GB/T 15035 Wood Drying Terms GB/T 15316 General Rules for Energy Saving Monitoring Technology GB 17167 General rules for equipment and management of energy measuring instruments for energy-consuming units LY/T 2394 Management Specifications for Energy Measuring Instruments in Forestry Enterprises

3 Terms and Definitions

GB/T 153, GB/T 4817, GB/T 6491, GB/T 15035 and the following terms and definitions apply to this document.

During the statistical reporting period, the wood drying production enterprises used in the

whole process of wood drying production (direct production, indirect production) actually consumed each the physical quantities of various kinds of energy are converted into standard coal respectively according to the prescribed calculation method.

induction

The ratio of the comprehensive energy consumption of wood drying production to the output of dry qualified wood during the statistical reporting period.

In the wood drying production process, the material is broad-leaved tree wood, the wood moisture content w is $28\% < w \leq 31\%$, and the thickness h is $20\text{mm} < h \leq 30\text{mm}$, and the monthly average temperature T interval is $20^{\circ}\text{C} \leq T < 35^{\circ}\text{C}$ and other basic conditions, the consumption of dry 1m^3 qualified wood amount of energy.