

ADDITIONAL EVIDENCE RELATING TO THE
MARGINAL COSTS OF SUPPLY RESULTING
FROM DECISION D-2018-080

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1 INTRODUCTION

1 On July 9, 2018, the Régie rendered decision D-2018-080, in which it asked Énergir to propose a
2 methodology for evaluating the profitability of extension projects which includes the marginal costs
3 of supply, transportation and load balancing.

4 *"[120] As a result, the Régie orders the Distributor to include the marginal costs of the STL services*
5 *in the methodology for evaluating the profitability of system extension projects, following the*
6 *decision it will render on this matter in Phase 2 of this case."*¹

7 Énergir notes that only the distribution service is currently included in the profitability analysis.
8 The analysis is carried out to evaluate whether the marginal costs resulting from enlisting a new
9 customer are higher than the average costs of all of Énergir's customers. It seeks to determine
10 whether signing a new customer would increase or decrease the rates for all Énergir customers.
11 In other words, the methodology for evaluating profitability evaluates whether the revenue
12 generated by a new customer will enable Énergir to recover the marginal costs associated with
13 that customer, in addition to a portion of the fixed costs related to Énergir's past investments.

14 Énergir understands that the Régie expects it to establish a list of costs to be included in the
15 profitability analysis. The list would identify all of the supply costs that a marginal customer would
16 incur compared to the revenue generated by that customer on the analysis horizon or, in other
17 words, an analysis equivalent to the one already in place for the distribution service.

18 This document is Énergir's response to the Régie's request.

2 EXCLUSIVE RIGHTS AND MARKET STRUCTURE

19 Énergir notes that its exclusive right only pertains to the distribution service and points out that
20 the structure of the current energy distribution monopoly relies heavily on economies of scale
21 regarding the distribution infrastructure.

¹ R-3867-2013, Phase 3, D-2018-080, p. 37.

1 Supply services are either traded in a free, competitive market or in a market with regulated rates,
2 so Énergir has no influence on the market or price. Accordingly, any economies of scale resulting
3 from investments are not used as a basis for Énergir's supply service offering.

4 Énergir believes that the relationship between the marginal cost and average cost is very different
5 for the distribution service than it is for the supply services. Énergir states that since supply
6 services are not exclusive to the distributor, it charges rates that are as close as possible to market
7 price, and the rates are therefore equal to the average costs. For this reason, it believes that the
8 criterias for adding customers to the system should only involve the distribution service.

3 SUPPLY

9 Énergir states that the natural gas commodity is traded in a competitive, liquid market. Énergir
10 regularly trades in this market in order to procure supply and adapt to the demand of its customers.
11 It makes purchases for a set period of up to one year and annually purchases all of the supply it
12 might require to serve its system gas customers. The supply structure is therefore highly flexible,
13 making it possible for Énergir to adapt to changing customers and demand over the year.

14 Énergir also states that it does not have significant purchasing power in the market and that
15 fluctuations in its demand do not have an impact on the market price or the price it pays for supply
16 purchases. The increase in marginal supply needs resulting from the enlistment of one or more
17 new customers is unlikely to increase the average cost of the supply contracted by Énergir.

18 This means that including marginal supply costs will not have an impact on any one project's
19 profitability, as marginal costs recorded in the wake of an extension project become equal to
20 average costs as of the very first year of consumption.

4 TRANSPORTATION AND LOAD BALANCING

21 Énergir contends that the marginal costs of the transportation and load-balancing services are
22 equal to the average costs over the medium and long terms. This section illustrates the behavior
23 of these costs over a shorter period.

1 With regard to transportation (functionalized to the transportation or load-balancing service), the
2 process for contracting new capacity from TCPL ("New Capacity Open Season" – NCOS) makes
3 it possible to have the said capacity delivered three years after signing the agreement. The TCPL
4 rates apply as of the date the new transportation capacity comes into effect. The rates are the
5 same as the ones Énergir pays for the capacity it has already contracted.

6 With regard to storage, Énergir renews part of its off-franchise storage capacity on an annual
7 basis, meaning that the adjustment for this service would theoretically last one year. Furthermore,
8 Énergir argues that once the utility has become aware of a future customer's demand, there is
9 normally a delay before it is required to meet it. This adjustment period gives Énergir time to plan
10 for the integration of the new demand and modify its portfolio accordingly, thereby reducing the
11 variance between marginal costs and average supply costs.

12 Énergir's opinion is that if there is a variance between the marginal cost and the average cost of
13 the transportation and load-balancing services, it would only last 1 to 3 years.

4.1 UNPREDICTABILITY

14 In response to a request for information from the Régie, Énergir argued that the difference
15 between the average cost and the marginal cost of supply is relatively low and temporary:

16 *"[...] although it is possible that some extension projects may incur marginal supply, transportation*
17 *and load-balancing costs that are different from the average cost of the tool portfolio and that are*
18 *therefore different from the rates in effect, such cases are very rare and would have a very weak*
19 *effect for a very short (temporary) duration."*²

20 The Régie does not believe that this argument sufficiently justifies the costs of these supply
21 services being absent from the methodology for evaluating the profitability of extension projects:

22 *"[116] Therefore, the Régie does not retain the argument that Énergir put forward stating that*
23 *because the variance between the marginal STL costs and revenue is non-existent or very low,*
24 *there is no reason to consider it."*³

² R-3867-2013, Phase 3, Gaz Métro-9, Document 17, p. 77.

³ R-3897, D-2018-080, p. 36.

1 It added:

2 *“The Régie believes that, over time, the relationship between the marginal costs and average*
3 *costs of the STL services may evolve in many ways that could be difficult to predict.”⁴*

4 Énergir believes that the unpredictable nature of these costs, acknowledged by the Régie,
5 prevents Énergir from including them in a profitability analysis. In fact, numerous gas supply tools
6 could be used by Énergir to optimize its supply plan, so the cost of a marginal supply plan greatly
7 depends on the context prevailing at the time of its creation, which would make the results of the
8 profitability analysis much less stable than those of the profitability study carried out for
9 distribution.

10 Énergir would like to specify that it is sometimes able to meet the supply needs of new customers
11 without purchasing new tools on the market. For example, Énergir could potentially use the supply
12 tools it already has, in which case the marginal costs would be equal to the average cost. In the
13 event that Énergir had to purchase new tools on the secondary market to meet the demand of a
14 new customer, the marginal cost could be lower or higher than the average cost, as it would be
15 subject to market fluctuations. The marginal cost of supplying a customer may therefore vary,
16 depending on the context at the time of the customer's request for connection, and including these
17 costs could potentially yield highly unpredictable results.

18 The methodology for evaluating profitability is used by Énergir to assess the profitability of new
19 potential customers. There are several thousand new potential customers every year. For this
20 reason, the tool needs to be simple to use (and cannot be used on a case-by-case basis) and
21 must be a relatively stable way to evaluate costs over time in order to allow for efficient and
22 consistent decision-making on an ongoing basis.

23 Énergir believes that the marginal costs of the transportation and load-balancing services for the
24 first years are unpredictable and that including these costs could potentially lead to inequity
25 among the multiple customers subject to the profitability evaluation. The unpredictable nature of
26 these costs could also create a bias when Énergir decides whether or not to accept a new
27 customer because the marginal cost evaluation could significantly differ between the date the
28 marginal costs are calculated and the date the customer is connected to the system.

⁴ R-3897, D-2018-080, p. 36.

5 IMPACT OF ADDING CUSTOMERS TO THE SUPPLY PLAN

1 The points made in this evidence demonstrate that including the marginal costs of supply in the
2 evaluation of a project's profitability is not necessary over the profitability analysis horizon,
3 because:

- 4 • marginal costs are usually equal to average costs over the analysis period, which is
5 typically 40 years; and
- 6 • for STL services, rates correspond to average costs for all customers or categories of
7 customers.

8 That being said, Énergir still attempted to evaluate the impact that adding a customer or project
9 to a supply plan would have over a period of 1 to 3 years.

5.1 METHODOLOGY

10 In order to simulate the impact of adding a new customer or project to a supply plan, Énergir
11 added the demand related to the project to the demand forecast in the supply plan and carried
12 out a new cost evaluation by adjusting the tools required to meet the new demand. Theoretically,
13 this makes it possible to determine the marginal impact of the project on costs. The project's
14 marginal cost would then equal the difference between the cost of the supply plan including the
15 project's estimated demand and the cost of the supply plan without the marginal demand.

16 According to Énergir, this approach is the optimal and most precise way to estimate the marginal
17 impact of adding a project to overall supply costs. However, it is important to specify that this
18 method involves a substantial amount of work and it would not be possible for Énergir to apply it
19 to the thousands of customers and projects added annually.

5.2 RESULTS

20 Énergir tested this methodology by creating several versions of the supply plan filed under the
21 2020-21 Rate Case by adding customers with different consumption volumes and profiles (stable
22 and interruptible) over the period during which some variance could arise between the average
23 cost and marginal cost, i.e. for a period of 3 years following the addition of a new project or
24 customer.

1 After analyzing the different versions of the supply plan, Énergir found that the total average
2 supply cost decreased in every version where customers were added, according to the tools
3 available on the market at the time the evaluation was carried out. That means that the short-term
4 marginal cost of adding projects or customers is lower than the average cost. However, it is
5 important to specify that because the results of the marginal cost evaluation are influenced by
6 several factors, notably the time when the marginal costs are calculated, the results of the analysis
7 could have shown the opposite effect, i.e. the short-term marginal cost of adding projects or
8 customers could have been higher than the average cost.

9 Énergir considers important to stress that even though it would be possible to evaluate the
10 marginal cost from a theoretical point of view, the results of the analysis are extremely volatile
11 and difficult to predict, as acknowledged by the Régie.⁵ In fact, the results are especially
12 dependent on market price variations and the time during which the consumption of existing
13 customers was forecast. According to Énergir, the principle of temporal stability must be complied
14 with to ensure that customers are treated fairly when evaluating investment projects. However,
15 the characteristics of supply costs and the market in which they fluctuate preclude Énergir from
16 complying with this principle, making it extremely difficult or even impossible to select a fair,
17 equitable methodology.

6 CONCLUSION

18 In light of the foregoing, Énergir believes that evaluating the impact of a new project on supply
19 costs using the average cost, which reflects the marginal cost, is the best way to estimate the
20 costs of the said project.

21 If the Régie sees fit, Énergir could add the marginal supply costs, which are equal to the supply
22 revenue, to the profitability analysis, even though there would be no impact on the profitability
23 analysis.

24 However, Énergir argues that it is not necessary to include the marginal costs of the supply,
25 transportation and load-balancing services in the methodology for evaluating the profitability of

⁵ R-3897, D-2018-080, p. 36.

1 extension projects, as these costs would have no impact on profitability and would make the
2 analysis unnecessarily complicated.

3 **Énergir asks the Régie to take note of the requested follow-ups to its decision D-2018-080**
4 **to be filed under Phase 2 of this case and to declare them satisfactory.**