

Australian Standard[®]

Smart grid vocabulary

STANDARDS
Australia



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 - Australian Energy Market Operator
 - Australian Industry Group
 - Charge Point
 - Consumer Electronics Suppliers Association
 - Consumers Federation of Australia
 - CSIRO
 - Department of Resources, Energy and Tourism
 - E-OZ Energy Skills Australia
 - Energy Networks Association
 - Energy Retailers Association of Australia
 - Federal Chamber of Automotive Industries
 - International Copper Association Australia
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-

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PREFACE

This Standard was prepared by Standards Australia Committee EL-062, Smart grids.

The objective of this Standard is to establish a common terminology for use in the electricity supply, electrical equipment, communications, appliance, consumer, government and other sectors involved smart grids in Australia.

The need for this Standard was identified in the *Australian Standards for Smart Grids—Standards Roadmap* (June 2012).

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard describes key concepts, and lists terms and definitions relating to smart electricity grids, in the Australian context. The definitions have been sourced, in order of priority, from published Australian regulations or Standards, from International Electrotechnical Commission (IEC) Standards and documents, and then other documents. This Standard is intended to be referenced by other Australian Standards relating to the construction, operation and assessment of smart grids.

Section 2 of this Standard describes key concepts and attributes of smart grids.

Section 3 contains definitions describing the relationships between energy suppliers, energy users and other entities involved in the operation of smart grids. These are called transactional and operational terms. Many of these relationships are also present in conventional grids, but require clarification in the smart grid context, or need to be included for completeness (e.g. because they have an accepted definition in the *National Electricity Rules* or to contrast with the use of the same term in a smart grid context).

Section 4 contains definitions related to the technology of the smart grid, or the relationships between its physical elements and communications systems. These are called technical terms.

Section 5 contains general terms that have specific meanings in the context of this Standard (e.g. 'person').

The Bibliography lists Standards and other documents found to be of particular value in the preparation of this Standard, but not explicitly referenced in the text.

Figure 1 illustrates the notional relationships between the concepts and technologies defined in Sections 3 and 4 of this Standard.