

Australian/New Zealand Standard™

**Demand response capabilities and  
supporting technologies for electrical  
products**

**Part 3.5: Interaction of demand  
response enabling devices and  
electrical products—Operational  
instructions and connections for grid-  
connected electrical energy storage  
(EES) systems**



## **AS/NZS 4755.3.5:2016**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-054, Remote Demand Management of Electrical Products. It was approved on behalf of the Council of Standards Australia on 18 May 2016 and by the New Zealand Standards Approval Board on 2 June 2016. This Standard was published on 21 June 2016.

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The following are represented on Committee EL-054:

Airconditioning and Refrigeration Equipment Manufacturers Association of Australia  
Australian Industry Group  
Clean Energy Council  
Consumer Electronics Suppliers Association  
Consumers Federation of Australia  
CSIRO  
Department of Industry, Innovation and Science, Australia  
Electricity Engineers Association, New Zealand  
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AS/NZS 4755.3.5:2016

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## **Demand response capabilities and supporting technologies for electrical products**

### **Part 3.5: Interaction of demand response enabling devices and electrical products—Operational instructions and connections for grid-connected electrical energy storage (EES) systems**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-054, Remote Demand Management of Electrical Products.

This Standard forms part of the evolving AS/NZS 4755 series of Standards, which is intended to define the nomenclature, architecture and operational instructions for systems that can be used to remotely control electrical products. At the time of publication of this Part, the AS/NZS 4755 series is proposed to comprise the following:

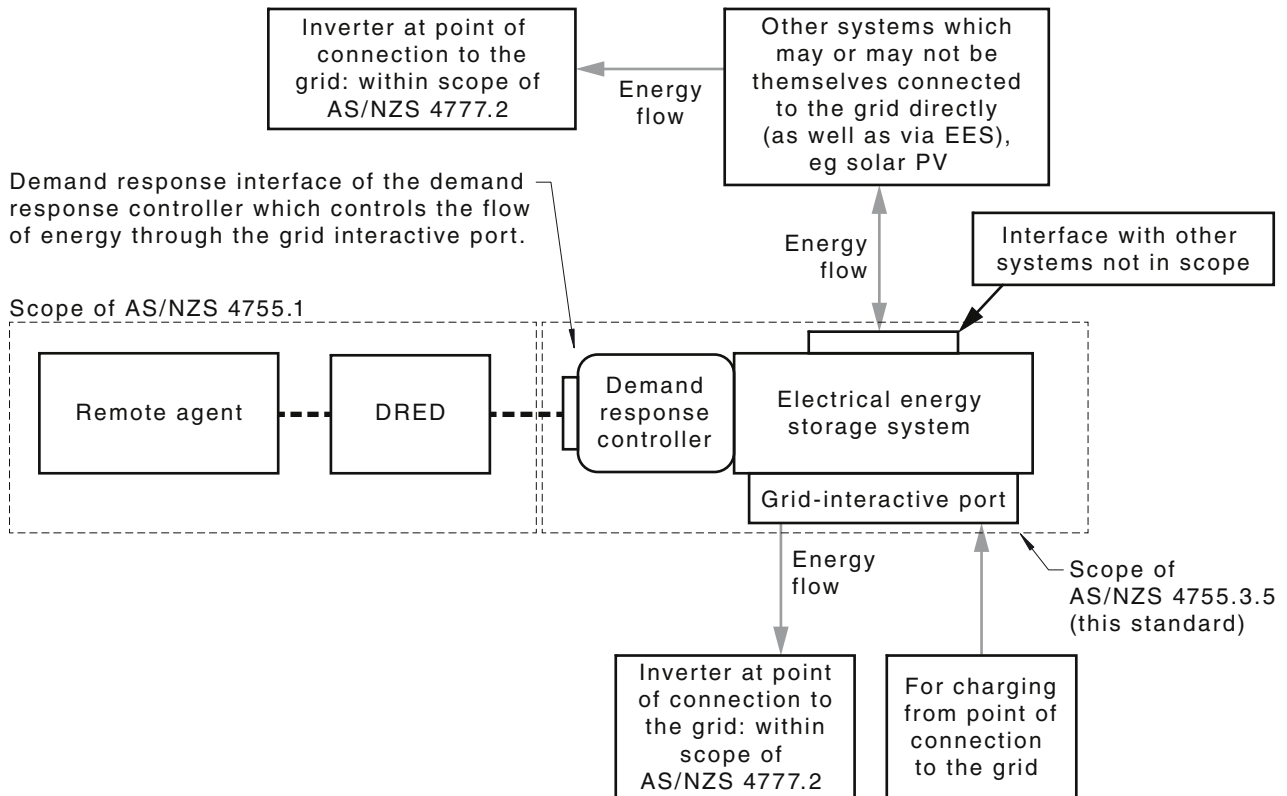
### AS/NZS

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|----------|--|
| 4755     | Demand response capabilities and supporting technologies for electrical products   |
| 4755.1   | Part 1: Framework for demand response capabilities and requirements for demand response enabling devices (DREDs) (in preparation to supersede AS 4755—2007)  |
| 4755.3.1 | Part 3.1: Interaction of demand response enabling devices and electrical products—Operational instructions and connections for air conditioners  |
| 4755.3.2 | Part 3.2: Interaction of demand response enabling devices and electrical products—Operational instructions and connections for devices controlling swimming pool pump-units  |
| 4755.3.3 | Part 3.3: Interaction of demand response enabling devices and electrical products—Operational instructions and connections for electric and electric-boosted water heaters   |
| 4755.3.4 | Part 3.4: Interaction of demand response enabling devices and electrical products—Operational instructions and connections for grid-connected charge/discharge controllers for electric vehicles (EVSEs) (proposed new Standard) |
| 4755.3.5 | Part 3.5: Interaction of demand response enabling devices and electrical products—Operational instructions and connections for grid-connected electrical energy storage (EES) systems (this Standard)                            |

The AS/NZS 4755 framework is also relevant to AS and AS/NZS 4777 series, *Grid connection of energy systems via inverters*.

Statements expressed in mandatory terms in notes and footnotes to tables are deemed to be requirements of this Standard.

The diagram below depicts the relationship of this Standard to other related Standards within the AS/NZS 4755 framework. This Standard covers the interaction of the demand response controllers of electrical energy storage systems with DREDs to control the flow of energy through the grid interactive port of the system.



This Standard is intended to support demand response programs which optimize the operation of the electricity supply system and allow the efficient planning and use of capital equipment, while minimizing the risks to the comfort and amenity of users.

This Standard does not cover all aspects of construction and performance, which may be subject to other standards.

The term ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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