

**Department for Energy and Mining Recommended  
Regulatory Changes for Smarter Homes**

Issue	Recommendation
<b>Remote disconnection and reconnection requirement</b>	
Commencement	28 September 2020 or such later date as declared by the Minister.
Requirement to apply to	Electricity generating plant that is or is to be connected to the distribution network prescribed by the Minister.  Solar photovoltaics are recommended to be prescribed from the commencement of the requirement.
New or existing	Electricity generating plant installed after it is prescribed for the purpose of this requirement.  Existing prescribed electricity generating plant which is having a component of the plant replaced which is a declared component for the purpose of this requirement.  The Technical Regulator will be responsible for declaring components for the purpose of this requirement.  Components being replaced under warranty will not trigger the application of this requirement.
The owner / operator obligation	The owner or operator of the plant must ensure the plant is capable of being remotely disconnected and reconnected from the distribution network by a relevant agent.  The owner or operator of the plant must authorise the relevant agent to remotely disconnect and reconnect their plant where the owner operator has been lawfully directed to disconnect or reconnect the plant.  The owner or operator of the plant must notify the relevant agent if the owner or operator is going to change.
Ability to connect to the distribution network	Plant to which this regulation applies must not be connected to the distribution network unless the owner / operator obligation is met.
Deemed capable of being remotely disconnected from and reconnected to a distribution network	The Technical Regulator will be responsible for publishing a guideline on technical methodologies that are deemed capable of remote disconnection and reconnection.  A plant which complies with a guideline method will be deemed to be capable of being remotely disconnected from, and reconnected to, a distribution network.  The Technical Regulator intends to provide that demand response mode (DRM) 0 (DRM0) as referred to in AS/NZS 4777.2 is a satisfactory disconnection capability.  An agent that can activate the capability will still be required to satisfy the owner / operator obligation.

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Role and responsibilities of agents	The Technical Regulator will be responsible for publishing a guideline on the role and responsibilities of relevant agents.
Transitional arrangement for agents	Relevant agents can enter into a legally binding arrangement with the Technical Regulator to be provided a transitional period to 31 December 2020 to complete preparation activities to activate plant under its control.
Register	A register of plants with disconnect and reconnect capability to be kept.
Implementation pathway	Amendments to the Electricity (General) Regulations.
Installers	Section 61 of the Electricity Act requires that persons carrying out work on an electrical installation must ensure that the work is carried out as required under the Electricity (General) Regulations.

Issue	Recommendation
<b>Low voltage ride-through requirement</b>	
Commencement	28 September 2020
Requirement to apply to	Electricity generating plant connected to the distribution network via an inverter.
New or existing	<p>Applies to electricity generating plant connected via an inverter installed after the commencement of this requirement.</p> <p>The exception to this is where the intended owner or operator of the plant had submitted an application to connect to SA Power Networks distribution network on or before 10 August 2020.</p> <p>Also applies to existing electricity generating plant connected via an inverter when the current inverter is being replaced, unless that inverter is being replaced under warranty.</p>
The owner / operator obligation	The owner or operator of the plant must ensure the inverter has been tested in accordance with voltage ride through procedures in AS/NZS 4777.2 and procedures published by AEMO.
Ability to connect to the distribution network	Plant to which this regulation applies must not be connected to the distribution network unless the owner / operator obligation is met.
Transitional arrangement for manufacturer testing	<p>Manufacturers and their importers can enter into a legally binding arrangement with the Technical Regulator to be provided a transitional period to 31 March 2021 to complete their manufacturer testing where certain conditions are met.</p> <p>The conditions are:</p> <ul style="list-style-type: none"> <li>- Evidence of test reports showing the inverter meets the testing procedure</li> <li>- Commitment to complete the testing by 31 March 2021</li> <li>- Commitment to make good any inverter installed in South Australia during the transitional period if the</li> </ul>

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	inverter fails the test through the testing lab at no cost to the customer, installer or supplier.
Implementation pathway	Amendments to the Electricity (General) Regulations.
Installers	Section 61 of the Electricity Act requires that persons carrying out work on an electrical installation must ensure that the work is carried out as required under the Electricity (General) Regulations.

Issue	Recommendation
<b>Dynamic export limits requirement</b>	
Commencement	Staggered commencement as noted under the owner / operator obligation.
Requirement to apply to	Electricity generating plant that is or is to be connected to the distribution network prescribed by the Minister.  Solar photovoltaics are recommended to be prescribed from the commencement of the requirement.
New or existing	Applies to electricity generating plant installed after it is prescribed for the purpose of this requirement.  Applies to existing prescribed electricity generating plant where a component of the plant is replaced which is a declared component for the purpose of this requirement.  The Technical Regulator will be responsible for declaring components for the purpose of this requirement.  Components being replaced under warranty will not trigger the application of this requirement.
The owner / operator obligation	The owner or operator of plant connected by an inverter must have internet capability and an onboard communications port from 28 September 2020.  Electricity generating plant must be capable of dynamic export limits and for those export limits to be updated remotely from 1 July 2021 or such later date prescribed by the Minister.
Deemed capable of dynamic export limits and for those exports limits to be updated remotely	The Technical Regulator be responsible for publishing a guideline on technical methodologies that are deemed capable of dynamic export limits and for those export limits to be updated remotely.  A plant which complies with a guideline method will be deemed to be capable of dynamic export limits and for those export limits to be updated remotely.
Implementation pathway	Amendments to the Electricity (General) Regulations.
Installers	Section 61 of the Electricity Act requires that persons carrying out work on an electrical installation must ensure that the work is carried out as required under the Electricity (General) Regulations.

Issue	Recommendation

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<b>Smart meter minimum standards</b>	
Commencement	28 September 2020
Requirement	<p>A meter installed at a connection point which has one or more electricity generating plant or controllable load must provide for the separate measurement and control of the electricity generation plant, controllable load and essential load except where such separation has been achieved through the installation of multiple meters.</p> <p>A meter installed at a connection point which does have an electricity generating plant or controllable load must be capable of the separate measurement and control of one of these things in the future from essential load.</p>
Exemptions	The Technical Regulator to have the power to exempt individually or by class where the outcome cannot be achieved in an economic manner
Technical Regulator guideline	The meter installation must meet the requirements of any guideline prepared and published by the Technical Regulator which may cover matters such as wiring, meter configurations and other installation requirements to meet the desired outcome.
Implementation pathway	Amendments to the Electricity (General) Regulations.
Installers	Section 61 of the Electricity Act requires that persons carrying out work on an electrical installation must ensure that the work is carried out as required under the Electricity (General) Regulations.

Issue	Recommendation
<b>Standing offer tariff structures</b>	
National Energy Retail Law declaration	Section 22(1a) of the National Energy Retail Law declared to apply on South Australia
Obligation	Section 22(1a) requires a retailer's standing offer for a customer with an interval meter to be the prescribed tariff structures.
Small customer residential prescribed structures	<p>The following tariff structures prescribed in relation to small residential customers for the purpose of section 22(1a):</p> <ul style="list-style-type: none"> <li>- Structure of the residential time of use tariff published by SA Power Networks.</li> <li>- Structure of the prosumer tariff published by SA Power Network.</li> <li>- Structure of the retail choice where the Minister verifies that the retailer has a generally available market offer providing efficient signals to customers of when to use energy and the retailer is using its best endeavours to market that generally available market offer to customers.</li> </ul>

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Small customer business prescribed structures	<p>The following tariff structures prescribed in relation to small business customers for the purpose of section 22(1a):</p> <ul style="list-style-type: none"> <li>- Structure of the small business time of use tariff published by SA Power Networks.</li> <li>- Structure of the small business time of use with demand tariff published by SA Power Network.</li> <li>- Retailer determined where the Minister verifies that the retailer has generally available market offers providing efficient time of use signals and the retailer is using its best endeavours to market that generally available market offer to customers.</li> </ul>
Selection of prescribed tariff structure	The retailer is only required to select one residential and one small business prescribed tariff structure.
Implementation pathway	Amendments to the National Energy Retail Law (Local Provisions) Regulations.