



Guide to Customer Contributions and FortisAlberta Investment

Effective January 1, 2025

The line that connects us all

FORTIS
ALBERTA

TABLE OF CONTENTS

Introduction.....	3
1. Customer contributions.....	4
1.1. Customer Contributions	4
1.2. Optional Supply Facilities	4
1.3. Temporary Facilities	5
1.4. Early System Costs.....	5
1.5. Alberta Electric System Operator Contributions	5
2. FortisAlberta maximum investment levels	6
2.1. Maximum Investment Level When Investment Term is Less Than 15 Years.....	6
3. Customer contributions for new installations	8
3.1. Customer Contribution for Constant Load	8
3.2. Customer Contribution for Staged Load	9
4. Customer contribution payable for a reduction of contract minimum demand (Buy-Down) ..	10
4.1. Line Share	28
4.2. Prepaid Line Share for Expected Peak Demands Less Than 100 kW	28
4.3. Line Share Calculation for Expected Peak Demands of 100 kW or More	29

INTRODUCTION

This Guide to Customer Contributions and FortisAlberta Investment (the “Guide”) has been created to assist Customers in FortisAlberta’s service territory to understand the application of FortisAlberta’s Investment Level policy. The Investment Level policy has been approved by the Alberta Utilities Commission as set out in FortisAlberta’s Customer Contribution Schedules, available at <http://www.fortisalberta.com>.

The Guide is intended for Customers whose services have an energy Load of 75 kW and greater, and who generally sign an Electric Service Agreement with FortisAlberta. The Guide illustrates the application of the Investment Level policy and Customer Contributions under various scenarios, but does not, in any way, alter the Customer Terms and Conditions of Electric Distribution Service (the “Customer Terms and Conditions”), the Retailer Terms and Conditions of Electric Distribution Service (the “Retailer Terms and Conditions”), or any formal calculations provided by FortisAlberta.

The Guide does not apply to Rate 65 - Transmission Connected Service Customers who are subject to all provisions of the Alberta Electric System Operator’s tariff as it applies to FortisAlberta at the Point of Delivery to which the Customer’s Transmission Connected Service is connected.

The FortisAlberta Investment Level policy is designed to provide a reasonable level of investment to Customers to offset their cost of new or upgraded supply Facilities when new Load is added to the electric distribution system. This investment will be included with other costs of the electric distribution system and recovered through rates charged to all Customers. In some situations, the Customer will be required to make a Customer Contribution towards the cost of the supply Facilities.

The maximum Investment Level that FortisAlberta will provide is dependent upon the amount of the Customer’s Expected Peak Demand and the Investment Term. For Rate 63 Customers, the maximum Investment Level available is also partially determined by the length of dedicated line required to construct the service.

This Guide also illustrates situations where, after an investment has been made, there is a change in the Expected Peak Demand of a Customer’s service, requiring a review of the Customer’s original Customer Contribution. Similarly, another Customer may subsequently connect to a Facility, and the original Customer may be eligible for a reduction in Customer Contribution through line sharing.

The Guide illustrates the application of the FortisAlberta maximum Investment Level policy in each of these situations with examples. A formal request must still be made by the Customer to FortisAlberta for any changes in the Expected Peak Demand of a service.

Updates to the Guide may be introduced from time-to-time to align with the changing Alberta electric industry environment and FortisAlberta’s business practices, as well as changes to FortisAlberta’s Customer and Retailer Terms and Conditions, as approved by the Alberta Utilities Commission. The Guide and subsequent updates will be posted at <http://www.fortisalberta.com>.

1. CUSTOMER CONTRIBUTIONS

FortisAlberta's Investment Level policy is designed to provide a reasonable Investment Level to Customers, to offset some or all of their cost of new or upgraded supply Facilities when new Load is added to the electric distribution system. In some situations, the Customer will be required to make a Customer Contribution towards the cost of the supply Facilities.

A Customer Contribution to FortisAlberta may be comprised of one or more of the following:

- a Customer Distribution Contribution towards the cost of Standard Service,
- the cost of Optional Supply Facilities, including prepaid Operation and Maintenance,
- a Temporary Facilities Charge,
- an Early System Cost, and
- a Customer Transmission Contribution charged by the Alberta Electric System Operator.

An additional Customer Contribution may also arise from a reduction of the Contract Minimum Demand or the Permanent Disconnection (salvage) of the service, and may be accompanied by any *Payment in Lieu of Notice* charge associated with a reduction of Contract Minimum Demand or the salvage.

Although the Customer may pay a Customer Contribution, FortisAlberta retains ownership of and responsibility for all Facilities on the FortisAlberta side of the Point of Service. The Customer pays the Customer Contribution before FortisAlberta begins design, ordering and construction unless other arrangements are made with, and to the satisfaction of, FortisAlberta.

1.1. Customer Contributions

FortisAlberta invests only in Standard Service, and the Investment Level for a Customer depends upon both the Expected Peak Demand and the Investment Term sufficient to cover the construction cost (up to the maximum Investment Level, based on a 15 year Investment Term). When the construction cost is greater than FortisAlberta's maximum Investment Level available, the Customer pays a Customer Contribution. The Customer Contribution is calculated by subtracting the amount FortisAlberta will invest in the new service from the construction cost.

The FortisAlberta investment is made with the expectation of a certain level of revenue every year for the duration of the Investment Term. A Contract Minimum Demand and Investment Term are specified in the Electric Service Agreement, consistent with the expected revenue. The Contract Minimum Demand is two-thirds of the Expected Peak Demand. The Distribution Minimum Charge and the Transmission Minimum Charge (if applicable) are noted in FortisAlberta's Rates, Options and Riders Schedules, available at <http://www.fortisalberta.com>.

1.2. Optional Supply Facilities

If the Customer requests Facilities that FortisAlberta deems to be different from or in excess of the Standard Service or are expected to cause increased operation and maintenance expenses to FortisAlberta based on the Expected Peak Demand, the Customer is charged the cost of the additional

or *Optional Supply Facilities*, plus a prepaid operation and maintenance cost, generally as a non-refundable contribution. If the Optional Supply Facilities are deemed by FortisAlberta to be Standard Service within 10 years of the payment, the Optional Supply Facilities charge may be refunded.

1.3. Temporary Facilities

FortisAlberta does not invest in Facilities that will be in place for less than two years, but charges the Customer a non-refundable *Temporary Facilities Charge*, equal to the cost of constructing and dismantling the Facilities, less the value of the salvageable material.

1.4. Early System Costs

If, in providing Standard Service to a Customer, FortisAlberta must build or upgrade portions of the Electric Distribution System, generally, in accordance with FortisAlberta's Load growth plans, the costs will be deemed system costs and not charged to the new Customer. However, if the upgrade is required earlier than planned, the Customer is charged the carrying costs on the advancement of system expenditures; these are referred to as *Early System Costs*. Moreover, if the upgrade is determined to be for the sole use of the new Customer, all the costs will be assigned to that Customer, in addition to the dedicated Facilities costs. Many factors are considered before system upgrade costs are assigned to a Customer, including area Load forecasts, financial impacts on the rate base, and the technical integrity of the Electric Distribution System.

1.5. Alberta Electric System Operator Contributions

When entering into contracts with the Alberta Electric System Operator in respect of a transmission Point of Delivery providing System Access Service to a Customer or Customers, FortisAlberta may incur costs if the transmission Facilities are for temporary Loads, Optional Transmission Facilities or transmission Facilities in excess of what FortisAlberta would otherwise request, arrange for, or be provided from the Alberta Electric System Operator.

FortisAlberta will review each transmission extension application, in consultations with the Alberta Electric System Operator, Transmission Facility Operator and Customer, on a case-by-case basis. Any refunds of contributions received by FortisAlberta from the Alberta Electric System Operator may be passed on to those Customers to whom the contributions can be attributed.

2. FORTISALBERTA MAXIMUM INVESTMENT LEVELS

The following table shows two examples of the maximum Investment Level FortisAlberta makes in a new service, as provided in Table 1 of FortisAlberta’s Customer Contribution Schedules:

Type of Service	2025 Maximum Investment Level
General Service Rate 61	\$6,642, plus \$1,057 per kW for the first 150 kW, plus \$132 per kW for additional kW of Peak Demand
Large General Service Rate 63 (Distribution Connected)	\$119 per kW of Peak Demand, plus \$131 per metre of Customer Extension

2.1. Maximum Investment Level When Investment Term is Less Than 15 Years

The Investment Level is established by FortisAlberta based on the lesser of:

- (i) the viable technical life of the Facilities provided by FortisAlberta,
- (ii) the economic life of the Customer’s operation, and
- (iii) the minimum Investment Term, where applicable, that will provide an investment amount sufficient to cover the full construction cost of the Customer’s service.

If the lesser of these is less than 15 years, the FortisAlberta Investment Term is reduced according to the following table on page 7 (excerpt from the Customer Contribution Schedule - Table 2).

For Facilities that will be in place for less than two years, the Customer will pay a non-refundable Temporary Facilities Charge comprised of:

- (i) the cost of constructing and dismantling the Facilities, and
- (ii) less the value of the salvageable material.

In the event that the allowable investment exceeds the Customer construction costs, the excess amount is not available to the same or another Customer to apply for another service.

In addition, for a larger Customer whose temporary Load has a material impact at the transmission Point of Delivery, FortisAlberta may charge an amount equal to the present value of the Alberta Electric System Operator’s ratcheted transmission charges, associated with the Expected Peak Demand, to FortisAlberta.

Table 2 – FortisAlberta Customer Contribution Schedule (Excerpt)

Investment Term	Service Life Factor	General Service Rate 61			Large General Service Rate 63	
		Base Investment	Base Investment plus the First 150 kW of Peak Demand	Additional kW of Peak Demand over 150kW	kW of Peak Demand	Metre of Customer Extension
Years	%	\$ per kW	\$ per kW	\$ per kW	\$ per kW	\$ per m
1	0.00%	\$0	\$0	\$0	\$0	\$0
2	19.05%	\$1,265	\$201	\$25	\$23	\$25
3	27.75%	\$1,843	\$293	\$37	\$33	\$36
4	35.95%	\$2,388	\$380	\$47	\$43	\$47
5	43.67%	\$2,901	\$462	\$58	\$52	\$57
6	50.94%	\$3,383	\$538	\$67	\$61	\$67
7	57.79%	\$3,838	\$611	\$76	\$69	\$76
8	64.23%	\$4,266	\$679	\$85	\$76	\$84
9	70.31%	\$4,670	\$743	\$93	\$84	\$92
10	76.03%	\$5,050	\$804	\$100	\$90	\$100
11	81.41%	\$5,407	\$861	\$107	\$97	\$107
12	86.49%	\$5,744	\$914	\$114	\$103	\$113
13	91.26%	\$6,062	\$965	\$120	\$109	\$120
14	95.76%	\$6,361	\$1,012	\$126	\$114	\$125
15 or more	100.00%	\$6,642	\$1,057	\$132	\$119	\$131

3. CUSTOMER CONTRIBUTIONS FOR NEW INSTALLATIONS

FortisAlberta invests in Standard Services, in an amount reflecting both the Expected Peak Demand and an Investment Term established by FortisAlberta. When the construction cost is greater than FortisAlberta's maximum Investment Level, the Customer pays a Customer Contribution calculated as the difference between the construction cost and FortisAlberta's available investment.

FortisAlberta does not invest in Optional Supply Facilities or Temporary Services.

3.1. Customer Contribution for New Load

Example A - Rate 61 General Service with Optional Facilities where the Expected Peak Demand is 2,000 kW or less

An Expected Peak Demand of 300 kW with some Optional Facilities:

FortisAlberta Maximum Investment Level based on 15 year Investment Term	=	150 kW	x	\$1,057 per kW	
			+	150 kW	x \$132 per kW
Base Investment			+	\$6,642	
Total Investment Available					= \$184,992
Construction Cost of Standard Service	=	\$250,000			
Construction Cost of Optional Facilities	=	\$25,000			
Customer Contribution for Standard Service	=	\$250,000	-	\$184,992	= \$65,008
Customer Contribution for Optional Facilities	=	\$25,000	+	20% O&M	= <u>\$30,000</u>
Total Customer Contribution					\$95,008

Example B - Rate 63 Large General Service with an Expected Peak Demand Greater Than 2,000 kW

An Expected Peak Demand of 3,000 kW with no Optional Supply Facilities and a Customer Extension of 800 metres:

FortisAlberta Maximum Investment Level based on 15 year Investment Term	=	3,000 kW	x	\$119 per kW	
Metres of Customer Extension	+	800 m	x	\$131 per m	
Total Investment Available					= \$461,800
Construction Cost of Standard Service	=	\$500,000			
Construction Cost of Optional Facilities	=	none			
Customer Contribution for Standard Service	=	\$500,000	-	\$461,800	= \$38,200
Customer Contribution for Optional Facilities					= none
Total Customer Contribution					\$38,200

3.2. Customer Contribution for Staged Load

When a Customer plans a staged Load, where the Load will increase or decrease within two years after the initial Load is connected, FortisAlberta calculates its total investment based on each distinct portion of the Load, as per Table 2 of the Customer Contributions Schedule. Load increases beyond two years are not predictable for contract staging purposes and will be administered as per the Customer Terms and Conditions clause 7.3.2 *Impact of Changes on a Customer's Electric Service Agreement*. A service can only be staged within the rate class that the service was built for.

Example C - Rate 61 General Service with Increase of Load

An Expected Peak Demand of 200 kW initially connects for a period of 6 months, increases to 600 kW for the next 6 months and at 1 year, the total Expected Peak Demand connected is 1000 kW. FortisAlberta's Investment Level would be as follows in this example: 200 kW for 10 years, 400 kW for 9 ½ years (rounded up to 10 years) and 400 kW for the remaining 9 years:

FortisAlberta Maximum Investment Level

Initial load @ 200 kW with a 10 year Investment Term	=	150 kW	x	\$804 per kW
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Guide to Customer Contributions and FortisAlberta Investment

	+ 50 kW	x	\$100 per kW		
Base Investment	+ \$5,050				
Investment Available				=	\$130,650
@ 400 kW with a 10 year Investment Term (rounded up from 9 ½ years)	400 kW	x	\$100 per kW	=	\$40,000
@ 400 kW with a 9 year Investment Term	400 kW	x	\$93 per kW	=	<u>\$37,200</u>
Total Investment Available				=	\$207,850
Construction Cost of Standard Service	= \$230,000				
Construction Cost of Optional Facilities	= none				
Customer Contribution for Standard Service	= \$230,000	–	\$207,850	=	\$22,150
Customer Contribution for Optional Facilities				=	none
Total Customer Contribution				=	\$22,150

4. CUSTOMER CONTRIBUTION PAYABLE FOR A REDUCTION OF CONTRACT MINIMUM DEMAND (BUY- DOWN CHARGE AND NOTICE)

The basis for the minimum monthly charges for a service is either specified in the Electric Service Agreement, the Minimum Demand of a rate tariff or a Contract Minimum Demand calculated as two-thirds of the Expected Peak Demand. If a Customer's Expected Peak Demand has decreased, the Customer may find the Contract Minimum Demand is being billed every month. The Customer may elect to reduce the Contract Minimum Demand, in which case the FortisAlberta maximum Investment Level is reduced and the Customer may be required to pay an additional Customer Contribution. This is referred to as the "Buy-Down Charge".

A Customer is required to give one month's notice for every 30 kW reduction to the Customer's Contract Minimum Demand. If the Customer wishes to reduce the Contract Minimum Demand before the required notice period, a Payment in Lieu of Notice is required. The notice period commences upon the Customer's written acceptance and payment of additional Customer Contribution if applicable.

The Payment in Lieu of Notice is calculated as the difference between the Minimum Charge based on the original Contract Minimum Demand and the Minimum Charge based on the reduced new Contract

Effective January 1, 2025

Minimum Demand, multiplied by the number of months for the required notice period.

The Investment Term is further reduced by the sum of the notice period required for transmission (up to 60 months) and the actual notice provided, regardless of whether the Customer gives notice or chooses to make a Payment in Lieu of Notice.

With respect to the transmission component of FortisAlberta's Distribution Tariff charges, the number of months used to calculate the Customer's Payment in Lieu of Notice is limited to 60 months. For calculation purposes, FortisAlberta will round the number of months required for notice to the closest whole year.

If the Customer chooses to make a Payment in Lieu of Notice instead of providing the required notice period, the demand ratchet history will be reduced for billing purposes. The billing demand is set at the new Contract Minimum Demand or the Rate Minimum upon the Customer's written acceptance and payment of additional Customer Contribution if applicable.

Note that for Large General Service - Rate 63 Customers, the Contract Kilometres portion of the bill is included in the Payment in Lieu of Notice calculation. The Contract Kilometres is the length of distribution line from the substation (Point of Delivery) to the Customer's meter (Point of Service). However, it impacts the Payment in Lieu of Notice only if the Customer reduces the Expected Peak Demand to the point where the service belongs to another rate class which does not include a monthly Contract Kilometres charge.

Note: Effective January 1, 2022, the Payment in Lieu of Notice no longer applies for the Distribution component of the tariff.

Example D - Rate 61 General Service with a Decrease of Contract Minimum Demand

In this example, the Customer's service is on Rate 61 – General Service and FortisAlberta originally invested in an Expected Peak Demand of 300 kW based on an Investment Term of 15 years. The Expected Peak Demand is decreased to 125 kW. The Customer's service will remain on Rate 61 General Service:

FortisAlberta Maximum Investment Level based on a 15 year Investment Term	=	150 kW	x	\$1,057 per kW	
Base Investment	+	150 kW	x	\$132 per kW	
		+	\$6,642		
Total Investment Available					= \$184,992

When the Expected Peak Demand decreases to 125 kW, the Customer will continue to be billed on the Contract Minimum Demand of 200 kW (two-thirds of the original Expected Peak Demand of 300 kW). The Customer may request a reduction of the Contract Minimum Demand, at which time FortisAlberta will

Guide to Customer Contributions and FortisAlberta Investment

evaluate the unrecovered investment due to the decrease in the Expected Peak Demand, and an additional Customer Contribution may be required.

The unrecovered investment at the end of year 5, in this example, would reflect:

- the 175 kW decreased from the original 300 kW Expected Peak Demand for years six thru 15 to the new Expected Peak Demand level of 125 kW; and
- the remaining period of 10 years for which the Expected Peak Demand did not meet the criteria on which the original investment was based.

At the end of year 5, the investment amount for the remaining 10 years would be decreased to \$783/kW for the first 25 kW and \$97/kW for the remaining 150 kW of the 175 kW decreased in Expected Peak Demand (See Rate 61 - General Service investment amounts for an Investment Term life of 10 years in the Investment Table in Section 3.1):

FortisAlberta un-recovered Investment for 175 kW based on 10 year Investment Term	=	25 kW	x	\$804 per kW	
			+	150 kW	x
				\$100 per kW	
 Total Investment Un-recovered					 = \$35,100

The Customer Contribution for the original 300 kW load

FortisAlberta Maximum Investment Level based on a 15 year Investment Term	=	\$184,992
Construction Cost of Standard Service	=	<u>\$230,000</u>
Customer Contribution	=	\$45,008

Additional Customer Contribution for Expected Peak Demand reduction (end of year 5)

Un-recovered Investment (above)	=	\$35,100
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Therefore:

Additional Customer Contribution	=	\$35,100
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In addition, if the appropriate notice is **not** provided, FortisAlberta will also require a Payment in Lieu of Notice as described above and illustrated in the following examples.

Guide to Customer Contributions and FortisAlberta Investment

Construction Cost of Standard Service	=	\$1,200,000	
Construction Cost of Optional Facilities	=	none	
Customer Contribution for Standard Service	=	\$1,200,000 – \$1,119,000	= \$81,000
Customer Contribution for Optional Facilities	=	none	
Total Customer Contribution			\$81,000

NEW SCENARIO

At the end of year 5, due to the decrease in the Customer's Expected Peak Demand to 3,000 kW and as a result of the bill being based on the existing Contract Minimum Demand of 3,333 kW, the Customer chooses to reduce the Contract Minimum Demand from an Expected Peak Demand from 5,000 kW to 3,000 kW. That is, the Customer requests a buy-down of the Contract Minimum Demand to reflect the new Expected Peak Demand levels. The new Expected Peak Demand and minimum monthly charges would be as follows:

New Expected Peak Demand (3,000 kW) New Contract Minimum Demand (2,000kW)

	Units	Transmission Component	Units	Transmission Component
Service Charge	30.4167 days		30.4167 days	
Demand (/kW/day)	3,000 kW	\$0.178654	2,000 kW	\$0.178654
Distance (/km/day)	6 km		6 km	
Non-Energy Charges for 30 days		\$16,302.18		\$10,868.12

FortisAlberta reviews the amount of investment that will not be recovered due to the reduction in Expected Peak Demand. In this example, the Investment Term for the New Expected Peak Demand of 3,000 kW has been decreased to 10 years from the original Investment Term of 15 years. The additional Customer Contribution required is calculated as follows:

$$\text{Un-recovered Investment based on 2,000 kW with an Investment term of 10 years} = 2,000 \text{ kW} \times \$90 \text{ per kW} = \$180,000$$

Therefore:

$$\text{Buy-Down Charge} = \$180,000$$

Effective January 1, 2025

Guide to Customer Contributions and FortisAlberta Investment

FortisAlberta also reviews the notice given by the Customer for the reduction in Contract Minimum Demand to 2,000 kW. In this example, the required notice period is 44 months, determined as follows:

$$\begin{array}{lclclcl} \text{Reduction to Contract Minimum Demand} & = & 3,333 & - & 2,000 & = & 1,333 \text{ kW} \\ & & \text{kW} & & \text{kW} & & \\ \\ \text{Notice Period} & = & 1,333 & \div & 30 \text{ kW} & = & 44 \text{ months (60 maximum)} \\ & & \text{kW} & & & & \end{array}$$

If the Customer gives 44 months' notice, no Payment in Lieu of Notice is required by FortisAlberta. However, if the Customer chooses for an immediate reduction in the Contract Minimum Demand, the Payment in Lieu of Notice would be calculated as follows:

$$\begin{array}{lclclcl} \text{Payment in Lieu of Notice (Distribution Component)} & = & 24 & \times & (\$0 & - & \$0 &) & = & \$ 0.00 \\ \\ \text{Payment in Lieu of Notice (Transmission Component)} & = & 44 & \times & (\$18,111.72 & - & \$10,868.12 &) & = & \underline{\$318,718.40} \\ \\ \text{Total Payment in Lieu of Notice} & & & & & & & & & \mathbf{\$318,718.40} \end{array}$$

Note: Effective January 1, 2022, the Payment in Lieu of Notice no longer applies for the distribution component of the tariff.

Customer Contribution Required

In this example, the total Buy-Down Charge will differ depending on whether the Customer chooses to give the required notice or to implement the reduction to the Contract Minimum Demand immediately (i.e., at the end of year 5). The following shows the Customer Contribution at the end of year 5, where there is a reduction to the Contract Minimum Demand, and **with** the required notice given by the Customer:

$$\begin{array}{lcl} \text{Buy-Down Charge} & = & \$ 180,000 \\ \text{Add: Payment In Lieu of Notice} & = & \underline{\$ 0} \\ \text{Customer Contribution} & = & \$ 180,000 \end{array}$$

The Customer contribution, at the end of year 5, for a reduction to the Contract Minimum Demand, **without** the required notice given by the Customer:

$$\begin{array}{lcl} \text{Buy-Down Charge} & = & \$180,000.00 \\ \text{Add: Payment In Lieu of Notice} & = & \underline{\$318,718.40} \\ \text{Total Customer Contribution} & = & \mathbf{\$498,718.40} \end{array}$$

Effective January 1, 2025

Example F - Rate 63 Large General Service moves to Rate 61 General Service due to a Decrease of Contract Minimum Demand

A similar Customer to that in Example E is consistently below their Expected Peak Demand of 2,000 kW at the end of year 5. The Customer chooses to decrease the Contract Minimum Demand based on a reduced Expected Peak Demand of 1,000 kW, which would move the service onto Rate 61 General Service. The monthly charges will subsequently be based on the Rate 61 - General Service rate sheet, either after the notice period has expired or immediately upon paying the Payment in Lieu of Notice:

Original Expected Peak Demand (5,000 kW) Original Contract Minimum Demand (3,333kW)

	Units	Transmission Component	Units	Transmission Component
Service Charge	30.4167 days		30.4167 days	
Demand (/kW/day)	5,000 kW	\$0.178654	3,333 kW	\$0.178654
Distance (/km/day)	6 km		6 km	
Non-Energy Charges for 30 days		\$27,170.30		\$18,111.72

New Expected Peak Demand (1,000 kW) New Contract Minimum Demand (667kW)

	Units	Transmission Component	Units	Transmission Component	Distribution Component
Demand (/kW/day)	1000 kW	\$0.134525	667kW	\$0.134525	
Non-Energy Charges for 30 days		\$4,091.80		\$2,729.23	

FortisAlberta reviews the impact on investment recovery resulting from the reduction in Expected Peak Demand and the move to a different rate class. In this example, the Investment Term for the Expected Peak Demand of 1,000 kW has been decreased to 10 years.

FortisAlberta originally invested according to the Investment Level and structure applicable to Customers served under Rate 63. However, the investment should now reflect the move to Rate 61. FortisAlberta must

Effective January 1, 2025

Guide to Customer Contributions and FortisAlberta Investment

determine the difference between the amount that was originally invested at the Expected Peak Demand under Rate 63, and that which would have been invested at the decreased new Expected Peak Demand under Rate 61, with an adjustment for the number of years the service has been in place to date. The additional Customer Contribution required is calculated as follows:

Maximum Investment Term at Rate 63 with 15 year Investment Term	=	5,000 kW	x	\$119 per kW	
Metres of Customer Extension	+	4,000 m	x	\$131 per m	
Total Investment Available					= \$1,119,000
Construction Cost of Standard Service					= <u>\$1,200,000</u>
Original Customer Contribution under Rate 63					= \$81,000
Prorated Using Service Life Factor			x	76.03%	
Original Customer Contribution under Rate 63					= \$61,584
Maximum Investment at Rate 61 with 10 year Investment Term	=	150 kW	x	\$804 per kW	
		+	850 kW	x	\$100 per kW
Base Investment	+	\$5,050			
Total Investment Available					= \$210,650
Construction Cost of Standard Service	=	\$1,200,000			
Prorated Using Service Life Factor (from above)	x	76.03%			= <u>\$912,360</u>
Calculated Customer Contribution at Rate 61					= \$701,710
Buy-Down Charge	=	\$701,710	-	\$61,584	= \$640,126
Reduction to Contract Minimum Demand	=	3,333 kW	-	667 kW	= 2,666 kW
Notice Period (60 Months Maximum)	=	2,666 kW	÷	30 kW	= 60 months
..					
Payment in Lieu of Notice (Distribution Component)	=	24	x	(\$0 - \$0)	= \$ 0.00
Payment in Lieu of Notice (Transmission Component)	=	60	x	(\$18,111.72 - \$2,729.23)	= <u>\$922,949.40</u>
Total Payment in Lieu of Notice					\$922,949.40

Effective January 1, 2025

Note: Effective January 1, 2022, the Payment in Lieu of Notice no longer applies for the Distribution component of the tariff.

Customer Contribution Required

In this example, the Customer Contribution charge will differ depending on whether the Customer chooses to give the required notice or to implement the reduction to Contract Minimum Demand immediately (i.e., at the end of year 5).

The Customer Contribution, at the end of year 5, for a reduction to Contract Minimum Demand, **with** the required notice given by the Customer:

Buy-Down Charge = \$640,126
 Therefore:
 Customer Contribution = \$640,126

The Customer Contribution, at the end of year 5, for a reduction to Contract Minimum Demand, **without** the required notice given by the Customer:

Buy-Down Charge = \$640,126.00
 Add: Payment In Lieu of Notice = \$922,949.40
 Total Customer Contribution = **\$1,563,075.40**

Example G - Rate 63 Large General Service moves to Rate 41 Small General Service due to a Decrease of Contract Minimum Demand

A similar Customer to that in Example F, at the end of year 5, is consistently below the 75 kW of Expected Peak Demand. The Customer chooses to decrease their Contract Minimum Demand based on a New Expected Peak Demand of 50 kW, which would move the service onto Rate 41 - Small General Service. The monthly charges will subsequently be based on the Rate 41 - Small General Service rate sheet, either after the Notice Period has expired or immediately upon paying an additional Customer Contribution:

Original Expected Peak Demand (5,000 kW) Original Contract Minimum Demand (3,333kW)

	Units	Transmission Component	Units	Transmission Component
Service Charge	30.4167 days		30.4167 days	
Demand (/kW/day)	5,000 kW	\$0.178654	3,333 kW	\$0.178654

Effective January 1, 2025

Guide to Customer Contributions and FortisAlberta Investment

Distance (/km/day)	6 km		6 km	
Non-Energy Charges for 30 days		\$27,170.30		\$18,111.72

New Expected Peak Demand (50 kW)

New Contract Minimum Demand (33.3kW)

	Units	Transmission Component	Units	Transmission Component
Demand (/km/day)	50 kW	\$0.112439	33.3 kW	\$0.112439
Non-Energy Charges for 30 days		\$ 171.00		\$ 113.89

FortisAlberta reviews the impact on investment recovery resulting from the reduction in Expected Peak Demand and move to a different rate class. In this example, the Investment Term for the New Expected Peak Demand of 50 kW has been decreased to 10 years.

FortisAlberta originally invested according to the Investment Level and structure applicable to Rate 63 Customers. However, the investment should now reflect the move to Rate 41. FortisAlberta must determine the difference between the amount that was originally invested at the Rate 63 Expected Peak Demand, and that which would have been invested at the Rate 41 Expected Peak Demand, with an adjustment for the number of years the service has been in place to date. The additional Customer Contribution required is calculated as follows:

Maximum Investment at Rate 63 Expected Peak Demand based on 15 year Investment Term	=	5,000 kW	x	\$119 per kW	
Metres of Customer Extension	+	4,000 m	x	\$131 per m	
Total Investment					= \$1,119,000
Construction Cost of Standard Service					= <u>\$1,200,000</u>
Original Customer Contribution at Rate 63 Expected Peak Demand					= \$81,000
Prorated Using Service Life Factor			x	76.03%	
Adjusted Original Customer Contribution at Rate 63					= \$61,584

Effective January 1, 2025

Guide to Customer Contributions and FortisAlberta Investment

Maximum Investment at Rate 41 Expected Peak Demand based on 10 year Investment Term	=	50 kW	x	\$804 per kW	
Base Investment	+	\$5,050			
Total Investment					= \$45,250
Adjusted Construction Cost of Standard Service	=	\$1,200,000			
Prorated Using Service Life Factor (from above)	x	76.03%			= \$912,360
Adjusted Calculated Customer Contribution at Rate 41 Expected Peak Demand					= \$867,110
Buy-Down Charge	=	\$867,110	–	\$61,584	= \$805,526
Reduction to Contract Minimum Demand	=	3,333 kW	–	33.3 kW	= 3,300 kW
Notice Period (60 Months Maximum) ¹	=	3,300 kW	÷	30 kW	= 60 months
Payment in Lieu of Notice (Distribution Component)	=	24	x	(\$0 – \$0)	= \$ 0.00
Payment in Lieu of Notice (Transmission Component)	=	60	x	(\$18,111.72 – \$ 113.89)	= <u>\$1,079,869.80</u>
Total Payment in Lieu of Notice					\$1,079,869.80

Note: Effective January 1, 2022, the Payment in Lieu of Notice no longer applies for the Distribution component of the tariff.

Customer Contribution

In this example, the total Buy-Down Charge will differ depending on whether the Customer chooses to give the required notice or to implement the reduction to Expected Peak Demand immediately (i.e., at the end of year 5).

The following shows the total Buy-Down Charge at the end of year 5 for a reduction to Expected Peak Demand, **with** the required notice of 60 months given by the Customer:

Buy-Down Charge = \$805,526

Therefore:

Total Buy-Down Charge = \$805,526

Total Buy-Down Charge, at the end of year 5, for a reduction to Expected Peak Demand, **without** the

Effective January 1, 2025

Guide to Customer Contributions and FortisAlberta Investment

required notice given by the Customer:

Buy-Down Charge	=	\$805,526.00
Add: Payment In Lieu of Notice	=	<u>\$1,079,869.80</u>
Total Customer Contribution	=	\$1,885,395.80

Effective January 1, 2025

Example H - Rate 61 General Service moves to Rate 41 Small General Service due to a Decrease of Contract Minimum Demand

In this example, FortisAlberta originally invests in an Expected Peak Demand of 100 kW based on an Investment Term of 15 years. At the end of year 6, the Customer chooses to decrease the Contract Minimum Demand based on a New Expected Peak Demand of 50 kW, which would move the service onto FortisAlberta’s Rate 41 - Small General Service. The monthly charges will subsequently be based on the Rate 41 - Small General Service rate sheet, either after the Notice Period has expired or immediately upon making the Payment in Lieu of Notice.

Original Expected Peak Demand (100 kW) Original Contract Minimum Demand (67 kW)

	Units	Transmission Component	Units	Transmission Component
Demand (/kW/day)	100 kW	\$0.134525	67 kW	\$0.134525
Non-Energy Charges for 30 days		\$ 409.18		\$ 274.15

New Expected Peak Demand (50 kW) New Contract Minimum Demand (33.3 kW)

	Units	Transmission Component	Units	Transmission Component
Demand (/km/day)	50 kW	\$0.112439	33.3 kW	\$0.112439
Non-Energy Charges for 30 days		\$ 171.00		\$ 113.89

FortisAlberta reviews the impact on investment recovery resulting from the decrease in Expected Peak Demand and move to a different rate class. In this example, the Investment Term has been re-calculated at 10 years for the reduced Expected Peak Demand. As well, FortisAlberta originally invested according to the Investment Level and structure applicable to Rate 61 Customers. However, the investment should now reflect the move to Rate 41.

Effective January 1, 2025

Guide to Customer Contributions and FortisAlberta Investment

FortisAlberta must determine the difference between the amount that was originally invested at the Rate 61 Expected Peak Demand, and that which would have been invested at the Rate 41 Expected Peak Demand, with an adjustment for the number of years the service has been in service. The additional Customer Contribution required in this example is calculated as follows:

Maximum Investment at Original Expected Peak Demand (Rate 61)	=	100 kW	x	\$1,057 per kW	
Base Investment	+	\$6,642			
Total Investment					= \$112,342
Construction Cost of Standard Service					= <u>\$120,000</u>
Original Customer Contribution at Original Expected Peak Demand					= \$7,658
Prorated Using Service Life Factor			x	76.03%	
Adjusted Customer Contribution at Original Expected Peak Demand					= \$5,822
Maximum Investment at New Expected Peak Demand (Rate 41)	=	50 kW	x	\$804 per kW	
Base Investment	+	\$5,050			
Total Investment					= \$45,250
Adjusted Construction Cost of Standard Service	=	\$120,000			
Prorated Using Service Life Factor (from above)	x	76.03%			= \$91,236
Adjusted Calculated Customer Contribution at New Expected Peak Demand					= \$45,986
Buy-Down Charge	=	\$45,986	–	\$5,822	= \$40,164¹
Reduction to Contract Minimum Demand	=	67 kW	–	33.3 kW	= 34 kW
Notice Period (60 Months Maximum)	=	34 kW	÷	30 kW	= 1 month
Payment in Lieu of Notice (Distribution Component)	=	1	x	(\$ 0 – \$ 0)	= \$ 0.00

Effective January 1, 2025

Guide to Customer Contributions and FortisAlberta Investment

$$\begin{aligned} \text{Reduction to Contract Minimum Demand} &= 67 \text{ kW} - 33.3 \text{ kW} = 34 \text{ kW} \\ \text{Notice Period (60 Months Maximum)} &= 34 \text{ kW} \div 30 \text{ kW} = 1 \text{ month} \end{aligned}$$

$$\text{Payment in Lieu of Notice (Distribution Component)} = 1 \times (\$ 0 - \$ 0) = \$ 0.00$$

$$\text{Payment in Lieu of Notice (Transmission Component)} = 1 \times (\$ 274.15 - \$ 113.89) = \underline{\$ 160.26}$$

Total Payment in Lieu of Notice **\$ 160.26²**

Note: Effective January 1, 2022, the Payment in Lieu of Notice no longer applies for the Distribution component of the tariff.

Customer Contribution

In this example, the total Customer Contribution will differ depending on whether the Customer chooses to give the required notice or to implement the reduction to Expected Peak Demand immediately (i.e., at the end of year 5).

The following shows the total Customer Contribution at the end of year 5 for a reduction to Expected Peak Demand, **with** the required notice given by the Customer:

$$\text{Buy-Down Charge} = \$40,164.00^1$$

Therefore:

$$\text{Customer Contribution} = \$40,164.00$$

Total Buy-Down Charge, at the end of year 5, for a reduction to Expected Peak Demand, **without** the required notice given by the Customer:

$$\text{Buy-Down Charge} = \$40,164.00^1$$

$$\text{Add: Payment In Lieu of Notice} = \underline{\$ 160.26^2}$$

$$\text{Total Customer Contribution} = \underline{\underline{\$40,324.26}}$$

Effective January 1, 2025

Example I - Permanent Disconnection of Electric Service (Salvage)

In this example, a similar Customer to that in Example F has, at the end of year 5, no Load and chooses to terminate the Electric Service Agreement with FortisAlberta and effectively buy down the Contract Minimum Demand to zero. The physical Facilities will be salvaged.

Original Expected Peak Demand (5,000 kW) Original Contract Minimum Demand (3,333kW)

	Units	Transmission Component	Units	Transmission Component
Service Charge	30.4167 days		30.4167 days	
Demand (/kW/day)	5,000 kW	\$0.178654	3,333 kW	\$0.178654
Distance (/km/day)	6 km		6 km	
Non-Energy Charges for 30 days		\$27,170.30		\$18,111.72

New Expected Peak Demand (0 kW) New Contract Minimum Demand (0kW)

	Units	Transmission Component	Units	Transmission Component
Service Charge				
Demand (/kW/day)	0 kW	\$0.178654	0 kW	\$0.178654
Distance (/km/day)	0 km		0 km	
Non-Energy Charges for 30 days		\$ 0.00		\$ 0.00

Guide to Customer Contributions and FortisAlberta Investment

FortisAlberta reviews the amount of investment that will not be recovered due to the decrease in Expected Peak Demand to zero. In this example, the Investment Term has been re-calculated at 5 years for the decreased Expected Peak Demand. The additional Customer Contribution required is calculated as follows based on the 10 year Investment Level from the table in Section 3.1.

For the “Payment in Lieu of Notice” calculation, the Investment Term was further decreased by 60 months (5 years) to adjust for the notice period requirement.

Un-recovered Investment	=	5,000 kW	x	\$90 per kW	
Metres of Customer Extension	+	4,000 m	x	\$100 per m	
Total Investment					= \$850,000
Buy-Down Charge					= \$850,000
Reduction to Contract Minimum Demand	=	3,333 kW	–	0 kW	= 3,333 kW
Notice Period (60 Months Maximum) ¹	=	3,333 kW	÷	30 kW	= 60 months
Payment in Lieu of Notice (Distribution Component)	=	24	x	(\$0 – \$ 0.00)	= \$ 0.00
Payment in Lieu of Notice (Transmission Component)	=	60	x	(\$18,111.72 – \$ 0.00)	= <u>\$1,086,703.20</u>
Total Payment in Lieu of Notice					\$1,086,703.20

Note: Effective January 1, 2022, the Payment in Lieu of Notice no longer applies for the Distribution component of the tariff.

Customer Contribution

In this example, the total Customer Contribution will differ depending on whether the Customer chooses to give the required notice or to terminate the Electric Service Agreement immediately and salvage the service (i.e., at the end of year 5).

The total Customer Contribution at the end of year 5 for a reduction to Expected Peak Demand, **with** the required notice of 60 months given by the Customer is as follows:

Buy-Down Charge	=	\$850,000.00
Therefore:		
Customer Contribution	=	\$850,000.00

Effective January 1, 2025

Total Customer Contribution, at the end of year 5, for a reduction to Expected Peak Demand, **without** the required notice of 60 months given by the Customer:

Buy-Down Charge	=	\$850,000.00
Add: Payment In Lieu of Notice	=	<u>\$1,086,703.20</u>
Total Customer Contribution	=	\$1,936,703.20

Customer Contribution Refund for an Increase of Contract Minimum Demand

It is the Customer’s responsibility to notify FortisAlberta if there is an increase to the Customer’s Expected Peak Demand whether or not Facilities have to be expanded to accommodate the Load increase. A new signed Electric Service Agreement is required for the revised Contract Minimum Demand to reflect the Expected Peak Demand increase.

As explained in clause 7.2.3 of the Customer Terms and Conditions, *Refunds of Customer Contributions*, Customer Contributions are refundable for a period of 10 years following the date of payment. Refunds will not exceed the amount of the original Customer Contribution.

Example J - Rate 61 General Service with an Increase of Contract Minimum Demand

In this example, FortisAlberta originally invested in a 125 kW of Expected Peak Demand with an Investment Term of 15 years. The Customer was required at that time to make a Customer Contribution towards the capital cost of Facilities that was not covered by investment.

Capital Cost of Standard Service		\$150,000
FortisAlberta Maximum Investment based on 15 year Investment Term	= 125 kW x	\$1,057 per kW
Base Investment	+ \$6,642	
Total Investment	=	<u>\$138,767</u>
A: Customer Contribution		\$11,233

If after 5 years the Expected Peak Demand increases to 300 kW, FortisAlberta will increase the Contract Minimum Demand (consistent with the new Expected Peak Demand) and the service is then eligible for a refund of a portion of the original Customer Contribution.

The original Customer Contribution calculation was based on an Expected Peak Demand of 125 kW based on an Investment Term of 15 years, and the new calculation is based on an additional 175 kW of Expected Peak Demand based on a 10 year Investment Term:

Effective January 1, 2025

Example K - Prepaid Line Share with Higher-than-Average Costs

A Customer's service has 90 kW of Expected Peak Demand, with an Investment Term of 12 years:

Capital Cost of Connection, Three-Phase					\$120,000
Less: Prepaid Line Share Credit	=	(\$11,500 – \$120,000) x 0.2	=	\$21,700	
Less: FortisAlberta Maximum Investment Level	=	90 kW x \$914 per kW + \$5,744	=	\$88,004	
Customer Contribution		\$10,296	=	\$10,296	

Example L - Prepaid Line Share with Lower-than-Average Costs

A Customer's service has 76 kW of Expected Peak Demand, with an Investment Term of 2 years:

Capital Cost of Connection, Three-Phase					\$10,000
Less: Prepaid Line Share Charge	=	(\$11,500 – \$10,000) x 0.2	=	(\$ 300)	
Less: FortisAlberta Maximum Investment Level	=	26 kW x \$201 per kW + \$1,265	=	\$6,491	
Customer Contribution		\$3,809	=	\$3,809	

4.3. Line Share Calculation for Expected Peak Demands of 100 kW or More

There are two situations under which line share is calculated for Customers with Expected Peak Demands greater than 100 kW.

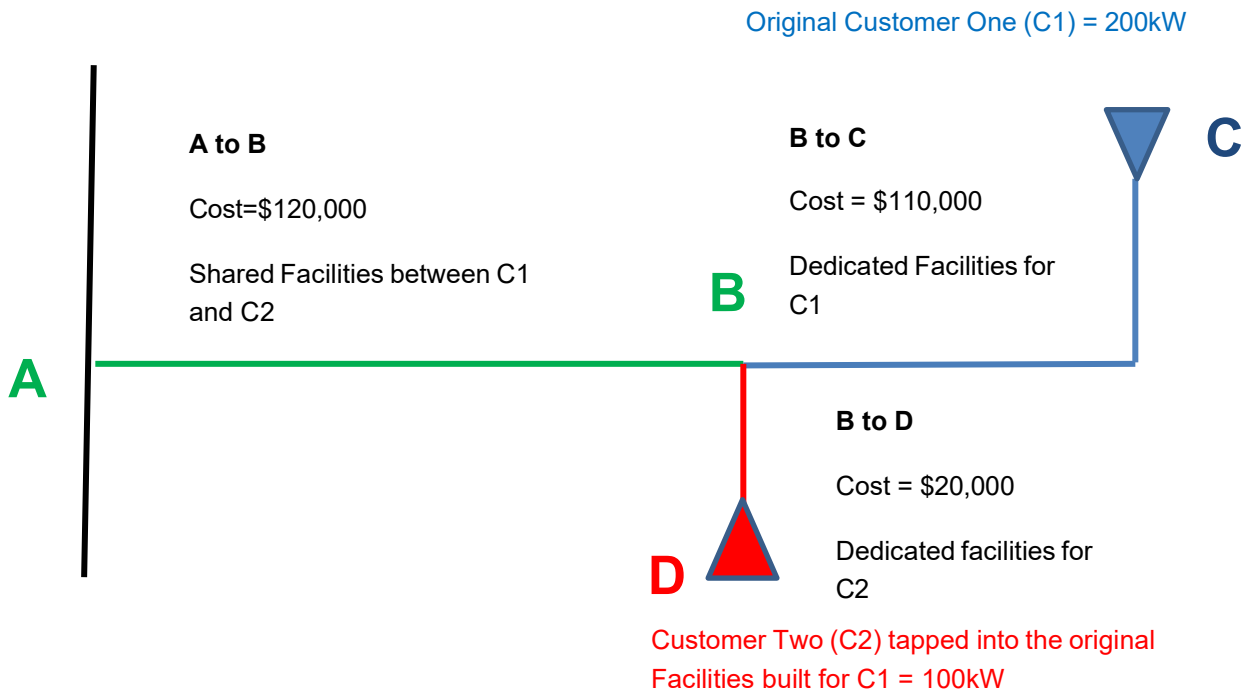
- i) A new Customer shares all or part of a new extension with other new Customers. The cost of the shared Facilities assigned to each Customer is determined by prorating the total cost between the Customers, on the basis of their Expected Peak Demand Loads.

- ii) A new Customer connects to an existing extension for which an existing Customer has made a Customer Contribution within the last 10 years. The new Customer will be assigned a pro-rated share of the cost of the shared Facilities based on the Customers' respective Expected Peak Demands. The amount contributed for the shared Facilities by the new Customer will be refunded to the original Customer.

Example M - Line Share When Second Customer Connects to Existing System

First Customer: A Customer with a General Service Rate 61 service connects to the system with 200 kW of Expected Peak Demand, under an Investment Term of 15 years.

Second Customer: A subsequent Customer with a General Service Rate 61 connects to the system after the initial Customer. This second Customer's service has an Expected Peak Demand of 100 kW, under an Investment Term of 10 years. As shown below, the second Customer uses 3 km of the 5 km line originally provided to the first Customer.



Customer One (C1) shared portion A-B

@ 200 kW of Expected Peak Demand $(200 \text{ kW}/300 \text{ kW}) * \$120,000 = \$80,000$

Customer Two (C2) shared portion A-B

@100 kW of Expected Peak Demand $(100 \text{ kW}/300 \text{ kW}) * \$120,000 = \$40,000$

Investment

Customer One (C1) with 200 kW of Expected Peak Demand with 15 year Investment Term:

FortisAlberta Maximum Investment level	= 150 kW x \$1,057 per KW
	+ 50 kW x \$132 per kW
Base Investment	+\$6,642
Total Investment	\$171,792

Customer Two (C2) with 100 kW of Expected Peak Demand with 10 year Investment Term:

FortisAlberta Maximum Investment level	= 100 kW x \$804 per KW
Base Investment	+\$5,050
Total Investment	\$85,450

Revised Capital Cost for Shared Facilities

Customer One (C1)

Original Capital Costs

From A to B	\$120,000
From B to C	<u>\$110,000</u>
Total Capital Costs	\$230,000
Less Investment	<u>\$171,792</u>
Original Customer Contribution Paid	\$58,208

Revised Capital Costs with C2 Connected

From A to B	\$80,000
From B to C	<u>\$110,000</u>
Total Revised Capital Costs	\$190,000
Less Investment	<u>\$171,792</u>
Revised Customer Contribution	\$18,208

Amount to be refunded to C1 (\$58,208-\$18,208) = (\$40,000)

Customer Two (C2)

Dedicated Facilities (B-D)	\$20,000
Shared Facilities (A-B)	<u>\$40,000</u>
Total Capital Costs	\$60,000
Less Investment	<u>\$85,450</u>

Total Customer Contribution Required \$0