

# Network Price List and Explanatory Notes



## Essential Energy Network Price List (Excluding GST)

Effective 1 July 2022

Network Charge	Description	Interval Meter Time Periods	Network Access \$/Day	Energy All c/kWh	Energy Peak c/kWh	Energy Shoulder c/kWh	Energy Off Peak c/kWh	Demand Peak \$/kVA/M	Demand Shoulder \$/kVA/M	Demand Off Peak \$/kVA/M
<b>Residential Tariffs</b>										
BLNN2AU	LV Residential Anytime	N/A	0.9114	11.3262						
BLNT3AU	LV Residential ToU	No	0.9114		15.5509	12.5379	4.8957			
BLNT3AL	LV Residential ToU_Interval meter	Yes	0.9114		16.1216	12.0800	4.8957			
BLND1AR	Small Residential - Opt in Demand	Yes	0.9114		5.0692	3.8961	2.4179	4.1960		
<b>Controlled Load Tariffs</b>										
BLNC1AU	Controlled Load 1	N/A	0.0955	2.5316						
BLNC2AU	Controlled Load 2	N/A	0.0955	5.2501						
<b>Business Tariffs</b>										
BLNN1AU	LV Small Business Anytime	N/A	0.9114	15.5993						
BLNT2AU	LV ToU <100MWh	No	4.1288		16.5629	13.4496	7.1302			
BLNT2AL	LV Business ToU_Interval meter	Yes	1.5591		17.1589	12.9714	6.9061			
BLND1AB	Small Business - Opt in Demand	Yes	1.5591		7.9609	5.9583	3.4259	6.8185		
BLNT1AO	LV ToU <160MWh	Yes	4.1288		16.5629	13.4496	7.1302			
BLNDTRS	Transitional Demand	Yes	15.8085		5.0624	4.1956	2.7850	10.2257	9.2519	2.3064
BLND3AO	LV ToU Demand 3 Rate	Yes	15.8085		5.0624	4.1956	2.7850	10.2257	9.2519	2.3064
BLND3TO	LV ToU Demand - Alternative tariff	Yes	15.8085		14.7726	11.6818	5.2590	12.5134		
BHND3AO	HV ToU mthly Demand	Yes	19.5684		3.8543	3.2336	2.6832	9.2950	8.4098	2.5166
BSSD3AO	Subtransmission 3 Rate Demand	Yes	19.4245		4.6365	2.7706	2.3089	3.5869	2.5571	1.0194
<b>Unmetered Tariffs</b>										
BLNP1AO	LV Unmetered NUOS	No	0.9114	16.8625						
BLNP3AO	LV Public Street Lighting ToU NUOS	No	-		18.8472	14.8338	7.4336			
<b>Essential Energy Customer Specific</b>										
Customer specific prices	Subtransmission or Inter Distributor Transfers	Yes	Various		Various	Various	Various	Various	Various	Various
<b>Export Tariffs</b>										
BLNE21AU	Residential Anytime Export gross metered	N/A		-						
BLNE23AU	Residential Anytime Export net metered	N/A		-						
BLNE20AU	Business Anytime Export gross metered	N/A		-						
BLNE22AU	Business Anytime Export net metered	N/A		-						
BLNE0AU	Ineligible Export	N/A		-						
BLNE26AU	QLD Government Solar Bonus	N/A		-						
BLNE27AU	QLD Government Solar Bonus	N/A		-						

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Network Charge	Description	Interval Meter Time Periods	Network Access \$/Day	Energy All c/kWh	Energy Peak c/kWh	Energy Shoulder c/kWh	Energy Off Peak c/kWh	Demand Peak \$/kVA/M	Demand Shoulder \$/kVA/M	Demand Off Peak \$/kVA/M
<b>Residential Tariffs</b>										
BLNN2AU	LV Residential Anytime	N/A	1.0025	12.4588						
BLNT3AU	LV Residential ToU	No	1.0025		17.1060	13.7917	5.3853			
BLNT3AL	LV Residential ToU_Interval meter	Yes	1.0025		17.7338	13.2880	5.3853			
BLND1AR	Small Residential - Opt in Demand	Yes	1.0025		5.5761	4.2857	2.6597	4.6156		
<b>Controlled Load Tariffs</b>										
BLNC1AU	Controlled Load 1	N/A	0.1051	2.7848						
BLNC2AU	Controlled Load 2	N/A	0.1051	5.7751						
<b>Business Tariffs</b>										
BLNN1AU	LV Small Business Anytime	N/A	1.0025	17.1592						
BLNT2AU	LV ToU <100MWh	No	4.5417		18.2192	14.7946	7.8432			
BLNT2AL	LV Business ToU_Interval meter	Yes	1.7150		18.8748	14.2685	7.5967			
BLND1AB	Small Business - Opt in Demand	Yes	1.7150		8.7570	6.5541	3.7685	7.5004		
BLNT1AO	LV ToU <160MWh	Yes	4.5417		18.2192	14.7946	7.8432			
BLNDTRS	Transitional Demand	Yes	17.3894		5.5686	4.6152	3.0635	11.2483	10.1771	2.5370
BLND3AO	LV ToU Demand 3 Rate	Yes	17.3894		5.5686	4.6152	3.0635	11.2483	10.1771	2.5370
BLND3TO	LV ToU Demand Alternative tariff	Yes	17.3894		16.2499	12.8500	5.7849	13.7647		
BHND3AO	HV ToU mthly Demand	Yes	21.5252		4.2397	3.5570	2.9515	10.2245	9.2508	2.7683
BSSD3AO	Subtransmission 3 Rate Demand	Yes	21.3670		5.1002	3.0477	2.5398	3.9456	2.8128	1.1213
<b>Unmetered Tariffs</b>										
BLNP1AO	LV Unmetered NUOS	No	1.0025	18.5488						
BLNP3AO	LV Public Street Lighting ToU NUOS	No	-		20.7319	16.3172	8.1770			
<b>Essential Energy Customer Specific</b>										
Customer specific prices	Subtransmission or Inter Distributor Transfers	Yes	Various		Various	Various	Various	Various	Various	Various
<b>Export Tariffs</b>										
BLNE21AU	Residential Anytime Export gross metered	N/A		-						
BLNE23AU	Residential Anytime Export net metered	N/A		-						
BLNE20AU	Business Anytime Export gross metered	N/A		-						
BLNE22AU	Business Anytime Export net metered	N/A		-						
BLNE0AU	Ineligible Export	N/A		-						
BLNE26AU	QLD Government Solar Bonus	N/A		-						
BLNE27AU	QLD Government Solar Bonus	N/A		-						

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## 1 EXPLANATION OF NETWORK TARIFFS

Network Charge	Explanation
<b>BLNN2AU LV Residential Anytime</b>	Optional tariff for residential premises wholly used as a private dwelling, refer to the definition in this document of residential premise.
<b>BLNT3AU LV Residential ToU</b>	Optional tariff for residential premises wholly used as a private dwelling and they have a ToU capable meter.
<b>BLNT3AL LV Residential ToU_Interval meter</b>	Default tariff for all new connections, meter upgrades and new solar PV installations for residential premises that have an interval capable (smart) meter. Optional tariff for existing residential premises wholly used as a private dwelling and they have an Interval capable (smart) meter.
<b>BLND1AR Small Residential - Opt in Demand</b>	Optional tariff for residential premises wholly used as a private dwelling and they have an Interval capable (smart) meter.
<b>BLNC1AU Controlled Load 1</b>	To all residential and business premises where the premise has another primary metering point present at the same metering point as the secondary load and the load is remotely controlled. Applicable to loads such as water heating, swimming pool pumps etc. Loads must be permanently connected or on a dedicated power circuit with indicators to show when supply is available. Supply will be made available for 5 to 9 hours overnight on weekdays and extra hours on weekends except where the load is controlled by a time clock. Note: This tariff is not available for the top boost element of a two element water heater for new connections.
<b>BLNC2AU Controlled Load 2</b>	As per BLNC1AU Controlled Load 1, except the supply will be made available for 10 to 19 hours per day on weekdays and extra hours on weekends.
<b>BLNN1AU LV Small Business Anytime</b>	Optional tariff for business premises whose consumption does not exceed 100 MWh per year.
<b>BLNT2AU LV ToU &lt;100MWh</b>	Optional tariff for business premises whose consumption does not exceed 100 MWh per year and they have a ToU capable meter. Customers with obsolete two rate meters will be charged the Network access charge and the shoulder and off peak energy components, until their meter is upgraded.
<b>BLNT2AL LV Business ToU_Interval meter</b>	Default tariff for all new connections, meter upgrades and new solar PV installations for small business customers that have an interval capable (smart) meter. Optional tariff for existing business premises whose consumption does not exceed 100 MWh per year and they have an Interval capable (smart) meter.
<b>BLND1AB Small Business - Opt in Demand</b>	Optional tariff for business premises whose consumption does not exceed 100 MWh per year and they have an Interval capable (smart) meter.
<b>BLNT1AO LV ToU &lt;160MWh</b>	Default tariff for business premises whose consumption does not exceed 160 MWh per year.
<b>BLNDTRS Transitional Demand</b>	Eligible customers will be automatically assigned to this tariff by Essential Energy and it is not available by request. This tariff is for customers that have been identified on an Anytime tariff or Time-of-Use tariff but do not meet the associated eligibility requirements for those tariffs. Applies from 1 July 2017 and will be assigned to customers who would otherwise be worse off from being moved to the applicable Demand tariff at that date. The tariff will transition over 5 years to the rate of BLND3AO 1. Low voltage connection 2. Premises where consumption exceeds 160 MWh per year 3. Interval capable meter
<b>BLND3AO LV ToU Demand 3 Rate</b>	Default tariff for business premises whose consumption exceeds 160MWh per year and connected to the LV Distribution System.

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Network Charge	Explanation
<b>BLNS1AO LV ToU Avg daily Demand</b>	<p>Obsolete tariff, not available for new connects. Was available to customers who have a monthly load factor greater than 60% for at least 4 of the most recent 12 months coinciding with a minimum on season anytime monthly demand of 1500 kVA. This is intended for customers with a seasonal demand. Demand Charges will be calculated as follows:</p> <ol style="list-style-type: none"> <li>1. The daily kVA maximum demand in each of the Peak, Shoulder and Off Peak periods will be metered for each day of the month.</li> <li>2. The metered kVA Demand for each day of the Peak, Shoulder and Off-Peak periods will be summed for the month and divided by the number of days in the month when the load occurs. This means that Peak and Shoulder Demand will be divided by the number of week days, and Off Peak Demand by the total number of days.</li> <li>3. The average ToU Demand calculated above will be multiplied by the ToU Demand rates.</li> <li>4. No adjustments to billable demand shall be made for pre-season "test runs".</li> </ol>
<b>BLND3TO LV ToU Demand Alternative Tariff</b>	Optional tariff for business premises whose consumption exceeds 160MWh per year and connected to the LV Distribution System. The Demand Charge is based on the highest measured half-hour kVA demand registered in either the peak or shoulder periods during the month.
<b>BHND3AO HV ToU Mthly Demand</b>	Default tariff for business premises whose consumption is connected to the HV Distribution System and metered at HV.
<b>BHNS1AO HV ToU Avg daily Demand</b>	<p>Obsolete tariff, not available for new connects. Was available for business premises whose consumption is connected to the HV Distribution System and metered at HV. Available to customers who have a monthly load factor greater than 60% for at least 4 of the most recent 12 months coinciding with a minimum on season anytime monthly demand of 1500 kVA. (The minimum demand and load factor requirements will be waived where a generator supports a substantial part of the load on the load side of the meter.) This is intended for customers with a seasonal demand. Demand Charges will be calculated as follows:</p> <ol style="list-style-type: none"> <li>1. The daily kVA maximum demand in each of the Peak, Shoulder and Off Peak periods will be metered for each day of the month.</li> <li>2. The metered kVA Demand for each day of the Peak, Shoulder and Off-Peak periods will be summed for the month and divided by the number of days in the month when the load occurs. This means that Peak and Shoulder Demand will be divided by the number of week days. Off Peak Demand by the total number of days.</li> <li>3. The average ToU Demand calculated above will be multiplied by the ToU Demand rates.</li> <li>4. No adjustments to billable demand shall be made for pre-season "test runs".</li> </ol>
<b>BSSD3AO Subtransmission 3 Rate Demand</b>	Default tariff for connections at a subtransmission voltage as defined by Essential Energy. Please note that this tariff is not applicable for connection to dual purpose subtransmission/distribution circuits.
<b>BLNP1AO LV Unmetered NUOS</b>	Refer to Unmetered Supply section 2 Definitions. All new unmetered supply connections will have this tariff applied.
<b>BLNP3AO LV Public Street Lighting ToU NUOS</b>	Refer to Unmetered Supply section 2 Definitions. All new public street lighting connections will have this tariff applied.
<b>Customer specific prices or Inter Distributor Transfers</b>	Refer Explanatory Notes 1.7 Customer Specific (cost reflective network prices)
<b>BLNE21AU Anytime Export Gross metered</b>	Residential premises with a gross metered export tariff and no rebate applicable
<b>BLNE23AU Anytime Export Net metered</b>	Residential premises with a net metered export tariff and no rebate applicable
<b>BLNE20AU Anytime Export Gross metered</b>	Business premises with a gross metered export tariff and no rebate applicable
<b>BLNE22AU Anytime Export Net metered</b>	Business premises with a net metered export tariff and no rebate applicable
<b>BLNE0AU Ineligible Export</b>	Where application to connect to grid has not yet been approved.
<b>BLNE26AU QLD Government Solar Bonus</b>	QLD Government Solar bonus scheme for eligible residential customers located in Qld but connected to Essential Energy's Distribution Network.
<b>BLNE27AU QLD Government Solar Bonus</b>	QLD Government Solar bonus scheme for eligible business customers located in Qld but connected to Essential Energy's Distribution Network.

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Obsolete Network Charge	Description	Interval Meter Time Periods	Network Access \$/Day	Energy Peak c/kWh	Energy Shoulder c/kWh	Energy Off Peak c/kWh	Demand Charge \$/kVA/M	Peak Demand \$/kVA/M	Shoulder Demand \$/kVA/M	Off Peak Demand \$/kVA/M	Capacity Charge \$/kVA/M
<b>Obsolete Tariffs – Not applicable to new connections</b>											
BLNS1AO	LV TOU avg daily Demand	Yes	16.9727	4.7047	3.9198	2.6592		12.2166	11.0531	2.8249	
BHNS1AO	HV TOU avg daily Demand	Yes	19.0199	3.7879	3.2606	2.6753		9.8426	8.9052	2.6648	
BLNT1SU	LV ToU <160 MWh	No	7.4329	17.9688	13.9486	7.4603					
BLND1CO	LV ToU Demand 1 Rate	No	21.8837	7.2071	5.8717	3.2565	18.1635				
BLND1SR	LV 1 Rate Demand Sth Rural	No	16.9727	14.7201	11.6918	5.0038	12.0640				4.3858
BLND1SU	LV 1 Rate Demand Sth Urban	No	4.5666	16.5516	13.1038	6.5394	11.8325				4.3913
BHND1CO	HV 1 Rate Demand Cent Urban ToU	No	28.0805	7.8097	7.3955	3.3812	13.2410				
BHND1SO	HV 1 Rate Demand Sth Urban	No	20.9311	7.1163	6.8046	4.8130	9.5622				3.5216

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Obsolete Network Charge	Description	Interval Meter Time Periods	Network Access \$/Day	Energy Peak c/kWh	Energy Shoulder c/kWh	Energy Off Peak c/kWh	Demand Charge \$/kVA/M	Peak Demand \$/kVA/M	Shoulder Demand \$/kVA/M	Off Peak Demand \$/kVA/M	Capacity Charge \$/kVA/M
<b>Obsolete Tariffs – Not applicable to new connections</b>											
BLNS1AO	LV TOU avg daily Demand	Yes	18.6700	5.1752	4.3118	2.9251		13.4383	12.1584	3.1074	
BHNS1AO	HV TOU avg daily Demand	Yes	20.9219	4.1667	3.5867	2.9428		10.8269	9.7957	2.9313	
BLNT1SU	LV ToU <160 MWh	No	8.1762	19.7657	15.3435	8.2063					
BLND1CO	LV ToU Demand 1 Rate	No	24.0721	7.9278	6.4589	3.5822	19.9799				
BLND1SR	LV 1 Rate Demand Sth Rural	No	18.6700	16.1921	12.8610	5.5042	13.2704				4.8244
BLND1SU	LV 1 Rate Demand Sth Urban	No	5.0233	18.2068	14.4142	7.1933	13.0158				4.8304
BHND1CO	HV 1 Rate Demand Cent Urban ToU	No	30.8886	8.5907	8.1351	3.7193	14.5651				
BHND1SO	HV 1 Rate Demand Sth Urban	No	23.0242	7.8279	7.4851	5.2943	10.5184				3.8738

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Obsolete Network Charge	Description	Energy All c/kWh	Application
<b>Obsolete Export Tariffs – Not applicable to new connections</b>			
BLNE2AU	NSW Solar Bonus Scheme Net	-	NSW Solar bonus scheme rebate for net metering introduced by the NSW Government and applicable to residential customers who submitted an application on or before 18th November 2010 and purchased a system on or before 27th October 2010. Refer to Section 1.1 for GST application. Ceased 31 December 2016
BLNE4AU	NSW Solar Bonus Scheme Gross	-	NSW Solar bonus scheme rebate for gross metering introduced by the NSW Government and applicable to residential customers who submitted an application on or before 18th November 2010 and purchased a system on or before 27th October 2010. Refer to Section 1.1 for GST application. Ceased 31 December 2016
BLNE1AU	NSW Solar Bonus Scheme Net	-	NSW Solar bonus scheme rebate for net metering introduced by the NSW Government and applicable to business customers who submitted an application on or before 18th November 2010 and purchased a system on or before 27th October 2010. Refer to Section 1.1 for GST application. Ceased 31 December 2016
BLNE3AU	NSW Solar Bonus Scheme Gross	-	NSW Solar bonus scheme rebate for gross metering introduced by the NSW Government and applicable to business customers who submitted an application on or before 18th November 2010 and purchased a system on or before 27th October 2010. Refer to Section 1.1 for GST application. Ceased 31 December 2016
BLNE11AU	NSW Solar Bonus Scheme Net	-	NSW Solar bonus scheme rebate for net metering introduced by the NSW Government and applicable to business customers who joined the scheme after 18th November 2010 or purchased a system after 27th October 2010. Refer to Section 1.1 for GST application. Discontinued from 1 April 2011. Ceased 31 December 2016
BLNE13AU	NSW Solar Bonus Scheme Gross	-	NSW Solar bonus scheme rebate for gross metering introduced by the NSW Government and applicable to business customers who joined the scheme after 18th November 2010 or purchased a system after 27th October 2010. Refer to Section 1.1 for GST application. Discontinued from 1 April 2011. Ceased 31 December 2016
BLNE12AU	NSW Solar Bonus Scheme Net	-	NSW Solar bonus scheme rebate for net metering introduced by the NSW Government and applicable to residential customers who joined the scheme after 18th November 2010 or purchased a system after 27th October 2010. Refer to Section 1.1 for GST application. Discontinued from 29 April 2011. Ceased 31 December 2016
BLNE14AU	NSW Solar Bonus Scheme Gross	-	NSW Solar bonus scheme rebate for gross metering introduced by the NSW Government and applicable to residential customers who joined the scheme after 18th November 2010 or purchased a system after 27th October 2010. Refer to Section 1.1 for GST application. Discontinued from 29 April 2011.
BLNE30AU	NSW Solar Bonus Scheme Retailer Contribution	-	NSW Solar bonus scheme retailer contribution applicable to retailers who have customers on the Solar bonus scheme. Refer to Section 1.1 for GST application. From IPARTs Solar Feed-in Tariffs, dated June 2016.
BLNE24AU	QLD Government Solar Bonus Scheme	-44.0000	QLD Government Solar bonus scheme rebate for eligible residential customers located in Qld but connected to Essential Energy's Distribution Network. Discontinued 9 July 2012.
BLNE25AU	QLD Government Solar Bonus Scheme	-40.0000	QLD Government Solar bonus scheme rebate for eligible business customers located in Qld but connected to Essential Energy's Distribution Network. Discontinued 9 July 2012. <b><i>This solar tariff has GST applied</i></b> , please refer to Section 1.1 for GST application for other solar tariffs.



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## Explanatory Notes

### 2 APPLICABILITY OF NETWORK CHARGES

The rates in this price list are inclusive of charges levied on Essential Energy by transmission network service providers and government legislation. For example, Essential Energy is required to contribute towards the Climate Change Fund which is used to support energy saving initiatives across New South Wales.

#### 2.1 GOODS AND SERVICES TAX

Subject to the below, the network use of system (NUOS) prices and other fees and charges are **exclusive** of the 10% Goods and Services Tax. GST of 10% is added to all NUOS prices and other fees and charges.

#### 2.2 CHOICE OF NETWORK CHARGES

The rates listed are the rates charged to retailers of electricity for the use of Essential Energy's distribution system. Network charges do not include the cost of energy. It is a matter for the retailer of choice to determine the most economical available Network Tariff. All Retailers will be required to submit a SSW Tariff change Service Order via B2B. If Essential Energy agrees with the tariff change request made by the retailer, the change will take effect from the most recent meter read for basic metering or from the beginning of the current month for Type 1-4 metering and will not be made retrospectively.

Retailers may only request a Tariff change once every twelve months for a premise unless they can demonstrate a change of circumstances. Please refer to Essential Energy's Tariff Assignment and Reassignment Policy on the website.

Retailers or customers who choose to transfer a site off an obsolete tariff will lose all rights to all obsolete tariffs

on that premise, i.e. the entire site will be required to move onto currently available tariffs. Exemptions to this rule are connection of additional services, e.g. if a site that currently has an obsolete General Supply Business tariff on a premise and they have Controlled Load installed (i.e. new circuit, meter and relay); the Controlled Load 1 will be connected to the current Controlled Load 1 tariff while the obsolete General Supply tariff will remain.

Essential Energy reserves the right to review a customer's network price in the event of load changes and notify the customer's retailer of any resulting changes. The final decision on the appropriate network price for a customer shall be at the discretion of Essential Energy. Regular reviews will be done to ensure customers meet the criteria's associated with their assigned network tariff.

All customers entering the contestable electricity market will normally be transferred to the appropriate network price reflecting the customer's previous regulated retail tariff.

Refer to National Electricity Rules (NER) Chapter 6 for rules concerning assigning customers to tariff classes.

#### 2.3 MID-MONTH CHANGE OF RETAILER OF CHOICE

Where customers change their retailer at any time during a calendar month, NUOS invoices will be allocated between the retailers from the actual change date that the transfer went 'Complete' in the market. NUOS invoicing will utilise the 'Actual Reads' acquired from the meter on that date.

Where the NMI is for Unmetered Supply (UMS) only and a change of retailer occurs mid-month, NUOS invoices will be allocated on a pro-rata basis depending on the number of days of the month that the customer was contracted with each retailer. However, it is preferred

and advised that UMS transfer on the 1st day of a calendar month.

#### 2.4 CONTROLLED LOAD

Controlled Load tariffs are secondary tariffs and are only available if the Premise has a Primary tariff. All controlled load equipment for customers that have hot water, process heating or any other approved circuits which are controlled by Essential Energy shall remain a Network asset belonging solely to Essential Energy and as such cannot be removed without permission. Multiple load types (maximum of 3) are permissible on the one relay, with no restrictions on the type of load which may be controlled by a controlled load relay. The load types connected shall not exceed more than 25 Amps resistive, as this will exceed the rating of the load control device. If the connected controlled load exceeds this rating, an additional and suitable contactor must be supplied and installed by the customer.

**Please note:** Controlled Load does not include public holidays.

**Please note:** Where premises are converted to a whole-of-meter ToU Tariff, Essential Energy Load Control Devices shall be removed. Essential Energy is unable to align the operation of its Load Control Platform with the operation made by the TOU meter in switching between Peak, Shoulder and Off Peak rates. Controlled Load tariffs, complete with Essential Energy Load Control devices, are still permissible only if the Controlled Load circuit is separately metered.

Controlled Load One Tariff applies where approved appliances are controlled by Essential Energy's equipment so that supply is generally available for 5 to 9 hours on weekdays and extra hours on weekends except where the load is controlled by a time clock. Controlled Load Two Tariff applies where approved appliances are controlled by Essential Energy's equipment so that electricity is available for 10 to 19 hours per day on weekdays and extra hours on

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weekends. Essential Energy reserves the right to vary these times to suit network conditions without affecting the customer's usage of the appliances. In slab heating is to be metered and controlled separately to other controlled loads.

All hot water boost facilities are permitted but boost must be metered at primary tariff and must automatically reset once the thermostat of the hot water service opens. Traditional "Day/Night" switches are NOT permitted. Boost buttons supplied by Essential Energy are **only available on twin element meters**. There will be an additional charge to activate the boost button. **Please note:** This cost does not include the installation cost provided by an accredited service provider.

## 2.5 SITE SPECIFIC PRICES (COST REFLECTIVE NETWORK PRICES)

A location specific network price may be negotiated with a customer with an electrical demand of greater than 10MW or a load greater than 40GWh per annum. National Electricity Rules (**NER**) clause 6.23 allows customers to make a request of the DNSP to disclose transmission and distribution charges. Please contact Essential Energy for site specific rates.

## 2.6 SUBTRACTION METERING

Subtraction Metering is not permissible for new connections. The removal of subtraction metering for existing customers should be encouraged wherever possible when an existing site is upgraded. ToU Tariffs are not available to premises with subtractive metering.

## 2.7 PREMISE AMALGAMATION

Premises fed from different substations must have different National Market Identifiers.

## 2.8 ANCILLARY NETWORK SERVICES

Ancillary Network Services are as per AER's Essential Energy distribution determination for the regulatory control period 2019-24. Essential Energy's Schedule of charges for these services can be found on Essential Energy's website at: <http://www.essentialenergy.com.au/content/electricity-network-pricing-and-information>

## 2.9 EMBEDDED GENERATORS

Any Embedded Generator that has a stand alone connection to Essential Energy's distribution network must have an active Network tariff and pay the applicable daily Network Access Charge. The energy usage charge will also be applied to any consumption on the E channel stream of the generator's NMI, however kWh generated on B channel will not incur any charges. The Network tariff to be applied is dependent on the connection type of the Embedded Generator, i.e. a generator connected to the HV network will have Network tariff BHND3AO applied or if connected to the LV network will have BLND3AO applied.

## 3 DEFINITIONS AND INTERPRETATION

**BUSINESS PREMISES** are generally factories, warehouses, hotels, motels, shops, offices, schools, sporting and social clubs, and do not meet the residential criteria.

**CAPACITY CHARGES** are monthly charges based on the required capacity of the connection (measured in \$/KVA) whereby the charges are applied to the maximum half hourly KVA power reading that occurred at a customer's connection point over the 12 months prior to a bill being calculated. Demand is rounded up to 20, 40, 60, 80, 100, 150, 200, 300, 400, 500kVA and so on in 100kVA increments. These charges only exist for Obsolete tariffs.

**DISTRIBUTION LOSS FACTORS** are the measure of energy lost across the network. They are the difference

between energy received into the network and total energy consumed by customers. These loss factors are not applied to network charges but are used by retailers in the market settlement process and added to retail bills to account for the energy lost. Loss factors are averaged for most customers depending on the voltage level of their connection to the network but may be calculated individually for very large customers and generators.

Loss factors are calculated annually by DNSPs for the following year and are published on AEMO'S website at: <https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Security-and-reliability/Loss-factor-and-regional-boundaries>

**KVA** is the Apparent Power and requires an intermediate calculation as follows:

$$kVA = \sqrt{kW^2 + kvar^2}$$

The NEM allocates Data Stream identifiers to correctly tag the data from the meters:

Energy Flow Definition	NMI Channel Suffix
Real energy kWh generation by customer	B
Real energy kWh consumption by customer	E
Import kvarh (leading reactive energy)	K
Export kvarh (lagging reactive energy)	Q

In terms of NMI data stream suffixes, the formula can be simplified to the following calculation for each **30-minute** interval:

$$kVA = 2 \times \sqrt{E^2 + (Q - K)^2}$$

Any Real Power that is exported from the site into the network (that is, kWh generated) is not included in the kVA calculation.



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**MONTHLY LOAD FACTOR** is the ratio of consumption in kWh divided by the product of the maximum load in kW and the number of hours during the billing period, generally monthly. If the data is available other than monthly, the data will be prorated on a monthly basis.

**NATIONAL METERING IDENTIFIER or NMI** is the unique metering identifier assigned to a metering installation. Essential Energy will issue NMIs for each site in accordance with Section 7 of the NER.

**NETWORK ACCESS CHARGE** is a fixed charge applied to each point of connection at which energy or demand is measured reflecting the fixed nature of network operational and asset-related costs. The Network Access Charge is given as a daily rate.

**NON ToU NETWORK USAGE RATES** is the Non ToU charge (c/kWh) applied to the total energy determined from an energy only meter.

**OBsolete TARIFFS** means tariffs that may apply to existing Essential Energy customers but that are not available to new customers. Examples of what can and can't be done for obsolete tariffs:

- 1 If a site is newly connected to the Essential Energy network (Greenfield site) it cannot use an obsolete tariff.
- 2 If a site changes ownership i.e. if Jackson P/L moves out and Matthews P/L moves into a site that was on an obsolete tariff, then the new customer Mathews P/L cannot be connected on the obsolete tariff.
- 3 If a customer who is on an obsolete tariff chooses to move to a non obsolete tariff (i.e. because they think it is more cost effective) then the obsolete tariff is no longer available to them. They cannot transfer back at a later date.
- 4 A site that is connected under one obsolete tariff cannot transfer to another obsolete tariff. The only tariffs available to any site are:

- a the tariff the site is already on (except where its usage changes so that the site no longer meets the application criteria for the existing tariff), or
  - b any non-obsolete tariff that the site has available to it based on the application criteria of the tariff and limitations of the installed metering.
- 5 Customers who have sites on obsolete tariffs can move off an obsolete tariff at any time. Refer 2.2 Choice of Network Charges above.

**Please note:** that the word obsolete may have a different meaning when applied to Retail tariffs.

**RESIDENTIAL PREMISES** are premises that use their connection for solely domestic purposes. This excludes premises where the use of the network is predominantly for the purpose of obtaining a commercial financial gain or providing a service such as nursing home or boarding house. These premises are connected to the low voltage network.

**SINGLE RATE DEMAND** is the Demand Charge is based on the highest measured half-hour kVA demand during the month. A separate demand will apply at each individual connection point (NMI). Coincident or summated demand from multiple connection points is not permitted without the written approval of Essential Energy.

Where one Demand Charge is provided across both the Peak and Shoulder periods it is based on the highest measured half-hour kVA demand registered in either the peak or shoulder periods during the month.

**SITE SPECIFIC DISTRIBUTION LOSS FACTORS** The NER 3.6.3 states a connection point for an end user with an electrical demand of >10 MW OR a load of >40 GWh per annum shall have a site specific DLF.

**SOLAR BONUS SCHEME (SBS)** The NSW Government's SBS ceased on 31<sup>st</sup> December 2016.

**SUPPLY VOLTAGES** Essential Energy reserves the right to determine the voltage at which supply shall be

made available to any particular Customer. The general voltage levels referred to in the prices are:

<b>Low Voltage (LV)</b>	nominally 230/400V
<b>High Voltage (HV)</b>	nominally 11, 22, 33 or 66kV
<b>Subtransmission (ST)</b>	the voltage defined by Essential Energy which interconnects subtransmission or zone substations.

**THREE RATE DEMAND** the Demand charge (\$/kVA/month) is applied to the calendar monthly kVA demand measured by the meter for the peak, shoulder and off-peak periods. The monthly kVA demand is the maximum half hour demand for the month occurring within the peak, shoulder and off-peak periods and is calculated using the kWh and kVArh energy components recorded by the NER compliant meter. The method of demand measurement is 30 minute clocked. LV ToU Average Daily Demand and HV ToU Average Daily Demand tariffs are exceptions to this description. Demand charges for these tariffs are calculated as set out in the tariff description.

A separate demand will apply at each individual connection point (NMI). Coincident or summated demand from multiple connection points is not permitted without the written approval of Essential Energy. Approval will not be given where connection points are supplied from different substations or the points are electronically and physically separated.

## TIME PERIODS

All times are Eastern Standard Time (which includes Daylight Saving Time or Summer Time as defined in these Explanatory Notes). These times are unchanged when a public holiday falls on a weekday.

### **Interval Meter time periods (from 1<sup>st</sup> July 2017);**

**PEAK PERIOD** is from 5.00pm–8.00pm on weekdays only.

**SHOULDER PERIOD** is from 7.00am–5.00pm and 8.00pm–10.00pm on weekdays.

**OFF-PEAK PERIOD** is at all other times.

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**For Basic and Accumulation meters, and premises on Obsolete Tariffs (applied to all ToU charges prior to 1<sup>st</sup> July 2017);**

**PEAK PERIOD** is from 7.00am–9.00am and 5.00pm–8.00pm on weekdays.

**SHOULDER PERIOD** is from 9.00am–5.00pm and 8.00pm–10.00pm on weekdays.

**OFF-PEAK PERIOD** is at all other times.

**DAYLIGHT SAVINGS TIME** will be applied to all customers with interval read meters and unmetered supplies in determining Network charges. Other customers will have Summer Time applied, see definition below.

**SUMMER TIME** is the period from the last Sunday in October at 2am to the last Sunday in March at 3am of the following year. Summer time adjustments will be made to ToU meters.

**TIME OF USE (ToU) RATES** are applied where there is a time of use meter installed, and the customer has a time of use tariff. Accordingly, the overall charges are calculated based on different rates applying during peak, shoulder and off-peak time periods.

**ToU FAR WEST REGION** calculations are based on either Eastern Standard Time or Summer Time depending on when the meter was installed or programmed.

**TRANSMISSION LOSS FACTORS** for NSW connected customers vary depending on the customers Transmission Node Identifier (TNI). Loss factors are not applied to network charges. Essential Energy transmission nodes are available on AEMO's website at <https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Security-and-reliability/Loss-factor-and-regional-boundaries>

**UNMETERED SUPPLIES** (type 7 metering installation) applies to those loads agreed between a Minister and AEMO. Refer to: Metrology Procedures & Type 7 Load Tables –

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<http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Metrology-Procedures-and-Unmetered-Loads>

NER Chapter 7 -

<https://www.aemc.gov.au/regulation/energy-rules/national-electricity-rules/current>

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## ENQUIRIES

If you are an individual, private company or Government department who is interested in receiving information in regard to Essential Energy's Network Price List or would like to be added to our Register of Interested Parties, please fill in our online form, "Network Pricing Register";

<http://www.essentialenergy.com.au/content/electricity-network-pricing-and-information>

If you require more information, or have any enquiries, please contact the Network Pricing group by email at [networkpricing@essentialenergy.com.au](mailto:networkpricing@essentialenergy.com.au) or our Customer Service Centre on 13 23 91.

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## DISCLAIMER

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## VERSIONS

Version 1 (V1)

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