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

GB/T 2900.87-2011

**Electrotechnical terminology -- Organisation/market of
electricity**

电工术语 电力市场

(English Translation)

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Foreword

This section GB/T 2900 Part 87.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method is equivalent to using the International Electrotechnical Commission standard IEC 60050-617:2009 "International Electrotechnical Vocabulary Power Organization /market".

This section, the term item number and IEC 60050 (617).2009 consistent.

This part of the National Electrotechnical Terminology Standardization Technical Committee (SAC/TC232) proposed.

This part of the National Electrotechnical Terminology Standardization Technical Committee, the National Standardization Technical voltage and current levels and frequency together under the jurisdiction of the Commission.

This section is drafted. the machine Productivity Promotion Center, China Electric Power Research Institute, the National Electricity Regulatory Commission.

1 Scope

This section GB/T 2900 specifies the terms and definitions of the electricity market.

This section applies to the field of technical disciplines and electricity-related.

2.1 Concepts and parameters

617-01-01

Reliability (power system) reliability (ofanelectricpowersystem) Probability under the given conditions and in a given time interval, the power system can perform a required function.

Note 1: The reliability of the power system is described to provide a longer period of time in a row, sufficient capacity almost uninterrupted power supply service.

Note 2: The reliability of the power system is the overall goal of the design and operation.

617-01-02

Security (power system) security (ofanelectricpowersystem) Case power system abnormality occurs during operation, without causing the loss of load, the stress exceeds the rating system components, electric bus Voltage or system frequency is outside the permitted range, instability, voltage collapse or sequential tripping capabilities consequences.

Note 1: This ability can be one or more appropriate indicators to measure.

Note 2: This concept is usually used for large power systems.

Note 3: In North America, this concept only for general instability, voltage collapse and chain tripping, etc. terms.

617-01-03

Stability (power system) stability (ofanelectricpowersystem) After perturbed power system (such as power or impedance changes) the ability to restore or maintain homeostasis, manifested synchronous operation for the generator and the quality of power supply remains at an acceptable level.

617-01-04

Adequacy (power system) adequacy (ofanelectricpowersystem) Taking into account the various system components planned and unplanned outages, the power system can keep system components running within the rating, bus Voltage and system frequency within the allowable range of steady-state conditions the ability to provide all the required power and electricity to customers.

NOTE: This ability can be used for one or more indicators to measure.

617-01-05

Power Quality in the power system to the point, the current and voltage characteristics of deviation reference technical parameters.

Note: In some cases, these parameters may involve compatibility with the power supply connected

to the power system load between the power system.

617-01-06

Security of supply securityoftheelectricitysupply According to the existing standards and contractual agreements evaluation, power system and power supply point capacity to provide electricity to end users.