

# Network Price List and Explanatory Notes



Essential Energy Network Price List (Excluding GST)															
Effective 1 July 2024															
Network Charge	Description	Time Period	Network Access \$/Day	Energy					Demand				Export		
				All c/kWh	Peak c/kWh	Shoulder c/kWh	Off Peak c/kWh	Sun Soaker c/kWh	Peak \$/kVA/M	Shoulder \$/kVA/M	Off Peak \$/kVA/M	Sun Soaker \$/kVA/M	Rebate c/kWh	Charge <=7.5kWh* c/kWh	Charge >7.5kWh* c/kWh
<b>Residential Tariffs</b>															
BLNRSS2	LV Residential - Sun Soaker	SS	1.2788		15.8671		5.4026								
BLND1AR	LV Residential Demand - Opt in	PSO-Int	1.2788		8.8434	5.9050	3.5188		4.7738						
<b>Controlled Load Tariffs</b>															
BLNC1AU	Controlled Load 1	5-9 hrs	0.1148	2.7130											
BLNC2AU	Controlled Load 2	10-19 hrs	0.1148	5.7748											
<b>Business Tariffs</b>													Rebate c/kWh	Charge <=1.5KW \$/kW	Charge >1.5KW \$/kW
BLNBSS1	LV Small Business - Sun Soaker	SS	2.0579		16.8466		7.5707								
BLND1AB	LV Small Business Demand - Opt in	PSO-Int	2.0579		12.3583	8.6714	5.1286		8.9210						
BLND4SB	LV Small Scale Storage	STO	2.0579		-	-	-	-	13.1042	5.3785	4.0457	-	-4.8793	-	1.1233
BLND3AO	LV Large Business Demand	PSO-Int	19.1811		5.4893	4.4186	2.8850		11.0681	10.0140	2.6240				
BLND3TO	LV Demand - Alternative tariff	PSO-Int	19.1811		16.7575	12.7654	5.6997		14.2365						
BLND4LS	LV Large Storage/Hybrid	STO	19.1811		-	-	-	-	13.2930	11.7498	3.7501	-	-4.8793	-	1.1233
BHND3AO	HV Business Demand	PSO-Int	23.5376		4.1417	3.3740	2.7789		10.5750	9.5679	2.8631				
BHND4LS	HV Storage/Hybrid	STO	23.5376		-	-	-	-	11.3553	10.1767	3.3657	-	-	-	0.9259
BSSD3AO	Subtransmission Demand	PSO-Int	23.3645		4.9823	2.9560	2.4601		4.0809	2.9093	1.1597				
<b>Export Tariffs</b>													Rebate c/kWh	Charge <=7.5kWh* c/kWh	Charge >7.5kWh* c/kWh
BLNREX2	LV Residential Solar Export	EXP											-	-	-
BLNBEX1	LV Small Business Solar Export	EXP											-	-	-
BLNE22AU	Business Anytime Export net metered	Any		-											
BLNE0AU	Ineligible Export	Any		-											
<b>Unmetered Tariffs</b>															
BLNP3AO	LV Public Street Lighting ToU NUOS	PSO-B	-		21.4608	16.2652	8.1693								
<b>Essential Energy Customer Specific</b>															
Customer specific	Subtransmission or Inter Distributor Transfers	PSO-Int	Various		Various	Various	Various		Various	Various	Various	Various			

\*The 7.5kWh daily free threshold is multiplied by the number of days in the billing period to calculate the level of free exports. For example, the free export threshold for a 30 day billing period is 30 days x 7.5kWh = 225kWh.

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## 2 OBSOLETE TARIFFS

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Network Charge	Description	Time Period	Network Access \$/Day	Energy				Demand		
				All c/kWh	Peak c/kWh	Shoulder c/kWh	Off Peak c/kWh	Peak \$/kVA/M	Shoulder \$/kVA/M	Off Peak \$/kVA/M
<b>Residential Tariffs – Obsolete (not available for New connects or Tariff changes)</b>										
BLNN2AU	LV Residential Anytime	Any	1.2788	12.6808						
BLNT3AU	LV Residential ToU	PSO-B	1.2788		17.7676	13.8149	5.4026			
BLNT3AL	LV Residential ToU - Interval meter	PSO-Int	1.2788		18.4298	13.3044	5.4026			
<b>Business Tariffs – Obsolete (not available for New connects or Tariff changes)</b>										
BLNN1AU	LV Small Business Anytime	Any	2.0579	17.4231						
BLNT2AU	LV Small Business	PSO-B	2.0579		18.8112	14.7236	7.8256			
BLNT2AL	LV Small Bus TOU - Interval meter	PSO-Int	2.0579		19.5029	14.1904	7.5707			
BLNT1AO	LV Small Business	PSO-Int	2.0579		18.8112	14.7236	7.8256			
BLNP1AO	LV Unmetered NUOS	Any	1.1128	18.8588						
BLNDTRS	Transitional Demand	PSO-Int	19.1811		5.4893	4.4186	2.8850	11.0681	10.0140	2.6240
BLNS1AO	LV TOU Avg Daily Demand	PSO-Int	22.7219		5.2285	4.2254	2.7606	15.6633	14.1716	3.6219
BHNS1AO	HV TOU Avg Daily Demand	PSO-Int	23.5376		4.1511	3.5064	2.8164	11.7579	10.6381	3.1833
<b>Export Tariffs – Obsolete (not available for New connects or Tariff changes)</b>										
BLNE21AU	Residential Anytime Export gross metered	Any			-					
BLNE23AU	Residential Anytime Export net metered	Any			-					
BLNE20AU	Business Anytime Export gross metered	Any			-					
BLNE26AU	QLD Government Solar Bonus	Any			-					
BLNE27AU	QLD Government Solar Bonus	Any			-					

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## 3 EXPLANATION OF NETWORK TARIFFS

Network Charge	Explanation
<b>Residential Tariffs</b>	
<b>BLNRSS2 LV Residential Sun Soaker</b>	Default tariff for all new connections, meter upgrades and new energy resource installations for residential premises that have an interval capable (smart) meter. Compulsory to have the Residential export tariff, BLNREX2, applied to the export meter if one exists. Optional tariff for existing residential premises wholly used as a private dwelling with an Interval capable (smart) meter.
<b>BLND1AR Residential Demand - Opt in</b>	Optional tariff for residential premises wholly used as a private dwelling with an Interval capable (smart) meter.
<b>Controlled Load Tariffs – Secondary Tariffs</b>	
<b>BLNC1AU Controlled Load 1</b>	Available 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 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>Business Tariffs</b>	
<b>BLNBSS1 LV Small Business Sun Soaker</b>	Default tariff for all new connections, meter upgrades and new energy resource installations for small business customers that have an interval capable (smart) meter and do not exceed 160MWh per year. Compulsory to have the LV Small Business Solar Export tariff, BLNREX1, applied to the export meter if one exists. Optional tariff for existing business premises whose consumption does not exceed 160 MWh per year with an Interval capable (smart) meter.
<b>BLND1AB LV Small Business Demand - Opt in</b>	Optional tariff for business premises whose consumption does not exceed 160 MWh per year with an Interval capable (smart) meter.
<b>BLND4SB LV Small Scale Storage</b>	New customers connected to the low-voltage distribution network whose sole purpose is to operate commercial storage with no co-located load or generating units behind their meter. Eligible storage is up to and including 250kW.
<b>BLND3AO LV Large Business Demand</b>	Default tariff for business premises whose consumption exceeds 160 MWh per year and which are connected to the LV Distribution System.
<b>BLND3TO LV Demand - Alternative Tariff</b>	Optional tariff for business premises whose consumption exceeds 160 MWh per year and which are 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>BLND4LS LV Large Storage/Hybrid</b>	New customers connected to the low-voltage distribution network who operate commercial scale storage and/or generation units with no co-located load behind their meter (excludes ancillary load). Eligible storage is >250kW.
<b>BHND3AO HV Business Demand</b>	Default tariff for business premises whose consumption is connected to the HV Distribution System and metered at HV.
<b>BHND4LS HV Storage/Hybrid</b>	New customers connected to the high-voltage distribution network who operate commercial scale storage and or generation units with no co-located load behind their meter (excludes ancillary load).
<b>BSSD3AO Subtransmission 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.

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Network Charge	Explanation
<b>Export Tariffs</b>	
<b>BLNREX2 LV Residential Solar Export</b>	Default tariff assigned with LV Residential Sun Soaker tariff (BLNRSS2) to the export component. Cents per kWh charge for exports during the 10am and 3pm peak period and cents per kWh rebate for any energy exported between 5pm and 8pm.
<b>BLNREX1 LV Small Business Solar Export</b>	Default tariff assigned with LV Small Business Sun Soaker tariff (BLNRSS1) to the export component. Cents per kWh charge for exports during the 10am and 3pm peak period and cents per kWh rebate for any energy exported between 5pm and 8pm.
<b>BLNE22AU Anytime Export Net metered</b>	Business premises with a net metered export tariff and no rebate applicable.
<b>BLNE0AU Ineligible Export</b>	Applies where application to connect to the grid has not yet been approved, temporary tariff.
<b>Unmetered Tariffs</b>	
<b>BLNP1AO LV Unmetered NUOS</b>	Obsolete Tariff. Refer to Unmetered Supply section 6 Definitions.
<b>BLNP3AO LV Public Street Lighting ToU NUOS</b>	Refer to Unmetered Supply section 6 Definitions. Applies to all new public street lighting connections.
<b>Customer Specific Tariffs</b>	
<b>Customer specific prices or Inter Distributor Transfers</b>	Refer Explanatory Notes 5.5 Customer Specific (cost reflective network prices)
<b>Network Charge</b>	
<b>Explanation</b>	
<b>Obsolete Tariffs – not available for New Connects or Tariff Changes</b>	
<b>Residential Tariffs - Obsolete</b>	
<b>BLNN2AU LV Residential Anytime</b>	Obsolete tariff for residential premises wholly used as a private dwelling. Refer to the definition in Section 6 Definitions of residential premise.
<b>BLNT3AU LV Residential ToU</b>	Obsolete tariff for residential premises wholly used as a private dwelling with a ToU capable meter.
<b>BLNT3AL LV Residential ToU - Interval meter</b>	Obsolete tariff for existing residential premises wholly used as a private dwelling with an Interval capable (smart) meter.
<b>Business Tariffs - Obsolete</b>	
<b>BLNN1AU LV Small Business Anytime</b>	Obsolete tariff for business premises whose consumption does not exceed 100 MWh per year.
<b>BLNT2AU LV Small Business</b>	Obsolete tariff for business premises whose consumption does not exceed 100 MWh per year with 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 Small Bus ToU - Interval meter</b>	Obsolete tariff for existing business premises whose consumption does not exceed 100 MWh per year with an Interval capable (smart) meter.
<b>BLNT1AO LV Small Business</b>	Obsolete tariff for business premises whose consumption does not exceed 160 MWh per year.
<b>BLNDTRS Transitional Demand</b>	Obsolete tariff. This tariff has now completed the 5 year transition to align rates with BLND3AO.
<b>BLNS1AO LV ToU Avg daily Demand</b>	<p>Obsolete tariff, not available for new connects.</p> <p>Previously 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.</p> <p>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> </ol>

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Network Charge	Explanation
	<p>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 weekdays, and Off Peak Demand by the total number of days.</p> <p>3. The average ToU Demand calculated above will be multiplied by the ToU Demand rates.</p> <p>4. No adjustments to billable demand shall be made for pre-season "test runs".</p>
<b>BHNS1AO HV ToU Avg daily Demand</b>	<p>Obsolete tariff, not available for new connects.</p> <p>Previously 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.</p> <p>Demand Charges will be calculated as follows:</p> <p>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.</p> <p>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 weekdays, Off Peak Demand by the total number of days.</p> <p>3. The average ToU Demand calculated above will be multiplied by the ToU Demand rates.</p> <p>4. No adjustments to billable demand shall be made for pre-season "test runs".</p>
<b>Export Tariffs - Obsolete</b>	
<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>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.
<b>BLNE2AU NSW Solar Bonus Scheme Net</b>	NSW Solar bonus scheme rebate for net metering, applicable to residential customers. Discontinued from 1 April 2011, Ceased 31 December 2016.
<b>BLNE4AU NSW Solar Bonus Scheme Gross</b>	NSW Solar bonus scheme rebate for gross metering, applicable to residential customers. Discontinued from 1 April 2011, Ceased 31 December 2016.
<b>BLNE1AU NSW Solar Bonus Scheme Net</b>	NSW Solar bonus scheme rebate for net metering, applicable to business customers. Discontinued from 1 April 2011, Ceased 31 December 2016.
<b>BLNE3AU NSW Solar Bonus Scheme Gross</b>	NSW Solar bonus scheme rebate for gross metering, applicable to business customers. Discontinued from 1 April 2011, Ceased 31 December 2016.
<b>BLNE11AU NSW Solar Bonus Scheme Net</b>	NSW Solar bonus scheme rebate for net metering, applicable to business customers. Discontinued from 1 April 2011, Ceased 31 December 2016.
<b>BLNE13AU NSW Solar Bonus Scheme Gross</b>	NSW Solar bonus scheme rebate for gross metering, applicable to business customers. Discontinued from 1 April 2011, Ceased 31 December 2016.
<b>BLNE12AU NSW Solar Bonus Scheme Net</b>	NSW Solar bonus scheme rebate for net metering, applicable to residential customers. Discontinued from 29 April 2011, Ceased 31 December 2016.
<b>BLNE14AU NSW Solar Bonus Scheme Gross</b>	NSW Solar bonus scheme rebate for gross metering, applicable to residential customers. Discontinued from 29 April 2011, Ceased 31 December 2016.
<b>BLNE24AU QLD Government Solar Bonus Scheme</b>	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.
<b>BLNE25AU QLD Government Solar Bonus Scheme</b>	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. This solar tariff has GST applied.

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## 4 EXPLANATION OF NETWORK TIME PERIODS

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

**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 Time of Use (ToU) Type 5 (Basic) meters.

Time period	Description	Day type	Time of day						
			12pm	7am	10am	3pm	5pm	8pm	10pm
<b>SS</b>	Sun Soaker – Interval meter	Everyday	Off-peak	Peak	Off-peak	Peak			Off-peak
<b>PSO-Int</b>	Peak, shoulder & off-peak – Interval meter	Weekday	Off-peak	Shoulder			Peak	Shoulder	Off-peak
		Weekend	Off-peak						
<b>PSO-B</b>	Peak, shoulder & off-peak – Basic meter	Weekday	Off-peak	Peak	Shoulder		Peak	Shoulder	Off-peak
		Weekend	Off-peak						
<b>EXP</b>	Export - Interval meter	Everyday			Export Charge		Export Rebate		
<b>ANY</b>	Anytime	Everyday						12am	
<b>STO</b>	Storage – Interval meter Consumption (E Channel)	Everyday	Off-peak	Shoulder	Sun Soaker	Shoulder	Peak	Shoulder	Off-peak
	Storage – Interval meter Generation (B Channel)	Everyday			Export Charge		Export Rebate		

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## Explanatory Notes

### 5 APPLICABILITY OF NETWORK CHARGES

Network Use of System (**NUOS**) 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.

Essential Energy is also required to recover the NSW Electricity Infrastructure Roadmap costs in 2024/25 network tariffs. The NSW Road map component of the NUOS rates can be found on the Australian Energy Regulator's (AER's) website ([Link](#)). Information on the NSW Roadmap can be found at the below links:

[Electricity Infrastructure Roadmap | NSW Climate and Energy Action](#)

[What the Roadmap means for you | NSW Climate and Energy Action](#)

From 1 July 2024 legacy metering costs are reclassified as standard control services, our core activities for enabling customers to access our network and for supplying them with electricity, and are now recovered in NUOS rates.

#### 5.1 GOODS AND SERVICES TAX

The **NUOS** prices and other fees and charges are **exclusive** of 10% Goods and Services Tax. GST of 10% is added to all NUOS prices and other fees and charges.

#### 5.2 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. Change of tariff will require retailers 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 ([Link](#)).

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 associated with their assigned network tariff. Please refer to Essential Energy's Tariff Assignment and Reassignment Policy on the website ([Link](#)).

Refer to Essential Energy's Tariff Structure Statement ([Link](#)) for rules concerning assigning customers to tariff classes.

#### 5.3 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.

#### 5.4 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.

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,

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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 weekends.

Essential Energy reserves the right to vary these times to suit network conditions without affecting the customer's usage of the appliances. For example, this may result in controlled load being moved to middle of the day to support the network due to increased solar installations.

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.

Any dual element hot water systems installed after 2006 must have the top element supplied on the primary tariff. The bottom element can be supplied from the controlled load tariff.

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## 5.5 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 distribution network service provider (DNSP) to disclose transmission and distribution charges. Please contact Essential Energy for site specific rates.

## 5.6 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.

## 5.7 ANCILLARY NETWORK SERVICES

Ancillary Network Services are as per AER's Essential Energy distribution determination for the regulatory control period 2024-29. 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>

## 5.8 EMBEDDED GENERATORS

Any Embedded Generator that has a standalone 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. 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. The B channel stream will have a placeholder code of GENR to meet MSATs requirements, please note this is not a tariff, it is to identify there is generation. Please refer to contract terms and conditions as well.

## 5.9 EXPORT REBATE AND CHARGES

Essential Energy is proposing a staged approach to the transition to export pricing, with no charge on the Sun Soaker export tariffs for 2024-25 and customers having the ability to opt-out of the Sun Soaker tariff and use the demand-based tariff until 1 July 2028. From 1 July 2028 the export charge will be added to demand-based tariffs.

## 6 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.

**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 the Australian Energy Market Operator's (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:



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

The National Electricity Market (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. Where generation exists, the above formula will be calculated when the B Channel = 0 and the E Channel >0.

**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) or an existing site has had an upgrade of meter or new energy resource installed it cannot use an obsolete tariff.
- 2 If a large business 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 5.2 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 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.

**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** are the Demand charges (\$/kVA/month) applied to the calendar monthly kVA

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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 kVAh 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 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

Essential Energy may change the information in this document without notice. All changes take effect on the date made by Essential Energy.

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## VERSIONS

Version 1 (V1) - 3 June 2024

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# Network Price List and Explanatory Notes

ATTACHMENT 1

NETWORK PRICELIST INCLUDING GST

Essential Energy Network Price List (Including GST)															
Effective 1 July 2024															
Network Charge	Description	Time Period	Network Access \$/Day	Energy					Demand				Export		
				All c/kWh	Peak c/kWh	Shoulder c/kWh	Off Peak c/kWh	Sun Soaker c/kWh	Peak \$/kVA/M	Shoulder \$/kVA/M	Off Peak \$/kVA/M	Sun Soaker \$/kVA/M	Rebate c/kWh	Charge <=7.5kWh * c/kWh	Charge >7.5kWh* c/kWh
<b>Residential Tariffs</b>															
BLNRSS2	LV Residential Sun Soaker	SS	1.4067		17.4538		5.9429								
BLND1AR	LV Residential Demand - Opt in	PSO-Int	1.4067		9.7277	6.4955	3.8707		5.2512						
<b>Controlled Load Tariffs</b>															
BLNC1AU	Controlled Load 1	5-9 hrs	0.1263	2.9843											
BLNC2AU	Controlled Load 2	10-19 hrs	0.1263	6.3523											
<b>Business Tariffs</b>													Rebate c/kWh	Charge <=1.5KW \$/kW	Charge >1.5KW \$/kW
BLNBSS1	LV Small Business Sun Soaker	SS	2.2637		18.5313		8.3278								
BLND1AB	LV Small Business Demand - Opt in	PSO-Int	2.2637		13.5941	9.5385	5.6415		9.8131						
BLND4SB	LV Small Scale Storage	STO	2.2637		-	-	-	-	14.4146	5.9164	4.4503	-	-5.3672	-	1.2356
BLND3AO	LV Large Business Demand	PSO-Int	21.0992		6.0382	4.8605	3.1735		12.1749	11.0154	2.8864				
BLND3TO	LV Demand - Alternative tariff	PSO-Int	21.0992		18.4333	14.0419	6.2697		15.6602						
BLND4LS	LV Large Storage/Hybrid	STO	21.0992		-	-	-	-	14.6223	12.9248	4.1251	-	-5.3672	-	1.2356
BHND3AO	HV Business Demand	PSO-Int	25.8914		4.5559	3.7114	3.0568		11.6325	10.5247	3.1494				
BHND4LS	HV Storage/Hybrid	STO	25.8914		-	-	-	-	12.4908	11.1944	3.7023	-	-	-	1.0185
BSSD3AO	Subtransmission Demand	PSO-Int	25.7010		5.4805	3.2516	2.7061		4.4890	3.2002	1.2757				
<b>Unmetered Tariffs</b>															
BLNP1AO	LV Unmetered NUOS	Any	1.2241	20.7447											
BLNP3AO	LV Public Street Lighting ToU NUOS	PSO-B	-		23.6069	17.8917	8.9862								
<b>Essential Energy Customer Specific</b>															
Customer specific	Subtransmission or Inter Distributor Transfers	PSO-Int	Various		Various	Various	Various		Various	Various	Various	Various			