

Australian Standard[®]

**INTERNATIONAL ELECTROTECHNICAL
VOCABULARY**

**Chapter 601—GENERATION,
TRANSMISSION
AND
DISTRIBUTION OF
ELECTRICITY—
GENERAL**

This Australian Standard was prepared by Committee TE/13, Symbols, Units & Quantities for Electrotechnology. It was approved on behalf of the Council of the Standards Association of Australia on 15 March 1988 and published on 17 June 1988.

The following interests are represented on Committee TE/13:

Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Department of Administrative Services— Construction Group (Commonwealth)
Department of Defence
Department of Technical and Further Education, N.S.W., Victoria and South
Australia
Department of Transport and Communications (Commonwealth)
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PREFACE

This Standard was prepared by the Association's Committee on Symbols, Units and Quantities for Electrotechnology, under the authority of both the Telecommunications and Electronics Standards Board and the Electrical Standards Board. This Standard together with AS 1852 (Chapters 602 to 605) supersedes AS 1852(25)—1970, *International Electrotechnical Vocabulary, Generation, transmission and distribution of electrical energy*, which was withdrawn in July 1985.

This Standard has been reproduced from IEC 50(601)—1985 and is identical with that Standard, except for the term 601-01-26 'low voltage' which has been amended to 'not used in Australia in this sense' (in a similar manner to term 601-01-28). Acknowledgement is accordingly made to the International Electrotechnical Commission for this assistance.

This Standard is the first chapter of a series of five chapters covering the generation, transmission and distribution of electricity. The division of chapters is as follows:

- Chapter 601—General
- Chapter 602—Generation
- Chapter 603—Power system planning and management
- Chapter 604—Operation
- Chapter 605—Substations

This Standard is one of the AS 1852 series of Standards. In the past, this series has consisted of direct endorsements of the IEC 50 series of the International electrotechnical Vocabulary. In future, newly issued parts of IEC 50, where appropriate, will be issued as Australian Standards, i.e. not endorsements. The full text of the definitions in English, French and Russian has been included as some definitions are considered to be incomplete when produced in one language.

The purpose of the AS 1852 series is to provide a glossary of terms used in electrical engineering. The series lists terms in English, French and Russian, and in some cases Spanish. It is intended that other Australian Standards will refer to AS 1852 and not repeat any definitions.

This Standard may require reference to the following Australian Standard:

AS 3000 *SAA Wiring Rules*

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Australian Standard

INTERNATIONAL ELECTROTECHNICAL VOCABULARY

CHAPTER 601—GENERATION, TRANSMISSION AND DISTRIBUTION OF
ELECTRICITY—GENERAL

SECTION 601-01—FUNDAMENTAL TERMS

Remarque liminaire

Le terme «network» peut être préféré au terme «system» dans certains pays et dans certaines circonstances. Les deux termes sont traduits en français par le mot «réseau». Dans la plupart des cas, les deux termes sont synonymes. Dans ce qui suit et pour alléger le texte, il a été fait usage du mot «system», mais le terme «network» peut lui être substitué selon le contexte ou les usages, ou encore comme défini ci-après.

Preliminary remark

The term "network" can in some countries and some situations be preferred to the term "system". In many cases the terms are synonymous. Therefore, for the purposes of the definitions in this chapter, the term "system" has been used throughout for simplicity but "network" can be substituted according to the context or common usage or as defined herewith.

Предварительные замечания

Термин «Электрическая сеть» в некоторых странах и в некоторых случаях оказывается предпочтительнее, чем термин «Электрическая система». Во многих случаях они являются синонимами. Поэтому в определениях этой главы для упрощения применяется термин «система», но термин «сеть» может быть применен в определенном контексте.

601-01-01

réseau d'énergie électrique (sens large)

Ensemble d'ouvrages et de matériels destiné à produire, transporter et distribuer de l'énergie électrique.

**electrical power system
electricity supply system (in a broad sense)**

All installations and plant provided for the purpose of generating, transmitting and distributing electricity.

**система электроснабжения
(в широком смысле)**

Совокупность электроустановок, предназначенных для производства, передачи и распределения электрической энергии.

601-01-02

réseau d'énergie électrique (sens restreint)

Ensemble défini de lignes électriques et de postes assurant le transport et la distribution d'énergie électrique.

**electrical power system
electrical power network**

Particular installations, substations, lines or cables for the transmission and distribution of electricity.

электрическая сеть

Совокупность соединенных между собой воздушных или кабельных электрических линий и подстанций, предназначенных для передачи и распределения электрической энергии.

Note. — Les frontières d'un réseau sont définies en faisant un choix de critères tels que l'étendue géographique, la propriété, la tension, etc.

Note. — The boundaries of the different parts of this network are defined by appropriate criteria, such as geographical situation, ownership, voltage, etc.

Примечание. — Границы частей электрической сети определяются на основании соответствующих критериев — географическое местоположение, балансовая принадлежность, напряжение и др.