

Australian Standard[®]

Smart grid vocabulary



This Australian Standard® was prepared by Committee EI-062, Smart Grids. It was approved on behalf of the Council of Standards Australia on 4 September 2013.
This Standard was published on 20 September 2013.

The following are represented on Committee EI-062:

- Australian Communications and Media Authority
 - 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
 - Smart Grid Australia
-

This Standard was issued in draft form for comment as DR AS 5711.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

AS 5711—2013

Australian Standard[®]

Smart grid vocabulary

First published as AS 5711—2013.

COPYRIGHT

© Standards Australia Limited

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 74342 585 5

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).

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	4
1.2 REFERENCED DOCUMENTS.....	5
SECTION 2 KEY CONCEPTS RELATING TO SMART GRIDS	
2.1 SMART GRID	6
2.2 ADVANCED MANAGEMENT OF ENERGY FLOWS	6
2.3 CONSUMER SIDE ENERGY MANAGEMENT	7
2.4 INTEGRATION AND SECURITY OF COMMUNICATIONS	7
2.5 DATA AVAILABILITY AND VISIBILITY	8
2.6 FLEXIBLE COMMERCIAL CONTRACTS	8
2.7 DISTRIBUTION AUTOMATION	8
2.8 ADVANCES IN TRANSMISSION SYSTEMS	8
SECTION 3 TRANSACTIONAL AND OPERATIONAL TERMS	
3.1 ELECTRICITY MARKET PARTICIPANTS	9
3.2 PRICING AND CONTRACTING	10
3.3 ENERGY USE.....	11
SECTION 4 TECHNICAL TERMS	
4.1 ELECTRICITY SYSTEM STRUCTURE AND ORGANIZATION	14
4.2 ELECTRICITY SYSTEM PERFORMANCE AND METRICS.....	15
4.3 GENERATION.....	16
4.4 TRANSMISSION	16
4.5 DISTRIBUTION.....	17
4.6 SUBSTATION AUTOMATION	17
4.7 COMMUNICATIONS.....	18
4.8 METERS	19
4.9 END USE	20
4.10 ELECTRIC VEHICLES	23
4.11 INTEGRATION AND AUTOMATION.....	24
4.12 ENERGY STORAGE	24
SECTION 5 GENERAL TERMS.....	25
BIBLIOGRAPHY	27
ALPHABETICAL INDEX OF DEFINED TERMS.....	28

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-