



# Capital contribution policy

Gas distribution business



## Introduction

Firstgas operates 2,500 kilometres of gas transmission pipelines (including the Maui pipeline), and more than 4,800 kilometres of gas distribution pipelines across the North Island. These gas infrastructure assets transport gas from Taranaki to major industrial gas users, electricity generators, businesses and homes, overall delivering around 20 percent of New Zealand's primary energy supply.

Firstgas' distribution business services more than 65,000 customers with natural gas, in networks spanning from the top to the bottom of the North Island of New Zealand. Our network cover Whangarei, Waikato, Bay of Plenty, the Central Plateau, Gisborne and Kapiti. We are focused on distributing gas across our networks to meet the diverse needs of our customers, be it industrial processes, commercial businesses, or residential customers using gas for their space heating, water heating and cooking needs. We are focused on ensuring gas is a competitive fuel choice for our customers, while operating within the regulated price-quality framework set by the Commerce Commission.

### About Firstgas Group

The Firstgas Group also owns unregulated energy infrastructure assets across New Zealand through our affiliate Gas Services NZ Limited (GSNZ), a separate business with common shareholders that owns the Ahuroa gas storage facility (trading as Flexgas Ltd) and Rockgas. These businesses provide valuable perspectives from different parts of the gas supply chain for our regulated gas transmission business.

The Ahuroa gas storage facility is New Zealand's only open access gas storage facility. Firstgas Group achieved an important milestone in September 2020 with the commissioning of a major upgrade to the Ahuroa gas storage facility. The commissioning of three new gas compressors and gas dehydration unit now allows Ahuroa to increase daily gas injection rates from 27 TJ per day to 65 TJ per day, and daily gas extraction rates from 45 TJ per day to 65 TJ per day providing increased gas storage, flexibility and security of supply to our customers. Visit the website [www.flexgas.co.nz](http://www.flexgas.co.nz).

Rockgas is New Zealand's largest LPG supplier and has over 80 years' experience providing LPG to more than 100,000 customers throughout New Zealand. Visit the website [www.rockgas.co.nz](http://www.rockgas.co.nz).

## Purpose of the capital contribution policy

Firstgas is committed to growing our gas distribution networks and increasing the utilisation of existing networks. An essential driver of growth is seeking the minimum capital contribution required to make the investment economic.

Firstgas does not apply a rebate scheme; we take a responsibility to promote natural gas and assume the risk associated with connection uptake ourselves. This improves our proposition to developers and customers. There is capital available to invest in viable projects and our capital contribution policy endeavours to strike a balance between lowering barriers of entry (minimising contribution requirements), the interests of all gas consumers on our networks and providing an appropriate return to shareholders.

This document contains information required under section 2.4.6 of the *Gas Distribution Information Disclosure Determination 2012*.<sup>1</sup> This involves disclosing Firstgas' policy for determining capital contributions, and how the capital contribution amount is calculated.

The Commerce Commission's *Input Methodologies*<sup>2</sup> require that capital contributions received are netted off the value of new assets added to our Regulated Asset Base. This means that new assets only contribute to future revenue requirements to the extent that they have not already been paid for via capital contributions.

---

<sup>1</sup> *Gas distribution information disclosure determine 2012*, consolidated as at 3 April 2018, Commerce Commission.

<sup>2</sup> *Gas distribution services input methodologies determination 2012*, consolidated as at 3 April 2018, Commerce Commission.

The Firstgas distribution capital contributions policy will be reviewed annually, with updates available online at [firstgas.co.nz/about-us/regulatory/distribution/](https://www.firstgas.co.nz/about-us/regulatory/distribution/).

## **Further information**

For further information please visit our website [www.firstgas.co.nz](https://www.firstgas.co.nz) or contact:

Peter Sandston  
Distribution Commercial Manager  
First Gas Limited  
[Peter.Sandston@firstgas.co.nz](mailto:Peter.Sandston@firstgas.co.nz)  
04 830 5311

## Contents

Introduction .....	2
1. Definitions.....	5
2. Why we require a capital contribution .....	6
3. The contribution calculation process.....	7
4. Determining incremental costs.....	7
5. Incremental costs excluded from the calculation .....	8
6. Minimum contribution requirements .....	8
7. Assigning incremental revenue for subdivision projects.....	9
8. Refining modelling when additional information available .....	9
9. Use of independent contractors .....	9
10. Consistency with the Commerce Commission pricing principles.....	10
Appendix 1: Developer contributions .....	12
Appendix 2: Residential new connections .....	13
Appendix 3: Commercial and industrial connections .....	15
Appendix 4: Extensions, relocations and reinforcements for existing customers.....	16
Appendix 5: Residential relocations, reconnections and disconnections .....	17

## 1. Definitions

<b>Customer work</b>	<p>The work that goes into constructing new assets that will become a part of the Firstgas network, and will be owned by Firstgas Limited, and/or work to alter, upgrade or relocate existing Firstgas assets due to any of the following reasons:</p> <ul style="list-style-type: none"> <li>• The connection of a new customer to the Firstgas network</li> <li>• The extension of Firstgas' network into new subdivisions</li> <li>• The upgrading of Firstgas' network to meet the capacity needs due to new connections, or to meet the gas capacity needs of an existing customer where increased load or capacity is required and/or</li> <li>• The moving, altering, or removal of existing Firstgas network for an existing customer or third party with an interest in the assets.</li> </ul>
<b>Customer contribution/ Capital contribution</b>	The amount of money required from the customer to be contributed to the Customer Work.
<b>Firstgas investment</b>	The amount of money Firstgas is prepared to invest into the Customer Works. This calculation is based on forecast revenue from the development/connection that is being invested in.
<b>Gas Measurement System (GMS)</b>	A combined meter and regulator that is used to record the quantity of gas supplied to the customer and reduces the pressure being supplied to the customer's installation.
<b>Incremental Upgrade Asset</b>	The assets upstream of the Customer Work that would be required to meet the capacity or security requirements for the incremental new load.
<b>New (or Incremental) Revenue</b>	The additional revenue to Firstgas because of a new customer connection and/or an upgrade to an existing customer's load resulting in new (or incremental) revenue.

## 2. Why we require a capital contribution

The Firstgas distribution network is constantly changing and growing. Subdivisions require mains to be laid, new homes and businesses are connecting to the network, and current customers are adapting their connections to suit their needs.

The customer may be required to contribute to the cost of the capital works where the incremental revenue received by the Firstgas investment does not cover the costs associated with the work. The customer contribution will never exceed the capital costs of the customer work.

### Firstgas principles:

- 1) The customers benefiting from the works pay a representative amount of the cost
- 2) Existing customers should, where possible, benefit from new customers sharing the existing assets
- 3) In no circumstance should existing customers be economically worse off (either immediately, or in the future) because of the new connection
- 4) Where the need for the customer work is shared amongst several customers, the customer contribution will be apportioned between these customers based on their projected annual consumption, load requirements, service costs and any other special requirements and
- 5) New revenue will be accounted for only once for the life of the Customer Work. In respect of subdivisions, new revenue for residential, commercial and industrial subdivisions will be assigned to the development of the reticulation of the subdivision. For commercial/ industrial subdivisions, if load requirements exceed capacity and require new Customer Work, this will have its own New Revenue attributable to the work.

In fairness to all of our customers, we calculate whether a capital contribution is required when:

- New assets are required, such as a new connection or increased load, where only those having the work done will receive the benefits
- A customer needs to have an extension, relocation, or reinforcement that will benefit exclusively (or almost exclusively) themselves
- Developers require mains extensions to provide natural gas to customers in their development.

Firstgas wants to ensure that every change made to the network is cost-effective, and more economic than alternative fuel options that may be available.

### 3. The contribution calculation process

All connections to our network are assessed against a standard capital contribution formula.

#### Equation 1: Capital contribution formula

$$CC = IC - IR \quad \text{as long as } MIN \leq CC \leq MAX$$

where:

- CC is the **capital contribution** (in dollars) where  $MIN \leq CC \leq MAX$ ;
- IC is the **incremental cost** - the customer specific costs arising from the new connection service determined in accordance with section 4;
- IR is the **incremental revenue** is the revenue (or increase in revenue) expected from the new connection service;
- MIN is the **minimum capital contribution** determined in accordance with **Appendices 1 – 4**; and
- MAX is the **maximum capital contribution** determined in accordance with **Appendices 1 – 4**.

The key components of this formula are broken out further below.

### 4. Determining incremental costs

Incremental costs are those incurred by Firstgas that would not have been sustained if the connection, mains extension or upgrade had not occurred. Incremental costs include, but are not limited to:

- 1) Design and compliance/certification costs
- 2) Construction and installation of all network components
- 3) Commissioning costs
- 4) Easements
- 5) Estimated ongoing operation and maintenance costs of the new assets and
- 6) Modifications, upgrades or reconfigurations of existing assets.

These incremental costs can be broken into two broad categories:

- 1) **Direct Assets:** Assets for the sole benefit of the customer and
- 2) **Indirect Assets:** Assets used by multiple customers, either arising from or requiring modification because of the applicant's request.

All costs associated with direct assets are applied in their entirety to the applicant's capital contribution calculation. For indirect assets, Firstgas assesses any changes to the timing of expenditure to that in our Asset Management Plan (found [here](#)) due to the applicant's request, and what additional benefits the expenditure will provide to existing and future customers. A proportional amount of the expenditure on indirect assets is then applied to the incremental costs of the customer's request. This can range from 0 to 100% of the indirect expenditure.

The incremental cost is then calculated as the net present value of costs identified above over the life of the investment using the Commerce Commission's weighted average cost of capital (WACC) as the discount rate.

## 5. Incremental costs excluded from the calculation

Firstgas only seek a contribution from the applicant to cover the costs associated with delivering the gas and infrastructure to support their application.

When completing the physical works required to deliver gas to a new customer, or reticulate a new subdivision, Firstgas may elect to modify the network by a greater extent than required to purely service the applicants request.

The reasons for such expenditure include but are not limited to:

- 1) Economies of scale achieved by bringing forward future upgrades/expansion may lower costs
- 2) Strategic need to increase the capacity of that network area
- 3) Network reinforcement considerations
- 4) Shared infrastructure for other customer loads that are forecast and
- 5) Increased delivery pressure for future proofing.

Firstgas will never seek to recover the costs of the work above from the applicant. We consider this work to be part of our ongoing management of the network and that it should be covered through our general network expenditure.

To determine the cost Firstgas uses when modelling the capital contribution, we also complete a design (and pricing) study for the minimum work required to serve the applicant's request. When conducting this work, we use the smallest standard size network element that would serve the requirements.

This carve-out does not apply when an applicant requests that we install a larger network asset, or non-standard solution to serve their future requirements. In this case, the full expenditure would relate to the applicant's request and would be included in the incremental cost calculation.

## 6. Minimum contribution requirements

A minimum contribution is used to ensure that we do not burden existing network customers with costs directly associated with serving another customer. It is also designed to incentivise users to design their connection in the most efficient way possible, and for developers to enable Firstgas access to common service trenches and other cost reducing considerations.

Firstgas does not apply a firm minimum contribution to any user group and all applicants have a minimum contribution of zero. Firstgas does not pay customers for connecting to the network. The table below outlines the contribution ranges:

**Table 1: Contribution ranges**

Application type	Absolute minimum contribution	Standard minimum contribution	Incremental profitability assessment	Maximum contribution	Network pricing
Residential	Free	Free (<20m)	Appliances installed	100% IC	Standard
Commercial	Free	Free	IR-IC	100% IC	Standard
Industrial	Free	Free	IR-IC	100% IC	As applicable
Subdivision	Free	10%	IR-IC	100% IC	N/A
Relocations	Free	100%	IR-IC	100% IC	Standard
Upgrades	Free	Free	IR-IC	100% IC	Standard

Our minimum contributions for residential customers are explained in further detail in **Appendix 2**. The process for commercial and industrial customers is outlined in **Appendix 3**. Our standard minimum contribution for subdivisions is 10% of the capital costs, however there are exceptions to this outlined in **Appendix 1**. For upgrades, relocations, and reinforcements, please see **Appendix 4 and 5**.

## **7. Assigning incremental revenue for subdivision projects.**

There are two major costs associated with getting customers connected to the natural gas network:

- 1) The capital investment to install mains gas pipes in the road reserve (subdivision reticulation)
- 2) The cost of connecting a customer from the mains (service connection).

Firstgas has built capital contribution models to assist with calculating the level of capital contribution that is required from both the customer and the developers.

Each residential load has an estimated net present value (NPV) associated with it (excluding capital investment) that we can use to support Capital Investment. When determining the capital contribution from developers, we model the entire life cycle costs, including the service connection costs, against the forecast revenue. This ensures that we do not account for the incremental revenue twice.

Essentially, the portion of revenue required to support our standard free connection policy is first assigned to the connection with the remainder applying to the subdivision.

## **8. Refining modelling when additional information available**

Our capital contribution models are designed to use base assumptions for all applications where information is not known at the time of application. This includes the expected connection uptake (for subdivisions) and usage (all applicants).

If an applicant has known plans, for instance a developer is also completing the design and build and can increase the accuracy of information, our model is fully customisable.

This results in us being able to seek lower contributions from developers with known high uptake rates, high viability of laterals or ducts, and higher than average usage. An example of this is a developer who is also building the dwellings and can confirm an exact uptake rate and what appliances will be installed. In this case, the full NPV of the known connections can be applied to the project.

This allows us to waive the standard 10% minimum contribution in cases where the net present value of the application is significantly positive.

## **9. Use of independent contractors**

In some circumstances, the customer may undertake some of the preparatory work that would otherwise be covered by the capital contribution. Firstgas may allow customers to undertake the preparatory work using appropriately trained and qualified personnel. Preparatory work includes, by way of example, trenching and or civil work, reinstatement and laying of duct.

If the customer performs some of the preparatory work, then the costs of that work will be excluded from the costs used to determine the capital contribution. Only costs incurred by Firstgas will be added to the RAB and hence impact the determination of distribution prices.

## 10. Consistency with the Commerce Commission pricing principles

This section details how Firstgas' capital contributions policy is consistent with the Commerce Commission's pricing principles. For a greater understanding of how Firstgas has developed our pricing approach to be compliant with these principles, please see our [Pricing Methodology](#).

### Principle

8.1 a) i) *Prices are to signal the economic costs of service provision, by being subsidy free (equal to or greater than incremental costs, and less than or equal to standalone costs), except where subsidies arise from compliance with legislation and/or other regulation.*

### Incremental cost

Incremental cost is defined as the cost of the next additional unit of production. Long-run incremental cost (LRIC) is defined as the cost of providing an additional unit, including, if necessary, the capital cost of increasing the capacity of the network to enable an additional network to be provided. The LRIC may be the present value of the cost of a future addition to the network.

There are two aspects of incremental cost that are relevant to a new connection or increase in capacity. First, there are the direct additional costs that result from the additional assets that are required to join the customer to the network or expand capacity. Firstgas' approach to capital contributions ensures that this cost is fully covered by the customer through the contribution they are required to make and their regular network charges.

Second, there is the incremental cost imposed on the existing network by additional load. This is difficult to evaluate in a meaningful way as much of the time it is zero, meaning that the next unit of gas can be distributed to a customer within the existing capacity of the network.

Occasionally the incremental cost will be a very large number, because the next unit of gas to be distributed would require additional capacity to be installed. The additional income Firstgas derives from the increased consumption may be too low to justify the cost of providing the additional capacity. Our policy is to require the customer who initiates the need for the additional work to pay a share of the cost in proportion to the amount of the capacity they require.

### Stand-alone cost

Cross-subsidisation exists when customers pay more for a service than the costs another firm would incur if it served those customers on a stand-alone basis. As Firstgas policy is that customers never pay more than the total costs of the customer work, the contribution will always be below the stand-alone cost.

### Subsidy-free zone

As contributions are above incremental cost and below stand-alone cost, they will be in the subsidy-free zone. Firstgas' use of a cost of supply model provides additional reassurance that this will be the case by allocating actual costs of supply to individual price categories. By regularly reviewing the costs of supply and revenue by price category, Firstgas ensures that our contribution requirements fall within the subsidy-free zone.

### Principle

8.2 a) ii) *Prices are to signal the economic costs of service provision, by having regard, to the extent practicable, to the level of available service capacity.*

8.3 a) iii) *Prices are to signal the economic costs of service provision, by signalling, to the extent practicable, the effect of additional usage on future investment costs.*

These two principles essentially reflect two sides of the same argument – both requiring that prices should look to the future and be based on long-run marginal costs. Prices should be higher where capacity is constrained, and investment is needed. Firstgas takes impact on future expenditure (either change in scope or timing) into account when calculating the Incremental Cost to ensure this principle is met.

For residential and small commercial connections, where the peak demand is low, no modelling is conducted in most cases as small organic growth is an underlying feature of utility networks. For larger loads, and substantial subdivisions, the impact on peak demand is assessed and reinforcement considerations are included in calculation of the incremental costs when required.

### Principle

8.4 b) *Where prices based on 'efficient' incremental costs would under-recover allowed revenues, the shortfall should be made up by setting prices in a manner that has regard to consumers' demand responsiveness, to the extent practicable.*

The level of capital contribution is likely to directly relate to the cost of the work, and therefore is unlikely to lead to under-recovery of allowed revenues.

### Principle

8.5 c) i) *Provided that prices satisfy (a) above, prices should be responsive to the requirements and circumstances of consumers in order to discourage uneconomic bypass.*

The main risk of bypass of the distribution network is large customers opting to use a bypass gas network or choosing an alternative energy source. Firstgas' practice is to offer non-standard pricing and individual account management to industrial and large commercial customers to address the risk of uneconomic bypass and to enable arrangements that are tailored to customers' needs. Firstgas' approach to non-standard pricing includes considering customers' individual capacity and demand to ensure, to the extent practicable, that the price is cost reflective. Given that the regulatory weighted average cost of capital (WACC) is significantly lower than most consumers' internal WACC requirements, it is expected that Firstgas will always be able to offer a more economical solution than bypassing the network.

### Principle

8.6 c) ii) *Provided that prices satisfy (a) above, prices should be responsive to the requirements and circumstances of consumers in order to allow for negotiation to better reflect the economic value of services and enable consumers to make price/quality trade-offs or non-standard arrangements for services.*

For non-standard customers, Firstgas can offer a service tailored to their requirements. Firstgas continues to consult with these customers through one-on-one liaison with key account managers, and may look to non-standard pricing, among several options, to meet the consumer's demands and needs.

## Appendix 1: Developer contributions

The remaining revenue from the average residential connections (NPV – Capex already assigned to service connections) can be assigned to the installation of mains pipes when subdivisions are reticulated. The cost of installing in common service trenches, as a development is constructed are substantially lower than retrofitting. We incentivise developers to include natural gas by minimising the contribution we seek.

When modelling subdivisions, we consider:

- Network area
- Expected uptake rates, including phasing over years
- Average usage per connection
- Construction methodology
- Whether laterals and ducts are available, and the viability of using these in the final install
- Average connection cost and
- Target revenue per residential connection.

Assumptions are made when modelling most subdivisions, based on the above criteria. However, when we can increase the accuracy of information we will do so. This may result in free contributions for developers.

A lower, or free contribution can be offered in a number of cases, including when:

- The developers are also completing the design and build phase, or can otherwise guarantee the minimum number of connections
- The area is known for higher than average uptake and/ or gas consumption
- The use of laterals or services installed as part of the initial reticulation
- There is potential for commercial or industrial users to connect to the network in the development.

Likewise, a higher than standard contribution may be sought where the development is seen to be low value, such as having lower than average uptake or gas consumption, or due to the methodology and network area to be covered.

If information of connection uptakes is unknown, we generally seek a minimum contribution based on assumed uptake, being the higher of:

- 10% of the project cost + GST
- \$1,500 + GST or
- Incremental Cost- Incremental Revenue, where the revenue included is limited to the amount not already assigned to service connections.

## **Appendix 2: Residential new connections**

There are a lot of factors that can influence the cost of connecting a new customer to our network. We have created our capital contribution in a way that means standard rates can be applied to most new connections. Some connections will provide more unique challenges or third-party costs that are outside of our control. In these cases, we may need to pass these costs on to the customer through a customer contribution.

Our policy is based on customers installing a minimum level of gas appliances. This amounts to natural gas-powered hot water **or** space heating, or the equivalent load across other uses. We encourage customers that are looking at installing less load to talk to us about their energy needs.

### **Standard connections**

New residential customers who plan to install gas water heating and/or gas central heating will usually qualify for at least 20 metres of service pipe connection from the gas main to the meter for free. This means no customer contribution is required.

Due to the lower cost of installing in a trench (place in trench or PIT), Firstgas offers longer connections for free when a compliant trench is provided. Currently this is 80 metres for mains-fronted homes who are installing gas hot water and/ or gas central heating.

Connections that require drilling or thrusting and are over 20 metres, or are PIT and longer than 80 metres, will require an increased capital investment and hence Firstgas seeks a customer contribution. For fully constructed services (drilled/thrusted) longer than 20 metres in length, a contribution of \$107 (GST inclusive) per metre is required to cover for the additional costs. PIT connections longer than 80 metres in length will be looked at on a case-by-case basis, as they may require network modelling and a more detailed design to accommodate for the length of service.

Not all homes are mains-fronted by gas, meaning we need to do more work to connect you. It may be that the closest gas is around the corner, or over the other side of the road. This will result in a non-standard connection that will need to go through the design and price process.

### **Non-standard connections**

Occasionally, the connection may be particularly difficult and/or expensive to install requiring a larger contribution from the customer. For example, having to run a service under the road, extend the main, have traffic management plans approved, get easements lodged, or reinstate speciality surface footpaths or reinstating road carriageways. In some instances, these additional requirements will lead to non-standard pricing, and some of the charges will be passed on to the customer. This may lead to connection costs being uneconomic for the customer compared to alternative fuel options.

Firstgas will still invest towards the cost of the connection and will model the customer contribution based on installed appliances and cost of works required.

In some instances, for access and safety reasons, we may only be able to run the service pipe to the property boundary.

### **Low users**

For customers not opting to install either gas hot water or gas central heating (or an equivalent load), the incremental revenue may be minimal and customer contribution required will closely reflect the incremental costs.

If you are not looking to install gas water heating or gas central heating, please contact us to discuss your energy requirements. There are many energy options and we aim to get the right solution for you. We can be contacted at [firstgas.co.nz](http://firstgas.co.nz), [connections@firstgas.co.nz](mailto:connections@firstgas.co.nz) or on 0800 FIRST GAS (0800 347 784).

### **Calculating your contribution:**

If you require more than 20 metres of service pipe to reach the compliant meter position on your house, Firstgas will calculate the cost through the following method:

#### **Equation:**

$$(\text{Total Cost}^* - \text{Average 20 metre Service Installation Cost}^{**}) + \text{GST} = \text{Customer Contribution}$$

\*Total cost includes all of our costs to install the gas main and service pipe, plus any non-standard costs. This is the sum of costs to us to complete the installation.

\*\*the average 20m service installation cost is about \$2,000. This means that for every connection we complete, we are giving the customer a \$2,000 dollar helping hand.

Please see the schedule below for our residential customer contributions<sup>3</sup>:

### **Residential new connections:**

<b>Mains Fronted: Full Construction</b>	
Less than 20 metres	Free
20 m+	\$107/m over 20m
<b>Place in Trench</b>	
Up to 80m	Free
80m+	Design and Price
<b>Mains extension / Road Crossing / Non-standard:</b>	
PIT or Full Construction inside boundary	Design and Price
<b>Low Users</b>	
PIT or Full Construction inside boundary	Design and Price

<sup>3</sup> These amounts are based on the minimal load of gas hot water or gas central heating

### Appendix 3: Commercial and industrial connections

All commercial connections are designed and priced to ensure the service and meter size are fit for purpose. The project cost is determined through this process.

The contribution amount is determined based on the incremental revenue from this user. Firstgas determines the relevant price code (see [Firstgas standard network prices](#)) based on the maximum installed capacity for the customer, and models the annual consumption with the network charges. In some cases, non-standard pricing will be developed for users that demonstrate special circumstances. Along with the development of these charges, the same basic equation is used to determine the customer contribution.

The minimum contribution is based on the following calculation:

**Equation:**

$$(\text{Total Cost} - \text{Incremental Revenue}) + \text{GST} = \text{Customer Contribution}$$

The lowest contribution will be sought. Where possible, a free connection will be offered, as the incremental revenue supports 100% of capital being invested by Firstgas.

## Appendix 4: Extensions, relocations and reinforcements for existing customers

This methodology is applied if you are an existing customer and need an extension, relocation or reinforcement of the network due to an increase in your gas demand.

Firstgas will calculate your contribution as follows:

### 1. Collect information and analyse impact on the network

A range of information needs to be collected for us to complete the analysis. This includes details around:

- The expected life of the asset
- The length of service pipe required
- If the network needs to be reinforced or extended
- The forecast annual consumption of the connection(s)
- If there will be any salvage value for equipment being reused and
- The expected life of the connection, which includes a risk assessment of the business.

### 2. Calculation of total cost of customer work

Based on the information we gather; Firstgas will determine the new assets required and calculate the cost of the works. The salvage value of any equipment will be deducted from this cost.

### 3. Firstgas contribution

Firstgas' investment towards the customer work is calculated based on the cost of the customer works and the forecast revenue from the connection and life of the project. If any incremental revenue is forecast to be generated by the new assets it will be subtracted from the cost of the customer works.

### 4. Customer contribution level

The customer contribution required is the amount of capital required that is not offset by the incremental revenue for the customer works.

#### Equation:

$$\text{Customer Contribution} = (\text{Total customer works cost} - \text{Firstgas Contribution}) + \text{GST}$$

In some cases, there will be no incremental revenue, and 100% of the customer works cost will be passed on to the end user as a customer contribution.

## Appendix 5: Residential relocations, reconnections and disconnections

Most residential disconnections, reconnections and relocations will have 100% of the costs passed through to the customer by their retailer.

### 1. Disconnections

We apply a standard charge for disconnections

- Polyethylene (PE) pipe disconnections are \$500 + GST
- Steel pipe disconnections are priced on application.

Firstgas promotes the safe use of gas by subsidising disconnections through our standard charges. Where a gas service is no longer needed, we prefer to have this cut off outside of the property boundary to reduce the risk of a third-party (whether that be the homeowner, tenant, or another contractor) striking an active gas line.

We will revise the cost of disconnections where the service will be reused at a later date, or if the section is being subdivided and new homes will be installing new gas connections. Talk to us about your plans so that we can correctly price any network action required.

### 2. Relocations and reconnections

We will pass on 100% of the costs for standard relocations and reconnections. Generally, there will be no incremental revenue associated with the relocation or reconnection work as revenue for the lifetime of the connection is considered when the gas connection was first established. In particular circumstances, we will consider the work going on to a property and may be able to contribute to some cost. For example if the relocation or reconnection is part of an upgrade or additional appliances or load is being added.

### 3. Upgrades

When adding new natural gas appliances to your home, speak to your retailer. Sometimes this additional load will mean either your gas service, meter, or both will need to be resized. If your service needs to be upgraded to allow for a larger gas load, we will model the cost of the work against the additional revenue, using the same type of calculation as appendix 2- new connections. We may be able to contribute up to the NPV of the work being done.

If you have a current gas connection and want any network action done- relocation, reconnection, upgrade or disconnection- talk to your energy retailer and they will facilitate this process for you. If you do not know who your gas retailer is, contact us and we will help you find out who your retailer is.

### Questions and concerns around the contribution amount

For all questions and concerns, get in touch with on 0800 FIRST GAS (0800 347 784), email [connections@firstgas.co.nz](mailto:connections@firstgas.co.nz), or visit <http://firstgas.co.nz/about-us/regulatory/distribution>. If you are already a gas user, you can also talk to your gas retailer.