

Australian Standard®

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**INTERNATIONAL ELECTROTECHNICAL  
VOCABULARY**

**Chapter 603—GENERATION,  
TRANSMISSION  
AND  
DISTRIBUTION OF  
ELECTRICITY—  
POWER SYSTEM  
PLANNING AND  
MANAGEMENT**

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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.

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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  
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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 601, 602, 604 and 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*International Electrotechnical Vocabulary, Generation, transmission and distribution of electrical energy*, which was withdrawn in July 1985.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(603)—1986. Acknowledgment is accordingly made to the International Electrotechnical Commission for this assistance.

This Standard is the third 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.

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**CHAPTER 603—GENERATION, TRANSMISSION AND DISTRIBUTION OF  
ELECTRICITY—POWER SYSTEM PLANNING AND MANAGEMENT**

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SECTION 603-01—POWER SYSTEM PLANNING

*Note préliminaire*

Dans le contexte du présent chapitre, les termes anglais « network » et « system » peuvent être considérés comme pratiquement synonymes et sont traduits en français par le mot « réseau ».

Pour la rédaction des définitions qui suivent, il a été fait généralement usage du terme « system » mais le mot « network » peut lui être préféré dans certains pays ou dans certaines circonstances.

*Preliminary note*

In the context of this chapter, the terms "network" and "system" can be considered as practically synonymous and correspond to the French term "réseau".

For the purpose of the following definitions, the term "system" has been used but "network" can be preferred in some countries or some situations.

*Предварительное замечание*

Применяемые в настоящей главе термины «электрическая сеть» и «система» могут рассматриваться практически как синонимы и соответствуют французскому термину «réseau».

В определениях используется термин «система», однако в ряде случаев в практике некоторых стран предпочтительнее применять «электрическая сеть».

**603-01-01**

**planification de réseau**

Ensemble des études destinées à la réalisation et à l'extension d'un réseau d'énergie électrique satisfaisant à des objectifs techniques et économiques.

**power system planning**

The whole range of studies involved in the development of a technically and economically sound system of electricity supply.

**планирование развития  
энергосистемы**

Исследование задачи технически и экономически обоснованного развития системы обеспечения электрической энергией.

**603-01-02**

**densité de charge**

Quotient de la charge par la superficie de la zone géographique susceptible d'être alimentée par un réseau de distribution.

**load density**

The quotient of load and area of the zone geographically accessible to a given distribution network.

**плотность нагрузки**

Отношение расчетной нагрузки к площади зоны электроснабжения данной распределительной сети.