

For Line Charges, effective 1 April 2021 to 2022 (Pursuant to Electricity Information Disclosure Requirements)

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TOP ENERGY LIMITED PRICING METHODOLOGY DISCLOSURE 2021-2022

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1. Introduction

Top Energy Limited (Top Energy) is the electricity distribution network in the Mid and Far North of the Northland region. The network distributes some 326,000,000 kWh of electricity to 33,000 electricity consumers, who also own the company through the Top Energy Consumer Trust (TECT).

This pricing methodology document describes our key considerations and approach to setting distribution prices effective 1 April 2021. It also sets out our plans and pricing strategy.

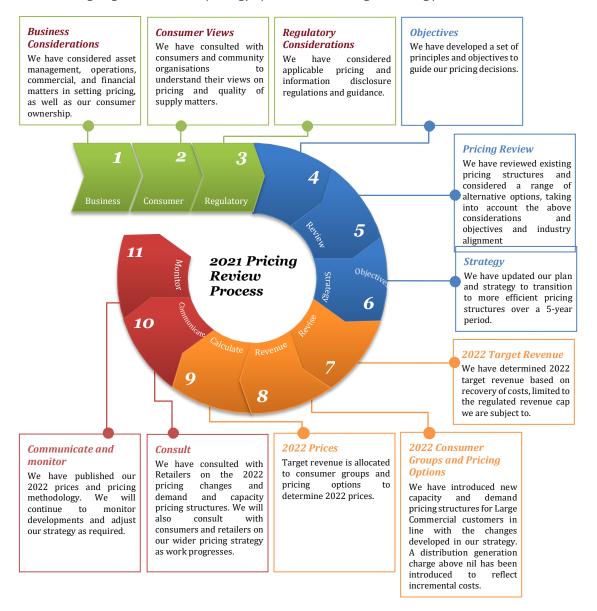
The pricing methodology is structured as follows:

- Section 2 summarises our approach and key decisions for setting prices in 2021-22
- Section 3 summarises key considerations we have taken account of in making decisions on pricing
- Section 4 details our principles and objectives, recent review, and plans and strategy for pricing
- Section 5 to 7 provides further detail on how prices are set, including:
 - how target revenue is determined
 - key decisions on consumer groups and available pricing options
 - how target revenue is allocated to each consumer and price option
- Appendix 1 provides director certification of this pricing methodology
- Appendix 2 provides a glossary of common terms used in this document
- Appendix 3 maps compliance against section 2.4 of the ID Determination
- Appendix 4 describes how this pricing methodology is consistent with the Electricity Authority's pricing principles published in June 2019
- Appendix 5 details distribution prices that will apply from 1 April 2021

2. Summary of how prices are set

2.1. Process for setting prices

The following diagram illustrates Top Energy's process for reviewing and setting prices in 2021-22.



2.2. How prices are calculated

Prices have been set to recover our 2021-22 target revenue. Target revenue is calculated to recover our forecast costs and is limited by a revenue cap determined by the Commerce Commission. This revenue covers the cost of our local electricity distribution network, pass through costs (including levies and rates) and costs associated with national transmission grid. Unit prices (comprising a daily fixed charge and/or a consumption-based variable charges and /or capacity charges) are calculated for each pricing option we offer by allocating target revenue:

- directly to a consumer, where costs are known for specific consumer groups
- using cost allocators for shared costs, which are based on consumer numbers or usage characteristics.

Figure 1 illustrates how target revenue is allocated to consumer groups and prices.

Figure 1: Calculation of prices



Notes: UM: Unmetered, IND: Industrial, DG: Distributed Generation

Top Energy's prices are used to charge electricity retailers in the Far North except two direct connect customers. Electricity retailers determine how to package these charges together with energy, metering and other costs when setting retailer prices that are charged

2.3. Key changes to prices in 2021-22

We have continued the focus on our pricing methodology. The key highlights to date are:

• Separation of Residential and General Commercial customers and extension of Commercial TOU pricing (2016).

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- Alignment with the industry with reference to the ENA's Distribution Pricing Guides (August 2015 and revised September 2016) and the new EA pricing principles (June 2019) and practical notes (August 2019) to improve the efficiency and effectiveness of our pricing.
- Implementation of Residential and General Commercial TOU prices from 1 April 2020. This was assisted by acquiring a subset of TOU smart meter data for mass market customers.

This year we are introducing one significant change to our price structure. To continue the move to cost-reflective distribution pricing, we are introducing capacity and demand structures for our large Commercial customers. These structures will better reflect the connection cost of various consumers and their demand on the network. Initially, the demand pricing will be set at \$0/kVA/day to signal this will be introduced when congestion pricing is required. In addition, there is also a focus on embedding the time of use (TOU) pricing that we introduced for Residential and General Commercial connections from 1 April 2020. A default single pricing will still be offered for connections without smart meters or access to smart meter data.

From 1 April 2021 the variable charge for export to the grid from distribution generation will be increased to 0.5 c/kWh from nil. This is to cover the incremental costs of understating the impact of solar export on our LV network which has been steadily increasing as solar growth continues across the network. The discount paid by Top Energy will continue to be a posted discount and included in the price schedule however the time period for the kWh calculation has been changed to cover the entire pricing year to ensure compliance under the DPP determination amendment of 30 March 2020.

Distribution prices have decreased by 0.7% on average including the posted discount to recover net allowable revenues permitted under the revenue cap regulation. These decreases will be applied across all consumer groups except Industrial and Large Generation. Industrial (IND) consumers will continue to be assessed based on specific assets used while Large Generation recoveries increase due to dedicated assets for a new geothermal plant commissioned in December 2020. Overall prices have increased by 0.1% after accounting for all pass through and recoverable costs and including the discount. Appendix 5 provides further detail on prices.

Top Energy's pricing strategy remains dependent on the implementation of recommendations from the Electricity Pricing Review which was published in October 2019. In particular, the review supported that the Government issue a policy statement on distribution pricing and consideration for removal of the Low Fixed Charge Tariff (LFCT). The removal of the LFCT is critical in the ability to introduce more capacity-based pricing signals. If a government policy statement is issued or other relevant changes are implemented, Top Energy will review its pricing strategy and consult consumers and stakeholders accordingly.

3. Pricing considerations

3.1. Business considerations

3.1.1 Background - Our Network

Top Energy is the local electricity distribution network in the Mid and Far North of the Northland region. Top Energy's network begins in Hukerenui, approximately 25km north of Whangarei and ends at Te Paki, 20 km south of Cape Reinga. It spans from the East Coast to the West Coast. The supply area is sparsely populated with no dominant urban centre and is recognised as one of the more economically depressed areas of the country.

The company is an integral part of the Far North community. It is owned by its customers through TECT. Consumer trust ownership means that surpluses not required for the operation and development of the network are returned to consumers via sales discounts on electricity bills and through a dividend to TECT. Top Energy also employs more than 155 people and is one of the largest employers in the Far North.

Figure 2: Map of Top Energy's Network



The network receives supply from the national grid at the Kaikohe substation and from local generation at Ngawha. The Kaikohe substation supplies the southern part of the network directly, with the northern part of the network supplied from a single transmission circuit to Kaitaia. Electricity is then distributed to consumers across long distribution feeders supplied from a limited number of zone substations. To improve quality of supply and maintain supply for planned outages for Kaitaia over 10MW of Diesel generators have been installed just outside the township.

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This configuration is a legacy of a network design focused on providing electricity to a sparsely populated, economically deprived area, at a time when cost rather than reliability was the main driver for network development. Over 35% of Top Energy's lines were originally built using subsidies provided by the Rural Electrical Reticulation Council (RERC). This levy assisted post-war farming development in remote areas and enabled the supply of electricity to consumers located in sparsely populated rural areas, which would otherwise have been uneconomic to service.

The original network infrastructure was also developed at a time when Kaikohe and Kaitaia were the dominant urban centres. This is no longer the case, with growth now occurring in the Bay of Islands and Kerikeri as well as the East Coast peninsulas. This is where the existing infrastructure is weakest.

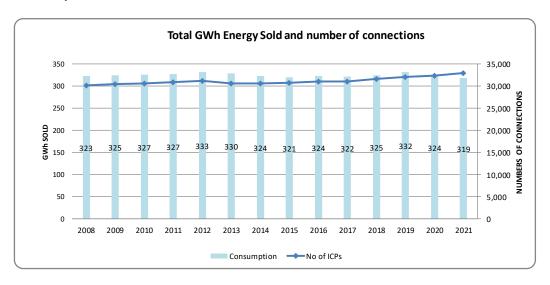
Many existing lines now require extensive rebuilding and refurbishment. Many assets are located in sparsely populated rural areas which remain uneconomic in some circumstances. However, Top Energy is required by legislation to maintain a power supply to consumers that were connected to these lines prior to 1993.

Within this environment, Top Energy has had to invest to meet both growth in new areas, while maintaining an appropriate level of service in existing high-cost network areas. The costs of these investments need to be reflected in prices going forward.

3.1.2 Network consumption and peak demand

The utilisation of the network is heavily weighted towards small consumers, representing 99% of connections and over 78% of maximum demand. This is evidenced by the fact that average consumption is the one of the lowest in the country at 9,800 kWh/consumer. Top Energy's pricing structures are therefore strongly focussed on the needs of the Residential and general consumer groups, with only a few large connections. Total energy sold on the network is shown below and has been relatively stable over the last decade despite a steady increase in connections.





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The key drive for future investment on the network is maximum demand. Maximum demand on the network was approximately 75MW up from 71MW in 2019 (6% higher) due to growth in connections and one specific cold day in July 2020. Further growth is forecast due to increased general connections and the possibility of additional industrial load from the potential Ngawha Industrial Park.

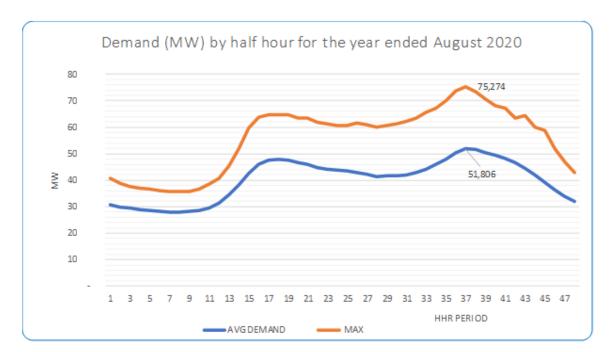


Figure 4: Demand on Top Energy network by time of day

Although no major capacity constraints exist on the sub-transmission 33kV network, when all network elements are in services, our Asset Management Plan has signalled that additional load growth would result in the load at risk continuing to increase and therefore more difficult to mitigate.

The most pressing capacity constraints on the Top Energy network are on the lower voltage network (11kV and less) which is typically at street and suburb level. These constraints are predominately in rural areas but also include some urban areas. Future growth in demand on these lines will require additional investment. This can be managed through increasing the capacity, optimisation of existing asset or smoothing demand through price signals.

3.1.3 Technology

Emerging new technologies are beginning to impact upon the traditional electricity industry, changing customers use of the network and in some cases providing alternatives to grid connection. Emerging technologies include:

- Distributed generation e.g. Photovoltaic generation
- Battery storage and management systems
- Household Management Systems and
- Electric Vehicles

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The overall combined impact of these technologies is uncertain; however, the impact of technology will have a direct effect on our pricing structures, and we need to ensure that network utilisation can be maximised as signalled in the 5-year pricing strategy. Network implications and opportunities are currently under investigation.

The network has the second highest penetration of solar in the country at 3.6% of connections (1,172 customers with installed capacity of 6.0MW). This is 25% higher than a year ago with growth expected to continue to increase.

The key immediate issue with solar is localised clustering e.g. at street level especially in the Eastern part of the networks. A high penetration of solar within a street or suburb results in voltage issues and potential capacity constraints. To date this has been managed with the existing infrastructure but the future impact on the network requires investigation and management. It is anticipated that the increasing prevalence of exporting distributed generation will drive long term incremental costs on the network through demand for additional capacity, initially in the low voltage network.

From 1 April 2021 Top Energy will increase the current distribution generation export charge to 0.5c/kWh from nil. The revenue recovered seeks to recover some of the incremental costs of investigating issues, developing solutions and other administration costs. These costs only relate to additional costs due to distribution generation rather than additional network infrastructure costs. The introduction of a distribution generation export charge will not impact Top Energy's total revenue, due to the revenue cap, but will result in a fairer allocation of costs across consumers.

Larger scale Distributed Generation, for the purpose of export, is expected to cause capacity constraints at all levels in the future and this includes the national transmission grid. Based on current applications exported demand in Summer could exceed the capacity on the transmission line south of Top Energy's network if built. These connections are considered and priced on a case by case basis.

Electric Vehicles have the potential to change consumption patterns and are also a consideration for network management however penetration is still minimal.

3.2. Consumer views

To inform our decisions regarding the above investments, in 2009 Top Energy consulted with consumers on our proposed network developments and consumer expectations for prices and the quality of service they receive. This was completed via a telephone survey.

The survey results established that 80% of consumers wished to see network reliability improve. There was overwhelming support from community organisations for the construction of a second 110 kV circuit to secure the electricity supply to the Kaitaia region. Accordingly, we embarked on a programme to improve security of supply in which \$180 million would be spent over 10 years; the single largest expansion in the history of the network.

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Since 2009, regular telephone surveys and focus groups have been completed to gauge customer views on our progress and incorporate any new insights into asset management planning and pricing approaches.

Over the last three years, Top Energy has completed comprehensive annual telephone satisfaction surveys to understand Residential and Commercial customer satisfaction and experience with the services provided. In addition, we have introduced monthly customers surveys which measure customer satisfaction with our faults and new connections divisions.

The key results were:

- Customer satisfaction with faults and new connections divisions has averaged 85% over the last 12 months
- Customers are reasonably open to adopting new energy technologies with adoption of solar recording the
 largest increase compared to 2019. Over 60% of customers are using LED lighting and nearly 30% of customers
 using gas hot water or heating. Solar panels and LED lighting are the new technologies most likely to be
 adopted over next 12 months
- 14% of customers said that they changed power companies in the last 12 months. Close to half of customers said that a saving of \$50 or less per month will motivate them to change power companies

The survey also measures the current levels of satisfaction with levels of price and quality. Feedback from the last three surveys indicates that both Residential and Commercial consumers are generally satisfied with the current levels of service, with the majority not willing to pay higher prices for increased reliability. This was demonstrated most recently in the 2020 customer survey, with the results shown below.

Figure 5: Price quality trade-off



Source: Key Research customer survey 2020

Surveys will continue to be completed to provide a benchmark of customer satisfaction and preferences over time.

To compliment the telephone surveys, Top Energy has also run focus groups to provide in-depth discussion with customers on their views about the electricity sector and different pricing structures to recover distribution costs. In addition, trials of new products e.g. Residential TOU have been completed. The Residential TOU trial in 2019 enabled

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us to get an insight into a small subset of customers behaviour on cost reflective pricing. The key findings have been that TOU prices does attract and reward customers with suitable consumptions profiles.

The annual surveys and focus groups continue to assist us in our review of our current pricing and future developments.

3.3. Regulatory considerations

Top Energy is subject to regulations which influence our pricing decisions as well provide guidance on how prices should be set. These are summarised in Figure 6.

The Commerce Commission determines the lines charge revenue which it considers is sufficient to recovery our reasonable costs, as well as an appropriate return on investment. In the new Default Price-Quality Paths Determination 2020, the methodology has changed to setting an allowable revenue rather than allowable prices. We must also publish a range of information on our prices and pricing methods. This pricing methodology is prepared pursuant to these requirements (see Appendix 3).

The Electricity Authority's (EA) pricing principles and information disclosure guidelines also provide useful guidance on setting economically efficient prices. The EA published new pricing principles (June 2019) and Practical notes (August 2019) and we have considered the extent to which our pricing methodology aligns with these new principles in Appendix 4.7.

To encourage and support distributors to adopt more efficient distribution prices the EA has developed and published scorecards for each distributor based on an assessment of their 2020 pricing methodology and pricing roadmap.

Top Energy was placed second highest out of all distribution companies in New Zealand which reflects our pricing reform to date on cost reflective pricing and our future pricing strategy. Despite the introduction of the scorecard, Top Energy will continue align our pricing strategy with our pricing objectives e.g. not differentiate between rural and urban customers based on consumer views.

The assessment is aimed to complement industry-led efforts to promote more efficient distribution pricing, by analysing different pricing options, and offering frameworks and tools. The EA assessments will be repeated annually to track progress, identify good practice, and provide constructive feedback where progress lags. Top Energy has met with EA to better understand good practice, identify gaps and discuss suggested improvement opportunities. Feedback from this session and the scorecard has been incorporated into this year's pricing strategy and pricing methodology.

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Figure 6: Summary of relevant regulations

Regulation	How this affects Top Energy's prices
Electricity Distribution Services Default Price-Quality Path Determination 2020 (DPP)	Forecast revenue from prices must not exceed forecast allowable revenues determined by the Commerce Commission
Section 2.4 of the Electricity Distribution Information Disclosures Requirements (ID)	Requires Top Energy to publish certain information on prices and pricing methods
Distribution Pricing Principles and Information Disclosure Guidelines (Pricing Principles)	 economic principles and market considerations for setting prices information that should be made available to support pricing methodologies
The Electricity (Low Fixed Charges Options for Domestic Consumers) Regulations 2004 (LFC Regulations)	Requires Top Energy to offer a price option to domestic consumers that has a fixed daily price not exceeding 15 cents.
The Electricity Industry Participation Code, Part 6 - pricing of distributed generation.	Limits prices for distributed generation to the incremental costs of connecting generation to the network, considering any avoided costs.
The Electricity Industry Participation Code, Part 12A.	Top Energy must consult with retailers in relation to any changes to pricing structures.

3.4. Stakeholder (Retailer) considerations

In accordance with the requirements of the Electricity Industry Participation Code, Top Energy has engaged with all retailers that have connections on our Network when we have intended to make changes to our pricing structures.

Over September and October 2020 Top Energy, in conjunction with Northpower, undertook consultations on further cost reflective distribution pricing. The consultation focussed on feedback on the TOU pricing for Residential and General Commercial customers introduced on 1 April 2020, the introduction of distribution export charge and options for more cost reflective larger Commercial pricing e.g. demand and / or capacity pricing.

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Top Energy met eight Retailers and received detailed responses from seven including from three of the five major retailers. In response to feedback further consultation was completed in December 2020 on capacity and demand pricing structures.

Retailers were supportive of the new TOU price structures implemented on 1 April 2020 for Residential and General Commercial customers and open to the introduction of capacity and demand pricing for large Commercial customers. They welcomed common structures across the Northland region and would encourage more consistency across networks. Constructive feedback was also received on the implementation and changes incorporated into the 2021 pricing structures.

Retailers reiterated the need for the TOU pricing to allow for legacy meters, non-communicating advanced meters and retailers who unable to provide data and or bill TOU. Retailers were in favour of our proposal to continue to accommodate these practical issues by offering, on request, a 12-month exemption for non-punitive single default prices for the following:

- legacy meters or non-communicating advanced meters (automatic)
- Specific meter providers due to system constraints or contractual issues
- Billing system limitations or
- other issues considered on a case by case basis.

A wide range of feedback was received on the introduction of a distributed generation export charge. This included opposition, no issue with it, to no comment. Despite this, retailers were able to provide the data and were in strong agreement that this charge should only cover incremental costs as outlined in the consultation.

In addition to this formal notification, Top Energy has engaged stakeholders through attendance at industry workshops (e.g. ENA Strategic Pricing Working Group, Joint Retailer and ENA workshop), informal discussions and face to face meeting with retailers, or when new retailers sign up for a Use of System Agreement. There were 21 retailers with customers on the Top Energy network up from 17 retailers from last year. Six new retailers started trading on the network in the last year and two retailers exited the market and transferred their customers to another retailer.

4. Pricing Decisions

4.1. Pricing objectives

Top Energy has adopted the following six pricing objectives, informed by the above considerations:

- Prices provide an adequate return to the shareholder within the restrictions of the Commerce Commission's price control regime
- 2. Prices are economically efficient, transparent, and simple to understand, but also recognise the socioeconomic needs of consumers and the region
- 3. Prices reflect a fair and efficient allocation of cost, regardless of actual volumes of electricity consumed

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- 4. Prices provide consumers with opportunities to significantly reduce their charges where they are able to make changes in their usage of the network to reduce Top Energy's long run costs
- 5. Price stability and certainty is maintained by signaling changes in advance and by transitioning these changes over an appropriate timeframe to avoid price shock
- 6. Prices do not differentiate urban and rural consumers

These objectives are informed by the key considerations discussed in the previous section, including business considerations, consumer feedback, industry and regulatory guidance (in particular the Electricity Authority pricing principles).

Trade-off exists across these objectives which must be balanced. Our current focus in meeting these objectives is:

- To allocate costs fairly between consumer groups
- To establish a range of price options that reflect consumer requirements e.g. new Residential and General Commercial TOU pricing
- That prices reflect the potential demand and capacity required by consumers
- To comply with regulatory requirements
- To appropriately recover pass through costs
- To achieve a rate of return acceptable to shareholders.

4.2. Five-year pricing strategy

Top Energy has developed a plan and strategy to transition to and continually evolve our pricing structures. The pricing strategy is one component of the wider strategy to manage our network assets and investment for the long-term benefit of our existing and future consumers. A key driver of this is the management of maximum demand which has increased by over 6% compared to 2019. Maximum demand is forecast to continue to increase as outlined in our Asset Management Plan with low voltage constraints e.g. street and suburb level, the most immediate risk. The main drivers for growth are expected to be from an increase in connections, adoption of new technologies e.g. electric vehicles and there is a potential for step change growth due to large-scale projects e.g. Ngawha Industrial Park.

The five-year pricing strategy outlined sees more cost reflective pricing implemented and will position Top Energy to better manage its network and investment in the future. The transitional approach outlined below will also enable Top Energy to manage the impact on customers while adapting the approach, if required, to changing requirements or technologies. This could include incorporation of new technologies and network alternatives by customers. Other mechanisms to manage maximum demand including ripple control will continue to be used in conjunction with pricing signals.

The implementation of the five-year plan has seen the first technology cost reflective pricing signal introduced with the distribution generation export charge being increased from nil to 0.5 c/kWh to cover incremental costs. In addition,

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further assessment of the impact of technology, from a full asset management plan review, is planned for 2022/2023. This combined with the results of a LV network study will assist in developing more cost reflective pricing structures and customers groups.

Further cost reflective pricing has been introduced with demand and capacity pricing structures for Larger Commercials on 1 April 2021. The capacity price will better reflect the connection cost of various consumers. Initially, the demand pricing will be set at \$0 / kVA / day to signal this will be introduced when congestion pricing is required.

This approach also aligns with the EA view in their Decision paper: More efficient distribution network pricing – principles and practice – 4 June 2019 "that distributors need to act with ambition and urgency on reforming their pricing structures, and that concrete plans were needed now".

Top Energy also acknowledge that pricing reform will be an ongoing process and have incorporated the development and modelling of further cost reflective pricing including new technologies in the pricing strategy. This has been complemented by more consultation with retailers.

Top Energy's pricing strategy is dependent on the implementation of recommendations from the Electricity Pricing review which was published in October 2019. In particular, the review supports that the Government issue a policy statement on distribution pricing and consideration for removal of the Low Fixed Charge Tariff (LFCT). If a government policy statement is issued or other relevant changes are implemented, Top Energy will review its pricing strategy and consult consumers and stakeholders accordingly.

The following table highlights the journey that has been completed to date and the planned approach for further pricing reform

2017-2020 Year 1 (2020/2021) Year 2 (2021/2022) Year 3 (2022/2023) COMPLETED COMPLETED IMPLEMENT ACCESS / REFINE ANALYSE Introduce distribution Refinement of new TOU pricing for all Refine and potentially Participate in industry generation export Residential and extend Demand / pricing structures reviews and align charge to cover General Commercial Capacity pricing implemented incremental costs Engage with customers on 1 April customers through Develop and model of Review smart meter Retailer Consultation Introduce Demand / surveys and focus further cost reflective data requirements and and initial modelling Capacity based pricing pricing including new impact of smart meter on demand or capacity for larger commercials technologies penetration COS model developed on 1 April 2021 based pricing for larger commercials Continue to optimise Review demand side Analysed smart meter Complete customer customer price management after Further collaboration data and completed impact and behaviour category allocation LV network study with Northpower on TOU trials dynamics of TOU Pricing Assess impact of Consider new pricing Consideration of the technology from Asset Assessment of the business models impact of new Update COSM Management Plan for impact of Government technologies e.g. solar pricing structure and electricity pricing Commence customer and EV customer groups review and TPM price category allocation

Figure 7: Top Energy's pricing strategy

A key issue identified in implementing our price strategy is the roll out of smart meters to all our customers. In the EA consultation paper "More efficient distribution prices - 11 December 2018" the availability of smart meter data was

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central to pricing reform. Currently, only 68% of connections have smart meters installed and these are concentration in populated areas. See table below. Trustpower have confirmed that they will roll out smart meters over the coming years which should increase penetration to over 70%.

Figure 8: HHR Penetration

Density	HHR penetration (%)
REMOTE	50%
RURAL	66%
URBAN	72%

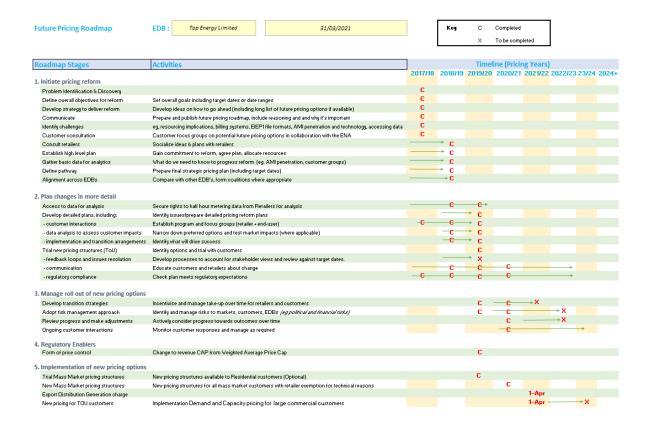
The availability of smart meters and data issues identified by Retailers, limits our ability to offer new pricing structures and for customers to potentially benefit. This has been addressed by offering a default non-punitive single rate for customers without smart meters and providing Retailers an option to apply for an exemption due to operational issues e.g. non-communicating meters, contractual issues with meter providers. The concentration of non-smart meters in remote low-socioeconomic areas is of concern as our most vulnerable customers may not only be able benefit but could also be negatively impacted as more network costs are allocated onto those without smart metering.

In October 2016, the Electricity Authority (EA) outlined their expectations that distributors would publish their plans for adopting efficient price structures. The plans are to include information that signals to stakeholders, including retailers and consumers, the distributor's goals and timeframes including:

- A clear outline of the process the distributor will adopt, including the nature of the consultation that will be undertaken with retailers and other stakeholders
- A timeline with the key milestones
- Discussion of distributor resourcing implications including how resources will be allocated.

Top Energy has fully complied with the EA's expectations. In last year's pricing methodology Top Energy's roadmap, that was provided to the EA, was published. An updated version is outlined in the table below showing progress and key timelines and the good progress achieved to date. It is noted that the EA no longer requires these to be sent separately to them, instead relying on the disclosures within this document.

Figure 9: Top Energy's future pricing roadmap (as at 31 March 2021)



4.3. Pricing review

Top Energy's pricing strategy has provided the framework for activity over the last few years and for the changes being made this year. To assist in the delivery of the framework, Top Energy has continued to be a part of the ENA's Distribution Pricing Working Group (DPWG), to better understand and be involved in industry discussions on pricing and assist in industry alignment with the transition from a historical pricing structure. In addition, Top Energy and Northpower have continued to work closely together to delivery common pricing structures for Northland and adopt industry consistency where possible. This includes joint consultation of retailers, implementation, and analysis of TOU pricing for mass market customers and further collaboration on demand and/or capacity pricing structures for larger Commercial customers.

To better reflect the service we provide and our underlying cost structure (i.e. network capacity) and assist in managing future network capacity constraints outlined in the background section, Top Energy has commenced implementing new pricing signals with the objective of moving from largely consumption-based pricing towards prices based on demand/capacity-utilisation with time of use consumption charges. The main changes and activities to date are:

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- Modernising the pricing structure to achieve better industry alignment e.g. ENAs distribution pricing guidelines, Residential consumer group with Low User and Standard User category and the introduction of TOU pricing for non-Residential customers
- Representation on the ENA Strategic Pricing Working Group to look at what cost-effective pricing means in practice including pricing structure design, customer testing and analysis using half hour metering data
- Consideration of the options outlined in the ENAs 2017 paper "A Guideline Paper for Electricity Distributors
 on new pricing options" which covered five network pricing types that either on their own or in combination
 that could be used to meet the pricing objectives
- Focus Groups in Kaitaia and Kerikeri, in conjunction with the ENA, to get feedback from customers on pricing
 options outlined in the ENAs Guidance paper
- Evaluation of pricing options and potential impact on customers through analysis using customer half hour
 meter, updating our cost to serve model and focus group insights. The cost to serve modelled showed that,
 most customer groups covered the cost (excluding Return on Capital) of their supply of electricity. The main
 exceptions were Low User customers in rural areas across the network
- Development of a trial Residential TOU pricing, in collaboration with Northpower and retailers
- Introduction of TOU pricing for Residential and General Commercial customers from 1 April 2020

There are three pricing key focuses this year:

- 1. Distribution generation export charge being increased from nil to 0.5 c/kWh to cover incremental costs;
- Review of the TOU pricing for Residential and General Commercial customers implemented on 1 April 2020;
- 3. Implementation of Capacity and demand pricing structures for larger Commercial customers for implementation on 1 April 2021.

To date over 45% of connections have been migrated to TOU pricing which has exceeded our initial estimate of 40% by 31 March 2021. Top Energy continue to work with retailers to migrate the remaining eligible customers. A transitional approach has been taken to setting Residential and General Commercial TOU pricing to manage the impact on customers. The impact on customers will be further analysed once sufficient data is available and pricing optimised. In addition, Top Energy will monitor change in consumption patterns as new propositions reflecting TOU pricing structures are offered by Retailers. In the long run our aim is for the differentials between pricing bands to reflect the underlying economic costs of using the network.

As part of the pricing review, Top Energy have developed a framework to consider the impact of new technologies on our network and appropriate actions including timing. The framework outlines the key triggers points for new technology penetration e.g. Electric Vehicle or Solar and proposed action by Top Energy. The first trigger of 5MW for solar has been reached with an in-depth analysis of the impact on our network included in the Asset Management Plan. Lastly, Top Energy will continue to actively engage with stakeholders, customers, and Government agencies to ensure that Top Energy delivers to the objectives.

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5. Target revenue

The first step in the pricing process is to establish the total target revenue to be recovered through prices. Distribution prices are set to generate sufficient revenue for Top Energy to recover its costs, subject to DPP allowable revenues. These costs are discussed in further detail:

Figure 10: 2021-22 Breakdown of Target

COMPONENTS OF TARGETED REVENUE							
	(1 April 2020 to 31 March 2022)	(1 April 2020 to 31 March 2021)	% change				
Transpower Charges	4,828,652	5,275,779	-8.5%				
Avoided Cost of Transmission (ACOT)	2,409,885	1,751,722	37.6%				
Pass-through Costs	269,241	272,001	-1.0%				
Other recoverable Costs	329,958	- 143,136	-330.5%				
Pass Through subtotal	7,837,736	7,156,366	9.5%				
Network Maintenance Costs	6,299,000	6,182,000	1.9%				
Overheads	11,230,000	11,451,000	-1.9%				
Depreciation	8,719,000	9,056,890	-3.7%				
Pre tax ROI charge	16,302,000	16,302,000	0.0%				
Distribution subtotal	42,550,000	42,991,890	-1.0%				
Annual Revenue Requirement	50,387,736	50,148,256	0.5%				
DPP Compliance Adjustment	- 4,035,585	- 5,046,970	-20.0%				
TOTAL TARGET REVENUE*	46,352,151	45,101,286	2.8%				

The total Target Revenue has increased by \$1.25m (2.8%). This is driven by the increase in Top Energy's net allowable forecast revenue under the new 2020 Default Price Path (DPP) Determination of \$0.74m and an increase in Pass through costs of \$0.7m mainly due to the \$0.5m IRIS washups and a \$0.66m increase in ACOT which was partially offset by \$0.45m reduction in Transpower charges.

5.1. Revenue cap regulation

Top Energy's revenue under the 2020 Default Price Path (DPP) Determination is based on a revenue cap. Total target revenue for 2021-22 is \$46.4m complying with the default price path (DPP) and based on consumption and connections forecasts. The methodology for forecasting consumption and connections is outlined in Top Energy Annual Price-Setting Compliance Statement – 2022 Assessment period). The target revenue is after any posted line charge discounts that are paid to consumers through a reduction in their electricity bill. Posted discounts are forecast to be in the vicinity of \$6.94m for the year, representing 13% of target revenue before the discount.

Under the 2020 DPP Determination, Top Energy was required to decrease revenue by 17.4% in the 2020-2021 year and then increase prices by CPI in the four subsequent pricing years. For the 2021-2022 year, revenue has increased by

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2.8% (\$1.25m). This includes an increase in pass through costs of \$0.7m, an increase in Forecast allowable revenue of \$0.7m which is partially offset by \$0.2m washup . This decision was based on an allowable return on investment for the 2021-2025 regulatory period of 4.57% (67th percentile vanilla Weighted Average Cost of Capital (WACC)).

In addition, Top Energy is allowed to recover pass-through and recoverable costs including transmission charges, Avoided Transmission, Avoided Distribution, rates and levies

5.2. Transpower charges

Top Energy passes through all transmission charges at cost in accordance with the DPP and its own pricing principles. The transmission charge is equitably distributed across all customers. Transmission charges include:

- Connection Charges Transpower charges for use of Kaikohe GXP connection assets to which Top Energy's network connects to the national grid
- Interconnection Charges Transpower charges for use of core grid assets based on Top Energy's share of
 Regional Coincident Peak Demand (RCPD) in Transpower's Upper North Island demand measurement region
- New investment charges Transpower contractual charges for grid connection capacity and security upgrades determined by agreement between Transpower and Top Energy.

5.3. Avoided Transmission – Distributed generation

Avoided transmission and voltage support charges may be payable to embedded generators of greater than 1MW output when suitable terms have been negotiated with Top Energy. Avoided interconnection charges are paid in recognition of a generator's contribution to reducing Top Energy's share of Transpower RCPD peaks.

5.4. Avoided Distribution – Distributed generation

Avoided distribution may be payable to embedded generators of greater than 1MW output when suitable terms have been negotiated with Top Energy.

5.5.Other Pass-through costs

This includes rates and regulatory levies.

5.6. Other recoverable costs

This includes quality incentive and Incremental rolling incentive scheme (IRIS) adjustments.

5.7. Network costs

Network costs comprise mainly maintenance costs. These are derived from the network maintenance programme which provides consumers with acceptable levels of safety and reliability, including an allowance for repairs following faults. The amount is determined in conjunction with Top Energy's Asset Management Plan.

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5.8. Non-Network costs

These are costs incurred in managing the day to day operations of the business, including management, finance and administration costs, as well as system operations and network support.

5.9. Depreciation

Depreciation represents the return of Top Energy's asset investment and is estimated using 2020 Regulatory Asset Base (RAB) roll-forward.

5.10. Pre-Tax WACC

A pre-tax return on investment is derived by applying a pre-tax weighed average cost (WACC) to Top Energy's regulatory asset base (RAB). Our 2022 WACC estimate of 5.70% is based on the DPP WACC (4.57%) expressed on a pre-tax basis.

6. Consumer Groups and Pricing Options

6.1.Cost drivers

We have sought to align our consumer groups and pricing options to reflect differences in the key drivers of our costs. Approximately, 75% of our costs is associated with directly investing in, maintaining and operating the network, as well as receiving supply from Transpower. The remaining 25% is associated with general management and administration of the business. Top Energy considers that our network cost drivers are:

- peak demand
- the length of circuit required to supply consumers
- the number of consumer connections
- dedicated asset costs.

The cost drivers that are relevant to Top Energy's current pricing methodology are peak demand, the number of connections, and dedicated asset costs, as discussed below.

Peak demand

Top Energy builds capacity in the network to meet forecast demand. As demand increases, Top Energy must consider further investments in capacity. Consumers' peak usage of existing network capacity is therefore a key driver of future costs. For instance, the network potentially faces capacity constraints in a number of growth areas (as identified in 3.1 Business considerations) and Top Energy has undertaken a large investment programme in these areas to meet forecast demand. The introduction of TOU pricing may assist in deferring future investment once these signals have been passed through to customers by retailers.

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Circuit length

The distance between a consumer's premises and the point of supply to the network influences the length of lines and cables required to deliver electricity to consumers. Effectively, consumers that are further away from the Kaikohe GXP create relatively higher costs for Top Energy.

In our view, it is not practical, or necessarily fair, to distinguish individual consumers by circuit length. However, groups of consumers within network sub-regions can be distinguished. Recently, as part of our Cost to Serve model update, we investigated the merits of adopting pricing sub-regions, reflecting urban, rural and remote and Northern, Eastern and Western network supply areas, respectively. While some cost differences were evident across these regions, potentially justifying different prices, consumers have sent a clear message that rural and remote consumers should pay no more than urban areas. For similar reasons, we have decided not to distinguish between the Eastern, Western and Northern networks.

Therefore, while circuit length is a relevant cost driver, Top Energy has decided not to reflect this in pricing other than for Industrial customers.

Consumer connections

New connections create investment and ongoing operations and maintenance costs. Top Energy's policy is for consumers to contribute towards capital costs in an upfront capital contribution. Remaining connection related costs must therefore be recovered through pricing.

Consumer specific costs

As a general principle, costs that are specific to individual consumers or groups of consumers should be directly recovered from these consumers, where practical. The provision of street-lighting and community lighting is an example of a cost that is only caused by a specific group. Transmission and assets costs for large industrial consumers can also be identified and prices set to reflect these costs through non-standard contracts.

Pricing distinctions could also be made based on network regions (discussed above), use of the high voltage network only, and use of dedicated transformers. However, our review of pricing suggests there is little benefit for Top Energy in disaggregating prices to reflect these costs.

6.2.Consumer Groupings

Primarily consumers connections are classified into Consumer Groups according to their capacity requirements and connection profiles. Capacity is seen as a good proxy for Consumer groups with similar peak demand and therefore incur similar network costs.

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The number of Consumer Groups has been set at four reflecting that 99.5% of customer base is made up of mass market customers and the balance between minimising complexity and ensuring costs are allocated appropriately between consumers.

Figure 11: Consumer Groups

Consumer Group	Criteria	Rationale	Pricing and commercial terms
Larger	Large Commercial and Industrial loads consuming >275,000kWh per annum, with a fuse capacity of 110kVa or greater	Pricing incentivises the efficient use of network capacity by large loads through variable charges levied on peak, shoulder and off-peak time of use periods for Large Commercial and capacity charge based on kVA installed.	Standard
		Industrial loads are distinguished by much larger load size, time of use metering and Transpower and Top Energy's distribution costs can be identified for each consumer.	Non-Standard
Residential	Loads have similar capacity with a common load profile which is often controllable	Recognises the large majority of small load connections with or without access to time of use meters and providing compliance for low user regulations.	Standard
General	All connections that do not fit within other consumer groups	Same pricing options as 'standard Residential' are available. In addition, pricing incentives through General Advanced variable charges levied on peak, shoulder and off-peak TOU periods. Also recognises that some connections will be without TOU meters.	Standard
Unmetered	Street and community lighting and other unmetered connections	This group recognises the unique cost and network usage profile of street and community lighting.	Standard

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6.3. Summary of pricing options

Top Energy offer the following pricing options within the above consumer groups.

Figure 12: Pricing Options

Price Code	Description and rationale	MWh	ICPs					
Industrial (IND)	Fixed price recovery of costs asso annum and a fuse capacity of 110	47,659	3					
Large Generation (LDG)	Fixed price recovery of costs a generation into the distribution n		3					
Micro Generation (DG)	$\label{lem:variable} \textbf{V} \textbf{ariable price recovery of costs associated with the connection of small-scale distributed} \\ \textbf{generation into the distribution network. This is set at 0.5c/kWh} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A}$							
General Advanced Metering (TOU) and (GA)	TOU is the default code for all 275,000kWh but less than 3,000,0 for each day connected, connected, connected, consumption price base representing peak, shoulder and GA Advanced metering is for customers using between 45,000 Both have pricing in the following Peak: 07:00-9:30 and 10 Shoulder: 09:30-17:30 Off-peak: 22:00-07:00	2000kWh (TOU). Total charges for ction charge for installed capacised on kWh consumption du off-peak demand periods, as fol small Commercial connection and 275,000 kWh (GA) per annotation grime periods.	this plan include a fixed price city on a kVA per day and a uring three pricing periods, lows:	50,202,1	112			
Residential	Residential ICP's can have the inclusive, Day/Night (Closed) and Meter configuration Uncontrolled All Inclusive Day (Closed) Night (Closed) Controlled		urations: Uncontrolled, All	153,172	27,567			

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Where:

Uncontrolled (UN24): This plan includes a fixed price for each day connected and a variable consumption price based on kWh consumption during three pricing periods, representing peak, shoulder and off-peak demand periods, as follows:

Weekdays (excluding weekends and public holidays)

Peak: 07:00-9:30 and 17:30-20:00

Shoulder: 09:30-17:30 and 20:00-22:00

Off-peak: 22:00-07:00

Weekends and public holidays

Shoulder: 07:00 - 22:00Off-peak: 22:00 - 07:00

A single price default option is available for customers with legacy meters or non-communicating smart meters as indicated by "N" in the AMI flag field of the Metering Attributes section in the EA registry. In addition, Retailers can apply for an exemption to TOU pricing. Variable prices are set higher than other controlled codes to incentivise consumers to take up controlled prices.

All Inclusive (IN18): This plan includes a fixed price for each day connected and a variable consumption price based on kWh consumption during three pricing periods, representing peak, shoulder and off-peak demand periods, as above. A single price default option is available for customers with legacy meters or non-communicating smart meters as indicated by "N" in the AMI flag field of the Metering Attributes section in the EA registry. In addition, Retailers can apply for an exemption to TOU pricing. This requires that Top Energy can control load for up to 6 hours per day. The load offered must be at least 3 kW (e.g. a hot water cylinder). Variable prices are set higher than other controlled codes as the supply is a single meter and therefore it is not possible to determine the actual portion of controlled and uncontrolled load.

Day/Night (D16, N8): This plan includes a fixed price for each day connected and two variable consumption prices during a day (7am to 11pm) and night period (11pm-7am). This tariff is closed to new customers from 31 March 2020.

Controlled 20 (CN): Top Energy can control load for up to 4 hrs per day and the load offered must be at least 10 kW. This is available to customers in conjunction with other configurations. Prices are lower than under the UN and IN price options to encourage consumers to offer up large interruptible loads.

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General	General ICP's can have the following metering configurations: Uncontrolled, All inclusive, 73,954 5,429						
	Day/Night (Closed) and Contro						
	Meter configuration	Total usage (MWh)]				
	Uncontrolled	52,710					
	All Inclusive	9,227					
	Day	6,536					
	Night	3,105					
	Controlled	2,375					
	Total	73,954					
	See above for definitions.						
UM	Prices for streetlights (UML) and (UMG) are supplied with continu		p equivalent. Other connections tts. Prices are wholly fixed.				
UM	11 different prices targeted at a range of unmetered supply configurations including: 926 2,532						
(CLOSED)	9 different street and	community lighting configur	ations				
	 Continuous supply eq 	uipment less than 500watts	(e.g. Battery Chargers, Electric				
	Fences, Irrigation, PCM Cabinets, Phone Booths, Radio Repeaters, TV Boosters)						
	Intermittent supply equipment (Fire Sirens, Railway Crossing Lights, Traffic						
	Counters).						
	Prices are wholly fixed given these connections are not metered. This plan is closed to new consumers from 1 April 2016						

6.4. Industrial (Non-Standard)

Industrial pricing aims to recover Top Energy's costs to service these consumers. To meet these consumers' requirements, Top Energy charge a wholly fixed annual price divided into twelve equal payments. There is no variable component. This fixed charge comprises the following individual charge items:

- Transpower Connection charges
- Transpower Interconnection Charges
- Avoided transmission charges payable to embedded generators
- Avoided distribution charges payable to embedded generators
- Top Energy connection and interconnection charges for its sub-transmission assets
- Top Energy operations and maintenance charges

The charges have been calculated consistent with network cost drivers on the basis of:

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- Asset usage (e.g. no low voltage or distribution level costs are assigned to these consumers as they
 connect directly into the sub-transmission system)
- Coincident peak demand (i.e. to directly allocate Transpower charges)

Top Energy does not have additional obligations or responsibilities regarding interruptions to supply for non-standard connections beyond those incorporated in its standard contracts. While additional circuit redundancy and specialist equipment is provided to these consumers in some circumstances, which is sometimes beyond what is provided to many standard connections, these consumers pay for this enhanced level of security on a cost recovery basis.

Top Energy may introduce non-standard pricing for specific regional development initiatives e.g. Energy park

6.5. General Advanced Metering

Pricing comprises of a fixed, capacity for TOU and variable component. Fixed prices have been set to maintain historical linkages, reduce stranding risk associated with larger connections, as well as reflect the proportion of asset used compared to other pricing options. Capacity prices reflect the individual assets used by customers and will be phased in over time to reflect the underlying related costs.

Variable rates are set relatively higher during periods of peak demand and progressively lower during shoulder and offpeak demand periods. These time periods have been designed:

- To align with typical demand periods on the network
- To incentivise consumers to shift demand from peak periods to shoulder periods and from shoulder to off-peak periods
- To maintain consistency with industry standard TOU periods

6.6.Residential/General

Pricing comprises of a daily fixed and variable component. A daily fixed price is levied on these plans as follows:

- a 15 cent per day is applied to all Residential consumers who meet the criteria of being a low user (LR)
 to comply with the low user fixed charge regulations and the Retailer has requested the low user (LR)
 code
- A \$1.35 per day is applied to all Residential consumers who do not meet the low user criteria
- A \$1.50 per day is applied to all other consumers who are not Residential

The increase in the daily fixed charge continues Top Energy's strategy to move towards more cost reflective pricing however this is limited by the low fixed charge regulations. Variable rates are set relatively higher during periods of peak demand and progressively lower during shoulder and off-peak demand periods. Discounts to the standard Uncontrolled price are applied to Controlled plans (All Inclusive and Controlled 20), to incentivise consumers to offer up controllable load.

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6.7.Unmetered

Unmetered pricing is wholly fixed. Fixed charges have historically been set with reference to historical amounts and rolled forward by inflation.

6.8. Distributed generation

Under Part 6 of the Electricity Industry Participation Code, Top Energy must price distributed generation at no more than the incremental cost of connecting this generation, taking into account any avoided costs.

Top Energy has developed separate charges for distributed generation based on c/kWh exported to the grid. These charges only cover incremental cost directly associated with distributed generation and apply to all customers except large scale generators (greater than 1MW). For large scale generators Top Energy has negotiated avoided transmission, avoided distribution and voltage support payments. This is dependent on these generators being able to demonstrate on an annual basis that they are making a material contribution towards Top Energy avoiding additional transmission costs.

Avoided Cost of Transmission (ACOT) payments can no longer be paid to new generation connected to Top Energy's network. This reflects recent changes to the distribution generation regulations under Part 6 of the Electricity Industry Participation Code (the Code). New distributed generation customers will have to directly approach and contract with Transpower to receive ACOT payments. Top Energy will continue to pay existing ACOT arrangements for distributed generation connected to the network on 6 December 2016 and which are on the Electricity Authority's published list of eligible Upper North Island distributed generation.

Existing large-scale distributed generation (>1MW)

Connection charges have been set to recover the costs through a non-standard contract.

Avoided interconnection charges may be paid to generators that are connected to the Top Energy's network and which have actively contributed to reducing Top Energy's contribution to RCPD peaks, used to set Transpower's interconnection charges. Avoided transmission and voltage support charges are calculated based on the notified Transpower charges for the applicable pricing period. This requires appropriate metering facilities at each site, so that the contribution to RCPD or voltage support charge reductions can be verified.

Other distributed generation

Top Energy considers that other distributed generation customers (e.g. small-scale solar PV) already receive a significant benefit through reduced distribution consumption prices, to the extent that electricity generated on site reduces the amount of electricity delivered via the network. Conversely, the cost to Top Energy of servicing these connections (i.e. an average domestic connection) is not reduced by the presence of the distributed generation, especially if the connection requires access to the network at times of peak demand. Accordingly, we believe that some connections with distributed generation are paying less than the incremental cost of providing the connection to that consumer.

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The introduction of a distributed generation based on c/kWh exported to the grid, the planned move to demand / capacity pricing and a higher proportion of fixed charges will ensure that consumers with distributed generation pay a fair share of costs, to satisfy cost recovery and fairness considerations under Top Energy pricing objectives.

6.9. Discounts

The discount will continue to be posted but the methodology has changed to be compliant with the new definition of posted discount released by the Authority on 30 March 2020 in the "Amendment Amendment to Electricity Distribution Services Input Methodologies Determination and Electricity Distribution Services Default Price-Quality Path Determination 2020 Correction to definition of discount – companion paper".

The change is that the consumption that the discount is based on is now 1 April 2021 to 31 March 2022 which covers the entire assessment period. Discounts calculated on this basis represent approximately \$6.94m and will be processed through the retailers to be applied to consumer invoices after the 31 March 2022.

6.10. Capital contributions

A customer may be required to make an upfront contribution to the cost of extending or upgrading the network (e.g. arising from connecting to the network). This contribution pre-funds Top Energy's investment, with these costs excluded from line charges.

The value of the Capital Contribution is calculated from the total cost of extension work and reduced by the value of the Top Energy connection subsidy. The contribution represents the uneconomic cost of constructing the line but does not grant any ownership rights; Top Energy retaining ownership, and responsibility for repairs and refurbishment of the reticulated extension.

Capital Contributions may be non-refundable or refundable depending on the circumstances. Standard charges and requirements apply to typical connection configurations.

The full details of the methodology for determining capital contributions is publicly disclosed on the website www.topenergy.co.nz/network/network-disclosures/

7. Calculation of Prices

Tariffs are calculated by allocating costs to consumer groups and prices, based on assumed splits between fixed and variable tariffs. Figure 13 summarises the allocators used to allocate target revenue and the rationale for these decisions.

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Figure 13: Summary of cost allocators used to set prices

Cost Category	Allocator used	Rationale
Transmission costs	Interconnection charges and ACOT - DG: Coincident share of RCPD (kW) for industrial consumers and Anytime Maximum Demand (AMD) for other connections	Allocation of interconnection charges aligns with Transpower's use of RCPD to apportion charges at a national level.
	Connection charges and ACOT - Transmission: Share of AMD	Connection charges represent investment in GXP capacity. AMD broadly represents usage of this capacity.
Network Costs	Customer group demand on the system as a percentage of ORC	Spreads maintenance cost weighted by the replacement cost of assets (recognising higher maintenance is usually attributed to higher cost assets).
Non-Network Costs	Regulatory Asset Base (RAB)	Spreads costs that are relatively static with the size of a customer's asset base , per feeder .
Depreciation	IND: Demand (kW) General Advanced: RAB Residential/General/UM: RAB	Allocation based on utilisation of asset utilisation, which broadly corresponds with depreciation representing use of capital.
Pre-tax ROI	RAB	Allocates return in proportion to value of assets RAB, consistent with regulatory framework.

The above allocation approach results in the following allocations of target revenue to consumer groups.

Figure 14: Cost allocation results

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				Pass through \$000s	Distribution \$'000's			Revenue				
Consumer Group	Regulatory Asset Base 2022(\$m)	Number of ICPs	Energy Consumption and export forecast 2022 (GWh)	Transmission, Other Pass-through and Recoverable Costs 2022	Network Costs (Maintenance)	Non-Network Costs (Overheads)	Depreciation	Posted Discount	Pre tax WACC	Annual Revenue Requirement	DPP compliance Adjustment	Total 2022 Target Revenue
IND	9,452	3	47.7	617	207	371	288	(21)	560	2,023	(431)	1,592
GG,GU,GC	54,193	5,429	74.0	1,776	1,189	2,128	1,652	(1,121)	4,210	9,834	3,278	13,112
GA	4,143	35	4.1	291	91	163	126	(11)	247	907	(356)	551
TOU	8,791	77	46.1	972	193	345	268	(90)	591	2,280	2,146	4,426
LDG	1,951	3	-	0	43	77	59	-	111	290	487	777
DG			4.3		22				-	22	(0)	22
Unmetered'	507	255	0.9	-	11	20	15	-	29	75	338	413
Total Commercial									-		-	-
LR	101,678	16,602	75.3	2,060	2,232	3,992	3,100	(3,430)	9,226	17,179	(5,619)	11,560
SR	105,284	10,965	77.8	2,122	2,311	4,134	3,210	(2,265)	8,266	17,777	(3,879)	13,898
Total Residential												
Total	286,000	33,369	330.3	7,838	6,299	11,230	8,719	(6,938)	23,240	50,388	(4,036)	46,352

Appendix 5 summarises the resulting prices for 2021-2022 which are also located on the Top Energy website;

www.topenergy.co.nz/network/network-disclosures/

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Appendix 1 – Certification for Year Beginning Disclosures



Certification for Year-beginning Disclosures

Pursuant to Schedule 17

Clause 2.9.1 of section 2.9

Electricity Distribution Information Disclosure Determination 2012

We, Euan Richard Krogh and David Alexander Sullivan, being directors of Top Energy Limited certify that, having made all reasonable enquiry, to the best of our knowledge –

- a) The following attached information of Top Energy Limited prepared for the purposes of clause 2.4.1 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination.
- b) The prospective financial or non-financial information included in the attached information has been measured on a basis consistent with regulatory requirements or recognised industry standards.

E R Krogh

30 March 2021

D A Sullivan

Appendix 2 - Glossary

ACOT	Avoided Cost of Transmission
ACOD	Avoided Cost of Distribution
AMD	Anytime Maximum Demand, which is defined as the average of the 12 highest off-
	take quantities for the customer at the connection location during the Capacity
	Measurement Period.
Capacity	12-month period starting 1 September and ending 31 August inclusive, immediately
Measurement Period	prior to the commencement of the pricing year.
Consumer	A purchaser of electricity from the Retailer where the electricity is delivered via the
	distribution network and is interchangeable with customer.
Consumption Data	Data provided by the Retailer to the Distributor as required under the Use of System
	Agreement, showing details of the measured electricity consumption on the
	distribution network.
Code	The Electricity Industry Participation Code 2010.
Demand	The rate of expending electrical energy expressed in kilowatts (kW) or kilovolt
	amperes (kVA).
Distributor	Top Energy as the operator and owner of the distribution network.
Distributed	Electricity generation that is connected and distributed within the distribution
Generation (DG)	network, the electricity generation being such that it can be used to avoid or reduce
	transmission demand costs.
ENA	Electricity Networks Association
GXP	Grid Exit Point, a point of connection between Transpower's transmission system
	and Top Energy's distribution network.
GST	Goods and Services Tax as defined in the Goods and Services Tax Act 1985.
HV	High Voltage, voltage above 1,000 volts.
ICP	Installation Control Point. Point of Connection on the Distributor's network, which
	the Distributor nominates as the point at which a Retailer is deemed to supply
	electricity to a Consumer.
IND	Industrial Customer defined by Top Energy.
Installed Capacity	The capacity of each customer's connection to the Top Energy Network charged
	based on the capacity recorded by the Network in the Registry as at the end of the
	month.
	Low Voltage: Fuse capacity

	Transformer: Transformer capacity
Line Prices	The prices levied by Top Energy on Consumers for the use of the Network as
	described in this Pricing Methodology.
Load Control	The equipment (which may include, but is not limited to, ripple receivers and relays)
Equipment	which is from time to time installed in a consumer's premises for the purpose of
	receiving load management service signals.
LV	Low voltage. Voltage up to 1,000 volts, generally 230 or 400 volts for supply to most
	Consumers.
Pricing Year	12-month period from 1 April to 31 March the following year.
RPDP	Regional Peak Demand Period, relates to an Upper North Island defined by
	Transpower where Top Energy is located. The half hour in which any of the 100
	highest regional demands occurs during the capacity measurement period for the
	relevant pricing year.
RCPD	Regional Coincident Peak Demand, relates to the customer's offtake at the
	connection location during a regional peak demand period.
Retailer	The supplier of electricity to Consumers with installations connected to the
	distribution network.
ToU	Time of Use Customer, who is metered according to their electricity consumption
	for a particular period (usually half-hourly).
Transpower	Transpower (NZ) Limited
UN	Uncontrolled

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Appendix 3 – Compliance with ID determination

ID Clause	Information Disclosure requirement	Pricing Methodology Reference
2.4.1	Every EDB must publicly disclose, before the start of each disclosure year, a pricing methodology which:	This Pricing Methodology will be published on our website prior to 1 April 2021.
2.4.1(1)	Describes the methodology, in accordance with clause 2.4.3 below, used to calculate the prices payable or to be payable;	See below for document references to compliance against clause 2.4.3.
2.4.1(2)	Describes any changes in prices and target revenues;	Prices have increased by an average of 0.1% when comparing 2021 and 2022 pricing schedules. See section 2.3 Changes in target revenues are described in Section 5.
2.4.1(3)	Explains, in accordance with clause 2.4.5 below, the approach taken with respect to pricing in non-standard contracts and distributed generation (if any);	See section 6.4 and 6.8
2.4.1(4)	Explains whether, and if so how, the EDB has sought the views of consumers, including their expectations in terms of price and quality, and reflected those views in calculating the prices payable or to be payable. If the EDB has not sought the views of consumers, the reasons for not doing so must be disclosed.	

2.4.2	Any change in the pricing methodology or adoption of a different pricing methodology, must be publicly disclosed at least 20 working days before prices determined in accordance with the change or the different pricing methodology take effect.	Any changes were disclosed by 1 March 2021.
2.4.3	Every disclosure under clause 2.4.1 above must-	
2.4.3(1)	Include sufficient information and commentary to enable interested persons to understand how prices were set for each consumer group, including the assumptions and statistics used to determine prices for each consumer group;	Top Energy considers this document provides sufficient information on how prices have been set but will continually review for improvements.
2.4.3(2)	Demonstrate the extent to which the pricing methodology is consistent with the pricing principles and explain the reasons for any inconsistency between the pricing methodology and the pricing principles;	See Appendix 4 TEL considers our pricing is broadly consistent with the pricing principles, but we also discuss how potential changes to our pricing methodology will align more closely with these principles.
2.4.3(3)	State the target revenue expected to be collected for the disclosure year to which the pricing methodology applies;	See section 5.
2.4.3(4)	Where applicable, identify the key components of target revenue required to cover the costs and return on investment associated with the EDB's provision of electricity lines services. Disclosure must include the numerical value of each of the components;	See section 5.

2.4.3(5)	State the consumer groups for whom prices have been set, and describe-	See Section 6.2.
	 the rationale for grouping consumers in this way; the method and the criteria used by the EDB to allocate consumers to each of the consumer groups; 	
2.4.3(6)	If prices have changed from prices disclosed for the immediately preceding disclosure year, explain the reasons for changes, and quantify the difference in respect of each of those reasons;	See section 2.3 and Appendix 5
2.4.3(7)	Where applicable, describe the method used by the EDB to allocate the target revenue among consumer groups, including the numerical values of the target revenue allocated to each consumer group, and the rationale for allocating it in this way;	See tables in Section 7.
2.4.3(8)	State the proportion of target revenue (if applicable) that is collected through each price component as publicly disclosed under clause 2.4.18.	See tables in Section 7.
2.4.4	Every disclosure under clause 2.4.1 above must, if the EDB has a pricing strategy-	
2.4.4(1)	Explain the pricing strategy for the next 5 disclosure years (or as close to 5 years as the pricing strategy allows), including the current disclosure year for which prices are set;	Our pricing strategy is discussed in section 4.2
2.4.4(2)	Explain how and why prices for each consumer group are expected to change as a result	See section 4.2
2.4.5	Every disclosure under clause 2.4.1 above must-	

2.4.5(1)	Describe the approach to setting prices for non-standard contracts, including-	See Section 6.4 and appendix 5
(a), (b), (c)	 the extent of non-standard contract use, including the number of ICPs represented by non-standard contracts and the value of target revenue expected to be collected from consumers subject to non-standard contracts; how the EDB determines whether to use a non-standard contract, including any criteria used; any specific criteria or methodology used for determining prices for consumers subject to non-standard contracts and the extent to which these criteria or that methodology is consistent with the pricing principles; 	
2.4.5(2)	Describe the EDB's obligations and responsibilities (if any) to consumers subject to non-standard contracts in the event that the supply of electricity lines services to the consumer is interrupted. This description must explain-	See Section 6.4
	 the extent of the differences in the relevant terms between standard contracts and non-standard contracts; any implications of this approach for determining prices for consumers subject to non-standard contracts; 	

- 2.4.5(3) Describe the EDB's approach to developing prices for electricity distribution services provided to consumers See Section 6.8 that own distributed generation, including any payments made by the EDB to the owner of any distributed generation, and including the
 - prices; and
 - value, structure and rationale for any payments to the owner of the distributed generation.
- 2.9.1 Where an EDB is required to publicly disclose any information under clause 2.4.1, clause 2.6.1 and sub-clauses Completed and attached as Appendix 1 2.6.3(4) and 2.6.5(3), the EDB must at that time publicly disclose a certificate in the form set out in Schedule 17 in respect of that information, duly signed by 2 directors of the EDB.

Appendix 4 – EA Pricing Principles

Pricing principles Extent to which pricing methodology is consistent with pricing principle (a) Prices are to signal the economic costs of service provision, including by: (i) being subsidy free (equal to or greater than We interpret 'avoidable cost' as the additional cost of connecting a consumer, comprising connection costs, network upgrades, and incremental operating costs. avoidable costs, and less than or equal to standalone costs Top Energy requires a capital contribution for new connections and asset upgrades if the expected line charge revenue from the connection is less than the associated incremental capital cost (i.e. an uneconomic connection) Accordingly, distribution prices will typically be in addition to incremental capital costs. Remaining incremental operating costs resulting from a new connection will be recovered through distribution prices. Over the last ten years a new connection has contributed approximately \$300 per annum (real) to operating expenditure. An uncontrolled consumer (UN) would need to consume less than 1,020kWh in a year for prices to fall below this incremental cost (i.e. based on the 15 cents per day fixed charge and existing UN prices). This highlights that the application of the 15 cents per day low fixed charge creates cross-subsidisation at very low levels of consumption. Top Energy considers 'stand alone cost' means the cost for a consumer to disconnect from the distribution network and install onsite generation. Solutions do exist for small loads to disconnect from the network through installation of onsite solar generation and batteries. However, these systems are relative expensive when compared to

PRICING METHODOLOGY 2021-2022

distribution supply. For example, a 7kW solar system, 15kW battery system with diesel generator can cost more than \$40,000 to install. We estimate this would cost \$0.70/kWh over a 15-year period and the installation is funded by a mortgage. This is significantly more expensive than the average 41.62c/kWh charge Top Energy's consumers pay (source: MBIE quarterly survey of electricity prices, 15 February 2021). Nevertheless, the cost of installing these systems is falling rapidly and Top Energy will continue to keep a watch on this market and respond appropriately through pricing.

(ii) reflecting the impacts of network use on economic costs

Top Energy's primary service is to provide capacity in the distribution network. To further reflect the impact of network use on economic costs Top Energy has implemented Residential and General Commercial TOU pricing from 1 April 2020 and demand/capacity for larger Commercial customers from 1 April 2021. This aligns pricing more closely with the impacts of network use on economic costs.

In addition to the changes above, current pricing structures recognise the differences in network services provided to (or by) customers as follows:

- Consumer groups recognise different load sizes
- Many network and transmission related costs are allocated to consumer groups in proportion to demand
- Capital contributions help fund the uneconomic proportion of new investments in capacity
- Industrial sites (IND) are charged for specific asset usage and therefore the capacity these assets provide,
 and are apportioned transmission charges directly based on their contribution to RCPD
- TOU/Advanced Metering structures encourage consumers to optimise the usage of the network across all time periods

(iii) reflecting differences in network services	Controlled prices encourage consumers to offer up controllable load which Top Energy can use to manage congestion during interruptions to supply, when the network maybe constrained For the same reasons discussed above, Top Energy's pricing structures reflect differences in network services
provided to (or by) consumers and	provided to (or by) customers. The introduction of TOU pricing for Residential and General Commercial customers and demand and capacity for larger Commercial customers have improved these signals.
(iv) Encouraging efficient network alternatives	Avoided transmission, avoided distribution and voltage support charges may be payable to embedded generators of greater than 1MW output. This may help justify investments in local generation.
	The introduction of TOU pricing for Residential and General Commercial customers provide better signals for
	investment in new technology e.g. electric vehicles, distributed generation and batteries. Further analysis has been included in our pricing strategy.
(b) Where prices that signal economic costs	This principle suggests that the short fall should be made up by prices which don't impact usage behaviour e.g.
would under-recover target revenues, the	higher fixed charges or that consumers with a higher willingness to pay should pay relatively more than consumers
shortfall should be made up by prices that least	with a lower willingness to pay.
distort network use	Top Energy has increased its standard daily charge for Residential and General Commercial since 2016 from
	\$0.15/day to \$1.35/day and \$1.50/day respectively. However, this approach is limited by regulatory constraints e.g.
	Low Fixed Charge Tariff regulation as over 60% of Residential customers are on lower user charge of \$0.15/day. Top

PRICING METHODOLOGY 2021-2022

Energy considers pricing based on willingness to pay should be linked to the level of service provided. This is a common pricing practice in many competitive markets. For instance, the UN24 and CN20 pricing options give consumers a choice over whether heating loads are interrupted. Consumers that are unwilling to have supply interrupted pay relatively more than a customer that is willing to accept a slightly lower level of service. Similarly, consumers on TOU pricing options that do not want to shift load to off peak periods pay more for using electricity at time that suits them.

requirements and circumstances of end users by allowing negotiation to:

Prices should be responsive to the Capital contributions and non-standard contracts provide a mechanism where a consumer can request assets that provide a higher level of service. The costs of specific assets are either recovered upfront through a capital contribution or within specific pricing. Consumers can also request alternative pricing structures under non-standard contracts to address their own risks (e.g. IND prices are wholly fixed).

- (i) reflect the economic value of services and;
- (ii) enable price/quality trade-offs
- and have regard to transaction costs, consumer impacts, and uptake incentives

(d) Development of prices should be transparent. The pricing strategy explained in this document provides stakeholders with an overview of Top Energy's plans for prices over the next several years. We plan to continue to consult with consumers and retailers to seek their feedback on any changes which will be incorporated into any pricing decisions.

> Learnings from the TOU trial and retailer consultation enabled us to understand the transaction costs and operational policies for the implementation of TOU for Residential and General Commercial customers from 1 April

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2020. The approach of the new TOU prices applying for all customers with automatic exemptions for non-communication meters e.g. legacy meters and retailer's ability to apply for exemptions due to operation issues reflect this. The TOU price differentials are being phased in over time to manage rate shock and reduce revenue risk. As important it will allow further modelling as more consumption information becomes available which will assist in getting the final price differentials more accurate.

The new demand and capacity pricing for large Commercial customers implemented on 1 April 2021 incorporated feedback from retailers with the initial focus on implementing new structures and operational policies. The price signal will be phased in over time to manage rate shock and depending on network constraint requirements.

Appendix 5 - Network Line Charges 2021 – 2022

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2021/22 Electricity Price Schedule

Effective from 1 April 2021. All prices exclude GST

	Eff	ectiv	e fro	m 1 Ap	ril 202	1. All pr	ices exclu	ıde GST				
				α	irrent fro	m 1 April 20	21		Previous Year			
Price Code	Description	Daily Price 5/day	Unit Price S/k Wh	Distribution Discount Component (\$/day)	Distribution Discount Component (\$/kWh)	Daily charge after Discount Component (5/day)	Unit Price after distribution Discount Component (5/kWh)	Maximum combined kWh's eligible for Discount per ICP	Daily Price (5/day) from 1.4.2020	Total (S/kWh) from 1.4.2020	Distribution 12 month Discount Component	Maximum Combined Eligible Discount kWh
				For	payment ti	ming and eligi	bility, see notes!	below				
Low User No	on-TOU (LR) for customers using less than 8,0	00kWh p	er year:	8,618 user:	s (exdudes l	holiday homes	, andillary buildir	ngs and meter	s)			
LRF	DailyPrice	0.1500		0.1373		0.0127			0.1500		0.1373	
LUC	Uncontrolled (no load controlling applied)		0.2288		0.1481		0.0807			0.2305	0.1481	
LA	All inclusive (3kW loading)	₩	0.1817		0.1481		0.0336	1,130		0.1810	0.1481	1,130
LD	Day (7am - 11pm) Night (11pm - 7am)	\vdash	0.2228	_	0.1481		0.0747		 	0.2213	0.1481	
LFC	Controlled 20 (10kW loading)		0.0887				0.0887			0.0872		
DG	Exported Micro generation		0.0050				0.0050					
Low User Tir	me of Use Uncontrolled (LU) for customers w	ho have	no load o	controlling a	applied to th	neir line : 1,36	0 users					
LUF	Daily Price on Half Hourly Read Uncontrolled	0.1500		0.1373		0.0127			0.1500		0.1373	
LU1	Peak (7am - 9.30am & 5.30pm - 8pm, excluding week- ends and public holidays)		0.3008		0.1481		0.1527			0.2977	0.1481	
LU2	Shoulder (9.30am - 5.30pm & 8pm - 10pm or 7am - 10pm, weekends and public holidays)		0.2199	l	0.1481		0.0718	1,130		0.2190	0.1481	1,130
LU3	Off Peak (10pm - 7am)		0.1963		0.1481		0.0482			0.1945	0.1481	
LFC	Controlled 20 (10kW loading)		0.0887		-		0.0887			0,0872		-
DG	Exported Micro generation		0.0050				0.0050					
Low User Tir	me of Use All Inclusive (LC) for customers wh	o do have	e load co	entrolling ap	plied to the	ir line : 6,624	users					
LCF	Daily Price on Half Hourly Read Controlled (3KW loading) Peak (7am - 9.30am & 5.30pm - 8pm excluding	0.1500		0.1373		0.0127			0.1500		0.1373	
LC1	weekends and public holidays) Shoulder (9.30am - 5.30pm & 8pm - 10pm or 7am -	<u> </u>	0.2419		0.1481		0.0938			0.2464	0.1481	
LC2	10pm weekends and public holidays)		0.1647		0.1481		0.0166	1,130		0.1716	0.1481	1,130
LC3	Off Peak (10pm - 7am)		0.1528		0.1481		0.0047			0.1422	0.1481	
LFC DG	Controlled 20 (10kW loading) Executed Micro Generation	-	0.0887	_			0.0887			0.0872		-
	er (SR) for customers using more than 8,000	Wh ner		221 magazi (in	eludas buile	lars tamporar		-		-		-
SRF	Daily Price	1,3500	year. o,	0.3402	Todaes built	1.0098	y supply)		1.200		0.1373	
SUC	Uncontrolled (no load controlling applied)		0.1745	0.5.02	0.0825	2000	0.0920			0.1833	0.1481	
SA	All inclusive (3KW loading)		0.1272		0.0825		0.0447	1,130		0.1338	0.1481	1,130
SD	Day (7am - 11pm)		0.1542		0.0825		0.0717			0.1619	0.1481	
SN	Night (11pm - 7am)		0.0879		-		0.0879			0.0876		-
SFC DG	Controlled 20 (10kW loading) Exported Micro Generation	├	0.0674	_	-		0.0674		_	0.0710		-
	er Time of Use Uncontrolled (SU) for custom	ers who i		load control	ling applied	to their line :					-	
SUF	SUF Daily Price on Half Hourly Read Uncontrolled	13500		0.3402		1.0098			1,200		0.1373	
SU1	Peak (7am - 9.30am & 5.30pm - 8pm excluding week- ends and public holidays)		0.2455		0.0825		0.1630			0.2513	0.1481	
SU2	Shoulder (9.30am - 5.30pm & 8pm - 10pm or 7am - 10pm weelends and public holidays)		0.1682		0.0825		0.0857	1,130		0.1747	0.1481	1,130
SU3	Off Peak (10pm - 7am)		0.1424		0.0825		0.0599	1		0.1478	0.1481	
SFC	Controlled 20 (10kW loading)		0.0674				0.0674			0.0710	-	-
DG	Exported Milaro Generation		0.0050				0.0050					-
Standard Us	er Time of Use All inclusive (SC) for custome	rs who do	have lo	ad controlli	ng applied t	o their lines:	2,899 Users					
SCF	SCFDaily Price on Half Hourly Read Controlled (3kW loading)	13500		0.3402		1.0098			1.200		0.1373	
scr	Peak (7am - 9.30am & 5.30pm - 8pm excluding week ends and public holidays)		0.1800		0.0825		0.0975			0.1962	0.1481	
502	Shoulder (9.30am - 5.30pm & 8pm - 10pm or 7am - 30pm weelends and public holidays)		0.1178		0.0825		0.0353	1,130		0.1279	0.1481	1,130
SCS	Off Peak (10pm - 7am)		0.0878		0.0825		0.0053			0.0927	0.1481	
SFC	Controlled 20 (10kw loading)	_	0.0674				0.0674			0.0710		
DG	Exported Micro Generation		0.0050				0.0050					
POSTED DIS	TRIBUTION DISCOUNT NOTES The Discount will only be provided to ICP's connected on	21 March 2	023 (alleib	thu don't with			i mana iban 11475 - da	deaths 13 m 1	and ad as di-	- 31 March 2020		
	The Discount will only be provided to KP's connected on Variable discounts will be applied to consumption up to							mig are 12 month	penod endin	g 31 march 2022.		
	Discounts will be applied by your Retailer on your account											

For more information visit www.topenergy.co.nz or call 09 4015440



	-								CO	VIIVIER	CIAL PR	CINC
	Current from 1 April 2021 Previo										ous Year	
Price Code	Description	Daily Price \$/day	Unit Price \$/kWh	Distribution Discount Component (S/day)	Distribution Discount Component (5/kWh)	Daily change after Discount Component (\$/day)	Unit Price after distribution Discount Component (S/kWh)	Maximum combined kWh's eligible for Discount per ICP	Daily Price (S/day) from 1.4.2020	Total (S/ kWh) from 1.4.2020	Distribution 12 month Discount Component	Maximu Combine Eligible Discour k Wh
				For paym	ent timing a	and eligibility,	, see previous	page notes				
ieneral Use	er (GGF) for businesses that use less than 45,000 kWi	per year,	and buil	der connec	tions: 3,69	3 Users						
GGF	Daily Price	1.5000		0.3402		1.1598			1.2000		0.1373	
GGUC	Uncontrolled (no load controlling applied)	+	0.1680		0.0825		0.0855			0.1833	0.1481	
GGA	All inclusive (3KW loading) Day(7am-11pm)	+-	0.1224		0.0825		0.0399	1,130	\vdash	0.1338	0.1481	1,130
GGN	Night (11pm-7am)	+-	0.0787		0.0823		0.0787			0.0876	0.1401	
GGFC	Controlled 20 (10kWloading)	\top	0.0649				0.0649			0.0710		
DG	Export ed Micro generation		0.0050				0.0050			-		
eneral Use	er Time of Use Uncontrolled (GUF) : 1,285 users											
GUF	Daily Price on Half Hourly Read Uncontrolled	15000	$\overline{}$	0.3402		1.1598			1.2000		0.1373	
GU1	Peak (7am-9.30am & 5.30pm-8pm, excluding weelends and public		0.2263		0.0825		0.1438			0.2513	0.1481	
	holidays) Shoulder /9 20cm 5 20cm 5 2cm 10cm or Tom 10cm under de	+-	0.2200		0.0025		0.2430	1.120	\vdash	0.2313		
GU2	Shoulder (9.30am-5.30pm & 8pm-10pm or 7am-10pm, weekends and public holidays)		0.1574		0.0825		0.0749	1,130		0.1747	0.1481	1,130
GU3	Off Peak (10pm-7am)		0.1308		0.0825		0.0483			0.1478	0.1481	
GGFC	Controlled 20 (10k W loading)	+	0.0649		-		0.0649	-		0.0710	-	
DG	Exported Micro generation		0.0050				0.0050	-		-		_
ieneral Use	er Time of Use All Indusive (GCF): 451 users											
GCF	Daily Price on Half Hourly Read Controlled (3kW loading)	1.5000		0.3402		1.1598			1.2000		0.1373	
GC1	Peak (7am-9:30am & 5:30pm-8pm excluding weekends and public holidays)		0.1761		0.0825		0.0936			0.1962	0.1481	
GC2	Shoulder (9.30am-5.30pm & 8pm-10pm or 7am-10pm weekends a	nd	0.1161		0.0025		0.0334	1,130		0.1770	0.1481	1,130
	public halidays)		0.1161	<u> </u>	0.0825		0.0336			0.1279		
GC3 GGFC	Off Peak (10pm-7am) Controlled 20 (10k Wloading)	+	0.0881	-	0.0825		0.0056			0.0927	0.1481	-
DG	Exported Micro Generation	+	0.0050		-		0.0050	-		0.0710		<u> </u>
	vanced User (GA) for businesses that use 45,000 to 2	S OOOLWA	_	r - 35 mag			0.0030					
		Ť	i per yes			4.0040	T					
GAF	Daily Price on Half Hourly Read	9:1462	-	0.5500		8.5962			9.1898		0.5500	_
G1	Peak (7am-9.30am & 5.30pm-8pm)		0.1662		0.00380		0.1624	1,092,500		0.1730	0.0038	1,092,5
G2	Shoulder (9.30am-5.30pm & 8pm-10pm)	+	0.1129		0.00380		0.1091		_	0.1175	0.0038	ļ
G3	Off Peak (10pm-7 am) Exported Micro Generation	+-	0.0592		-		0.0592			0.0624		<u> </u>
DG	<u></u>	Mhaar					0.0050		_	-		
	Time of Use (TOU) for business that use over 275,00	$\overline{}$	year: //	_		25 7720	1		25 23 20		0.5500	
TOULVED	Daily Price Daily Distribution by Capacity price per MA	26.3220	\vdash	0.5500		25.7720			26.32.20		0.5500	
TOU1	Peak (7am-9:30am & 5:30pm-8pm)	0.0200	0.1222	_	0.0038	0.0200	0.1184			0.1398	0.0038	
TOUZ	Shoulder (9.30am-5.30pm & 8pm-10pm)	+-	0.0832		0.0038		0.0794	1,092,500	\vdash	0.0951	0.0038	1,092,9
TOU3	OffPeak (10pm-7am)	+-	0.0100		0.0038		0.0100			0.0085	0.0038	
TOULVD	Daily Distribution Demand Price per kWA	T .										
DG	Exported Micro Generation < 1MW	\top	0.0050				0.0050			-		
TOUTX	Daily Price	26.32.20		0.5500		25.7720			26.32.20		0.5500	
TOUTFD	Daily Distribution Transformer Capacity price per Installed IVA	0.0200				0.0200						
TOUT1	Peak (7am-9:30am & 5:30pm-8pm)		0.1222		0.0038		0.1184	1,092,500		0.1398	0.0038	1,092,9
TOUT2	Shoulder (9.30am-5.30pm & 8pm-10pm)	+	0.0832		0.0038		0.0794	цопарато		0.0951	0.0038	4,1,14
TOUT3	Off Peak (10pm-7am)	+	0.0100				0.0100			0.0085		
TOUDVD	Daily Distribution Demand Price per kWA	+ -	0.0050				0.0050					-
DG	Exported Micro Generation < 1MW		43030				0.0030					
INMETER	ED PRICING: Fixed charges only. No variable ch	arge.						NE	W 1 April 202	1	OLD Total (5,	
Price Cod			ription					D.	illy Price \$/da	v	1.4.2020 to	31.3.2021
	supply - Closed for New Connections 01.04.16: 2,45											
UMLSH		s with 1 lamp	,						0.4400	\rightarrow	0.44	
UMLDH								+	0.8800	\rightarrow	0.88	
UMLSHLP1		ing, Streetlich	a Streetlights Rollards						0.5400	-+	0.54	
								0.4400		0.44		
UMDEC	Community Lighting, Convenience Lighting, Jetty Lights, Un								0.1500		0.19	900
UMGL	Continuous supply less than 500watts e.g. Battery Chargers, Electric Fences, Imigation, PCM Cabinets, Phone Booths, Radio Repeaters, TV Booster								0.4300		0.43	
UM GL UMCONS								1	0.2400	- 1	0.24	100
UM GL UMCONS	Intermittent supply consisting of Fire Sirens, Railway Crossi	ng Lights, Trafi	fic Counter	5				_		_		
UMGL UMCONS UMINT nmetered	Intermittent supply consisting of Fire Sirens, Railway Crossi supply - For New Connections after 01.04.16:76 Use	ng Lights, Trafi	fic Counter	5					0.4/**			00
UM GL UMCONSO UMINT nm ete red UMLF	Intermittent supply consisting of Fire Sirens, Railway Crossi supply - For New Connections after 01.04.16 : 76 Use Streedights (STL)	ng Lights, Trafi	fic Counter	s					0.4400	Ţ	0.44	100
UMGL UMCONS UMINT nmetered	Intermittent supply consisting of Fire Sirens, Railway Crossi supply - For New Connections after 01.04.16:76 Use	ng Lights, Trafi	fic Counter	s					0.4400		0.44	
UMGL UMCONS UMINT nm ete red UMLF	Intermittent supply consisting of Fire Sirens, Railway Crossi supply - For New Connections after 01.04.16 : 76 Use Streetlights (STL) Streetlights (STL)	ng Lights, Trafi	fic Counter	5								

