



**IN THE MATTER OF**

# **BRITISH COLUMBIA UTILITIES COMMISSION**

**THERMAL ENERGY SYSTEMS  
REGULATORY FRAMEWORK GUIDELINES**

## **DECISION**

**MARCH 2, 2015**

**Before:**

**D. M. Morton, Commissioner/Panel Chair**

**L. A. O'Hara, Commissioner**

**R. D. Revel, Commissioner**

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### COMMISSION ORDER G-27-15

### APPENDIX A Thermal Energy Systems Regulatory Framework Guidelines

## 1.0 INTRODUCTION

By Order G-127-14 dated August 28, 2014, the British Columbia Utilities Commission (Commission, BCUC) approved the Thermal Energy Systems (TES) Regulatory Framework (TES Framework) for immediate use. Among other provisions, the TES Framework laid out a characteristic of a Stream A system as having an AACE Class 3 capital cost estimate of equal to or greater than \$500,000 and less than \$15 million.

On August 1, 2014, in the FortisBC Alternative Energy Services (FAES) Application for a Certificate of Public Convenience and Necessity (CPCN) and Rate Approvals Established in Agreements for TES for the Artemisia Development proceeding (Artemisia proceeding), Ameresco Canada Inc. (Ameresco) raised the question of whether, in the case of a purchase of a TES, the purchase price should be the basis for the determination of the status of the TES for exemption or whether it should be the actual capital cost to construct the TES system.<sup>1</sup>

There was no determination on this issue requested by Ameresco in the FAES Artemisia proceeding. However, in response to Ameresco's question, on September 17, 2014, the Commission requested submissions from parties in the BCUC 2014 Proposed Regulatory Framework and Guide for TES Utilities proceeding, on the capital costs versus the purchase price and regulatory status. Specifically, parties were asked to address three scenarios laid out by the Panel, explaining views on exemption status, filing requirements and/or general standing of the TES. Parties were also invited to address any other topics that may be relevant to this issue.

Submissions on the three scenarios were provided by FAES, Ameresco, the BC Sustainable Energy Association and the Sierra Club of BC (BCSEA-SCBC) and the British Columbia Pensioners' and Seniors' Organization, Active Support Against Poverty, BC Coalition of People with Disabilities, Counsel of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre (BCOAPO). Ameresco put forward what it calls Scenario 4: a system with an initial capital cost below the threshold amount is purchased for an amount above the guideline amount. Ameresco and FAES also provided submissions on the threshold between Stream A and Stream B TES. FAES and Ameresco provided submissions on aggregating multiple sites of a single customer. The Panel addresses each of these issues in the decision.

In addition, FAES provided a substantial submission on the Strata Exemption, in effect, requesting that the Commission reconsider its previous decision and remove the Strata Exemption. Other interveners also commented on this issue. The Panel will address this issue before considering the submissions on the issues requested by the Panel.

## 2.0 STRATA CORPORATIONS AND THE MICRO TES EXEMPTION

FAES submits that where the TES has a Strata Corporation as a customer, the TES should always be considered a Stream A TES regardless of the capital cost or the purchase price of the TES. It argues that "there is no material difference between a Strata Unit Owner in a Development with a TES System that has a capital cost below \$500,000 or that FAES purchases for less than \$500,000 and a Strata Unit Owner in a Development with a TES

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<sup>1</sup> FAES Application for a Certificate of Public Convenience and Necessity and Rate Approvals Established in Agreements for TES for the Artemisia Development (FAES Artemisia proceeding), Exhibit D-1, p. 1.

System that has a capital cost above \$500,000 or that FAES purchases for more than \$500,000” and, accordingly, both TES should be regulated in the same way.<sup>2</sup>

In its view, the case of a Strata Corporation customer that has a number of residential units was never intended to be captured by the Micro TES Exemption. FAES argues that both the Panel in the AES Inquiry and Commission staff, in applying the Principles and Guidelines of the Alternate Energy Services (AES) Inquiry Report, “have always intended to treat strata properties as Stream A customers.”<sup>3</sup> In support of its position, FAES cites the following from the Commission Report on the Proposed Micro Thermal Energy System Limit and Stream B Exemption Test:

The Micro TES System exemption is intended to capture **the case of a homeowner or a small business** entering into an agreement with a TES provider. [...] In the Panel’s view, the Micro TES System exemption should be large enough to accommodate a project undertaken by or for a small group of homeowners or small businesses, such as a GSHP that may be shared by that group.

The Panel find[s] the numerical example provided by Ameresco, relating to a **hypothetical group of five small businesses, properly captures the intent of the Panel.**<sup>4</sup>

FAES adds that in the case of the Artemisia Strata Corporation, “the 21 Strata Unit Owners are not the ones who entered into an agreement with FAES. In contrast, the Developer selected the thermal energy system based on its own objectives and, at a late stage, entered into agreement with FAES to provide thermal energy services to the Development.”<sup>5</sup> In the Artemisia proceeding, FAES stated that “[t]he Developer selected the energy system to meet its goals with respect to reduction of greenhouse gas emissions and to enhance the marketability of the development. Prior to FAES’ involvement in the Project, the Developer established the Strata Budget with respect to thermal energy and distributed that information to all the unit owners.” As a result, FAES submits that “[t]herefore, to meet the Strata Budget requirement, the Developer and FAES have negotiated a purchase price for the energy system on the basis of what FAES would be prepared to invest in order to provide this service at the rates established by the Developer.” On this basis, FAES will purchase the system from the Developer for \$100,000, an amount that is less than the actual capital costs that the developer expects to incur for the construction and commissioning of the system.<sup>6</sup>

FAES also cites the following passage from the AES Inquiry:

In the Panel’s view there is a grey area as to what constitutes a Discrete Energy System as compared to a District Energy System. This, for example, could involve **the service to a single strata, but with multiple customers in the strata and a need to regulate to protect customer interests.**<sup>7</sup>

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<sup>2</sup> Exhibit C2-3, p. 6.

<sup>3</sup> Ibid., p. 4.

<sup>4</sup> Exhibit A-6, p. 7, emphasis added by FAES.

<sup>5</sup> Exhibit C2-3, pp. 3-5.

<sup>6</sup> FAES Artemisia proceeding, Exhibit B-1, p. 2.

<sup>7</sup> Report on the Inquiry into the Offering of Products and Services in Alternative Energy Solutions and Other New Initiatives (AES Inquiry Report), p. 75, emphasis added by FAES.

FAES also cites passages from earlier versions of the TES Scaled Regulatory Framework that proposed an exemption for TES with one customer except in cases where that customer is a Strata Corporation.<sup>8</sup>

FAES further argues that strata customers of Exempt TES have no recourse under the *Strata Property Act* and therefore require the consumer protection afforded by the *Utilities Commission Act* (UCA). This is in contrast to the Strata Exemption, where the owner of a strata unit has recourse under the *Strata Property Act*.<sup>9</sup>

FAES submits a variant on Scenario 1, which it calls Scenario 1b, whereby the TES in Scenario 1 is originally owned and operated by a Strata Corporation. In Scenario 1b, the TES is initially exempt, by virtue of the Strata Exemption. FAES argues that if subsequent to the sale, the TES falls under the Micro TES Exemption, then Strata Unit Owners would no longer find recourse under the *Strata Property Act*, whereas they could do so before the sale. Accordingly, FAES submits that regardless of the selling price, the TES after the sale should always fall within Stream A.<sup>10</sup>

Ameresco disagrees with FAES. It submits that “[t]he premise that Micro TES Strata customers require or need BCUC protection that is afforded to Stream-A customers is misleading and is based on the dangerous assumption that the BCUC will protect Stream-A customers in terms of reviewing, approving and adjudicating the propriety of rates.” It points out that under the TES Framework, the Commission will only intervene if there is an issue of disclosure or whether the original agreement is being applied, but not with respect to the propriety of the rate.<sup>11</sup>

With regard to consumer protection, Ameresco argues that a Strata Corporation that is a customer of an Exempt TES utility has recourse to the protection afforded by the *Real Estate Development Marketing Act* (REDMA). Ameresco states that any agreement that a strata owner/developer enters into is subject to the disclosure requirements of REDMA.<sup>12</sup>

BCOAPO agrees with FAES “that where a TES has a strata corporation among its customers, or as its only customer, that TES should never fall under the micro-exemption, regardless of the capital cost or the purchase price of the TES.” In BCOAPO’s view, “FAES has identified a regulatory gap where a utility owns and operates a TES that falls under the micro-exemption, and that utility sells thermal energy to the strata unit owners.” BCOAPO submits that since these customers are not protected under the *Strata Property Act* because the Strata Corporation does not own the TES, it is important that these customers be protected under the UCA, “particularly since the strata unit owners would not have been party to the agreement with the utility.”<sup>13</sup>

BCSEA-SCBC submits that the “regulatory gap” is a concern and “suggest[s] that consideration be given to setting the minimum threshold to zero.”<sup>14</sup>

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<sup>8</sup> Exhibit C2-3, pp. 4-5.

<sup>9</sup> Ibid., p. 5.

<sup>10</sup> Ibid., p. 7.

<sup>11</sup> Exhibit C6-4, p. 2.

<sup>12</sup> Ibid., p. 3.

<sup>13</sup> Exhibit C5-4, p. 1.

<sup>14</sup> Exhibit C4-4, p. 1.

### Commission determination

**For the reasons set out in the following paragraphs, the Panel is not prepared to vary its original decision and remove the Micro TES Exemption for customers that are Strata Corporations.**

FAES, along with BCSEA-SCBC and BCOAPO, provide a number of arguments to support their position that the Micro TES Exemption be varied with respect to strata customers, specifically:

1. Strata customers of Exempt TES have no recourse under the *Strata Property Act* and therefore require the consumer protection afforded by the UCA.
2. The Commission Report on the Proposed Micro Thermal Energy System Limit and Stream B Exemption Test demonstrates that the Commission never intended that a Strata Corporation to be captured by the Micro TES Exemption.
3. The Panel in the AES Inquiry and Commission staff, in applying the Principles and Guidelines of the AES Inquiry Report, have always intended to treat TES that provide service to one or more residential Strata Corporations as Stream A TES.

The Panel will examine each of these arguments below.

#### *Recourse for Strata Customers*

The Panel agrees with Ameresco that regarding rates for a Stream A TES, the Commission will only intervene if there is an issue of disclosure or whether the original agreement is being correctly applied, but not with respect to the propriety of the rate. Therefore, in regard to rate approval, Stream A customers are in a similar position to Micro TES Exempt customers. Neither customer will receive Commission approved rates.

The Panel does not agree with FAES that in the event of a sale of a strata-owned TES to a TES provider the TES should always be a Stream A, even if it would otherwise fall into the Micro TES Exempt category.

In the event the sale transaction is entered into by a developer on behalf of future Strata Unit Owners, REMDA sets out disclosure requirements. In the event that the transaction is entered into by a strata council, the strata council is subject to the *Strata Property Act*, which requires the transaction to be approved by a prescribed majority of owners voting in a meeting for which prescribed notice requirements have been met. If the TES that is sold is a Micro TES, the Strata Corporation, as its customer, will subsequently be subject to exactly the same terms to which any other Micro TES customer is subject. There is no evidence that a Strata Corporation requires any additional protection.

FAES emphasized that in the case of the Artemisia project, the Strata Unit Owners did not enter into the agreement and that the developer selected the TES based on its own objectives.<sup>15</sup> In the Panel's view, FAES appears to imply that because this is the case, Strata Unit Owners require additional protection. It has been the case with most greenfield TES applications brought before the Commission to date that the agreements with the TES utility are entered into by the developer on behalf of the Strata Corporation. In the Panel's view, this does not necessarily imply that there is no alignment of interest between the developer and the Strata Corporation. For the units to remain competitive, the developer must agree to rates that will ultimately be acceptable to the purchasers of the strata units. Similarly, any contribution provided to the TES utility that is recovered from the

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<sup>15</sup> Exhibit C2-3, p. 5.

selling price of the units can only be recovered if the developer ensures that the selling price of the units remain competitive. It is precisely because of this competitive aspect that additional protection of rate regulation is not required.

#### *The Commission Report*

The Micro TES Exemption recognizes inherent differences in the dynamic of a small group of people, as opposed to a larger group, and that these differences support an exemption from regulation. The Panel considers small groups of people better able to ensure their collective self-interest than larger groups where members' individual self-interests may be diluted.

The Commission Report explicitly stated that the Micro TES Exemption is intended to capture the case of homeowners and/or small businesses, and should be large enough to incorporate a project undertaken by or for a small group of homeowners and or small businesses. The Commission did not distinguish between a group of people organized as a Strata Corporation or a group of people organized in any other way. There was no exclusion of a small group of people organized as a Strata Corporation.

**Accordingly, the Panel finds no basis for the argument that a Micro TES Exemption that includes Strata Corporations is inconsistent with the previous Commission Report.**

#### *The AES Inquiry Report*

The AES Inquiry Report laid out the following Key Principles and Guidelines:

##### **Key Principles:**

- i) Where regulation is required use the least amount of regulation needed to protect the ratepayer.
- ii) The benefits of regulation should outweigh the costs.

##### **Guidelines:**

The form of regulation should:

- provide adequate customer protection in a cost effective manner;
- consider administrative efficiency;
- consider the level of expenditure, the number of customers, the sophistication of the parties involved and the track record of the utility in undertaking similar projects; and
- require the provision of sufficient information to allow the Commission to assess the new business activity, and any rates to be set, against BC's Energy Objectives and the requirements of the *Utilities Commission Act* and the *Clean Energy Act*.<sup>16</sup>

In making its determination that a small group of customers should be exempt from regulation, the Panel recognized the key principles of the AES Inquiry Report. Exempting TES that supply small groups of customers reduces the amount of regulation while considering the level of expenditure and the number of customers.

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<sup>16</sup> AES Inquiry Report, p. 18.

**Accordingly, the Panel finds that including Strata Corporations in the Micro TES Exemption is consistent with the Key Principles outlined in the AES Inquiry Report.**

### **3.0 THE BASIS FOR DETERMINATION OF THE STATUS OF A TES**

This section presents the three scenarios and the positions of parties that commented and culminates with a number of Commission Panel determinations. A fourth scenario was proposed and addressed by Ameresco.

#### **3.1 Scenario 1**

Scenario 1 was laid out by the Panel as follows:

The subsequent sale of a TES at a reduced price to reflect the effects of inflation and depreciation: Consider an example whereby “TES Provider A” constructs a TES, at a capital cost of \$600,000, for which it is registered and granted a Stream A TES exemption. Several years later, TES Provider A sells the TES to TES Provider B for \$450,000.<sup>17</sup>

All parties agree that if a system is registered as a Stream A system, a subsequent sale for less than the exemption amount does not change its Stream A status. Ameresco argues that as long as the rate agreements remain in place after the sale of the asset the TES should remain a Stream A TES and that this is because the original rates are based on the original capital cost, which was above the Micro TES threshold at the time of registration.<sup>18</sup>

FAES submits that the TES should remain in Stream A after the sale. In support of its position, it asserts that the TES customers had recourse to the Commission before the sale and there “is no principled reason why this TES’ customers should lose [sic] protection from the Commission because of a change in TES providers *that occurred at a particular point in time.*” FAES further explained that if the transaction had occurred a few years before, the question may not have arisen because the book value of the TES may have been more than \$500,000.<sup>19</sup>

BCSEA-SCBC submits that “the primary consideration should be achieving clarity (at a point in time) and certainty (over time). That would support defining the financial thresholds according to the initial construction cost.” It therefor proposes that in the case of Scenario 1, the TES retain its status regardless of the amount for which it is sold.<sup>20</sup>

BCPSO submit that “the basis for determining the status of the TES for exemption in Scenario #1 should be initial capital cost, as this best reflects the size of the TES.”<sup>21</sup>

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<sup>17</sup> Exhibit A-10, p. 1.

<sup>18</sup> Exhibit C6-3, p. 2.

<sup>19</sup> Exhibit B2-3, p. 7, emphasis in original.

<sup>20</sup> Exhibit C4-3, p. 1.

<sup>21</sup> Exhibit C5-3, p. 2.



### 3.2 Scenario 2

Scenario 2 was laid out by the Panel as follows:

A developer provides a Contribution in Aid of Construction (CIAC) or otherwise agrees to sell the TES below its cost to construct: Consider an example whereby a developer builds a TES as part of the BCUC TES Regulatory Framework. The developer estimates the construction of the TES portion of the project is \$1,000,000. However, the developer does not operate the TES, but sells the TES to a TES Provider for \$400,000, thereby providing a *de facto* CIAC of \$600,000.<sup>22</sup>

BCSEA-SCBC submits that the initial construction cost should be the determinant of the status of a TES. In BCOAPO's view, "the basis for determining the status of the TES for exemption should be initial capital cost, as this best reflects the size of the TES." Ameresco submits that the project should be granted a Micro TES Exemption because the rates the TES customers will pay are based upon this price.<sup>23</sup>

FAES submits that, provided the development does not have a residential component, it "sees no principled reasons why.....this TES [should] not fall under Stream A."<sup>24</sup> However, when commenting on the submission made by Ameresco in the FAES Artemisia proceeding, FAES agrees with Ameresco, stating that "the amount of capital that is included in the rate calculation (i.e. FAES' purchase price) should be the basis for determining the status of a TES project."<sup>25</sup>

### 3.3 Scenario 3

Scenario 3 was laid out by the Panel as follows:

A change in the threshold amount: Consider a TES with an initial capital cost of \$600,000. The builder and operator is a TES Provider who has applied for, and received Stream A exemption status for the TES. The micro exemption threshold is subsequently raised by the Commission to \$650,000. Subsequent to the threshold being raised, the system is sold to TES Provider B for \$550,000.<sup>26</sup>

Ameresco and FAES agree that the system should remain a Stream A system.<sup>27</sup> BCOAPO disagrees and submits that the system should be revaluated to determine if the initial capital costs meets the new criteria. BCSEA-SCBC submits that the Commission will need to decide at the time the exemption threshold is raised, whether the new threshold applies to existing systems. In its subsequent submission, after considering the submissions of other parties, BCSEA-SCBC accepts that "...in the interests of certainty it would be desirable for the Commission to state its current intention on the issue."<sup>28</sup>

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<sup>22</sup> Exhibit A-10, p. 1.

<sup>23</sup> Exhibit C4-3, p. 1; Exhibit C5-3, p. 2; Exhibit C6-3, p. 2.

<sup>24</sup> Exhibit C2-3, pp. 7-8.

<sup>25</sup> Ibid., p. 3.

<sup>26</sup> Exhibit A-10, p. 2.

<sup>27</sup> Exhibit C6-3, p. 2.

<sup>28</sup> Exhibit C4-3, p. 1; Exhibit C4-4, p. 2.

### 3.4 Scenario 4

Scenario 4 was proposed by Ameresco:

A TES Project is developed by TES Provider A and is estimated to cost \$450,000 and rate agreements are executed based on that cost. This is below the current TES Micro Threshold of \$500,000 and, as such, this would be an Exempt TES project. However the project is sold to TES Provider B to operate for \$550,000. (This sale could be prior to construction being completed or after construction.)<sup>29</sup>

In Ameresco's view, "this should still be an exempt project in this scenario even after the sale transaction. Parties should not be incented to pay a premium to obtain a greater amount of regulation than what is contemplated under the TES Regulatory Framework. That does not preclude the parties from a transaction at this price level but it should not impact the regulatory treatment of the project."<sup>30</sup>

BCSEA-SCBC agrees with Ameresco that "the regulatory status of the TES project should not change merely because of the size of the purchase price."<sup>31</sup>

FAES "believes that the regulatory treatment of a TES set out in the TES Guidelines should be based on the two key principles of the AES Inquiry Report..... This position applies to all cases, including those where a Micro TES may or may not transition into a Stream A TES and cases where a Stream A TES may or may not transition into a Stream B TES by virtue of differences between capital cost and purchase price of the TES."<sup>32</sup>

#### Commission determination

**For the reasons set out below, the Panel finds that the initial construction cost should determine whether a TES is Stream A or an Exempt Micro TES.**

As previously discussed, the Micro TES Exemption recognizes the inherent differences in the dynamic of a small group of people, as opposed to a larger group, and that these differences support an exemption from regulation. In doing so, it balances the need for regulation with due consideration of the costs of that regulation.

Further, as a proxy for the size of the group receiving service from the TES, the Panel chose the cost to construct the TES. The Panel accepted \$500,000 as a proxy for the threshold between a group of people small enough to be better able to ensure their collective self-interests and a larger group whose members' self-interests may be diluted.

**With regard to Scenario 3, where the Micro TES Exemption threshold amount changes subsequent to the commissioning of the TES, the Panel directs that the status of an Exempt TES or a TES registered as Stream A does not change.** This approach recognizes that the exemption status is based on the proxy for system size as determined at the time of construction of the TES. Subsequent changes to the threshold do not change the size of the TES.

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<sup>29</sup> Exhibit A-10, p. 2.

<sup>30</sup> Exhibit C6-3, p. 3.

<sup>31</sup> Exhibit C4-4, p. 2.

<sup>32</sup> Exhibit C2-4, p. 7.

Ameresco argues that it is the purchase price that should be considered when determining whether a TES is over or under the threshold amount. The Panel disagrees. The purchase price may be affected by contributions in aid of construction (CIAC), grants or other factors. Consider the case where the utility receives a CIAC for a TES that would otherwise fall above the threshold and the effect of the CIAC results in a purchase price below the threshold. The CIAC hasn't changed the number of people served by, or any other physical characteristic of, the TES. In particular, in a case where the customer chooses to provide the CIAC, perhaps in order to reduce rates, the result should not be to reclassify the exemption status of the TES.

Further, Ameresco's argument concerning purchase price is premised on the fact that rates are determined by the purchase price. This premise also underlies the argument of other parties that submit the exemption status should be based on the capital costs recovered in rates. The Panel does not disagree that rates may be largely determined by purchase price. However, as Ameresco has correctly pointed out in other contexts, the Commission provides no oversight of rates for exempt Micro TES and Stream A TES. Accordingly, the Panel is of the view that purchase price is not relevant to the determination of whether a TES is exempt or is Stream A.

**We therefore clarify that the exemption threshold is based on the cost to construct the TES and is not related in any way to the purchase price, whether that purchase price is below or above the cost to construct the TES.** In cases where the purchased TES is an Exempt TES, it will remain exempt with no requirement to register, regardless of the purchase price. In cases where the purchased TES is Stream A, it will remain Stream A regardless of the purchase price, provided the system has not expanded to serve additional customers.

In making this determination, the Panel recognizes there may be ambiguities in a determination of the cost to construct. For example:

1. A piece of equipment may be purchased or leased. How should leased equipment be treated in the construction cost?
2. A charge for the land occupied by the equipment/control room may be levied on the utility. Should the value of this land be recognized in the construction cost?
3. How should construction costs for extant, unregistered TES be determined, especially if the construction cost records are no longer available.

In cases such as these, including cases where the original cost is not easily available, the Panel expects the utility to use its best efforts to determine the construction cost. The Panel considers that the construction cost should reflect the cost to acquire the physical components at the time the TES is constructed along with all costs that are incurred to install the components and ensure that they operate correctly at the time of commissioning.

#### **4.0 TRANSITION FROM STREAM A TO STREAM B**

Ameresco submits that although the scenarios contemplated involved the threshold between an exempt and Stream A TES, they also apply to the threshold between Stream A and Stream B TES. In its view, the same issues apply to both transitions.

Ameresco further submits that this is particularly true for Scenario 4: "In the event that a Stream A project is 'elevated' to Stream B, the TES Provider (the Acquirer) could apply to the Commission... to have rates regulated

with something approaching a cost of service model which could effectively raise rates to the TES customers.” In Ameresco’s view, this should only happen if there has been additional investment in the asset.... “[a]nd not merely because the system was resold for a value higher than what was used for the original application of the threshold.”<sup>33</sup>

FAES agrees with Ameresco regarding the threshold between Stream A and Stream B, stating that “the purchase price of the asset should be the basis for determining the status of a TES project.”<sup>34</sup>

BCSEA-SCBC submits that the transaction price alone should not be a reason to increase rates and that the Commission should state that a new owner of a Stream A TES should not expect approval of higher rates based merely on the transaction price being above the Stream A threshold. BCSEA-SCBC also questions whether the Commission should or even could completely preclude the possibility of a new TES owner from applying for a CPCN and rates.”<sup>35</sup>

### **Commission determination**

The Panel agrees with Ameresco that the scenarios contemplated with regard to the threshold between the Micro TES Exemption and Stream A also apply to the threshold between Stream A and Stream B. However, the Stream A/Stream B threshold is based, as is the Micro TES Exempt/Stream A threshold, on the size of the system and the number of customers served. **Accordingly, the Panel finds it appropriate that:**

- i. the initial construction cost of the TES determines whether it is a Stream A or a Stream B TES; and**
- ii. in the event of a subsequent purchase or sale of a Stream A TES for an amount greater than the threshold between Stream A and Stream B, the TES will remain a Stream A TES.**

In making this determination, the Panel acknowledges that any system extensions completed subsequent to the commissioning of the TES may contribute to the difference between the sale price and the initial construction cost. In that circumstance, the new owner may apply to the Commission for reclassification of the TES based on the costs to construct the TES along with any subsequent extensions to the TES. Further, if the extensions to the TES extend beyond the boundaries of the site on which the TES is located, the TES is reclassified as a Stream B TES, and a CPCN is required, along with rate review and approval.

With regard to BCSEA-SCBC’s suggestion that the Commission may not be able to preclude the possibility of a new owner of a Stream A TES from applying for a CPCN and rates, the Panel agrees. Any utility is free, at any time, to make an application to the Commission. However, the TES Guidelines anticipate that Stream A TES providers will provide service based on long term contracts. The Panel expects that the contract will provide for the eventuality of the ownership of the TES changing hands. In the event that is not the case, it is expected that the new TES owner will negotiate a rate with its customers.

Scenario 3 can equally apply to a subsequent change to the threshold between Stream A and Stream B. In this circumstance, the status of a TES registered as either Stream A or Stream B does not change. This approach

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<sup>33</sup> Exhibit C6-3, p. 3.

<sup>34</sup> Exhibit C2-4, p. 8.

<sup>35</sup> Exhibit C4-1, p. 2.

recognizes that the exemption status is based on the proxy for system size as determined at the time of construction of the TES. Subsequent changes to the threshold do not change the size of the TES.

## 5.0 THE AGGREGATION OF MULTIPLE SITES

FAES raises an issue related to the aggregation of multiple sites with a single owner. The TES Guidelines state that in this circumstance, each site<sup>36</sup> is treated as a separate TES. In the view of FAES, this could give rise to an impractical situation if one or more sites are TES Exempt and one or more are Stream A. FAES submits that the customer would only be able to submit a complaint to the Commission with regard to a Stream A TES, but not an Exempt TES. It cites as an example the Delta School District, a customer of FAES with 19 sites, four of which would be Micro TES Exempt had the Guidelines been in place when that customer began receiving service from FAES.<sup>37</sup>

BCOAPO agrees with FAES. However, Ameresco disagrees, claiming that FAES' proposal to bundle multiple, disconnected assets owned by the same customer "appears to be an attempt to achieve a regulatory outcome that does nothing to benefit the customer." In Ameresco's view, this creates a "possible inference that Stream-A projects are 'regulated' and therefore enjoy BCUC protection regarding rate review and approval (despite the required contractual acknowledgement to the contrary)" and that this "creates a moral hazard whereby potential customers could be more inclined to rely on non-existent rate protection from the BCUC than on their own due diligence." It also submits that "[t]he more customers that are categorized as Micro-TES, the less likely it will be that a customer enters into a TES agreement thinking they had BCUC rate protection only to find out later they do not. As for school districts, they should be sophisticated enough to do their own due diligence but having Micro-TES assets included in the mix of their overall agreement with a TES provider can only help to encourage them to exercise that due diligence."<sup>38</sup>

### Commission determination

The Panel is not persuaded there is sufficient evidence to warrant a reconsideration of this particular aspect of the TES Guidelines. **Accordingly, the Panel makes no change to the TES Guidelines with respect to the aggregation of multiple sites.** FAES provides no specific evidence of any harm that could potentially be caused by not bundling the sites. Further, the Panel agrees with Ameresco that in the particular case of the Delta School District, it is reasonable to consider the customer to be sophisticated enough to do their own due diligence.

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<sup>36</sup> The TES Regulatory Framework Guidelines, at p. 3, define a site as a legal property of parcel with defined boundaries for which a municipal building permit is issued or pending approval.

<sup>37</sup> Exhibit C2-3, p. 9.

<sup>38</sup> Exhibit C5-4, p. 1; Exhibit C6-4, p. 4, emphasis in original.

**DATED** at the City of Vancouver, in the Province of British Columbia, this            2nd            day of March 2015.

*Original Signed By:*

---

D. M. MORTON  
PANEL CHAIR/COMMISSIONER

*Original Signed By:*

---

L. A. O'HARA  
COMMISSIONER

*Original Signed By:*

---

R. D. REVEL  
COMMISSIONER

SIXTH FLOOR, 900 HOWE STREET, BOX 250  
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web site: <http://www.bcuc.com>



**BRITISH COLUMBIA  
UTILITIES COMMISSION**

**ORDER  
NUMBER G-27-15**

TELEPHONE: (604) 660-4700  
BC TOLL FREE: 1-800-663-1385  
FACSIMILE: (604) 660-1102

**IN THE MATTER OF  
the Utilities Commission Act, R.S.B.C. 1996, Chapter 473**

**and**

**Thermal Energy Systems Framework  
Revisions to the Thermal Energy Systems Regulatory Framework Guidelines**

**BEFORE:** D. M. Morton, Panel Chair/Commissioner  
L. A. O'Hara, Commissioner March 2, 2015  
R. D. Revel, Commissioner

**O R D E R**

**WHEREAS:**

- A. On August 28, 2014, in Order G-127-14, the British Columbia Utilities Commission (Commission) approved and issued the Thermal Energy System (TES) Regulatory Framework Guidelines;
- B. On August 1, 2014, in the FortisBC Alternative Energy Services (FAES) Application for Certificate of Public Convenience and Necessity (CPCN) and Rate Approvals Established in Agreements for TES for the Artemisia Development proceeding (Artemisia proceeding), Ameresco Canada Inc. (Ameresco) raised the question (Exhibit D-1 in the 2014 Artemisia proceeding) of whether, in the case of a purchase of a TES, the purchase price should be the basis for the determination of the status of the TES for exemption or whether it should be the actual capital cost to construct the TES;
- C. On September 17, 2014 (Exhibit A-10 in the TES Regulatory Framework proceeding) the Commission requested submissions from participants on the question of capital costs versus the purchase price and regulatory status of a TES;
- D. On October 3 and October 24, 2014, the Commission received submission from FAES, Ameresco, the BC Sustainable Energy Association and Sierra Club of BC (BCSEA-SCBC) and the British Columbia Pensioners' and Seniors Organisation, Active Support Against Poverty, BC Coalition of People with Disabilities, Counsel of Senior Citizens' Organisation of BC, and the Tenant Resource Advisory Centre (BCOAPO);
- E. The Commission has considered the submissions made by interveners on the issue raised by Ameresco, as well as other issues raised by parties within their submissions, and finds that several clarifications and

**BRITISH COLUMBIA  
UTILITIES COMMISSION**

**ORDER  
NUMBER** G-27-15

2

housekeeping modifications to the Commission's Thermal Energy Systems Regulatory Framework Guidelines are warranted.

**NOW THEREFORE** pursuant to section 11 of the *Administrative Tribunals Act* and in accordance with the Decision issued concurrently with this Order, the Commission's Thermal Energy Systems Regulatory Framework Guidelines, attached as Appendix A to this Order, are in effect.

**DATED** at the City of Vancouver, in the Province of British Columbia, this 2nd day of March 2015.

BY ORDER

*Original Signed By:*

D. M. Morton  
Panel Chair/Commissioner

Attachment





*British Columbia Utilities Commission*  
***Thermal Energy Systems***  
***Regulatory Framework Guidelines***

**For further information, contact:**

British Columbia Utilities Commission Attention: Commission Secretary Sixth Floor, 900 Howe Street Vancouver, BC V6Z 2N3	Telephone: (604) 660-4700 Toll Free: 1-800-663-1385 Facsimile: (604) 660-1102 <a href="mailto:Commission.Secretary@bcuc.com">Commission.Secretary@bcuc.com</a> website: <a href="http://www.bcuc.com">www.bcuc.com</a>
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## **A. INTRODUCTION**

These Guidelines describe the regulatory framework for Thermal Energy Systems (TES). They are intended to inform persons (which may include an individual or a company) who own or operate TES (TES Providers) on the regulatory approval process and ongoing regulatory requirements to construct and operate a TES and charge rates to customers of those Thermal Energy Systems in British Columbia.

These Guidelines may be revised or updated from time to time in order to incorporate lessons learnt and adjust to evolving market circumstances and changes to the *Utilities Commission Act* (UCA).

### **a. To whom do these Guidelines apply?**

These Guidelines are applicable to all TES Providers in the Province of British Columbia.

### **b. What is a Thermal Energy System?**

A Thermal Energy System consists of equipment or facilities for the production, generation, storage, transmission, sale, delivery or provision of heat, hot water and/or cooling from one or more thermal energy sources and through a distribution system. Energy sources may include waste heat, renewable (solar, ground/water source or air source heat pumps, geothermal, biomass etc.) as well as non-renewable energy sources. A TES may include plant, equipment, distribution piping, apparatus, property and facilities employed by or in connection with the provision of thermal energy services.

### **c. What is a TES Provider?**

A TES Provider is a person who owns and/or operates a Thermal Energy System.

### **d. Role of the British Columbia Utilities Commission**

The British Columbia Utilities Commission (Commission) is responsible for general supervision of public utilities in British Columbia. The Commission's role is to ensure that public utility customers receive safe, reliable, non-discriminatory energy services at just and fair rates to ensure that the utility's shareholders have a reasonable opportunity to earn a fair return on their investment.

### **e. The Utilities Commission Act**

The UCA sets out the Commission's duties and authority including regulation and general supervision of public utilities in British Columbia. Part 3 of the UCA lists the duties, responsibilities and restraints imposed upon a public utility.

Generally, if a person intends to purchase, construct or operate a public utility plant or system, or extend an existing public utility infrastructure, a Certificate of Public Convenience and Necessity (CPCN) is required. Approval of rates is also required before any customer can be billed for utility service.

The Commission has the authority to impose administrative penalties on utilities if they do not comply with the requirements of the UCA<sup>39</sup> or with Commission Orders. For more information on the Commission, please visit: [www.bcuc.com](http://www.bcuc.com).

#### **f. UCA Definition of and Exclusions from the Definition of Public Utility**

The UCA defines a public utility as a person owning or operating equipment or facilities in British Columbia for the provision of electricity, natural gas, steam or any other agent for the production of light, heat, cold or power to or for the public or a corporation for compensation.

The UCA specifically excludes the following from the definition of public utility and therefore, exclusion from regulation by the Commission<sup>40</sup>:

- a municipality or regional district providing services within its own boundaries;
- a person not otherwise a public utility who provides the service or commodity only to the person or the person's employees or tenants, if the service or commodity is not resold to or used by others; and
- a person not otherwise a public utility who is engaged in the production of a geothermal resource, as defined in the *Geothermal Resources Act*.

The *Geothermal Resources Act* defines "geothermal resource" to mean the natural heat of the earth and all substances that derive an added value from it, including steam, water and water vapour heated by the natural heat of the earth and all substances dissolved in the steam, water or water vapour obtained from a well, but does not include water that has a temperature less than 80°C at the point where it reaches the surface<sup>41</sup>.

Any exclusion from the definition of a Public Utility is with respect to a specific utility system. An example of this is the City of Nelson, who provides electrical energy to customers within its boundaries, and also to customers in the surrounding areas. As a municipality, the City of Nelson is excluded from the definition of a Public Utility with respect to energy sales within its own boundaries. However, the Commission does regulate the City of Nelson's sales with respect to customers in the surrounding area.

### **B. REGULATION OF THERMAL ENERGY SYSTEMS**

#### **a. Introduction**

Under the *Utilities Commission Act*, a TES Provider is considered a public utility. However, by OIC 399, 400 and 401 and Commission Orders G-119-14, G-120-14 and G-121-14, certain TES Providers are exempt from certain provisions of the UCA. Together, these exemptions provide a scaled approach to the regulation of TES. This

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<sup>39</sup> A copy of the UCA can be found at: [www.bclaws.ca/EPLibraries/bclaws\\_new/document/ID/freeside/00\\_96473\\_01](http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_96473_01)

<sup>40</sup> Please refer to the definition of public utility in the UCA for a complete description of those that are specifically not included and therefore excluded from the definition of public utility. If a TES Provider is unsure if it is excluded from the definition of a public utility, it should contact the Commission Secretary (information on inside cover page of this Guide) and/or seek legal advice.

<sup>41</sup> Given the definition of geothermal resource, most TES Providers utilizing ground source heat are not engaged in the production of a geothermal resource as defined in the *Geothermal Resources Act* due to the low temperatures involved in ground source heat exchange.

framework provides increased regulatory oversight as the size and scope of the TES increases. It consists of four categories of TES:

- i. **Micro TES:** A TES with a capital cost of \$500,000 or less is exempt from Part 3 of the UCA other than sections 42, 43 and 44.
- ii. **Strata Corporation TES<sup>42</sup>:** A TES owned or operated by a Strata Corporation, or the Strata Corporation's lessee, trustee, receiver or liquidator, that supplies the Strata Corporation's owners, is exempt from Part 3 of the UCA other than sections 42, 43 and 44.
- iii. **Stream A TES:** An On-Site TES with an Initial Capital Cost above \$500,000 but less than \$15,000,000 is exempt from sections 44.1, 45-46 and 59-61 of the UCA. TES Providers are required to register Stream A TES prior to building or otherwise acquiring the Stream A TES.
- iv. **Stream B TES:** All other TES will be regulated similar to other Public Utility systems. An application for a CPCN<sup>43</sup> and a rate approval application are required.

Although TES described in (i) and (ii) above are not exempt from all sections of the UCA, they will be referred to as "Exempt TES" within this Guide.

In Order G-27-15 and the associated Reasons for Decision, the Commission clarified the term "capital cost" as it is used to define the threshold between a Micro TES and a Stream A TES and the threshold between a Stream A TES and a Stream B TES. The exemption threshold is based on the cost to construct the TES and is not related in any way to the purchase price, whether that purchase price is below or above the cost to construct the TES. In the decision, the Commission recognizes there may be ambiguities in a determination of the cost to construct. For example:

4. A piece of equipment may be purchased or leased. How should leased equipment be treated in the as built cost?
5. A charge for the land occupied by the equipment/control room may be levied on the utility. Should the value of this land be recognized in the as built cost?
6. How should as built costs for extant, unregistered TES be determined, especially if the construction cost records are no longer available.

In cases such as these, including cases where the original cost is not easily available, the utility is expected to use its best efforts to determine the construction cost. The construction cost should reflect the cost to acquire the physical components at the time the TES is constructed along with all costs that are incurred to install the components and ensure that they operate correctly at the time of commissioning.

The Decision also stated that in cases where a purchased TES is an exempt TES, it will remain exempt with no requirement to register, regardless of the purchase price. Further, in cases where the purchased TES is Stream A, it will remain Stream A regardless of the purchase price.

All TES that were in service before August 28, 2014 without a CPCN and/or where no previous exemption was granted are deemed to be Stream A systems that require registration upon issuance of these Guidelines.

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<sup>42</sup> As defined by the *Strata Property Act* [SBC 1998].

<sup>43</sup> Sections 45 and 46 of the UCA address CPCNs.

A **site** is a legal property or parcel with defined boundaries for which a municipal building permit is issued or pending approval. A site is usually contained within the boundaries of a city block and is not a large multi-phase master development parcel which may be part of municipal re-zoning applications or multiple building permit processes into the future.

An **On-Site** TES consists of thermal energy generation and distribution equipment and fixtures that are physically located on the same site as the thermal load. It is designed to meet the energy demands of one or more customers on that site and doesn't share any generation or distribution facilities beyond the bounds of the site.

The characteristics of a Stream A TES are further described in section 2.3.1

A TES Provider could own and/or operate both regulated and exempted TES. An exemption is with respect to a specific TES - and does not necessarily apply to all of the TES Providers' TES.

**Figure 1** illustrates the dollar thresholds for each regulatory stream. TES operated by Strata Corporations are not subject to any upper limit.

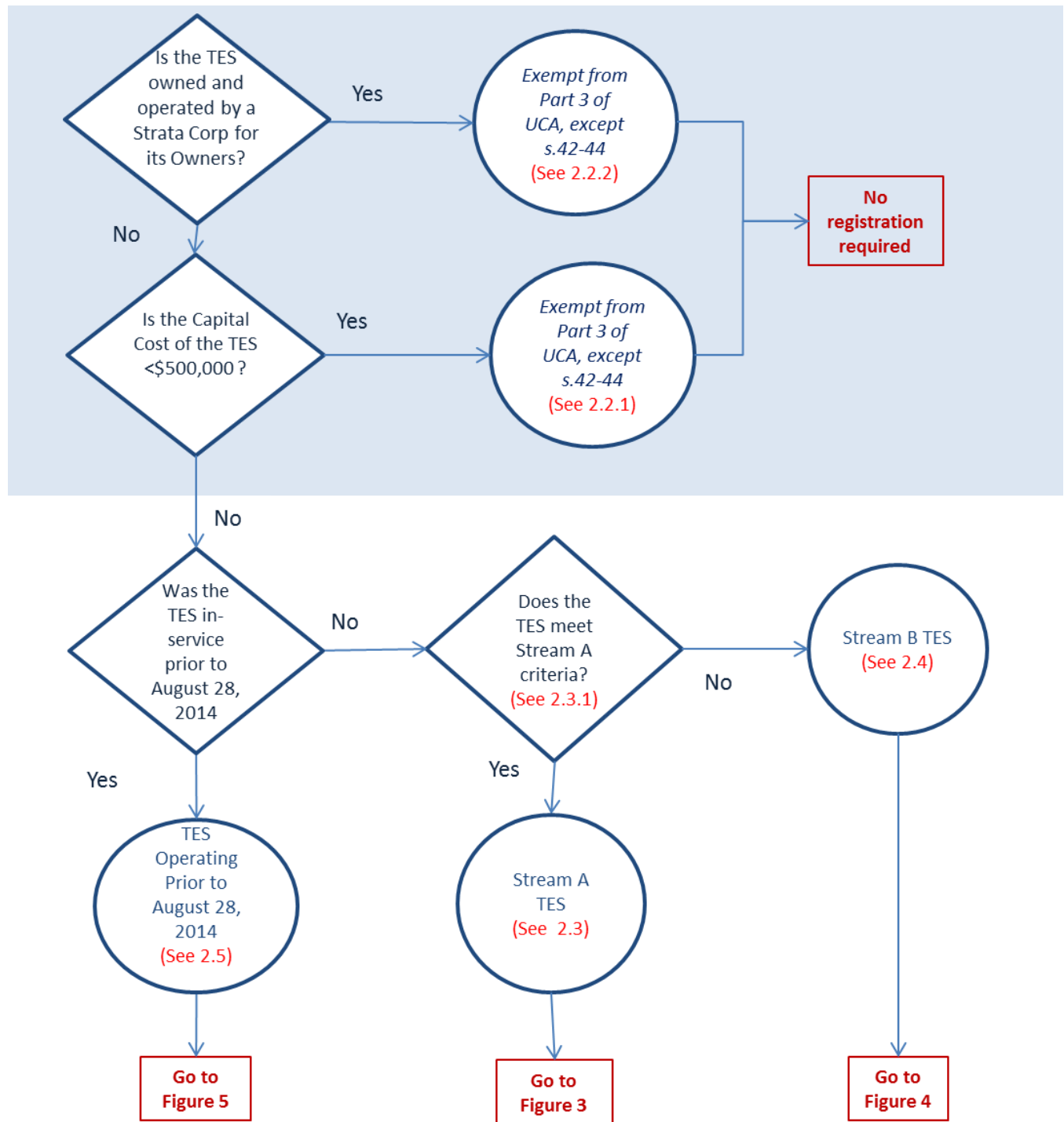


Figure 1: The TES Regulatory Framework

TES Cost	On Site TES	Other TES
≤\$500,000	Micro TES	Micro TES
≤\$15 Million	Stream A Regulation	Stream B Regulation
No upper \$ limit		

Figure 2 is designed to assist TES Providers in assessing which regulatory stream may be applicable for each Thermal Energy System. If the Applicant has questions on whether a particular TES is exempt, Stream A or Stream B TES, it should contact the Commission before submitting a registration or an application. The Commission ultimately decides the regulatory stream applicable to the particular TES and regulates accordingly.

Figure 2: Determination of the Appropriate Regulatory Stream



## **b. Exempt TES**

### **i. Micro TES Exemption**

A TES with an Initial Capital Cost that is less than \$500,000 is considered a Micro TES and is exempt from active regulation, including the requirement for a CPCN and Commission oversight of rates. If subsequent capital additions result in a TES that has, in aggregate, a capital cost of over \$500,000, registration under Stream A or Stream B, as applicable, will be required, unless the system meets the conditions of the Strata exemption described below.

A Micro TES Provider must be able to demonstrate that the capital cost of the system and any extensions, in aggregate, is less than \$500,000, if requested by the Commission to qualify for this exemption.

### **ii. Strata Exemption**

A TES owned by a Strata Corporation that exclusively serves that Strata Corporation's Strata Unit Owners is exempt from active regulation by Commission Order G-120-14. A Strata Corporation that owns the TES and provides energy exclusively to its Strata Unit Owners<sup>44</sup> is subject to the *Strata Property Act*, which offers recourse and consumer protection to Strata Unit Owners. Accordingly, customers can find recourse under the *Strata Property Act*, and not through the Commission under the UCA. This exemption does not include a TES with a customer that is a Strata Corporation.

### **iii. Registration and Reporting Requirements for Exempt TES**

There are no registration or reporting requirements for persons owning or operating an exempt Thermal Energy System. However, if the same person also owns or operates a Stream A or Stream B TES, in addition to one or more exempt TES, then that person will be subject to registration and reporting requirements for the Stream A and/or Stream B TES, as the case may be.

There may be changes in circumstances which alter a Thermal Energy System's exemption status. Some examples are:

- Two or more Micro TES that were built and operated independently by the same person are subsequently combined for operational purposes, bringing the capital cost of the Micro TES above the threshold amount.
- A TES owned and operated by a strata that formerly exclusively served its own members, begins to sell thermal energy to customers who are not strata members.

In advance of a change of circumstance, a TES Provider is required to assess which regulatory stream is applicable to its TES and register or apply accordingly before proceeding.

### **iv. Complaints Concerning Exempt TES**

Upon receipt of a complaint relating to an Exempt TES, the scope of the Commission's review will be limited to whether the TES meets the criteria to qualify for an exemption or whether the TES should be characterized as a Stream A or Stream B TES. The Commission will review whether the capital cost of the TES is, or likely is, greater

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<sup>44</sup> A Strata Unit Owner is an owner of a unit that is part of a Strata Corporation.

than the maximum threshold for a Micro TES or the TES is owned by a Strata Corporation and is providing energy exclusively to its Strata Unit Owners. If that does appear to be the case, the Commission may take further action, such as requiring registration of the TES and further review of rates and contracts. The owner of the TES should be prepared to provide evidence concerning the costs, ownership of and/or the customers of the TES.

Accordingly, upon receiving a complaint concerning an exempt TES, any investigation the Commission may undertake will be limited to what is required to determine whether the TES meets the requirements for exemption. For this reason, sections 42, 43 and 44 of the UCA, which deal with a public utility's duty to obey Commission orders and to keep and provide information that the Commission requests, applies to exempt TES. **If, as a result of an investigation, the Commission determines that a TES does not meet the requirements for exemption, the customer's complaint will be investigated further.**

As per the Commission Complaint Guidelines (<http://www.bcuc.com/Complaint.aspx>), a complainant must submit evidence that supports their allegations.

### c. Stream A TES

#### i. Stream A TES Characteristics

The following types of TES are considered by the Commission to be a Stream A Thermal Energy System:

- Any On-Site TES with the characteristics described in Table 1; and
- Any TES that does not meet the requirements of an Exempt TES or any TES without a CPCN or a CPCN exemption that has an in-service date prior to August 28, 2014.

**Table 1 Stream A TES Characteristics**

- |   |
|---|
| <ol style="list-style-type: none"> <li>1. The thermal generation and distribution equipment and facilities are located on the same Site as the thermal load.</li> <li>2. The TES is designed to meet the energy demands of a specific Site (one or more customers or buildings).</li> <li>3. The Thermal Energy System serves one or more customers or buildings on a single Site but there are no shared or common thermal generation or distribution facilities beyond the boundaries of a single Site.</li> <li>4. There is no, or very limited, use of public rights of way or public streets.</li> <li>5. The TES provides thermal energy to an existing building(s) or to a new building(s) planned or approved under a municipal building permit process.</li> <li>6. The TES has an AACE Class 3 capital cost estimate of equal to or greater than \$500,000 and less than \$15 million.</li> </ol> |
|---|

A person owning or operating a Stream A TES is exempt from CPCN requirements, regulation of rates and Long-Term Resource Planning (sections 44.1, 45-46 and 59-61 of the UCA) with respect to that Stream A TES. However, all other sections of the UCA apply.

The following examples are provided to further clarify what the Commission considers to be a Stream A TES:

*Example 1:*

In the case of two or more separate sites each of which has a TES, where those systems are not physically connected to each other, each site will be considered a separate TES. However, if the systems are related in some other way, the individual Stream A applications may be filed at the same time for convenience. This could be the case if, for example, there is a single customer such as a school district.

*Example 2:*

Two or more physically disconnected TES on a single site (single building permit), that are not physically connected to each other, will be considered a single TES (do not need to be physically connected).

*Example 3:*

Two or more separate sites where Stream A TES are physically connected where each TES is designed and maintained to meet the load for the site on which it is located. Each TES will be considered a separate Stream A TES (even though physically connected).

*Example 4:*

Two or more separate sites where Stream A TES are physically connected to another TES on a separate site and the TES at each site is NOT designed and maintained to meet the load for that site which it is located (i.e. thermal energy generation may be located at one site but dependant on sharing generation from another) will be considered to be a Stream B TES. In this example, the interconnection between two TES may occur after the in-service date. For example, a Stream A System could be approved and built in 2014 and in 2016, connected to a second TES on a separate site. If the second site TES is not designed to meet the load for that site (i.e. will share thermal energy generation with the original Stream A TES), then in that case a Stream B CPCN and rate approval application must be filed before the two systems can be interconnected. Please see section 2.4 for a further discussion of Stream B systems and CPCN applications.

ii. Rates and Contracts for Stream A TES

A Stream A TES Provider must have a long-term contract(s) with its Customer(s) which set out the utility's fees/charges and terms of service. Given the TES Provider's ongoing obligation under the UCA to provide safe and reliable service, the Commission expects that the term of contract will be for as long as the Customer(s) continues to occupy the premises that are served by the Stream A TES.

The following are the minimum provisions that must be included in a long-term contract for Stream A TES in order to qualify for exemption(s) as a Stream A TES.

*\*Attestation to these provisions must be included in the Stream A Registration Form\**

1. Schedule of all Fees and Charges for thermal energy service (shown as monthly, annual charges or sample bills at different energy consumption levels). Include the initial rate and any subsequent rate adjustments, if applicable.
2. Description of the minimum or maximum contract charges and/or volumes. If none exist, then this should be clearly stated.
3. Clear identification in dollar terms of any front-end or back-end Fees and Charges, and the term of applicability.

4. Clearly defined penalties/charges (if any) for early termination of contract. Clauses must clearly state what is to be paid at different stages of the contract life including any contract expiry/non-renewal fees or other such charges.
5. Description of the circumstances where disconnection of service may occur. Identify the parties and the required actions with reasonable notice in order for service reconnection to occur.
6. Identification of the energy services covered by the TES and the additional services/fees which are not covered under the TES Fees and Charges which will be at the Customers' own expense (e.g. electricity).
7. Telephone number or other means by which customers will be able to contact the utility, in the event of disputes and/or concerns with rates and services, but particularly regarding an emergency.
8. Description of facilities and trained personnel that will provide emergency response.
9. Information regarding complaint process to the Commission.

**Because the Commission will not be reviewing rates or the contracts upon which those rates are based, any and all contracts that set out rates for Stream A TES must contain the following clause to inform parties of the role of the Commission:**

*The Customer acknowledges [TES Provider name] is a public utility as defined in the Utilities Commission Act (UCA). However, this Thermal Energy System has a limited exemption, granted by British Columbia Utilities Commission Order #, from direct oversight of rates. Accordingly, the British Columbia Utilities Commission has not reviewed this Agreement, nor has it approved the rates charged for thermal services. However, other provisions of the UCA apply, including the obligation to provide safe and reliable service. Any disputes between the Customer and the utility that are within the jurisdiction of the British Columbia Utilities Commission pursuant to the UCA, may be referred for determination to the British Columbia Utilities Commission.*

### iii. Complaint Process for Stream A TES

Complaints can be brought forward by any customer of a Stream A TES Provider. Where the customer is a Strata Corporation, only the Strata Corporation may bring forward a complaint on behalf of the strata members (the Strata Unit Owners). Individual Strata Unit Owners who bring forward a complaint to the Commission will be directed to raise the issue with their Strata Corporation Council.

The Commission will receive complaints concerning the following rates or service issues related to Stream A Thermal Energy Systems:

- **Service:**
  - **Safety:** The operation of the TES has caused, or has the potential to cause, harm or injury to persons, or material damage that impairs the value, condition or function of property.
  - **Reliability:** The TES is performing, or has a high probability of performing, in an unreliable manner such that service is not dependable or consistent.
- **Rates:**
  - **Accordance with Regulatory Requirements:** The rates were not disclosed up-front for the full life of the contract or plainly stated, and/or the fees and charges are not available for public inspection on the TES Provider's company website or the location of business (as per section 4.2.1).

- **Accordance with Contract:** The rates charged are not consistent with the long-term contract(s) for service or disclosure statement(s).

With regard to complaints concerning rates, the Commission will not consider the propriety of rates that the TES Provider is charging as long as the rate is in accordance with a long-term contract.

Customers wishing to file a complaint are directed to view the Commission's Complaint Guidelines (found at <http://www.bcuc.com/Complaint.aspx>). As per the Complaint Guidelines, customers are encouraged to bring their complaint directly to their TES Provider first, to give them an opportunity to resolve the customer's issues or concerns before involving the Commission. A complaint to the Commission will only be considered if other forms of resolution are unsuccessful. As per the Complaint Guidelines, a complainant must submit evidence that supports their allegations.

Upon receiving a complaint about a TES Provider's rates or service, the Commission will review the complaint and the evidence submitted by the complainant in support of the complaint. If the Commission accepts the complaint, the Commission will provide the TES Provider an opportunity to resolve the complaint or respond with their own evidence. The Commission may ask the TES Provider to provide specific information and will consider all of the evidence in assessing the complaint.

If warranted, the Commission will initiate a more fulsome regulatory review, and may escalate the complaint to an adjudication process. Escalated review or adjudication may result in the Commission exercising its authority under the UCA, including, but not limited to, lifting the exemptions provided at registration, setting rates or ordering the Stream A TES Provider to improve service.

The onus is on the Stream A TES Provider to ensure it complies with the Stream A TES requirements. A Stream A TES Provider must retain documentation or evidence that it has complied with the Stream A requirements in the case of a regulatory review initiated by complaint.

#### iv. Registration Requirements for Stream A TES

As shown in [Figure 3](#) below, all Stream A TES with an in-service date after August 28, 2014 must file the Registration Form found in Appendix A. The Commission will review the Registration for completeness. If further information is required by the Commission, the Applicant will be contacted. When a complete application is received, the Commission will either:

1. confirm by Order that the TES is registered as a Stream A TES; or
2. notify the Applicant to reapply as a Stream B TES, as per section 2.4.

If further information is required by the Commission, the Applicant will be contacted.

Once a TES is confirmed by the Commission to be a Stream A TES, the Commission will issue an Order to exempt the registrant from CPCN requirements, Rate Regulation and the requirement to file a Long-Term Resource Plan with respect to the registered Stream A System.

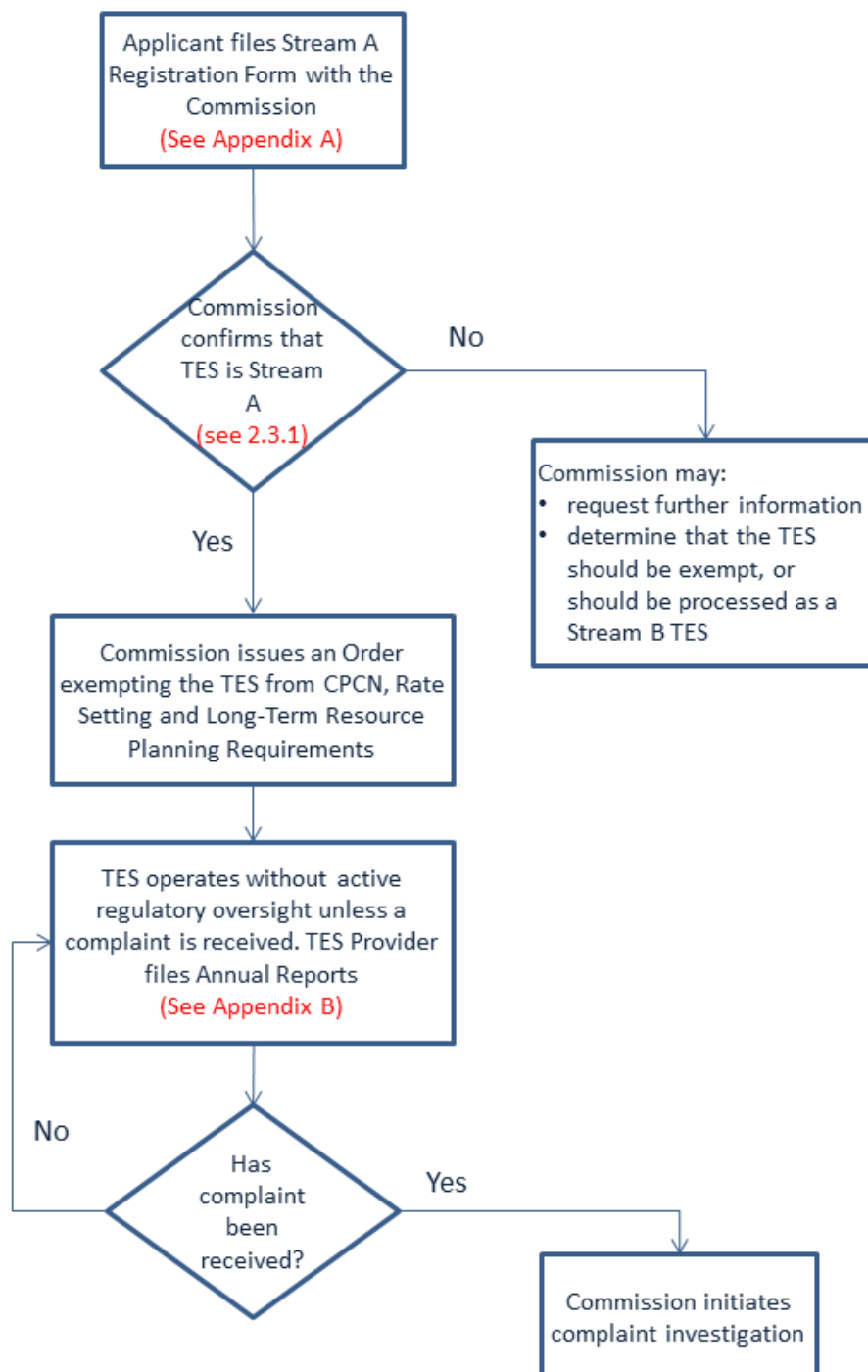
Applications that do not require further information are expected to be processed and an Order issued in as few as two weeks from receipt of the Application.

The Applicant must retain all background material related to the contents of the registration, for inspection and/or verification by the Commission, for as long as the TES is operational. It is important for the Applicant to ensure the information is clear, accurate and complete for the most efficient processing.

Prior to any transfer of ownership of a Stream A TES, an application must be made to the Commission for approval pursuant to section 52 of the UCA. The owner must provide the new owner with copies of the background material and the new owner must ensure they maintain that material. Appendix D sets out the information the new owner is required to provide to the Commission. Please contact the Commission Secretary if further information is required.



Figure 3: Stream A TES Operating After August 28, 2014



v. Extensions to Stream A TES

TES Providers must notify the Commission of any extension to a Stream A TES. An extension is any capital investment that is intended to increase the capacity of the TES. Provided the sum of the proposed extension and the initial system (plus any previous extensions) does not exceed \$15 million, notification by way of a Stream A Application is sufficient. The Applicant should ensure that the Stream A Extension Application clearly identifies only those areas of the Thermal Energy System that the Applicant proposes to change.

If the sum of the proposed extension and the initial system, plus the cost of any previous extensions exceeds \$15 million, the TES is considered a Stream B TES and a CPCN Application will be required. A CPCN application may also be required if an extension results in service to customers on a site different to the site on which the TES is located. Please see section 2.4.2 for more information on Stream B CPCN requirements.

vi. Annual Reporting Requirements for Stream A TES

All Stream A TES Providers must submit to the Commission an Annual Report in accordance with the template attached as Appendix B to these Guidelines on or before February 15 of the most recent calendar year.

Information in this report is used for the Commission's Annual Report to the Legislature and in the assessment of the annual levy (see section 3). Both the Commission's Annual Report and the Commission Order that assesses the levy are public documents. Accordingly, the information provided in the Annual Report will not be held confidentially.

**d. Stream B TES**

A TES that does not meet the requirements for an exemption and does not meet the Stream A characteristics described in section 2.3.1 is by default considered a Stream B TES.

i. Stream B Regulatory Process

All Stream B TES Applicants must file a CPCN and Rates Application with the Commission. The CPCN and Rates Application may be filed simultaneously, or the Rates Application may be filed at a later date but not later than a customer is charged a fee for service. Construction of the TES cannot start until a CPCN is issued by the Commission. Upon determining that the Applicant's TES is to be considered under Stream B regulation, it is the Commission's sole discretion the process by which an Application will be reviewed.

After receiving approval for a CPCN authorizing the Applicant to construct and/or operate a Stream B TES, the TES Provider must:

1. File a TES Rates Application if it has not done so, according to the Guidelines set out in section 2.4.4. The Rates Application must include a Tariff<sup>45</sup> which outlines the schedule of proposed rates/fees and terms and conditions for all Customers. The TES Provider may not charge the customer a rate before it has filed the Rates Application for approval.
2. Submit an Annual Report within four months of each fiscal year according to the Guidelines set out in section 2.4.6.

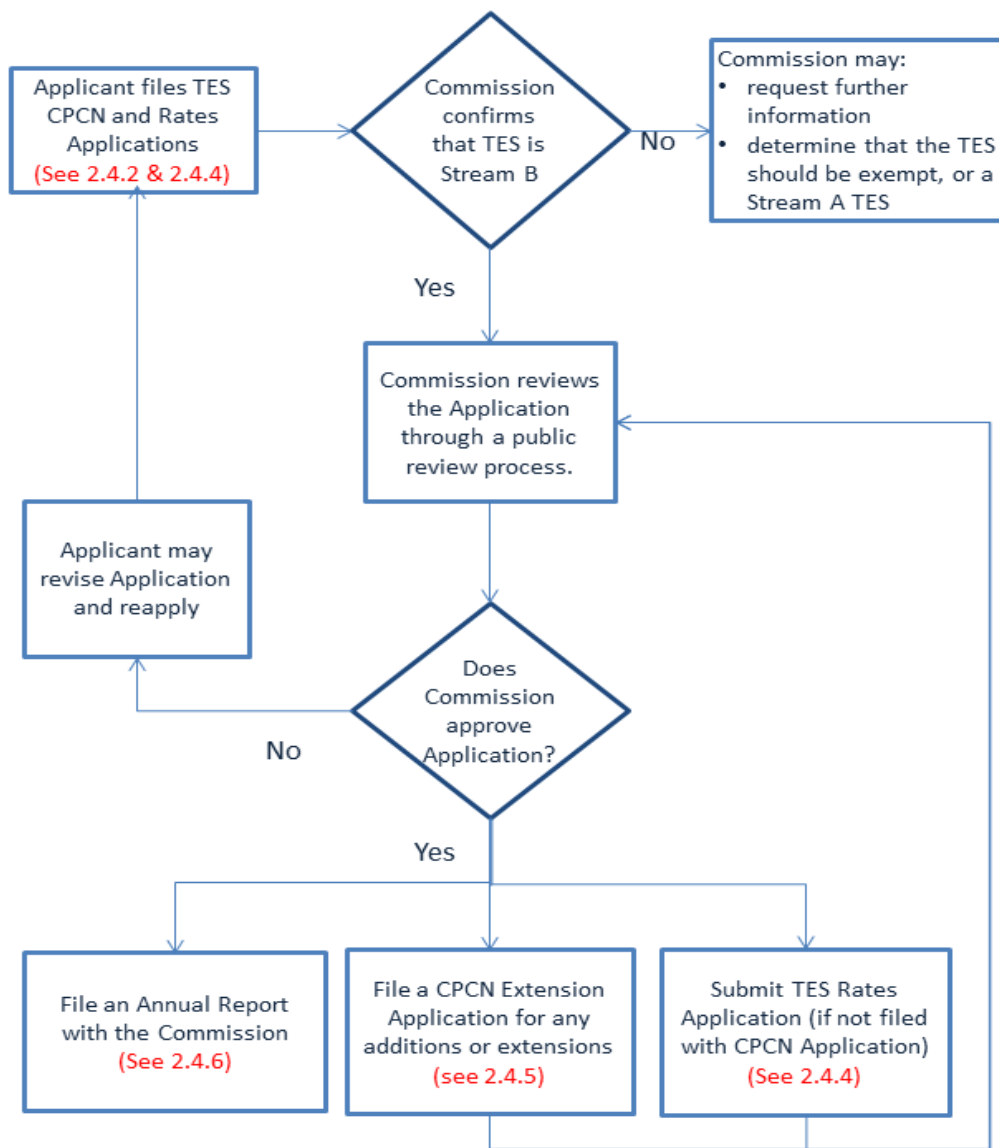
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<sup>45</sup> A Tariff is a rate schedule, schedule of fees, terms and conditions, and definitions for the charging of rates that is approved by the Commission.

Stream B TES Providers must file a TES Rates amendment Application in the event that it proposes to change the rate.

Figure 4 below illustrates the Regulatory Review Process for Stream B TES:

Figure 4: Stream B TES Operating After August 28, 2014



ii. Stream B CPCN Application Requirements

The CPCN Guidelines can be found on the Commission website at:

[http://www.bcuc.com/Documents/Guidelines/2010/DOC\\_25326\\_G-50-10\\_2010-CPCN-Application-Guidelines.pdf](http://www.bcuc.com/Documents/Guidelines/2010/DOC_25326_G-50-10_2010-CPCN-Application-Guidelines.pdf)

These Guidelines are intended to be as general as possible with respect to the information required. If an Applicant is of the view that any guideline(s) are not applicable, the Applicant must provide explanations why it is considered not applicable.

In addition to addressing the CPCN Guidelines, Applicants should also address the following:

- i. Evidence that the design energy capacity of the system has been appropriately determined and verified by a qualified person.
- ii. Anticipated construction build-out and TES operation schedule.
- iii. Load Analysis and Energy Demand Forecast for the Project:
  - a. description of methodology used to forecast peak load and energy demand including key inputs and assumptions;
  - b. forecast of floor area by building archetype (e.g., high rise, mid-rise, row house, retail, etc.) including data sources and assumptions;
  - c. map of the TES Provider's service territory for the Project with identification of buildings connected;
  - d. thermal energy end uses (e.g., space heat, domestic hot water, space cooling);
  - e. energy use intensities (EUIs) by thermal energy end use for peak load ( $\text{W/m}^2$ ) and energy demand ( $\text{kWh/m}^2$ ), including data sources and assumptions;
  - f. summary table of development schedule by year and building archetype or building including total sales (MWh) and peak (MW) for each year of the development schedule; and
  - g. future expansion of the Project that is contemplated. Provide specifications concerning the size and location of the potential expansion.
- iv. The amounts and sources of any contributions (developer), grants and other funding.
- v. Forecast and treatment of Capital Reserve Fund balances and impacts.
- vi. Annual operating budget specifying major cost components.
- vii. A description of emergency repair fund sourcing, size rational and access protocol.
- viii. A description of sustaining/replacement capital fund sourcing, size rational and access protocol.
- ix. Any additional fees or liabilities of any kind.
- x. Financial projections for various build-out scenarios to assess risk and required level of revenue requirements.

- xi. Identify and evaluate risk factors, explain who bears the risk, and what actions are available to mitigate these risks. Some examples of risk factors may include:
  - a. technology risk;
  - b. fuel cost and availability;
  - c. customer base;
  - d. property development risk;
  - e. developer/customer connection risk;
  - f. load forecast uncertainty; and
  - g. financial risk.

In the event of a transfer of ownership of a Stream B TES, an application must be made to the Commission pursuant to section 52 of the UCA and the new owner must ensure they obtain a CPCN prior to the acquisition.

### iii. Stream B TES Rates

Approval of Stream B TES rates is governed by sections 59-61 of the UCA. Before setting rates, Applicants should ensure that they review these sections.

Applicants are also required to consider the Commission's rate setting principles, outlined below.

1. provide an equitable balance of risk and cost (such as forecast load and cost risk) between the utility and the ratepayer or generation of ratepayers;
2. use the least deferral mechanisms possible;
3. restrict the ability of the utility to pass controllable costs onto ratepayers;
4. use the least amount of regulatory oversight to protect the ratepayer (minimize the regulatory burden and costs on the utility, ratepayers and the Commission); and
5. avoid rate shock (>10 percent change in rates per annum is generally considered "Rate Shock").

### iv. Stream B TES Rates Application

A Stream B rate Application and calculations must include:

- i. Description and details of the proposed rates (at minimum) for the initial five years for all rate classes. Include information on:
  - a. the rate design (i.e. fixed/variable component, single/multiple rate classes, etc.);
  - b. how rate increases will be determined; and
  - c. why the rate(s) and rate design is fair and reasonable.
- ii. Options and terms for customers who enter into long-term contracts to opt out/cancelling the energy supply services.
- iii. Information confirming the proposed rates will be competitive with other service options that are available to customers in the new service area (if appropriate).

- iv. If the rate proposed is based on a regulated Cost of Service<sup>46</sup> rate-setting mechanism, this will be considered as a method of last resort. Therefore, the following must be provided:
  - a. analysis of alternative rate setting mechanisms for the Project;
  - b. justification as to why these alternatives are not preferable, making reference to:
    1. the natural monopoly characteristics of the system;
    2. the competitive market potential for the project;
    3. the utility's obligation to serve new customers; and
    4. rate setting mechanisms that encourage public utilities to increase efficiency, reduce costs and enhance performance.

A Stream B Rates Application must also include a proposed Tariff containing fees and terms and conditions of service. Include two copies of the tariff for endorsement by the Commission. The Commission must approve and endorse one copy of the tariff for the Applicant before it is deemed effective.

A sample tariff and tariffs for all utilities are available for viewing at the Commission's office. For further information, please contact the Commission Secretary.

If the Applicant files a Rates Application subsequent to a CPCN approval, the following additional information is required:

- i. Name and address of Applicant;
- ii. Name and address of Project;
- iii. Commission Order granting a CPCN for the Project.

v. Extensions to a Stream B TES

Once a CPCN is granted for a Stream B TES, a new CPCN Application may be required if the TES Provider plans to construct or operate an extension to the TES. An extension is a capital addition to the system of a material dollar amount to provide additional capacity to meet increased demand. If the ratio of the capital costs of the planned extension to the initial capital cost of the TES, plus any previous extensions, exceeds one, a CPCN is required. A CPCN is also required if, as a result of the extension, rates for existing customers will increase by an amount greater than 10 percent. These criteria are summarized in the table below:

EXTENSION COST	CPCN REQUIREMENTS
$\frac{\text{Planned Extension Cost} + \text{Cost of Any Previous Extensions}}{\text{Initial TES Construction Cost}} > 1$ <p style="text-align: center;">OR</p> $\text{Rate Impact as a result of Planned Extension} > 10\%$	CPCN REQUIRED
$\frac{\text{Planned Extension Cost} + \text{Cost of Any Previous Extensions}}{\text{Initial TES Construction Cost}} \leq 1$ <p style="text-align: center;">AND</p> $\text{Rate Impact as a result of Planned Extension} \leq 10\%$	CPCN NOT REQUIRED

<sup>46</sup> A regulated Cost of Service rate-setting mechanism is a model that determines prices based on the costs of serving different customers and generally includes a regulated rate of return, which is deemed to be the fair return on investment.

In the event that a CPCN is not required, the TES Provider is required to file an application in the form set out in Appendix C.

A CPCN or the Stream A Application, as the case may be, must be granted prior to construction or operation of the extension. Please contact the Commission for further information if an extension is considered.

vi. Annual Reporting Requirements for Stream B TES

Stream B TES Providers must file an Annual Report with the Commission **within four months of the TES Provider's fiscal year end.**

Although the Commission's annual reporting requirements may change from time to time, as of the date of this Guide, annual reporting requirements are set out in Commission Letters L-36-94 and L-14-95.

vii. Complaint Process for Stream B TES

Customers wishing to file a complaint are directed to view the Commission's Complaint Guidelines (found at <http://www.bcuc.com/Complaint.aspx>) prior to filing a complaint. As per the Complaint Guidelines, customers are encouraged to bring their complaint directly to their TES Provider first, such that the TES Provider may have an opportunity to resolve the customer's issues or concerns before involving the Commission. A complaint to the Commission will only be considered if other forms of resolution are unsuccessful. As per the Complaint Guidelines, a complainant must submit evidence that supports their allegations.

e. **TES Operating Prior to August 28, 2014**

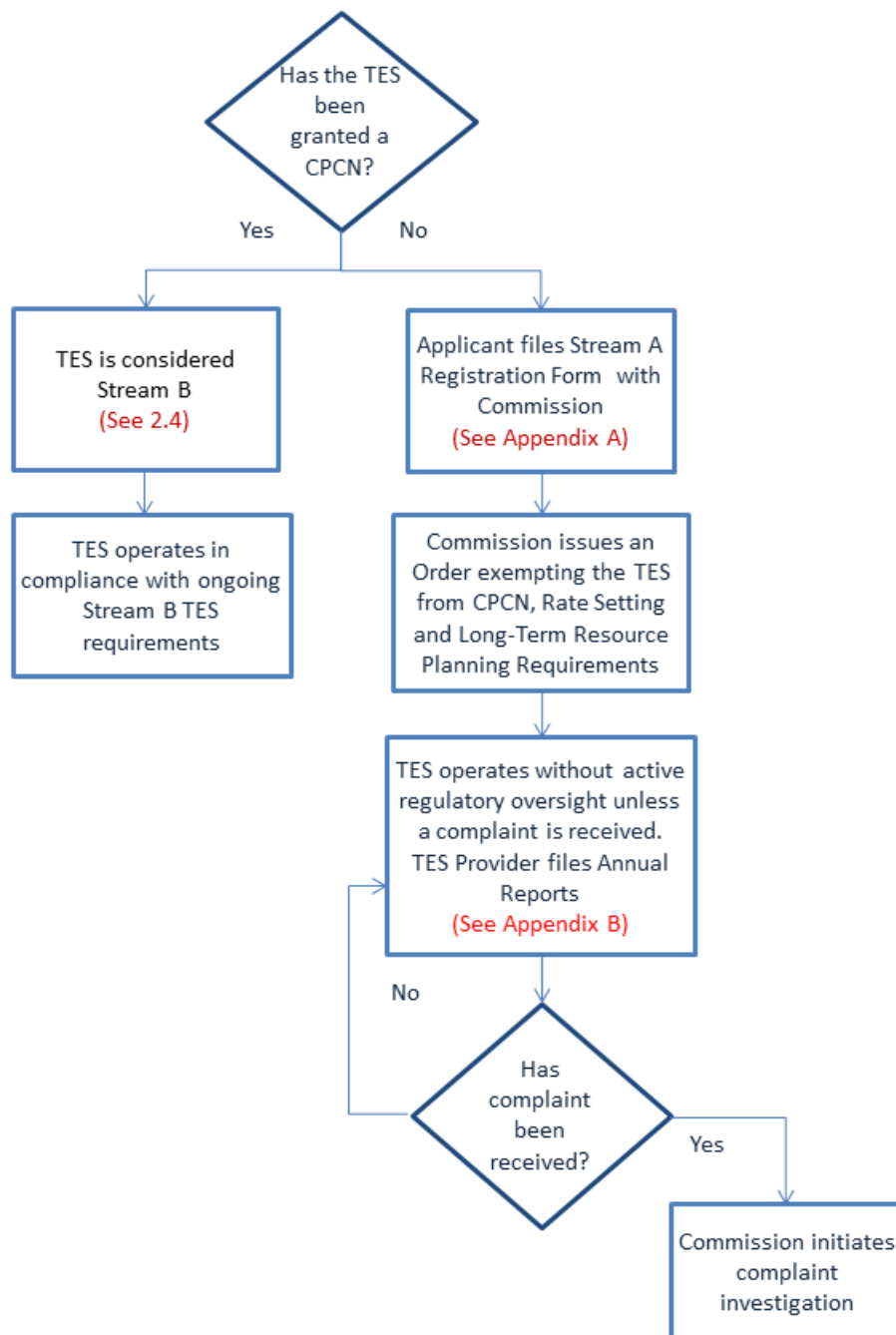
A TES that would not otherwise qualify for exemption as either a Micro TES or a Strata Corporation TES that was in-service before August 28, 2014, and for which no previous CPCN exemption was granted, must file a Stream A registration form with the Commission. Upon acceptance of the Stream A registration, the Commission will issue an order granting the TES Stream A exemption status. Going forward, section 2.3 of the Guidelines will apply to this TES.

Any TES that has previously been granted a CPCN will continue to operate under that CPCN and should not re-register the TES under this TES Guide. From August 28, 2014 that TES will be subject to the regulatory requirements of a Stream B TES, regardless of the size of the TES. The TES Provider is required to comply with the ongoing requirements for Stream B systems outlined in the Guidelines.

Any TES Provider that has a CPCN approval but no rates have been approved is required to contact the Commission Secretary.

Figure 5 below illustrates the regulatory process for TES operating prior to August 28, 2014.

Figure 5: Stream A TES Operating Prior to August 28, 2014





#### **f. Capital Reserve Provisions**

Owners and/or operators of Stream A and Stream B Thermal Energy Systems must have sufficient capital reserve provisions in place to ensure its ability to replace equipment essential to maintaining safe and reliable thermal energy service. The need for replacement may arise in situations where equipment either fails to operate prior to its end of life or as it comes to the end of its planned useful life.

Service interruption mitigation in the event of equipment failure must be considered in the design and set-up of the TES. Back-up energy service, redundancy, rapid deployment of temporary backup energy service through insurance etc. are some of the options that the TES Provider must have considered.

All TES Providers are required to assess, on an ongoing basis, their capital reserve requirements and ensure they have sufficient capital reserve in place. The TES Provider may use a portfolio approach in applying the capital reserve provisions where a single TES Provider owns and/or operates multiple TES. Only one capital reserve is required for a TES, regardless of whether owner and the operator are the same or different entities.

An Applicant requesting approval of a Stream A Thermal Energy System is required to attest that it has sufficient capital reserve provisions and must also attest, in its annual report that it continues to maintain adequate capital reserve provisions. Stream B providers are required to provide information about its capital reserve for review during a CPCN Approval process.

The Commission may, at any time, initiate a further review of a TES Provider's capital reserve provisions.

#### **g. Filing Documents with the Commission**

Stream A Registrations and Stream B Applications must be made to the Commission Secretary. All documents are to be filed with the Commission Secretary in accordance with the Commission's document filing protocols available on the Commission's website at: [www.bcuc.com](http://www.bcuc.com).

Documents will be made public, except where special circumstances require confidentiality. If an Applicant requires an application or certain sections of an application to be kept confidential, it must apply to do so and provide adequate justification to the Commission. Please refer to the Confidential Filings Practice Directive, available on the Commission's website at: [www.bcuc.com](http://www.bcuc.com).

### **C. TES REGULATION LEVY AND COMMISSION COST RECOVERY**

#### **a. TES Levy**

The Commission recovers a portion of the costs associated with specific proceedings directly from the TES Provider involved. Other hearing costs and all overhead expenses are recovered from all regulated utilities through a levy authorized by the UCA. The levy is apportioned among regulated utilities on the basis of energy sold in a calendar year.

For calendar 2013, the amount of the levy was \$0.012586 per GJ. The levy will be assessed on all Stream A and Stream B TES Providers. There will be no levy applied with respect to Exempt TES.

TES Providers will be also be assessed proceeding costs should a proceeding be required. A proceeding will typically be required for a Stream B CPCN Application and may be required as a result of a complaint against either a Stream A or a Stream B system. There are no additional fees assessed for a Stream A registration.

Depending on the outcome of the hearing of a complaint, the Commission may apportion the hearing costs between the TES Provider's owner/shareholders and the TES Provider's customer(s).

**b. Collection of Information for the Levy**

Currently, the Commission contacts all public utilities in February of each year to collect energy sales (\$), sales volumes and number of customers. This information is collected from TES Providers on a TES basis.

Beginning on August 28, 2014, this information will be collected from Stream A TES Providers through the Annual Report (see section 2.4.6 and Appendix B). Stream B Providers will be contacted annually by the Commission in February for this information.

Information concerning energy sales, sales volumes and number of customers is used for the Commission's own Annual Report to the Legislature in addition to the assessment of the annual levy. Both the Commission's Annual Report and the Commission Order that assesses the levy are public documents. Accordingly, the information will not be held confidentially.



web site: <http://www.bcuc.com>

TELEPHONE: (604) 660-4700  
BC TOLL FREE: 1-800-663-1385  
FACSIMILE: (604) 660-1102

• **APPENDIX A REGISTRATION FORM FOR “STREAM A” THERMAL ENERGY SYSTEMS (TES)**

By filing this Registration Form with the Commission, the Applicant attests that all information provided is true, accurate and complete.

Stream A TES Providers must retain documentation or evidence in support of the information provided as it may be required for future potential reviews initiated by complaint or as required by the Commission.

<b>Stream A TES - Registration Form</b>	
<b>Applicant Information</b>	
Name of Applicant:	Company Name:
BC Business Registration No.:	Year Registered:
Full Address:	
Phone:	Email Contact:
Publicly or Privately held Business:	
Owner/CEO (name and address):	
Board Chair (name and address):	
Name of Parent Company if applicable and address:	
<b>TES Specifics</b>	
TES Location (address):	
Is this TES a: <input type="checkbox"/> new construction <input type="checkbox"/> retrofit <input type="checkbox"/> purchase <input type="checkbox"/> In service prior to 2014/08/24 <input type="checkbox"/> Extension to an existing TES	In-Service date of the TES (YYYY/MM/DD):
Description of the construction phase-in or build-out period (in years):	
Service provided: <input type="checkbox"/> space heating, <input type="checkbox"/> cooling, <input type="checkbox"/> domestic hot water	
Primary thermal energy sources:	Heating:
	Cooling (if applicable):
Energy conversion technology used:	
Buildings served: <input type="checkbox"/> single, or <input type="checkbox"/> multiple, how many?	Total square meters served:
Municipal Building Permit Number:	

Location of TES facilities and description of site size. Include map or schematic diagram if possible.															
Description of TES including energy centre and distribution system (drawing, diagram or description of equipment, connections etc.)															
Describe system size and known energy demand.															
Description of whether system and or site is designed to be scalable and <u>intended</u> to connect to other systems, buildings or locations.															
Description of back up or alternative services available. Including information of provider.															
Any other information on service/energy provided and the scope of services and facilities.															
Description of the use of municipal or public rights of ways.															
Name the customer(s) involved in the selection or signing of contracts.															
Number of customers/end-users: <ul style="list-style-type: none"> <li>Initially;</li> <li>In 5 years</li> </ul>															
Type of customers: (e.g.) <ul style="list-style-type: none"> <li>residential/commercial/office;</li> <li>individual tenants/strata corporation</li> </ul>															
Is (are) the Customer(s) obligated or restricted to taking service from the TES? If so, how and why.															
What percent of the estimated TES cost was/will be competitively tendered?	How else is cost reasonableness for construction of the facility assured?														
<b>Load Forecast and Analysis</b>															
<input type="checkbox"/> I/We confirm that the load analysis and energy demand forecast was/will be completed by the following qualified person(s): [Company name and qualifications]															
Information on peak loads (MW) and annual loads (MWh) by thermal energy end-use.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 35%;"></td> <td style="width: 50%; text-align: center;">Total</td> </tr> <tr> <td rowspan="2" style="text-align: center; vertical-align: middle;">Peak Load (MW)</td> <td>Heating</td> <td></td> </tr> <tr> <td>Cooling</td> <td></td> </tr> <tr> <td rowspan="2" style="text-align: center; vertical-align: middle;">Annual Loads (MWh)</td> <td>Heating</td> <td></td> </tr> <tr> <td>Cooling</td> <td></td> </tr> </table>				Total	Peak Load (MW)	Heating		Cooling		Annual Loads (MWh)	Heating		Cooling	
		Total													
Peak Load (MW)	Heating														
	Cooling														
Annual Loads (MWh)	Heating														
	Cooling														
What is the method used to forecast the peak and annual loads? What are the key assumptions and design references used?															

What is the peak design output (MW) of the TES (not including peaking/backup systems)?				
What is the peak design output (MW) of the peaking/backup system?				
Has the TES been designed to meet the full peak load for the site? If not, please explain other sources of peaking energy available to customers.				
<b>Cost Estimate</b>				
Estimated Capital Cost (ACE Class 3 minimum) (Applicant may add additional line items as appropriate)	Category	\$, 000s		
	Equipment			
	Materials			
	Engineering / Design			
	Construction			
	Financing			
	Fees / Overhead			
	Other 'soft' costs			
	Total			
Describe methodology for estimating Overhead and Other 'soft' costs				
Estimated Annual Operating Costs	Category	\$, 000s		
	Labour			
	Consumables			
	Sustainment Capital			
	Admin/Taxes / Overhead			
	Insurance			
	Other (specify)			
	Total			
Describe methodology for estimating sustainment capital and operating Admin/Overhead.				
If the system is being purchased, what is the purchase price?				

Attestation Requirements for Stream A TES	
<b>Eligibility for Stream A TES Regulation:</b>	<input type="checkbox"/> I/We certify that the proposed TES meets the description of an On-Site TES, as defined in the TES Regulatory Framework Guidelines.  <input type="checkbox"/> I/We certify that the proposed TES is associated with an approved single development/building permit.  <input type="checkbox"/> I/We certify that the proposed TES capital cost is \$15 million or less.
<b>Customer Disclosure:</b>	<input type="checkbox"/> I/We certify that all customers or potential customers have signed or will sign a long-term contract as described in the TES Regulatory Framework Guidelines. (Not required for TES an in-service date preceeding 2014/08/28).  <input type="checkbox"/> I/We certify that the long-term contract include the minimum provisions included in section 2.3.2 of the TES Regulatory Framework Guidelines. (Not required for TES an in-service date preceeding 2014/08/28).  <input type="checkbox"/> I/We have provided a “Plain-language” explanation to all customers/potential customers of the TES, which includes the minimum provisions included in section 2.3.2 of the TES Regulatory Framework Guidelines. (Not required for TES an in-service date preceeding 2014/08/28).  <input type="checkbox"/> I/We will retain all records of customer disclosure in the event of a dispute.
<b>Other Requirements:</b>	<input type="checkbox"/> I/We have determined the Capital Reserve Requirement and will hold sufficient Capital Reserves.  <input type="checkbox"/> I/We ensure the design, construction and operation of the TES selected is the most cost effective alternative.  <input type="checkbox"/> I/We will retain all records and provide an Annual Report to the Commission by February 15 of each year.

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[Signing Officer]

• **APPENDIX B    STREAM A ANNUAL REPORT GUIDELINES**

## Stream A TES– Annual Report

### Applicant Information

Company Name:	BC Business Registration No.:
Contact Name:	Contact Email:
Contact Address:	
Contact Phone:	
Name of Parent Company, if applicable:	Jurisdiction of Incorporation:

### Energy Delivered

Stream A Facility Name	# of Customers	Total Energy Delivered (GJ)					Sales (\$)
		Heating	Cooling	DHW	Other	Total	

### Attestations regarding Capital Reserve Provisions

- ☐ I/We have determined the Capital Reserve Requirement and I/We have sufficient Capital Reserve Provisions as required;
- ☐ I/We will continue to maintain all records in the event of a complaint and an audit by the Commission.

### Demand Side Management

- ☐ I/We have taken demand-side measures during the period addressed by the report  
If demand side measures have been taken during the period addressed by this report, describe *the effectiveness of those measures*:

\_\_\_\_\_  
[Signing Officer]

• **APPENDIX C    EXTENSION FORM FOR STREAM B TES**

This Registration Form applies to system extensions planned for Stream B Thermal Energy Systems (TES) where the system extension capital cost, plus the capital cost of any previous extensions, is less than the initial capital cost of the Stream B TES.

By filing this Registration Form with the Commission, the Applicant attests that all information provided is true, accurate and complete.

<b>Stream B TES – System Extension Form</b>					
<b>Applicant Information</b>					
Name of Applicant:			Company Name:		
CPCN Number for TES:					
<b>TES Specifics</b>					
TES Location (address):					
Is this extension for:			In-Service date of the TES (YY/MM/DD):		
<input type="checkbox"/> new distribution/new customers,					
<input type="checkbox"/> expand or modify thermal energy generation,					
<input type="checkbox"/> both					
Planned In-Service date of the extension (YY/MM/DD):					
Description of TES extension including energy centre and distribution system (drawing, diagram or description of equipment, connections etc., thermal energy supply and demand before and after the planned extension)					
<b>Cost Estimate</b>					
Estimated Capital Cost of the TES extension (AACE Class 3 minimum)  (Applicant may add additional line items as appropriate)	Category	\$, 000s			
	Equipment				
	Materials				
	Engineering / Design				
	Construction				
	Financing				
	Fees / Overhead				
	Other 'soft' costs				
	<b>Total</b>				



Calculated ratio of TES extension capital cost (plus any previous extension capital)/initial TES capital cost.	(Must be less than 1.0 to use this Form. If greater than 1.0 a CPCN application is required.)
Does the TES Provider have a system extension policy? If so, please attach.	
<b>Rate Impacts</b>	
Please provide the impact to current rates including calculations and schedule showing current rates and forecast rates over time resulting from the proposed extension. Include a schedule of any deferral accounts that may be used as rate mitigation.	
(Must be less than a 10% aggregate increase to use this form. If greater than 10% increase, a CPCN application is required.) When will the TES Provider file an updated rates application?	

• **APPENDIX D REQUIREMENTS UPON TRANSFER OF TES OWNERSHIP**

New Owner Attestation Requirements	
<b>Eligibility for Stream A TES Regulation:</b>	<input type="checkbox"/> I/We certify that the proposed TES meets the description of an On-Site TES, as defined in the TES Regulatory Framework Guidelines.  <input type="checkbox"/> I/We certify that the proposed TES is associated with an approved single development/building permit.  <input type="checkbox"/> I/We certify that the proposed TES capital cost is \$15 million or less.
<b>Customer Disclosure:</b>	<input type="checkbox"/> I/We certify that all customers or potential customers have signed or will sign a long-term contract as described in the TES Regulatory Framework Guidelines.  <input type="checkbox"/> I/We certify that the long-term contract include the minimum provisions included in section 2.3.2 of the TES Regulatory Framework Guidelines.  <input type="checkbox"/> I/We have provided a “plain-language” explanation to all customers/potential customers of the TES, which includes the minimum provisions included in section 2.3.2 of the TES Regulatory Framework Guidelines.  <input type="checkbox"/> I/We will retain all records of customer disclosure in the event of a dispute.
<b>Other Requirements:</b>	<input type="checkbox"/> I/We have determined the Capital Reserve Requirement and will hold sufficient Capital Reserves.  <input type="checkbox"/> I/We will retain all records and provide an Annual Report to the Commission by February 15 of each year.