

## SUMMARY – SOUTH AUSTRALIAN DEMAND RESPONSE PERFORMANCE REQUIREMENTS

### ELECTRIC WATER HEATERS

Energy Ministers agreed requirements (November 2019)	SA proposed requirements (March 2021 Consultation Paper)	SA revised requirements (July 2021)
<p>Electric Storage Water Heaters to comply with either of the following standards:</p> <ul style="list-style-type: none"> <li>AS/NZS 4755.3.3:2014; or</li> <li>AS/NZS 4755.2 (when published).</li> </ul> <p>Compliance with demand response mode 1 (DRM1) to be required, for electric storage water heaters of 50 to 710 litres (inclusive) nominal capacity subject to GEMS (excluding heat exchange water heaters), registered after 1 July 2023. (Other DRMs are optional).</p>	<p>Compliance with:</p> <ul style="list-style-type: none"> <li>AS/NZS 4755.2 DRM1 or AS/NZS 4755.3.3:2014</li> <li>DRM1 from 1 July 2021</li> </ul> <p>Compliance with:</p> <ul style="list-style-type: none"> <li>AS/NZS 4755.2 only</li> <li>DRM1 and DRM4 capability from 1 July 2023</li> </ul> <p>In addition:</p> <ul style="list-style-type: none"> <li>Remove current restrictions that disallow electric storage where mains gas is available in Class 1 buildings</li> <li>Remove current tank limit of 250 litres for electric where mains gas not available</li> </ul>	<p>Retain existing water heater energy performance requirements for the 2022 Plumbing Code under the <i>Water Industry Act 2012</i> (SA).</p> <p>Technical Regulator to permit installation of AS/NZS 4755.2 complying electric resistance heaters on an exemption basis to enable monitoring of industry response to the release of AS 4755.2.</p> <p>Exemption to be available from 1 January 2022, and will permit installation of heaters that comply with AS/NZS 4755.2 or AS/NZS 4755.3.3:2014 DRM1</p> <p>The exemption will act as a trial as to whether competition in compliant demand response capable products emerges, and whether a permanent amendment should be made to the SA water heater performance rules to enable these heaters to be considered as a 'deemed to satisfy' complying heater.</p>

## AIR CONDITIONERS

Energy Ministers agreed requirements (November 2019)	SA proposed requirements (March 2021 Consultation Paper)	SA revised requirements (July 2021)
<p>Air conditioners to comply with any of the following standards:</p> <ul style="list-style-type: none"> <li>AS/NZS 4755.3.1:2014; or</li> <li>AS/NZS 4755.2 (when published); or</li> <li>The equivalent of the superseded AS/NZS 4755.3.1:2012 (for a limited period of two years).</li> </ul> <p>Compliance with three demand response modes (DRM1, DRM2, DRM3) to be required, for all AC types subject to GEMS (excluding portable air conditioners), up to a cooling capacity of 19kW inclusive, registered with GEMS after 30 June 2023.</p> <p>The option of complying with the equivalent of the superseded AS/NZS 4755.3.1:2012 to be no longer available for products registered after 30 June 2025.</p>	<p>Compliance with:</p> <ul style="list-style-type: none"> <li>AS4755.2 (non-DRED) (when published) only</li> <li>DRM1, DRM2, DRM3 from 1 July 2023</li> </ul>	<p>Implement local DR requirements aligned with the Energy Ministers' national requirements, commencing 1 July 2022</p> <p>Implement via a technical installation standard under the Electricity (General) Regulations 2012 (SA), as follows:</p> <p>Air conditioners connected to the electricity distribution network must comply with any of the following standards:</p> <ul style="list-style-type: none"> <li>AS/NZS 4755.3.1:2014; or</li> <li>AS/NZS 4755.2 (when published); or</li> <li>The equivalent of the superseded AS/NZS 4755.3.1:2012 (for a limited period of three years from commencement of the requirements on 1 July 2022).</li> </ul> <p>Compliance with three demand response modes (DRM1, DRM2, DRM3) to be required for all air conditioner types subject to GEMS (excluding portable air conditioners), up to a cooling capacity of 19kW inclusive, installed after 30 June 2022.</p> <p>The option of complying with the equivalent of the superseded AS/NZS 4755.3.1:2012 to be no longer available for products installed after 30 June 2025.</p>

## ELECTRIC VEHICLE CHARGERS

Energy Ministers agreed requirements (November 2019)	SA proposed requirements (March 2021 Consultation Paper)	SA revised requirements (July 2021)
<p>Controllers capable of managing the charging and/or discharging to the grid of EVs, that are intended for residential applications and capable of charging at SAE Level 2 or IEC Mode 3, to comply with any of the following standards:</p> <ul style="list-style-type: none"> <li>AS/NZS 4755.3.4 (when published); or</li> <li>AS/NZS 4755.2 (when published); or</li> <li>an equivalent international standard, if an E3 technical working group determines by mid-2022 that there is one that provides equivalent capabilities to AS/NZS 4755.</li> </ul> <p>Compliance with AS/NZS 4755 DRMs 0, 1,2,3,4,5 and 8 to be required (6 and 7 optional), or the equivalents in the other approved standard, for EV chargers supplied or offered for supply from 1 July 2026.</p>	<p>Compliance with:</p> <ul style="list-style-type: none"> <li>AS/NZS 4755.3.4 (when published) or AS/NZS 4755.2 (when published), or an equivalent international standard if the SA OTR approves one that provides equivalent capabilities to AS/NZS 4755.</li> <li>DRMs 0,1,2,3,4,5 and 8 to be required (or the equivalents in other approved standard) from 1 July 2024</li> </ul>	<p>DEM will investigate suitable international standards for EV chargers that provide equivalent demand response capabilities to AS/NZS 4755. Industry will be informed by the end of 2021 of the demand response standard that will be required in SA via an installation requirement under the Electricity regulations, and the commencement date.</p>

## POOL PUMPS CONTROLLERS

Energy Ministers agreed requirements (November 2019)	SA proposed requirements (March 2021 Consultation Paper)	SA revised requirements (July 2021)
<p>Devices controlling swimming pool pump-units (as defined in AS/NZS 4755.3.3:2014) to comply with either of the following standards:</p> <ul style="list-style-type: none"> <li>AS/NZS 4755.3.2:2014; or</li> <li>AS/NZS 4755.2 (when published).</li> </ul> <p>Compliance with demand response mode 1 (DRM1) to be required, for pool pump controllers supplied or offered for supply from 1 July 2024. (Other DRMs are optional).</p> <p>Compliance with DRM1, DRM2 and DRM3 to be required for pool pump controllers supplied or offered for supply from 1 July 2026.</p>	<p>Compliance with:</p> <ul style="list-style-type: none"> <li>AS4755.2 (non-DRED) (when published) only</li> <li>DRM1, DRM2 and DRM4 from 1 July 2024</li> </ul>	<p>Do not progress local DR requirements.</p> <p>DEM to work with the GEMS program to progress the nationally agreed DR requirements.</p>