

Network Price List and Explanatory Notes



Essential Energy Network Price List (Excluding GST)

Effective 1 July 2020

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
Residential Tariffs										
BLNN2AU	LV Residential Anytime	N/A	0.8364	10.5028						
BLNT3AU	LV Residential ToU	No	0.8364		13.8061	11.9541	4.4684			
BLNT3AL	LV Residential ToU_Interval meter	Yes	0.8364		14.3257	11.5025	4.4684			
BLND1AR	Small Residential - Opt in Demand	Yes	0.8364		4.2625	3.4303	2.1212	3.9748		
Controlled Load Tariffs										
BLNC1AU	Controlled Load 1	N/A	0.0904	2.2289						
BLNC2AU	Controlled Load 2	N/A	0.0904	4.7573						
Business Tariffs										
BLNN1AU	LV Small Business Anytime	N/A	0.8364	14.5137						
BLNT2AU	LV ToU <100MWh	No	5.0973		14.7090	12.7966	6.5481			
BLNT2AL	LV Business ToU_Interval meter	Yes	1.4500		15.2517	12.3248	6.3358			
BLND1AB	Small Business - Opt in Demand	Yes	1.4500		6.1600	4.8023	2.8424	6.4590		
BLNT1AO	LV ToU <160MWh	Yes	5.0973		14.7090	12.7966	6.5481			
BLNDTRS	Transitional Demand	Yes	11.6826		7.7553	6.7411	3.8070	6.6351	6.0031	1.4565
BLND3AO	LV ToU Demand 3 Rate	Yes	14.9752		4.2784	3.7133	2.4364	9.9526	9.0047	2.1848
BLND3TO	LV ToU Demand - Alternative tariff	Yes	14.9752		13.1195	11.0973	4.7800	11.8537		
BHND3AO	HV ToU mthly Demand	Yes	18.5369		3.2685	2.8637	2.3523	8.8051	7.9665	2.3839
BSSD3AO	Subtransmission 3 Rate Demand	Yes	18.4006		3.9941	2.3969	1.9955	3.3978	2.4223	0.9656
Unmetered Tariffs										
BLNP1AO	LV Unmetered NUOS	No	0.8364	15.7058						
BLNP3AO	LV Public Street Lighting ToU NUOS	No	-		16.7841	14.1577	6.8310			
Essential Energy Customer Specific										
Customer specific prices	Subtransmission or Inter Distributor Transfers	Yes	Various		Various	Various	Various	Various	Various	Various
Export Tariffs										
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		-						

Effective 1 July 2020

Network Price List

FOR PUBLIC RELEASE

Network Price List and Explanatory Notes



Essential Energy Network Price List (Including GST)

Effective 1 July 2020

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Residential Tariffs										
BLNN2AU	LV Residential Anytime	N/A	0.9200	11.5531						
BLNT3AU	LV Residential ToU	No	0.9200		15.1867	13.1495	4.9152			
BLNT3AL	LV Residential ToU_Interval meter	Yes	0.9200		15.7583	12.6528	4.9152			
BLND1AR	Small Residential - Opt in Demand	Yes	0.9200		4.6888	3.7733	2.3333	4.3723		
Controlled Load Tariffs										
BLNC1AU	Controlled Load 1	N/A	0.0994	2.4518						
BLNC2AU	Controlled Load 2	N/A	0.0994	5.2330						
Business Tariffs										
BLNN1AU	LV Small Business Anytime	N/A	0.9200	15.9651						
BLNT2AU	LV ToU <100MWh	No	5.6070		16.1799	14.0763	7.2029			
BLNT2AL	LV Business ToU_Interval meter	Yes	1.5950		16.7769	13.5573	6.9694			
BLND1AB	Small Business - Opt in Demand	Yes	1.5950		6.7760	5.2825	3.1266	7.1049		
BLNT1AO	LV ToU <160MWh	Yes	5.6070		16.1799	14.0763	7.2029			
BLNDTRS	Transitional Demand	Yes	12.8509		8.5308	7.4152	4.1877	7.2986	6.6034	1.6022
BLND3AO	LV ToU Demand 3 Rate	Yes	16.4727		4.7062	4.0846	2.6800	10.9479	9.9052	2.4033
BLND3TO	LV ToU Demand Alternative tariff	Yes	16.4727		14.4315	12.2070	5.2580	13.0391		
BHND3AO	HV ToU mthly Demand	Yes	20.3906		3.5954	3.1501	2.5875	9.6856	8.7632	2.6223
BSSD3AO	Subtransmission 3 Rate Demand	Yes	20.2407		4.3935	2.6366	2.1951	3.7376	2.6645	1.0622
Unmetered Tariffs										
BLNP1AO	LV Unmetered NUOS	No	0.9200	17.2764						
BLNP3AO	LV Public Street Lighting ToU NUOS	No	-		18.4625	15.5735	7.5141			
Essential Energy Customer Specific										
Customer specific prices	Subtransmission or Inter Distributor Transfers	Yes	Various		Various	Various	Various	Various	Various	Various
Export Tariffs										
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		-						

Effective 1 July 2020

Network Price List

FOR PUBLIC RELEASE

Network Price List and Explanatory Notes



1 EXPLANATION OF NETWORK TARIFFS

Network Charge	Explanation
BLNN2AU LV Residential Anytime	Optional tariff for residential premises wholly used as a private dwelling, refer to the definition in this document of residential premise.
BLNT3AU LV Residential ToU	Optional tariff for residential premises wholly used as a private dwelling and they have a ToU capable meter.
BLNT3AL LV Residential ToU_Interval meter	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.
BLND1AR Small Residential - Opt in Demand	Optional tariff for residential premises wholly used as a private dwelling and they have an Interval capable (smart) meter.
BLNC1AU Controlled Load 1	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.
BLNC2AU Controlled Load 2	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.
BLNN1AU LV Small Business Anytime	Optional tariff for business premises whose consumption does not exceed 100 MWh per year.
BLNT2AU LV ToU <100MWh	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.
BLNT2AL LV Business ToU_Interval meter	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.
BLND1AB Small Business - Opt in Demand	Optional tariff for business premises whose consumption does not exceed 100 MWh per year and they have an Interval capable (smart) meter.
BLNT1AO LV ToU <160MWh	Default tariff for business premises whose consumption does not exceed 160 MWh per year.
BLNDTRS Transitional Demand	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
BLND3AO LV ToU Demand 3 Rate	Default tariff for business premises whose consumption exceeds 160MWh per year and connected to the LV Distribution System.

Network Price List and Explanatory Notes

Network Charge	Explanation
BLNS1AO LV ToU Avg daily Demand	<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"> 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. 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. 3. The average ToU Demand calculated above will be multiplied by the ToU Demand rates. 4. No adjustments to billable demand shall be made for pre-season "test runs".
BLND3TO LV ToU Demand Alternative Tariff	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.
BHND3AO HV ToU Mthly Demand	Default tariff for business premises whose consumption is connected to the HV Distribution System and metered at HV.
BHNS1AO HV ToU Avg daily Demand	<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"> 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. 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. 3. The average ToU Demand calculated above will be multiplied by the ToU Demand rates. 4. No adjustments to billable demand shall be made for pre-season "test runs".
BSSD3AO Subtransmission 3 Rate Demand	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.
BLNP1AO LV Unmetered NUOS	Refer to Unmetered Supply section 2 Definitions. All new unmetered supply connections will have this tariff applied.
BLNP3AO LV Public Street Lighting ToU NUOS	Refer to Unmetered Supply section 2 Definitions. All new public street lighting connections will have this tariff applied.
Customer specific prices or Inter Distributor Transfers	Refer Explanatory Notes 1.7 Customer Specific (cost reflective network prices)
BLNE21AU Anytime Export Gross metered	Residential premises with a gross metered export tariff and no rebate applicable
BLNE23AU Anytime Export Net metered	Residential premises with a net metered export tariff and no rebate applicable
BLNE20AU Anytime Export Gross metered	Business premises with a gross metered export tariff and no rebate applicable
BLNE22AU Anytime Export Net metered	Business premises with a net metered export tariff and no rebate applicable
BLNE0AU Ineligible Export	Where application to connect to grid has not yet been approved.
BLNE26AU QLD Government Solar Bonus	QLD Government Solar bonus scheme for eligible residential customers located in Qld but connected to Essential Energy's Distribution Network.
BLNE27AU QLD Government Solar Bonus	QLD Government Solar bonus scheme for eligible business customers located in Qld but connected to Essential Energy's Distribution Network.

Effective 1 July 2020

Network Price List

FOR PUBLIC RELEASE

Network Price List and Explanatory Notes

Essential Energy Network Price List (Excluding GST)											
Effective 1 July 2020											
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
Obsolete Tariffs – Not applicable to new connections											
BLNS1AO	LV TOU avg daily Demand	Yes	15.2305	3.9291	3.4216	2.3142		10.9626	9.9185	2.5350	
BHNS1AO	HV TOU avg daily Demand	Yes	18.0173	3.2295	2.8697	2.3449		9.3238	8.4358	2.5243	
BLNT1SU	LV ToU <160 MWh	No	6.6699	15.3495	12.7655	6.6204					
BLND1CO BLND1NO	LV ToU Demand 1 Rate	No	19.6374	6.0508	5.1967	2.8380	16.2991				
BLND1SR	LV 1 Rate Demand Sth Rural	No	15.2305	12.4858	10.5752	4.4036	10.8257				3.9356
BLND1SU	LV 1 Rate Demand Sth Urban	No	4.0979	14.0655	11.8945	5.7816	10.6179				3.9406
BHND1CO	HV 1 Rate Demand Cent Urban ToU	No	25.1982	6.5647	6.3789	2.9471	11.8819				
BHND1SO BHND1SO	HV 1 Rate Demand Sth Urban	No	18.7826	5.9666	5.8268	4.2319	8.5807				3.1601
Essential Energy Network Price List (Including GST)											
Effective 1 July 2020											
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
Obsolete Tariffs – Not applicable to new connections											
BLNS1AO	LV TOU avg daily Demand	Yes	16.7536	4.3220	3.7638	2.5456		12.0589	10.9104	2.7885	
BHNS1AO	HV TOU avg daily Demand	Yes	19.8190	3.5525	3.1567	2.5794		10.2562	9.2794	2.7767	
BLNT1SU	LV ToU <160 MWh	No	7.3369	16.8845	14.0421	7.2824					
BLND1CO BLND1NO	LV ToU Demand 1 Rate	No	21.6011	6.6559	5.7164	3.1218	17.9290				
BLND1SR	LV 1 Rate Demand Sth Rural	No	16.7536	13.7344	11.6327	4.8440	11.9083				4.3292
BLND1SU	LV 1 Rate Demand Sth Urban	No	4.5077	15.4721	13.0840	6.3598	11.6797				4.3347
BHND1CO	HV 1 Rate Demand Cent Urban ToU	No	27.7180	7.2212	7.0168	3.2418	13.0701				
BHND1SO BHND1SO	HV 1 Rate Demand Sth Urban	No	20.6609	6.5633	6.4095	4.6551	9.4388				3.4761

Network Price List and Explanatory Notes

Essential Energy Network Price List (Excluding GST)			
Effective 1 July 2020			
Obsolete Network Charge	Description	Energy All c/kWh	Application
Obsolete Export Tariffs – Not applicable to new connections			
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 IPART's 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. <i>This solar tariff has GST applied</i> , please refer to Section 1.1 for GST application for other solar tariffs.

Network Price List and Explanatory Notes

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 overnight 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

Effective 1 July 2020

Network Price List

FOR PUBLIC RELEASE

Network Price List and Explanatory Notes

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 set out in Attachment 16 of AER's Essential Energy distribution determination for the regulatory control period 2015-16 to 2018-19. Essential Energy's Schedule of charges for these services can be found on Essential Energy's website at: Document: Ancillary Network Services schedule of charges.

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
Import kWh (real energy generation by customer)	B
Export kWh (real energy 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.

Network Price List and Explanatory Notes

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 31st 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:

Low Voltage (LV)	nominally 230/400V
High Voltage (HV)	nominally 11, 22, 33 or 66kV
Subtransmission (ST)	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 week day.

Interval Meter time periods (from 1st 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.

Effective 1 July 2020

Network Price List

FOR PUBLIC RELEASE

Network Price List and Explanatory Notes

For Basic and Accumulation meters, and premises on Obsolete Tariffs (applied to all ToU charges prior to 1st 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 –

Effective 1 July 2020

Network Price List

FOR PUBLIC RELEASE

<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>

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;

<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 or our Customer Service Centre on 13 23 91.

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VERSIONS

Version 1 (V1)

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