



9 May 2024

Infrastructure Solutions NZ Limited (ISNZ) – Network Pricing and Loss Factors

Valid from: 1 July 2024

Valid To: 31 March 2025

Infrastructure Solutions NZ Limited operates Embedded Networks under its participant code of ISNZ.

ISNZ's network pricing mirrored the parent network companies network charges as at 1 April 2022, and we continue to endeavour to match the parent network companies charges where possible. The Auckland area parent network company (Vector) increased its charges for commercial connections at a greater rate than for residential connections in the past two years (April 23 and April 24). We have had to pass-on these increased charges, this has resulted in some variances between our charges and the parent network companies charges.

All amounts are GST exclusive and there are no discounts.

Discontinued pricing categories

We are discontinuing Pricing Categories and Pricing for Residential and General Time of Use effective 1 July 2024.

ICP's with any of these Pricing Categories will be changed to Non-TOU categories and Pricing from 1 July 2024. We will update the Pricing Category Codes in the Registry on 1 July 2024.

These changes are highlighted in the table below.



Discontinued Pricing Categories from 1 July 2024

Current Pricing Category	Migrating to
ISAKHRL	ISAKRL
ISAKHRS	ISAKRS
ISAKHBS	ISAKBS
ISAKCVN	There were no ICPs with any of these pricing category codes
ISAKCVN	
ISAKCVN	
ISAKCVN	
ISAKCVN	
ISAKCUN	
ISAKCUN	
ISAKCUN	
ISAKCUN	
ISAKCUN	
ISAKCUN	

Our NSPs, Pricing and Loss Factors effective 1 July 2024 are set out below.

NETWORKS – AUCKLAND AREA – PARENT NETWORK = VECTOR (VECT/UNET)

RESIDENTIAL AND GENERAL PRICING FROM 1 JULY 2024						
Price Category Code	Parent Network Equivalent	Price Category Description	Tariff Code	Tariff Description	Rate	Units
Residential NON-TOU						
ISAKRL	ARNLU/WRNLU	Residential Low User	ISAKRL-FIXD	Daily	0.6000	\$/day
ISAKRL	ARNLU/WRNLU	Residential Low User	ISAKRL-24UN	Uncontrolled	0.0965	\$/kWh
ISAKRS	ARNSU/WRNSU	Residential Standard User	ISAKRS-FIXD	Daily	1.4300	\$/day
ISAKRS	ARNSU/WRNSU	Residential Standard User	ISAKRS-24UN	Uncontrolled	0.0587	\$/kWh
Residential TOU						
ISAKHRL		Residential Low User	ISAKHRL-FIXD	Daily	Discontinued	1/07/2024
ISAKHRL		Residential Low User	ISAKHRL-PEAK	Peak	Discontinued	1/07/2024
ISAKHRL		Residential Low User	ISAKHRL-OFPK	Off Peak	Discontinued	1/07/2024
ISAKHRS		Residential Standard User	ISAKHRS-FIXD	Daily	Discontinued	1/07/2024
ISAKHRS		Residential Standard User	ISAKHRS-PEAK	Peak	Discontinued	1/07/2024
ISAKHRS		Residential Standard User	ISAKHRS-OFPK	Off Peak	Discontinued	1/07/2024
General NON-TOU						
ISAKBS	ABSN/WBSN	General	ISAKBS-FIXD	Daily	1.7400	\$/day
ISAKBS	ABSN/WBSN	General	ISAKBS-24UN	Uncontrolled	0.0587	\$/kWh
General TOU						
ISAKHBS		General	ISAKHBS-FIXD	Daily	Discontinued	1/07/2024
ISAKHBS		General	ISAKHBS-PEAK	Peak	Discontinued	1/07/2024
ISAKHBS		General	ISAKHBS-OFPK	Off Peak	Discontinued	1/07/2024



COMMERCIAL PRICING FROM 1 JULY 2024						
Price Category Code	Parent Network Equivalent	Price Category Description	Tariff Code	Tariff Description	Rate	Units
COMMERCIAL NON-TOU						
ISAKCVN		Commercial	ISAKCVN-FIXD	Daily	Discontinued	1/07/2024
ISAKCVN		Commercial	ISAKCVN-24UN	Uncontrolled	Discontinued	1/07/2024
ISAKCVN		Commercial	ISAKCVN-CAPY	Capacity	Discontinued	1/07/2024
ISAKCVN		Commercial	ISAKCVN-DAMD	Demand	Discontinued	1/07/2024
ISAKCVN		Commercial	ISAKCVN-PFAC	Power Factor	Discontinued	1/07/2024
ISAKCUN		Commercial	ISAKCUN-FIXD	Daily	Discontinued	1/07/2024
ISAKCUN		Commercial	ISAKCUN-24UN	Uncontrolled	Discontinued	1/07/2024
ISAKCUN		Commercial	ISAKCUN-CAPY	Capacity	Discontinued	1/07/2024
ISAKCUN		Commercial	ISAKCUN-DAMD	Demand	Discontinued	1/07/2024
ISAKCUN		Commercial	ISAKCUN-PFAC	Power Factor	Discontinued	1/07/2024
COMMERCIAL TOU						
ISAKCVH	ALVT(S)	Commercial	ISAKCVH-FIXD	Daily	3.9300	\$/day
ISAKCVH	ALVT(S)	Commercial	ISAKCVH-24UN	Uncontrolled	0.0488	\$/kWh
ISAKCVH	ALVT(S)	Commercial	ISAKCVH-CAPY	Capacity	0.0568	\$/kVA/day
ISAKCVH	ALVT(S)	Commercial	ISAKCVH-DAMD	Demand	0.1321	\$/kVA/day
ISAKCVH	ALVT(S)	Commercial	ISAKCVH-PFAC	Power Factor	0.2917	\$/kVA/day
ISAKCUH	WLVH(S)	Commercial	ISAKCUH-FIXD	Daily	11.1500	\$/day
ISAKCUH	WLVH(S)	Commercial	ISAKCUH-24UN	Uncontrolled	0.0457	\$/kWh
ISAKCUH	WLVH(S)	Commercial	ISAKCUH-CAPY	Capacity	0.0568	\$/kVA/day
ISAKCUH	WLVH(S)	Commercial	ISAKCUH-DAMD	Demand	0.1321	\$/kVA/day
ISAKCUH	WLVH(S)	Commercial	ISAKCUH-PFAC	Power Factor	0.2917	\$/kVA/day



Residential and General Price Category Code Explanation

ISAK	= Infrastructure Solutions NZ Ltd - Auckland
RL	= Residential Low User
RS	= Residential Standard User
HRL	= Half-Hour Residential Low User
HRS	= Half-Hour Residential Standard User
BS	= General connection (non-Residential and no greater than 69 kVA)
HBS	= Half-Hour General connection (non-Residential and no greater than 69 kVA)

Commercial Price Category Code Explanation

ISAK	= Infrastructure Solutions NZ Ltd - Auckland
CVN	= Commercial Connection (greater than 69 kVA) Vector Network, Non-Half Hour
CUN	= Commercial Connection (greater than 69 kVA) UNET Network, Non-Half Hour
CVH	= Commercial Connection (greater than 69 kVA) Vector Network, Half-Hour
CUH	= Commercial Connection (greater than 69 kVA) UNET Network, Half-Hour

Tariff Code Explanation

FIXD - Daily	= Applies to the number of days each ICP is Active.
24UN - Uncontrolled	= Applies to electricity used
PEAK	= Applies to electricity used during peak periods
OFFPK	= Applies to electricity used during off peak periods
CAPY - Capacity	= Applies to the nominated capacity of the consumers connection to our network as displayed in the Electricity Registry under "Chargeable Capacity".
DAMD - Demand	= Applies to the average of the consumers ten highest kVA demands (twice the kVAh half hourly reading) between 08:00 and 20:00 (time periods 17-40) on weekdays, including public holidays, in any one month.

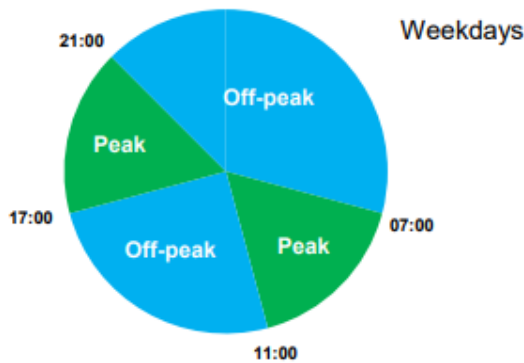


Peak and Off-peak Periods for Residential and General time of use (TOU) Price Categories

Period Type	Days	Times	Period Numbers
Peak	Monday to Friday (including public holidays)	07:00 - 11:00	15 - 22
		17:00 - 21:00	35 - 42
Off Peak	Monday to Friday (including public holidays)	11:00 - 17:00	23 - 34
		21:00 - 07:00	43 - 14
	Saturday and Sunday	All times	All periods

The following chart shows the times on weekdays to which the peak and off-peak volume prices apply for the half hour Price Categories.

The following chart shows the times on weekdays to which the peak and off-peak volume prices apply for the half hour Price Categories.



Missing interval data and persistent metering issues

In instances of missing interval data, Retailers are to use good industry practice to estimate missing data and the standard wash-up process to adjust estimated to actual data as appropriate. ISNZ expects all Retailers to reconcile with ISNZ using aggregated half hourly data unless there are persistent metering issues. In instances of persistent metering issues for residential and general Customers, Retailers are to use good industry practice in identifying affected ICPs and request an exemption for persistent metering data exceptions including non-interval capable or non-communicating meters by emailing us at support@isnzl.co.nz.

Unmetered Consumption

Consumption for non-streetlight unmetered consumers is determined by ISNZ based on load profile and fitting input wattages.

Consumption for streetlight unmetered consumers is determined by multiplying the input wattage of each fitting in a database administered by ISNZ, with the load factor, the number of days in each month and the night hours per day stated in the adjacent table.

A minimum load factor of 1.1 is applied to the input wattage for non-streetlight appliances and 1.0 for streetlight appliances.

Month	Night hours per day
January	9.61
February	10.57
March	11.61
April	12.87
May	13.81
June	14.33
July	14.13
August	13.29
September	12.17
October	11.00
November	9.93
December	9.32

Provision of billing information

Retailer must provide ISNZ with consumption data for each ICP and for each price as described in this schedule. Where more than one meter at a Point of Connection is in use, but a single volume price applies, consumption data must be aggregated by the Retailer before submitting to ISNZ.

For residential and general consumers, where a half hourly meter is fitted, consumption data must be aggregated by the Retailer to match the appropriate prices and time periods before submitting the data to ISNZ.

For commercial Customers, where a half hourly meter is fitted and the consumer's Price Category requires half hourly data, the consumer's Retailer must submit half hourly consumption information. Half hourly data provided by the Retailer must contain at least two of the following channels: kWh, kVAh and kVAh.

The following table shows the EIEP file type required to be submitted to ISNZ for each Price Category. Customer type Price Category type Price Category EIEP.

Consumer type	Price Category Type	Price Category	EIEP file type
Residential	Time of Use (TOU)	ISAKHRL, ISAKHRS	EIEP1
	Non TOU	ISAKRL, ISAKRS	EIEP1
General	Unmetered	ISAKBS, ISAKHBS	EIEP1
	Time of Use (TOU)	ISAKHBS	EIEP1
	Non TOU	ISAKBS	EIEP1
Commercial	Time of Use (TOU)	ISAKCVH, ISAKCUH	EIEP3
	Non TOU	ISAKCVN, ISAKCUN	EIEP1



LOSS FACTORS

NSP	Loss Code	ISNZ Loss Factor	Parent Network	Parent Gate Network Loss Code	Parent Gate Network Loss Factor	Total Loss Factor Presuming equivalent to VECA1, VECW1	Generation Loss Factor
BMR0011	BMRL1	1.0134	UNET	VECW3	1.0428	1.0568	1.0000
CAT0011	CHVL1	1.0000	UNET	VECW1	1.0568	1.0568	1.0000
CHV0011	CHVL1	1.0000	UNET	VECW1	1.0568	1.0568	1.0000
KAU0011	BMRL1	1.0134	UNET	VECW3	1.0428	1.0568	1.0000
SEL0011	BMRL1	1.0134	UNET	VECW3	1.0428	1.0568	1.0000
OCH0011	CHVL1	1.0000	UNET	VECW1	1.0568	1.0568	1.0000
DUD0011	DUDL1	1.0000	UNET	VECA1	1.0511	1.0511	1.0000
WOD0011	CHVL1	1.0000	UNET	VECW1	1.0568	1.0568	1.0000
WAT0011	CHVL1	1.0000	UNET	VECW1	1.0568	1.0568	1.0000
BEA0011	CHVL1	1.0000	UNET	VECW1	1.0568	1.0568	1.0000
BEH0011	CHVL1	1.0000	UNET	VECW1	1.0568	1.0568	1.0000