



CHITTENDEN COUNTY RPC

Communities Planning Together

Planning Advisory Committee

Wednesday, November 7, 2018

2:30pm to 4:30pm

CCRPC Main Conference Room, 110 West Canal Street, Winooski

WIFI Info: Network = CCRPC-Guest; Password = ccrpc\$guest

Agenda

- 2:30 Welcome and Introductions, Joss Besse**
- 2:35 Approval of September 12, 2018 Minutes***
- 2:40 Neighborhood Development Area, Jacob Hemmerick and Faith Ingulsrud**
Overview of the Neighborhood Development Area Designation, and presentation on the difference the Priority Housing Project benefit is making.
- 3:00 Charlotte Enhanced Energy Review, Melanie Needle**
- a. *Open the Hearing*
 - b. *Accept Public Comment*
 - c. *Close the Hearing*
 - d. *Review Staff Summary*
 - e. *Questions and Comments*
 - f. *Recommendation to the CCRPC Board*
- 3:20 2019 Shelburne Comprehensive Plan & Enhanced Energy Review*, Emily Nosse-Leirer**
- a. *Open the Hearing*
 - b. *Accept Public Comment*
 - c. *Close the Hearing*
 - d. *Review Staff Summary*
 - e. *Questions and Comments*
 - f. *Recommendation to the CCRPC Board*
- 3:40 2019 Burlington Municipal Development Plan & Enhanced Energy Review*, Emily Nosse-Leirer**
- a. *Open the Hearing*
 - b. *Accept Public Comment*
 - c. *Close the Hearing*
 - d. *Review Staff Summary*
 - e. *Questions and Comments*
 - f. *Recommendation to the CCRPC Board*
- 4:00 Regional Act 250/Section 248 Projects on the Horizon, Committee Members**
- 4:15 Other Business**
- a. **Need a December PAC Meeting** – Wednesday, December 12th
 - b. **ACS Final Data Guide:** https://www.ccrpcvt.org/wp-content/uploads/2018/10/ACS_Guide_Final_20181003.pdf

In accordance with provisions of the Americans with Disabilities Act (ADA) of 1990, the CCRPC will ensure public meeting sites are accessible to all people. Requests for free interpretive or translation services, assistive devices, or other requested accommodations, should be made to Emma Vaughn, CCRPC Title VI Coordinator, at 802-846-4490 ext *21 or evaughn@ccrpcvt.org, no later than 3 business days prior to the meeting for which services are requested.



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- c. **Emerald Ash Borer (EAB) Management website:** <https://vtcommunityforestry.org/community-planning/tree-pests>. There will also be an EAB workshop with FPR on Nov. 28, 4-6 pm, at UVM Extension in Berlin.
- d. **Enabling Better Places: Users' Guide to Zoning Reform by CNU:** <https://www.cnu.org/sites/default/files/PCR-9-15-18.pdf>
- e. **Municipal Enhanced Energy in Vermont – Best Practices and Resources:** <https://www.ccrpcvt.org/our-work/municipal-planning-assistance/comprehensive-plans/>
- f. **Unified Planning Work Program (aka CCRPC's Annual Work Plan) Committee PAC Rep** – any volunteers?

4:30 Adjourn

* = Attachment

NEXT MEETING: December 12, 2018 at 2:30pm to 4:30pm.

CHITTENDEN COUNTY REGIONAL PLANNING COMMISSION
PLANNING ADVISORY COMMITTEE - MINUTES

DATE: Wednesday, September 12, 2018
TIME: 2:30 p.m. to 3:30 p.m.
PLACE: CCRPC Offices, 110 West Canal Street, Suite 202, Winooski, VT

Members Present:
Matt Boulanger, Williston
Jessica Draper, Richmond
Dana Hanley, Essex
Darren Schibler, Essex
Alex Weinhausen, Hinesburg
Eric Vorwald, Winooski

Everett Marshall, Huntington
Dean Pierce, Shelburne

Staff:
Regina Mahony, Planning Program Manager
Emily Nosse-Leirer, Senior Planner
Melanie Needle, Senior Planner

1. Welcome and Introductions

Regina Mahony called the meeting to order at 2:35 p.m.

2. Approval of July 11, 2018 Minutes

Dean Pierce made a motion, seconded by Everett Marshall, to approve the July 11, 2018 minutes. No further discussion. MOTION PASSED. Dean Pierce abstained.

3. Municipal Plan Review Guidelines

Emily Nosse-Leirer provided a brief overview of the amendments to these guidelines; and explained the changes since the last time the PAC saw the amendments in May. This document is used to review and approve municipal plans. It is being amended for two main reasons: review local plans for energy determination now that CCRPC has received its Determination of Energy Compliance; and an addition to the Appendix regarding the data needs for Plan updates. Emily Nosse-Leirer explained what data points we'd like to see – okay to not use ACS. The PAC had the following comments/questions:

- Suggestion to call out the changes in Act 171 (forest integrity) and the criteria for Act 174 (energy planning) in Appendix A. Act 171 is fully incorporated into statute in the Appendix already and we'll highlight that in the initial review memo. The link to the Act 174 criteria is in the memo, but it will be added to the Appendix so it is all in one place.

Dean Pierce made a motion, seconded by Alex Weinhausen, to recommend that the CCRPC adopt the Municipal Plan Review Guidelines with the amendments described above. No further discussion. MOTION PASSED.

4. American Community Survey Data Guide

At the suggestion of Sarah Hadd, CCRPC staff have developed a guide to using ACS data, based on a Journal of American Planning Association (JAPA) article regarding the ethical use of this data. Melanie Needle provided an overview of this guide. The guide is organized based on the 5 key suggestions from the JAPA article: understand statistical reliability, report margins of error, indicate when margins of error are not reported, consider alternatives for reducing statistical uncertainty, conduct statistical testing when comparing ACS data.

There was a suggestion to simply say "don't use bad data" rather than "consider alternatives for reducing statistical uncertainty".

Melanie Needle explained the differences in the 1-yr (only available at the County level because we don't have any municipalities that are large enough, less reliable because of the smaller sample size, most current), 3-yr (ACS is no longer updating this data set) and 5-yr ACS estimates (most reliable b/c sample size is larger, but least current).

Melanie Needle provided an overview of each of the five suggestions in the guide. There was some discussion regarding the use of ACS data generally - use the statistics correctly, and keep it simple as best as possible so that readers of the Plans don't get intimidated and confused. As an example in Huntington, rather than including the complete commute to work data (with all of the margins of error and reliability), they choose to only report the percentage of those who commute to work alone as that is the only reliable piece of the data. The Plan then states: 'the data for the other mode shares is not accurate enough to include'. CCRPC Staff reiterated that we are not saying you have to use ACS data in your Plans. If you have better data, definitely use it. However, in a lot of cases this is the only data available. Also, because other folks are using the ACS data to tell stories to the same audience the municipal plans are for, it is important to use it while following these guidelines.

Staff will make edits to the document to incorporate concepts from this discussion, and then distribute it.

5. Act 250 Commission: Next 50 Years

There are three opportunities to provide input into the Act 250: Next 50 Years effort. VPA's survey is here:

<https://www.surveygizmo.com/s3/4533728/VERMONT-PLANNERS-ASSOCIATION-ACT-250-SURVEY>. The Legislative Commission's survey is here: <https://www.surveymonkey.com/r/9CSPHY7>. The Legislative Commission is also holding public forums throughout the State. The forum in our region is on September 12th in Burlington at the Elks Lodge (925 North Ave) from 6 to 8pm. The best location for information about these forums is here: <https://www.facebook.com/Act250Next50/>.

Regina Mahony added that CCRPC will likely pull a Permit Review Committee together once there is something from the Legislative Commission to respond to. If anyone would like to be on that Committee please let her know.

6. Regional Act 250/Section 248 Projects on the Horizon

Winooski: Nothing definitive right now. Most of the possible developments are in the Neighborhood Development Area and they may do priority housing and not be required to do Act 250.

Williston: Nothing new. Finney Crossing is doing an amendment to add in a stormwater pond.

Hinesburg: nothing

Richmond: nothing

Huntington: nothing

Essex: couple minor things – adding green space to outlets at the Town Center; Starbucks at Susie Wilson and Rte. 15 and 4500 sq.ft. commercial building. Have been addressing traffic concerns.

Shelburne: Not so much new – Snyder project near the golf course. The Shelburne/South Burlington water issue has been resolved so this project will probably be moving forward.

7. Other Business

a. A number of our municipal plans will be expiring in early 2019. To make our review process easier, we may need to add an extra PAC meeting in February 2019. If you have a plan expiration coming up and would like us to review drafts before they are adopted, we're happy to do that.

b. Williston Town Plan Amendment* - FYI regarding an amendment to Williston's Town Plan; and a reminder of this CCRPC process.

c. CCRPC will host the next Housing Convening on Monday, October 29th at 6pm. The topic will be Housing Trust Funds. Please help spread the word.

d. [VT Housing Conference](#) will take place on Tuesday, November 13th and Wednesday, November 14th. This year's conference has a municipal focus. It conflicts with our November PAC meeting, therefore I've suggested that we switch that meeting to the first Wednesday of November.

7. Adjourn

The meeting adjourned at 3:30 p.m.

Respectfully submitted, Regina Mahony

Staff Review of the 2018 Charlotte Town Plan Amendments (Enhanced Energy Plan Review)
Melanie Needle, Senior Planner
November 1, 2018

The Town of Charlotte has requested that the Chittenden County Regional Planning Commission (CCRPC) issue a determination of energy compliance with the enhanced energy planning standards set forth in 24 V.S.A. §4352 for the 2018 Charlotte Town Plan. The 2018 Charlotte Town Plan was adopted and confirmed in 2018.

The Town of Charlotte is in the process of amending the 2018 plan to address the requirements for enhanced energy planning. The Charlotte Planning Commission will hold a public hearing on the town plan amendment on November 15, 2018.

Following the statutory requirements of 24 V.S.A. §4352 and Vermont Department of Public Service's Energy Planning Standards for Municipal Plans, I have reviewed the amendments to the 2018 plan to determine whether:

1. The Comprehensive Plan includes an energy element that has the same components as described in 24 V.S.A. §4348a(a)(3) for a regional plan and is confirmed under the requirements of 24 V.S.A. §4350.
2. The Comprehensive Plan is consistent with following State goals:
 - a. Vermont's greenhouse gas reduction goals under 10 V.S.A. § 578(a);
 - b. Vermont's 25 by 25 goal for renewable energy under 10 V.S.A. § 580;
 - c. Vermont's building efficiency goals under 10 V.S.A. § 581;
 - d. State energy policy under 30 V.S.A. § 202a and the recommendations for regional and municipal energy planning pertaining to the efficient use of energy and the siting and development of renewable energy resources contained in the State energy plans adopted pursuant to 30 V.S.A. §§ 202 and 202b (State energy plans); and
 - e. The distributed renewable generation and energy transformation categories of resources to meet the requirements of the Renewable Energy Standard under 30 V.S.A. §§ 8004 and 8005.
3. The Comprehensive Plan meets the standards for issuing a determination of energy compliance included in the State energy plans as developed by the Vermont Department of Public Service.

Staff Review Findings and Comments

Consistency with the requirements above is evaluated through the Vermont Department of Public Service's Vermont Department of Public Service's Energy Planning Standards for Municipal Plans, which is attached to this document and briefly summarized below.

Standard	Met	Not Met	N/A Yet
1. Plan duly adopted and approved	X		
2. Submit a copy of the adopted plan	X		
3. Plan contains an energy element	X		
4. Analysis of resources, needs, scarcities, costs and problems in the municipality across all energy sectors	X		
5.a. Report Current energy use for heating, electricity, and transportation	X		
5.b. Report 2025, 2035 and 2050 targets for energy use	X		
5.c. Evaluation of thermal-sector energy use changes	X		
5.d. Evaluation of transportation-sector energy use changes	X		
5.e. Evaluation of electric-sector energy use changes	X		
6.a. Encourage conservation by individuals and organizations	X		
6.b. Promote efficient buildings	X		
6.c. Promote decreased use of fossil fuels for heat	X		
6.d. Demonstrate municipal leadership re: efficiency of municipal buildings?	X		
7.a. Encourage increased public transit use	X		
7.b. Promote shift away from single-occupancy vehicle trips	X		
7.d. Promote shift from gas/diesel to non-fossil fuel vehicles?	X		
7.e. Demonstrate municipal leadership re: efficiency of municipal transportation?	X		
8.a. Promote Smart growth land use policies	X		
8.b. Strongly prioritize development in compact, mixed use centers	X		
9.a. Report existing renewable energy generation	X		
9.B. Analyze generation potential	X		
9.c. Identify sufficient land to meet the 2050 generation targets	X		
9.d. Ensure that local constraints do not prevent the generation targets from being met	X		
9.e. Include policy statements on siting energy generation	X		
9.f. Maximize potential for generation on preferred sites	X		
9.g. Demonstrate municipal leadership re: deploying renewable energy	X		
10.-13. Include maps provided by CCRPC	X		

As drafted, the 2018 Charlotte Town plan with draft energy amendments does meet the requirements.

Additional Comments/Questions:

While these changes are not required for an affirmative determination of energy compliance, the changes discussed below would improve the plan's efficacy.

1. Page 1-54, item 2 second bullet contains a typo where a \$ was used instead of a %.
2. Page 1-54, item 2 third bullet, the "town" should be replaced with "state" to accurately reflect the wording of the state's goal.
3. Energy strategy number 4 only refers to the Vermont Residential Building Energy Standard. Consider also including the Vermont Commercial Building Energy Standard to make it clear that there are also standards for commercial uses.

4. In regard to policy 15 on page 1-59, the town does not have the authority to set expectations on applications for renewable energy generation.
5. If possible remove draft in references to the ECOS Plan.
6. Table A5 on page 2-66, there is a typo in the amount of solar energy generation reported. It should say 4,967 MWh not 4,097 MWh.

Proposed Motion & Next Steps:

PROPOSED MOTION: The PAC finds that the 2018 Charlotte Town Plan with the draft energy amendments, as submitted, does meet the requirements of the enhanced energy planning standards set forth in 24 V.S.A. §4352.

Upon notification that the Plan has been adopted by the municipality, CCRPC staff will review the plan amendment. If staff determines that substantive changes have been made, the materials will be forwarded to the PAC for review. Otherwise the PAC recommends that the Plan should be forwarded to the CCRPC Board for an affirmative determination of energy compliance.

Energy Planning Standards for Municipal Plans

Instructions

Before proceeding, please review the requirements of Parts I and II below, as well as the Overview document. Submitting a Municipal Plan for review under the standards below is entirely voluntary, as enabled under [Act 174](#), the Energy Development Improvement Act of 2016. If a Municipal Plan meets the standards, it will be given an affirmative “determination of energy compliance,” and will be given “substantial deference” in the Public Service Board’s review of whether an energy project meets the orderly development criterion in the Section 248 process. Specifically, with respect to an in-state electric generation facility, the Board:

[S]hall give substantial deference to the land conservation measures and specific policies contained in a duly adopted regional and municipal plan that has received an affirmative determination of energy compliance under 24 V.S.A. § 4352. In this subdivision (C), “substantial deference” means that a land conservation measure or specific policy shall be applied in accordance with its terms unless there is a clear and convincing demonstration that other factors affecting the general good of the State outweigh the application of the measure or policy. The term shall not include consideration of whether the determination of energy compliance should or should not have been affirmative under 24 V.S.A. § 4352.

Municipal Plans should be submitted by the municipality’s legislative body to the Regional Planning Commission (RPC) if the Regional Plan has received an affirmative determination of energy compliance. If a Regional Plan has not received such a determination, until July 1, 2018¹, a municipality may submit its adopted and approved Municipal Plan to the Department of Public Service (DPS) for a determination of energy compliance (determination), along with the completed checklist below. After a Municipal Plan and completed checklist have been submitted to the RPC (or DPS), the RPC or DPS will schedule a public hearing noticed at least 15 days in advance by direct mail to the requesting municipal legislative body, on the RPC or DPS website, and in a newspaper of general publication in the municipality. The RPC or DPS shall issue a determination in writing within two months of the receipt of a request. If the determination is negative, the RPC or DPS shall state the reasons for the denial in writing and, if appropriate, suggest acceptable modifications. Submissions for a new determination following a negative determination shall receive a new determination within 45 days.

The plans that Municipalities submit must:

- Be adopted
- Be confirmed under 24 V.S.A. § 4350
- Include an energy element that has the same components as described in 24 V.S.A. § 4348a(a)(3)
- Be consistent with state energy policy (described below), in the manner described in 24 V.S.A. § 4302(f)(1)
- Meet all standards for issuing a determination of energy compliance (see below)

¹ These standards will be revised after July 1, 2018 to reflect that Municipal Plans should be submitted only to the Regional Planning Commissions – which will all have had an opportunity to seek a determination of energy compliance – from that point forward.

Municipalities are encouraged to consult with their reviewer (either their RPC or DPS) before undertaking the process of plan adoption, which may help in identifying any deficiencies or inconsistencies with the standards or other requirements that would be more difficult to remedy after a plan has gone through the formal adoption process.

The state's Comprehensive Energy Plan (CEP) is revised on a 6-year basis. When the next CEP is published in 2022, it will include a revised set of standards, as well as Recommendations that are customized to regions and municipalities. The Recommendations that accompany this initial set of Standards represent a subset of recommendations from the 2016 CEP, which were not written with regions and municipalities specifically in mind. A Guidance document – which is expected to evolve as best practices from regions and municipalities emerge – will be published shortly after the Standards are issued. It will serve as the warehouse for relevant recommendations from the 2016 CEP, links to data sources, instructions on conducting analysis and mapping, and sample language/best practices. Once issued and until the 2022 CEP is published, this Guidance document will supplant the Recommendations document.

Affirmative determinations last for the life cycle of a revision of the Municipal Plan, and Municipal Plans that are submitted after the 2022 CEP is issued will be expected to meet the Standards that are issued at that time. Municipalities are encouraged to consult with their RPC or DPS regarding interim amendments that might affect any of the standards below, to discuss whether a new review is triggered.

If you wish to submit your Municipal Plan to your RPC or to DPS for a determination, please read closely the specific instructions at the start of each section below, and attach your Municipal Plan to this checklist.

Determination requests to an RPC (and any other questions) should be submitted to your RPC's designated contact. Determination requests to DPS until July 1, 2018 – and only for municipalities whose Regions' plans have not received an affirmative determination – should be submitted to:

PSD.PlanningStandards@vermont.gov.

Part I: Applicant Information		
The plan being submitted for review is a:	<input checked="" type="checkbox"/> Municipal Plan in a region whose regional plan has received an affirmative determination of energy compliance from the Commissioner of Public Service Please submit these plans to your RPC	<input type="checkbox"/> Municipal Plan in a region whose regional plan has <u>not</u> received a determination of energy compliance Until July 1, 2018, please submit these to the DPS. After July 1, 2018, this option ceases to exist.
Applicant:	Planning & Zoning Office, Town of Charlotte	
Contact person:	Daryl Benoit, Town Planner	
Contact information:	PO Box 119, Charlotte, VT 05445 / E-mail: dbenoit@townofcharlotte.com	
Received by: Melanie Needle	Date: 11/01/2018	

Part II: Determination Standards Checklist

The checklist below will be used to evaluate your plan's consistency with statutory requirements under Act 174, including the requirement to be adopted and approved, contain an enhanced energy element, be consistent with state energy policy, and meet a set of standards designed to ensure consistency with state energy goals and policies.

Please review and attach your plan (or adopted energy element/plan, along with supporting documentation) and self-evaluate whether it contains the following components. Use the Notes column to briefly describe how your plan is consistent with the standard, including relevant page references (you may include additional pages to expand upon Notes). If you feel a standard is not relevant or attainable, please check N/A where it is available and use the Notes column to describe the situation, explaining why the standard is not relevant or attainable, and indicate what measures your municipality is taking instead to mitigate any adverse effects of not making substantial progress toward this standard. If N/A is not made available, the standard must be met (unless the instructions for that standard indicate otherwise) and checked "Yes" in order to receive an affirmative determination. There is no penalty for checking (or limit on the number of times you may check) N/A where it is available, as long as a reasonable justification is provided in the Notes column.

Plan Adoption Requirement

[Act 174](#) requires that municipal plans be adopted and approved in order to qualify for a determination of energy compliance. In the near term, it is likely municipalities will revise and submit isolated energy plans or elements, particularly due to long planning cycles. Therefore, the plan adoption requirement can be met through an amendment to an existing plan in the form of an energy element or energy plan, as long as the amendment or plan itself is duly adopted as part of the municipal plan and incorporated by reference or appended to the underlying, full plan (i.e., is officially "in" the municipal plan), as well as approved for confirmation with the region. If this route is chosen, the municipality should also attach the planning commission report required for plan amendments under 24 V.S.A. § 4384, which should address the internal consistency of the energy plan/element with other related elements of the underlying plan (particularly Transportation and Land Use), and/or whether the energy plan/element supersedes language in those other elements. Standards 1 and 2 below must be answered in the affirmative in order for a plan to receive an affirmative determination of energy compliance.

1. Has your plan been duly adopted and approved for confirmation according to 24 V.S.A. § 4350 ?	<input checked="" type="checkbox"/> Yes. Adoption date: 6 Mar 2018 Confirmation date: 21 Mar 2018	<input type="checkbox"/> No	Signed by Christopher Roy, Chair of the CCRPC. To view the currently adopted plan for the Town of Charlotte, please visit: https://is.gd/mW9PGW . To view the proposed energy plan to be adopted in 2019, please visit: https://is.gd/4jOqB1 .
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2. Is a copy of the plan (or adopted energy element/plan, along with underlying plan and planning commission report addressing consistency of energy element/plan with other elements of underlying plan) attached to this checklist?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes: The copy to be adopted in 2019 is linked above.
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Energy Element Requirement			
<p>To obtain a determination of energy compliance, Act 174 requires municipalities to include an “energy element” that contains the same <u>components</u> described in 24 V.S.A. § 4348a(a)(3), which was revised through Act 174 to explicitly address energy across all sectors and to identify potential and unsuitable areas for siting renewable energy resources:</p> <p><i><u>An energy element, which may include an <u>analysis of resources, needs, scarcities, costs, and problems within the region across all energy sectors, including electric, thermal, and transportation; a statement of policy on the conservation and efficient use of energy and the development and siting of renewable energy resources; a statement of policy on patterns and densities of land use likely to result in conservation of energy; and an identification of potential areas for the development and siting of renewable energy resources and areas that are unsuitable for siting those resources or particular categories or sizes of those resources.</u></u></i></p> <p>The standards below are generally organized to integrate each component of the enhanced energy element with related determination standards that evaluate the plan’s consistency with state goals and policies. Energy element components are identified in bolded text.</p> <p>While municipalities may choose to primarily address energy used for heating, transportation, and electricity in the required energy element, they may also choose to address some of these components in related plan elements (e.g., Transportation and Land Use) and should indicate as much in the Notes column. To the extent an energy element is designed to comprehensively address energy, it should be complementary to and reference other relevant plan elements.</p>			
<p>3. Does the plan contain an energy element, that contains the same components described in 24 V.S.A. § 4348a(a)(3)?</p> <p><i>Individual components of the energy element will be evaluated through the standards below.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: 1-53 to Page 1-59</p> <p>Notes: Section 1.12</p>

Consistency with State Goals and Policies Requirement			
<p>Act 174 states that regional and municipal plans must be consistent with the following state goals and policies:</p> <ul style="list-style-type: none"> Greenhouse gas reduction goals under 10 V.S.A. § 578(a) (50% from 1990 levels by 2028; 75% by 2050) The 25 x 25 goal for renewable energy under 10 V.S.A. § 580 (25% in-state renewables supply for all energy uses by 2025) Building efficiency goals under 10 V.S.A. § 581 (25% of homes – or 80,000 units – made efficient by 2020) State energy policy under 30 V.S.A. § 202a and the recommendations for regional and municipal planning pertaining to the efficient use of energy and the siting and development of renewable energy resources contained in the State energy plans adopted pursuant to 30 V.S.A. §§ 202 and 202b 			

- The distributed renewable generation and energy transformation categories of resources to meet the requirements of the Renewable Energy Standard under [30 V.S.A. §§ 8004](#) and [8005](#)

The standards in the checklist below will be used to determine whether a plan is consistent with these goals and policies. The standards are broken out by category. *Analysis and Targets* standards address how energy analyses are done within plans, and whether targets are established for energy conservation, efficiency, fuel switching, and use of renewable energy across sectors. *Pathways (Implementation Actions)* standards address the identification of actions to achieve the targets. *Mapping* standards address the identification of suitable and unsuitable areas for the development of renewable energy.

Municipalities may choose to incorporate the information necessary to meet the standards in their energy elements, and/or in other sections of their plans (many transportation items may fit best in the Transportation chapters of plans, for instance). However, plans must be internally consistent, and applicants should cross-reference wherever possible.

Analysis and Targets Standards

For the *Analysis & Targets* determination standards below, municipalities will be provided with analyses and targets derived from regional analyses and targets no later than April 30, 2017 (and likely much sooner). Municipalities may choose to rely on these “municipalized” analyses and targets to meet the standards in this section. Municipalities which elect to use the analysis and targets provided by a region will be presumed to have met the standards in this section. Alternatively, municipalities may develop their own custom analyses and targets or supplement the analyses and targets provided by the regions with specific local data; if this option is chosen, the analysis and targets must include all of the same components and meet the standards required of regions, as described below.

For municipalities that choose to undertake their own analysis and target-setting (and for regions), DPS is providing a guidance document to explain the expected level of detail in and data sources and methodologies available for meeting the standards (including areas where it is understood data at the municipal level is unavailable, and therefore not expected). Note that standards 5A-4E are all derived directly from requirements in Act 174 (with minor modifications to make them feasible) and must be met affirmatively in order for a municipal plan to receive an affirmative determination of energy compliance.

Targets set by regions and municipalities should be aligned with state energy policy (see the goals and policies listed above). Where targets (and efforts to reach them) depart significantly from state energy goals and policies, an explanation for how the plan otherwise achieves the intent of the state goal or policy should be provided. The guidance document also offers additional clarification on alignment with state goals and policies.

The analysis items below are intended to provide regions and municipalities with an overview of their current energy use, and with a sense of the trajectories and pace of change needed to meet targets, which can be translated into concrete actions in the *Pathways* standards below. Targets provide regions and municipalities with milestones or checkpoints along the way toward a path of meeting 90% of their total energy needs with renewable energy, and can be compared with the potential renewable energy generation from areas identified as potentially suitable in the *Mapping* standards exercise below to give regions and municipalities a sense of their ability to accommodate renewable energy that would meet their needs.

4. Does your plan's energy element contain an analysis of resources, needs, scarcities, costs, and problems within the municipality across all energy sectors (electric, thermal, transportation)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Notes: Energy Strategy 1, see below
5. Does your plan contain an analysis that addresses A-E below, either as provided by your Regional Planning Commission or as developed by your municipality? <i>Municipalities may meet this standard by using the analysis and targets provided by their regions, or by developing their own analyses and targets. If using the analysis & targets provided by your region, please answer "Yes-Region" and skip ahead to #6. If developing a custom analysis, please answer "Yes-Custom" and address 5A-5E separately, below.</i>	<input checked="" type="checkbox"/> Yes-Region <input type="checkbox"/> Yes-Custom	<input type="checkbox"/> No	Page: 2-63 through 2-71 on Chapter "2.8 Energy", and 1-53 through 1-59 on Chapter "1.12 Energy". Paragraph #: Click here to enter text. Notes: This portion of the plan has substantial analysis and background covered in the Chittenden County RPC's, "Draft 2018 ECOS Plan Supplement 6 – Energy Analysis, Targets, & Methodology".
A. Does the plan estimate current energy use across transportation, heating, and electric sectors?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 2-67 through 2-69 Paragraph #: Click here to enter text. Notes: plans out to 2025, 2035, and 2050.
B. Does the plan establish 2025, 2035, and 2050 targets for thermal and electric efficiency improvements, and use of renewable energy for transportation, heating, and electricity?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 2-68 through 2-69 Tables B1, B3, and B4. Paragraph #: Click here to enter text. Notes: Click here to enter text.
C. Does the plan evaluate the amount of thermal-sector conservation, efficiency, and conversion to alternative heating fuels needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Page 2-68 and Table B3 Paragraph #: Click here to enter text. Notes: Click here to enter text.
D. Does the plan evaluate transportation system changes and land use strategies needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Page 2-67 and Table B1. Paragraph #: Click here to enter text. Notes: Click here to enter text.
E. Does the plan evaluate electric-sector conservation and efficiency needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Page 1-53 through 1-59 Paragraph #: Click here to enter text. Notes: Click here to enter text.

Pathways (Implementation Actions) Standards

This section examines whether plans meet the Act 174 expectation that they include pathways and recommended actions to achieve the targets identified through the *Analysis and Targets* section of the Standards (above). Plans are expected to include or otherwise address all of the pathways (implementation actions) below; some actions may not be applicable or equally relevant to all applicants (small vs. large municipalities, for instance), in which case N/A may be checked (if available) and the justification provided in the Notes column. There is no penalty for choosing N/A one or more times, as long as a reasonable justification is provided in the Notes column, preferably including an explanation of how the plan alternatively achieves attainment of the targets should be

included. If N/A is not provided as an option, the standard must be met, and “Yes” must be checked, in order for the plan to meet the requirements for a determination (unless the instructions particular to that standard indicate otherwise).

DPS will be issuing a guidance document in the near term providing potential implementation actions derived from the Comprehensive Energy Plan (relevant formal Recommendations as well as opportunities not specifically called out as Recommendations), from recent regional and municipal plans, and from other sources. The guidance document will be revised after the regions have compiled best practices from early municipalities pursuing energy planning to seek a determination of energy compliance, in the summer of 2017.

For the time being, we offer potential implementation action options for consideration as italicized text under each standard. Plans are encouraged to promote as diverse a portfolio of approaches as possible in each sector, or if not, to explain why they take a more targeted approach. Implementation actions may fit best in a holistic discussion contained within a plan’s energy element, though cross-referencing to other relevant plan elements is also acceptable.

Municipalities must demonstrate a commitment to achieving each standard in both policies and implementation measures in clear, action-oriented language.

6. Does your plan’s energy element contain a statement of policy on the conservation and efficient use of energy?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: References below are in the Energy Chapter (1.12) on Pages 1-53 to 1-59, or the Transportation Chapter (1.11) on Pages 1-47 to 1-52. Paragraph #: Energy policy #1 and #2 Notes: Click here to enter text.
A. Does the plan encourage conservation by individuals and organizations? <i>(Actions could include educational activities and events such as convening or sponsoring weatherization workshops, establishing local energy committees, encouraging the use of existing utility and other efficiency and conservation programs and funding sources, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: pages 1-58 through 1-59. Paragraph #: Click here to enter text. Notes: Energy Policies #3 and #5; Energy Strategies #1, #2, and #3.
B. Does the plan promote efficient buildings? <i>(Actions could include promoting compliance with residential and commercial building energy standards for new construction and existing buildings, including additions, alterations, renovations and repairs; promoting the implementation of residential and commercial building efficiency ratings and labeling; considering adoption of stretch codes, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Energy Policies #1, #3, #5, and #6; Energy Strategies #4, #5, #6, #8, and #16. Notes: Click here to enter text.
C. Does the plan promote decreased use of fossil fuels for heating? <i>(Actions and policies could promote switching to wood, liquid biofuels, biogas, geothermal, and/or electricity. Suitable devices include advanced wood heating systems and cold-climate heat pumps, as well as use of more energy efficient heating systems; and identifying potential locations for, and barriers to, deployment of biomass district heating and/or thermal-led combined heat and power systems in the municipality)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: pages 1-58 through 1-59. Paragraph #: Energy Policy #6; Energy Strategies #10 and #11. Notes: Click here to enter text.

<p>D. Does the plan demonstrate the municipality's leadership by example with respect to the efficiency of municipal buildings? <i>(Actions could include building audits and weatherization projects in schools and town offices, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Energy Policies #1, #3, and #6; Energy Strategy #9. Notes: Click here to enter text.</p>
<p>E. Other (please use the notes section to describe additional approaches that your municipality is taking)</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: 1-58. Paragraph #: Energy Strategy #7 Notes: Update the outdoor lighting standards of the Regulations.</p>
<p>7. Does your plan's energy element contain a statement of policy on reducing transportation energy demand and single-occupancy vehicle use, and encouraging use of renewable or lower-emission energy sources for transportation?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Energy Policy #4; Transportation Strategies #4, #15, and #17. Notes: Click here to enter text.</p>
<p>A. Does the plan encourage increased use of public transit? <i>(Actions could include participation in efforts to identify and develop new public transit routes, promote full utilization of existing routes, integrate park-and-rides with transit routes, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Energy Policy #4; Energy Strategy #3. Notes: Click here to enter text.</p>
<p>B. Does the plan promote a shift away from single-occupancy vehicle trips, through strategies appropriate to the municipality? <i>(Actions could include rideshare, vanpool, car-sharing initiatives; efforts to develop or increase park-and-rides; enhancement of options such as rail and telecommuting; education; intergovernmental cooperation; etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Transportation Policy #14; Transportation Strategies #2, #3, #6, #18, and #19. Notes: Click here to enter text.</p>
<p>C. Does the plan promote a shift away from gas/diesel vehicles to electric or other non-fossil fuel transportation options through strategies appropriate to the municipality? <i>(Actions could include promoting the installation of electric vehicle charging infrastructure, providing education and outreach to potential users, supporting non-fossil fuel vehicle availability through outreach to vehicle dealers, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Transportation Policy #15; Transportation Strategies #15 and #16. Notes: Click here to enter text.</p>
<p>D. Does the plan facilitate the development of walking and biking infrastructure through strategies appropriate to the municipality? <i>(Actions could include studying, planning for, seeking funding for, or implementing improvements that encourage safe and convenient walking and biking; adopting a "Complete Streets" policy, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Transportation Policy #4 and #18; Transportation Strategies #8, #9, #10, and #13. Notes: Click here to enter text.</p>
<p>E. Does the plan demonstrate the municipality's leadership by example with respect to the efficiency of municipal transportation?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Transportation Strategy #4 Notes: Click here to enter text.</p>

<i>(Actions could include purchasing energy efficient municipal and fleet vehicles when practicable, installing electric vehicle charging infrastructure, etc.)</i>			
F. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
8. Does your plan's energy element contain a statement of policy on patterns and densities of land use likely to result in conservation of energy?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Policies on land use are found in the Future Land Use Chapter (1.2), Historical and Cultural Resources Chapter (1.7), and the Utilities, Facilities, & Services Chapter (1.10).
A. Does the plan include land use policies (and descriptions of current and future land use categories) that demonstrate a commitment to reducing sprawl and minimizing low-density development? <i>(Actions could include adopting limited sewer service areas, maximum building sizes along highways, policies or zoning that require design features that minimize the characteristics of strip development [multiple stories, parking lot to the side or back of the store], and requirements that development in those areas be connected by means other than roads and cars; adopting a capital budget and program that furthers land use and transportation policies; etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: The Town's strong natural resources protections encourage land to be put into conservation and direct development towards village areas. Natural resources protections are summarized by policies surrounding the "Areas of High Public Value" discussed in Future Land Use Policies #7, #8, and #9.
B. Does the plan strongly prioritize development in compact, mixed-use centers when physically feasible and appropriate to the use of the development, or identify steps to make such compact development more feasible? <i>(Actions could include participating in the state designation program, such as obtaining state designated village centers, downtowns, neighborhoods, new town centers, or growth centers; exploration of water or sewage solutions that enable compact development; etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Throughout the plan, but most prominently: Wastewater and Potable Water Supply planning discussed in Strategies #19-#24 of the Utilities, Facilities, & Services Chapter (1.10); the Strategy #3 of the Economic Development Chapter (1.9); and Strategy #1 of the Historical and Cultural Resources Chapter (1.7).
C. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Energy Policies #7, #8, #9, #10, #11; Energy Strategy #12

			Notes: Click here to enter text.
9. Does your plan's energy element contain a statement of policy on the development and siting of renewable energy resources?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes:
A. Does the plan evaluate (estimates of or actual) generation from existing renewable energy generation in the municipality? <i>Municipalities should be able to obtain this information from their regions.</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Table A5 in Chapter 2: Charlotte Today, Section 2.8 Energy. Notes:
B. Does the plan analyze generation potential, through the mapping exercise (see <i>Mapping</i> standards, below), to determine potential from preferred and potentially suitable areas in the municipality? <i>Municipalities should be able to obtain this information from their regions.</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Table C2 in Chapter 2: Charlotte Today, Section 2.8 Energy. Notes:
C. Does the plan identify sufficient land in the municipality for renewable energy development to reasonably reach 2050 targets for renewable electric generation, based on population and energy resource potential (from potential resources identified in the <i>Mapping</i> exercise, below), accounting for the fact that land may not be available due to private property constraints, site-specific constraints, or grid-related constraints? <i>If N/A, please describe how you are working with your regional planning commission to ensure overall regional objectives are achieved.</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Tables C2 and C3 in Chapter 2: Charlotte Today indicate that the prime renewable energy generation potential is high enough to meet the Town's targets. Notes:
D. Does the plan ensure that any local constraints (locally designated resources or critical resources, from 12B and 12C under <i>Mapping</i> , below) do not prohibit or have the effect of prohibiting the provision of sufficient renewable energy to meet state, regional, or municipal targets? <i>If N/A, please describe how you are working with your regional planning commission to ensure overall regional objectives are achieved.</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Charlotte Today, Energy Section, Table C2 and C3 show that the prime renewable energy generation potential is high enough to meet Charlotte's targets Notes: Click here to enter text.
E. Does the plan include statements of policy to accompany maps (could include general siting guidelines), including statements of policy to accompany any preferred, potential, and unsuitable areas for siting generation (see 12 and 13 under <i>Mapping</i> , below)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Future Land Use Policies #7, #8 and #9; Energy Policies #7, #8, and #9. Notes: Click here to enter text.
F. Does the plan maximize the potential for renewable generation on preferred locations (such as the categories outlined under 12E in the <i>Mapping</i> standards, below)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Energy Strategy #13 Notes: Click here to enter text.
G. Does the plan demonstrate the municipality's leadership by example with respect to the deployment of renewable energy? <i>(Actions could include deploying renewable energy to offset municipal electric use, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Energy Strategies #13, #16, and #17. Notes: Click here to enter text.

H. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
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Mapping Standards

Act 174 requires plans to identify potential areas for the development and siting of renewable energy resources and areas that are unsuitable for siting those resources or particular categories or sizes of those resources. It furthermore requires that the standards address the potential generation from the potential siting areas.

The *Mapping* standards lay out a sequence of steps for planners to examine existing renewable resources and to identify potential (and preferred) areas for renewable energy development, and to identify likely unsuitable areas for development, by layering constraint map layers on to raw energy resource potential map layers. The maps should help municipalities visualize and calculate the potential generation from potential areas, and compare it with the 2025, 2035, and 2050 targets from the *Analysis and Targets* standards to get a sense of the scale and scope of generation that could be produced within the region to meet the municipality's needs. DPS will provide additional guidance to accompany the standards that fleshes out the steps, layers, and standards more fully.

Plans must include maps that address all of the standards below, unless N/A is provided as an option, in which case a compelling reason why the standard is not applicable or relevant should be provided in the Notes column. Regions must develop their own maps (already underway through support being provided to regions by DPS), and to then break out the maps for their municipalities, who can use their region-provided maps to meet the municipal *Mapping* standards (such "municipalization" work is being supported through a training & technical assistance contract between DPS and regions, and all regions must supply completed maps to their municipalities by April 30, 2017, though many are expected to do so much sooner).

Municipalities may choose to rely on the maps provided by the regions to meet the standards in this section. Those maps should be somewhat familiar to municipalities, who are expected to be consulted as regions develop their maps. Alternatively, municipalities may choose to undertake their own mapping, according to the same set of standards as regions. Additionally, municipalities are expected to work collaboratively with their regions and with neighboring municipalities to ensure compatibility between the final products.

The map and the text describing the policies or rules used to construct the map, as well as the text describing specific policies applicable to map features, should be complementary. That should help ensure that any "land conservation measures and specific policies" that might be given substantial deference in the context of a particular project review under 30 V.S.A. § 248 are clearly identifiable in the text, should a map lack sufficient clarity or granularity regarding the area in which a project is proposed.

10. Does your plan contain one or more maps that address 11-13 below, as provided by your Regional Planning Commission or as developed by your municipality? <i>Municipalities may meet this standard by using the maps provided by their regions, or by developing their own maps. If using the maps provided by your region, please answer "Yes-Region" and skip ahead to #14. If developing</i>	<input checked="" type="checkbox"/> Yes-Region <input type="checkbox"/> Yes-Custom	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: CCRPC provided to the maps to the Town,
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custom maps, please answer “Yes-Custom” and address 11-13 separately, below.			
<p>11. Does the plan identify and map existing electric generation sources? <i>Maps may depict generators of all sizes or just those larger than 15 kW, as long as information on generators smaller than 15 kW is summarized and provided or referenced elsewhere. It is expected that the best available information at the time of plan creation will be used. This information is available from the DPS.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Map #14 “Existing Renewable Energy Generation & Preferred Sites” maps the existing renewable energy sites.
<p>12. Does the plan identify potential areas for the development and siting of renewable energy resources and the potential generation from such generators in the identified areas, taking into account factors including resource availability, environmental constraints, and the location and capacity of electric grid infrastructure? <i>Maps should include the following (available from VCGI and ANR), and the resulting Prime and Secondary Resource Maps will together comprise “potential areas”:</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Map #14 “Existing Renewable Energy Generation & Preferred Sites” maps Existing renewable energy sites and other preferred sites for potential development; “Map #15 “Potential Solar Energy Resource Areas”; and Map #16 “Potential Wind Energy Resource Areas”.
<p>A. Raw renewable energy potential analysis (wind and solar), using best available data layers (including LiDAR as appropriate)</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Notes: Map #15 and Map #16.
<p>B. Known constraints (signals likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources) to include:</p> <ul style="list-style-type: none"> • Vernal Pools (confirmed and unconfirmed layers) • DEC River Corridors • FEMA Floodways • State-significant Natural Communities and Rare, Threatened, and Endangered Species • National Wilderness Areas • Class 1 and Class 2 Wetlands (VSWI and advisory layers) • Regionally or Locally Identified Critical Resources <p><i>If areas are constrained for the development of renewable energy due to the desire to protect a locally designated critical resource (whether a natural resource or a community-identified resource), then the land use policies applicable to other forms of development in this area must be similarly restrictive; for this category, policies must</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Map #17 covering “State Known Constraints”, which includes: Rare and Endangered Species & Significant Natural Communities, and River Corridors. Notes:

<p><i>prohibit all permanent development (and should be listed in the Notes column).</i></p> <p><i>These areas should be subtracted from raw renewable energy resource potential maps to form Secondary Resource Maps</i></p>			
<p>C. Possible constraints (signals conditions that would likely require mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies that are currently adopted or in effect), including but not limited to:</p> <ul style="list-style-type: none"> • Agricultural Soils • FEMA Special Flood Hazard Areas • Protected Lands (State fee lands and private conservation lands) • Act 250 Agricultural Soil Mitigation areas • Deer Wintering Areas • ANR's Vermont Conservation Design Highest Priority Forest Blocks (or Habitat Blocks 9 & 10, for plans using regional maps in regions whose plans will be submitted for adoption at the regional level by March 1, 2017) • Hydric Soils • Regionally or Locally Identified Resources <p><i>If locations are constrained for the development of renewable energy due to the desire to protect a locally designated resource (whether a natural resource or community-identified resource, like a view), then the land use policies applicable to other forms of development must be similarly restrictive (and should be listed in the Notes column).</i></p> <p><i>These areas should be subtracted from Secondary Resource Maps to form Prime Resource Maps.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Map #18 covering "State Possible Constraints", which includes: FEMA Special Hazard Flood Areas, Protected Land, Deer Wintering Areas, VT Conservation Design Physical Landscape Diversity Blocks, Act 250 Agricultural Soil Mitigation Area, Agricultural & Hydric Soils.</p> <p>Notes:</p>
<p>D. Transmission and distribution resources and constraints, as well as transportation infrastructure.</p> <p><i>(Including three-phase distribution lines, known constraints from resources such as Green Mountain Power's solar map, known areas of high electric load, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: These are covered in Maps #14, #15, & #16.</p> <p>Notes:</p>
<p>E. Preferred locations (specific areas or parcels) for siting a generator or a specific size or type of generator, accompanied by any specific</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text.</p> <p>Paragraph #: This is covered in Map #14.</p>

<p>siting criteria for these locations</p> <p><i>Narrative descriptions of the types of preferred areas in accompanying plan text are acceptable, though mapping of areas and especially specific parcels (to the extent they are known) is highly encouraged, to signal preferences to developers, particularly for locally preferred areas and specific parcels that do not qualify as a statewide preferred location under i. below.</i></p> <p><i>The locations identified as preferred must not be impractical for developing a technology with regard to the presence of the renewable resource and access to transmission/distribution infrastructure.</i></p>			<p>Notes: Click here to enter text.</p>
<p>i. Statewide preferred locations such as rooftops (and other structures), parking lots, previously developed sites, brownfields, gravel pits, quarries, and Superfund sites</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: see Map #14. Notes: Click here to enter text.</p>
<p>ii. Other potential locally preferred locations</p> <p><i>For example, customer on- or near-site generation, economic development areas, unranked and not currently farmed agricultural soils, unused land near already developed infrastructure, locations suitable for large-scale biomass district heat or thermal-led cogeneration, potential locations for biogas heating and digesters, etc.</i></p> <p><i>These are particularly important to map if possible, as “a specific location in a duly adopted municipal plan” is one way for a net metering project to qualify as being on a preferred site.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: see Map #15 and Map #16. Notes: Click here to enter text.</p>
<p>13. Does the plan identify areas that are unsuitable for siting renewable energy resources or particular categories or sizes of those resources?</p> <p><i>Either Yes or No (“No” if the plan chooses not to designate any areas as unsuitable) is an acceptable answer here. “Resources” is synonymous with “generators.”</i></p>	<input checked="" type="checkbox"/> Yes (“Yes” for A and B must also be selected below)	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Map #6, which covers identified areas of wildlife habitat, which have been determined to be “Areas of High Public Value” (AHPV) and are discussed further in the Town Plan, Chapter 1, Section 1.2 Future Land Use. Notes: Click here to enter text.</p>
<p>A. Are areas identified as unsuitable for particular categories or sizes of generators consistent with resource availability and/or land use policies in the regional or municipal plan applicable to other types of land development (answer only required if “Yes” selected above, indicating unsuitable areas have been identified)?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A (if no unsuitable areas	<p>Page: Click here to enter text. Paragraph #: In addition to the wildlife habitat mentioned above (i.e. Map #6), the Areas of High Public Value discussed in the Land Use Policies of Chapter 1.2 are mapped in: Map #8 (as Publicly</p>

<p><i>If areas are considered unsuitable for energy generation, then the land use policies applicable to other forms of development in this area should similarly prohibit other types of development. Please note these policies in the Notes column.</i></p>		<p>are identified)</p>	<p>Owned Recreation, Natural Resource, &/or Open Land), Map #13 (as Conserved & Public Lands), and Map #7 (as districts, properties, sites, or structures listed in the National or State Register of Historic Places).</p> <p>Notes: Click here to enter text.</p>
<p>B. Does the plan ensure that any regional or local constraints (regionally or locally designated resources or critical resources, from 12b-12c above) identified are supported through data or studies, are consistent with the remainder of the plan, and do not include an arbitrary prohibition or interference with the intended function of any particular renewable resource size or type? <i>Please explain in the Notes column.</i></p>	<p><input checked="" type="checkbox"/> Yes</p>	<p><input type="checkbox"/> No</p>	<p>Page: Click here to enter text. Paragraph #: Chapter 1.2 of the Town Plan cites and links to a 2009 wildlife habitat study that was used to determine the habitat areas, titled: "Technical Guide to Classifying, Identifying, and Justifying Significant Wildlife Habitat in Charlotte, Vermont", Jesse Mohr (Native Geographic, LLC), Matthew Kolan (University of Vermont), and The 2008 Charlotte Significant Wildlife Habitat Working Group, 23 April 2009. The plan also calls for following an assessment protocol of impacts on habitats to be employed during development review proceedings, titled: "Protocol for Assessment of Impacts of Proposed Development on Significant Wildlife Habitat in Charlotte, Vermont", Charlotte Conservation Commission, March 2008.</p> <p>Notes: Click here to enter text.</p>
<p>14. Municipalities seeking a determination of energy compliance from the Department and not using their region's maps only: Does the plan ensure that its approach, if applied regionally, would not have the effect of prohibiting any type of renewable generation technology in all locations?</p>	<p><input type="checkbox"/> Yes (also check Yes if seeking determination from region, or from DPS but using region-provided maps)</p>	<p><input type="checkbox"/> No</p>	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>

Staff Review of the 2019 Shelburne Vermont Comprehensive Plan, Including Enhanced Energy Plan Review

Emily Nosse-Leirer, Senior Planner

October 31, 2018

The Town of Shelburne has requested, per 24 V.S.A §4350, that the Chittenden County Regional Planning Commission (1) approve its 2019 Shelburne Comprehensive Plan; and (2) confirm its planning process.

Additionally, the Town of Shelburne has requested that the Chittenden County Regional Planning Commission issue a determination of compliance with the enhanced energy planning standards set forth in 24 V.S.A. §4352 for the 2019 Shelburne Vermont Comprehensive Plan.

This draft 2019 Shelburne Comprehensive Plan is an update and re-adoption of the 2014 Shelburne Comprehensive Plan, as amended in 2016. In accordance with statute, re-adoption means that this is a fully compliant plan that will expire eight years after adoption by the Selectboard. CCRPC reviewed the 2014 plan and met with Shelburne staff to discuss it in March 2017 as part of an informal review and consultation process. The 2019 Shelburne Comprehensive Plan addresses several new required elements, provides updated data, addresses recent changes to the community and includes an enhanced energy plan. Staff have completed this formal review of the plan and review of the plan against the Vermont Department of Public Service's Energy Planning Standards for Municipal Plans in advance of the Planning Commission's November 15, 2018 hearing on the plan.

Confirming and Approving the Municipal Plan

Following the Chittenden County Regional Planning Commission's (CCRPC's) *Guidelines and Standards for Confirmation of Municipal Planning Processes and Approval of Municipal Plans (2018)* and the statutory requirements of 24 V.S.A. Chapter 117, I have reviewed the draft 2019 Shelburne Comprehensive Plan to determine whether it is:

- Consistent with the general goals of §4302;
- Consistent with the specific goals of §4302;
- Contains the required elements of §4382;
- Compatible with the 2018 Chittenden County Regional Plan, entitled the *2018 Chittenden County ECOS Plan* (per §4350); and
- Compatible with approved plans of other municipalities (per §4350).

Additionally, I have reviewed the planning process requirements of §4350.

Staff Review Findings and Comments

1. The 2019 Shelburne Comprehensive Plan is consistent with the general goals of §4302. See the attached Appendix A submittal that describes how the Plan is consistent with these goals.
2. The 2019 Shelburne Comprehensive Plan is consistent with the specific goals of §4302. See the attached Appendix A submittal that describes how the Plan is consistent with these goals.
3. The 2019 Shelburne Comprehensive Plan contains the required elements of §4382. See the attached Appendix A submittal that describes how the Plan is consistent with these goals.

4. The 2019 Shelburne Comprehensive Plan is generally compatible with the planning areas, goals and strategies of the 2018 Chittenden County Regional Plan, entitled the *2018 Chittenden County ECOS Plan*.
5. The 2019 Shelburne Comprehensive Plan is compatible with the municipal plans for Charlotte, Hinesburg, St. George, Williston and South Burlington.
6. Shelburne has a planning process in place that is sufficient for an approved plan. In addition, Shelburne has provided information about their planning budget and CCRPC finds that Shelburne is maintaining its efforts to provide local funds for municipal and regional planning.

Changes Needed to Meet Statutory Requirements

7. Act 64 became effective in 2015 and added the following to the state planning goals:
(6) (B) Vermont's water quality should be maintained and improved according to the policies and actions developed in the basin plans established by the Secretary of Natural Resources under 10 V.S.A. § 1253.

Shelburne is in both the Northern Lake Champlain Basin and the Winooski Basin, so a reference to both of those Tactical Basin Plans is needed. This could be as simple as adding a reference to the plans in one of your actions, such as Action 2.5, which discusses water quality more broadly.

Additional Comments/Questions:

The format of this plan is unique, with very little text narrative about each topic. However, there is a large amount of data provided in the appendices, as well as dozens of maps showing current conditions. The plan is very focused on implementation items, which often include explanations or relevant context for the related actions. There are multiple places where plans are incorporated by reference to provide additional context and support. In a future draft, it would be useful to have links to these plans in the PDF.

Enhanced Energy Plan Review

Following the statutory requirements of 24 V.S.A. §4352 and Vermont Department of Public Service's Energy Planning Standards for Municipal Plans, I have reviewed the draft Comprehensive Plan to determine whether:

8. The Comprehensive Plan includes an energy element that has the same components as described in 24 V.S.A. §4348a(a)(3) for a regional plan and is confirmed under the requirements of 24 V.S.A. §4350.
9. The Comprehensive Plan is consistent with following State goals:
 - a. Vermont's greenhouse gas reduction goals under 10 V.S.A. § 578(a);
 - b. Vermont's 25 by 25 goal for renewable energy under 10 V.S.A. § 580;
 - c. Vermont's building efficiency goals under 10 V.S.A. § 581;
 - d. State energy policy under 30 V.S.A. § 202a and the recommendations for regional and municipal energy planning pertaining to the efficient use of energy and the siting and development of renewable energy resources contained in the State energy plans adopted pursuant to 30 V.S.A. §§ 202 and 202b (State energy plans); and
 - e. The distributed renewable generation and energy transformation categories of resources to meet the requirements of the Renewable Energy Standard under 30 V.S.A. §§ 8004 and 8005.

CCRPC Staff & PAC Review – 2019 Shelburne Comprehensive Plan (Enhanced Energy Plan Review)
November 7, 2018 PAC Meeting

10. The Comprehensive Plan meets the standards for issuing a determination of energy compliance included in the State energy plans as developed by the Vermont Department of Public Service.

Staff Review Findings and Comments

Consistency with the requirements above is evaluated through the Vermont Department of Public Service's Vermont Department of Public Service's Energy Planning Standards for Municipal Plans, which is attached to this document and briefly summarized below.

Standard	Met	Not Met	N/A
1. Plan duly adopted and approved			Necessary for final determination
2. Submit a copy of the adopted plan			Necessary for final determination
3. Plan contains an energy element	X		
4. Analysis of resources, needs, scarcities, costs and problems in the municipality across all energy sectors	X		
5.a. Report Current energy use for heating, electricity, and transportation		X	
5.b. Report 2025, 2035 and 2050 targets for energy use		X	
5.c. Evaluation of thermal-sector energy use changes	X		
5.d. Evaluation of transportation-sector energy use changes	X		
5.e. Evaluation of electric-sector energy use changes	X		
6.a. Encourage conservation by individuals and organizations	X		
6.b. Promote efficient buildings	X		
6.c. Promote decreased use of fossil fuels for heat	X		
6.d. Demonstrate municipal leadership re: efficiency of municipal buildings?	X		
7.a. Encourage increased public transit use	X		
7.b. Promote shift away from single-occupancy vehicle trips	X		
7.d. Promote shift from gas/diesel to non-fossil fuel vehicles?	X		
7.e. Demonstrate municipal leadership re: efficiency of municipal transportation?	X		
8.a. Promote Smart growth land use policies	X		
8.b. Strongly prioritize development in compact, mixed use centers	X		
9.a. Report existing renewable energy generation		X	
9.b. Analyze generation potential	X		
9.c. Identify sufficient land to meet the 2050 generation targets	X		
9.d. Ensure that local constraints do not prevent the generation targets from being met	X		
9.e. Include policy statements on siting energy generation	X		
9.f. Maximize potential for generation on preferred sites	X		
9.g. Demonstrate municipal leadership re: deploying renewable energy	X		
11. Include maps provided by CCRPC	X		

Changes Necessary for a Determination of Energy Compliance

As drafted, Shelburne's Comprehensive Plan does not meet 3 of the requirements above. An evaluation of each requirement is included in the attached standards document. The changes needed to meet the requirements are discussed below.

12. Municipal enhanced energy plans are required to estimate current energy use across transportation, heating and electric sectors (Standard 5A). The plan as drafted does not contain estimates of current energy use. However, the [energy data guide](#) provided by CCRPC in February 2018 does contain 2015 estimates (Table A1-A5). Including these data will meet this requirement.
13. Municipal energy plans are required to report targets for renewable electricity generation (Standard 5B). Meeting this standard requires stating the renewable energy generation target for Shelburne. CCRPC set high and low targets for the county and for each municipality. Shelburne's targets can be found in the energy data guide provided by CCRPC in February 2018 (Table C3). Based on that analysis Shelburne does have sufficient land for renewable energy development. Current generation is 4,648 MWh annually. The high target for future generation is an additional 42,934 MWh annually by 2050. With just areas defined as "prime solar," Shelburne could produce an additional 66,835 MWh annually. This area excludes "local constraints" that are included in the ECOS Plan at the Town's request: significant view areas, archaeologically sensitive areas and the lakeshore buffer. Including this information will meet this requirement.
14. Municipal enhanced energy plans are required to evaluate generation from existing renewable energy generation in the municipality (Standard 9A). The plan as drafted does not contain an estimate of existing renewable energy generation. However, the energy data guide provided by CCRPC in February 2018 do contain information on existing generation (Table A6). Including these data will meet this requirement.

Additional Comments/Questions:

The changes discussed above are the only changes necessary for the comprehensive plan to be granted an affirmative determination of energy compliance. However, the changes discussed below would improve the plan's efficacy.

15. Certified municipal enhanced energy plans gain substantial deference for their land use policies. According to 30 VSA §248, "'substantial deference' means that a land conservation measure or specific policy shall be applied in accordance with its terms unless there is a clear and convincing demonstration that other factors affecting the general good of the State outweigh the application of the measure or policy." This plan includes siting policies regarding proactively weighing in on applications on formerly developed sites that the town supports. Enhanced energy plans are required to have siting policies, and this policy meets that requirement. **However, if the town's intent is to also identify resource areas where development (including renewable energy generation) should NOT go, CCRPC anticipates the current policy language will not be sufficient.**
 - a. **There are a number of places in the plan where more clarity would be useful in PUC proceedings.** For example, Future Land Use Objective 2 (page 21) is "Identify and exclude from development locations with significant constraints or hazards, including wet or unstable soils, flood hazard areas, and steep slopes. Conserve those resources identified on maps specifically identified in the Natural and Scenic Resources section of this Plan." This policy would probably be stronger if it defined what wet or unstable soils are/which mapped elements they correspond to, whether the 1% and/or the 0.2% annual chance floodplain are affected, and what percentage of slope is considered a steep slope (all slopes are mapped).
 - b. **There are a number of places where policies protecting resources are written in a way that specifically excludes the PUC process.** For example, Natural and Scenic Resources

and Land Conservation Action 1.4 states “...Require that any subdivision or development of property subject to Act 250 review and containing prime agricultural soils or soils of statewide significance in the Rural District protect, minimize or mitigate the disturbance to those productive soils.” Limiting this to Act 250 development seems to exclude this policy from applying to projects before the PUC, which is fine *if* that is the intent.

CCRPC staff can provide additional assistance with these policies if desired.

16. Municipal enhanced energy plans are required to demonstrate the municipality’s leadership by example with respect to the efficiency of municipal transportation (Standard 7E). The plan meets this requirement by including a discussion of installing electric vehicle charging infrastructure in municipal parking lots. However, consider strengthening this requirement by discussing possible efficiency upgrades for town-owned vehicles.

Proposed Motion & Next Steps:

PROPOSED MOTION: The PAC finds that the draft 2019 Shelburne Comprehensive Plan, **with the addition of a reference to the Northern Lake Champlain Tactical Basin Plan and the Winooski Tactical Basin Plan**, meets all statutory requirements for CCRPC approval, and that the municipality's planning process meets all statutory requirements for CCRPC confirmation.

The PAC also finds that the draft 2019 Shelburne Comprehensive Plan will meet the requirements of the enhanced energy planning standards (“determination”) set forth in 24 V.S.A. §4352 **with the addition of the data described in #10-12 above.**

Upon notification that the Plan has been adopted by the municipality, CCRPC staff will review the plan, and any information relevant to the confirmation process. If staff determines that the required data and reference have not been added, or that substantive changes have been made, the materials will be forwarded to the PAC for review. Otherwise the PAC recommends that the Plan, and the municipal planning process, should be forwarded to the CCRPC Board for approval, confirmation, and an affirmative determination of energy compliance.

Necessary Tables for Shelburne Energy Plan, 10/30/2018

A. Current Energy Use and Generation

The data below are from various sources and represent actual current consumption and generation, rather than estimates from the Long-Range Energy Alternatives (LEAP) model. Estimates from the LEAP model are shown in Section B.

Table A1. Current Municipal Transportation Energy Use

Fossil Fuel Burning Light Duty Vehicles, 2015	5,522
---	-------

Table A2. Number of Homes Heating with Delivered Fuels, 2015

Number of homes heating with Fuel oil, Kerosene	949 homes (32% of homes)
Number of homes heating with Propane	307 homes (10% of homes)
Percentage of Households Heating with Delivered Fuels	42% of homes

Sources: American Community Survey 2011-2015 5-Year Estimate

Table A3. Current Thermal Energy Use from Natural Gas, 2015

Total Residential Natural Gas Consumption (MMBtu)	199,418
Percentage of Municipal Natural Gas Consumption	69%
Total Commercial/Industrial Natural Gas Consumption (MMBtu)	90,620
Percentage of Municipal Natural Gas Consumption	31%
Total Municipal Natural Gas Consumption	290,038

Sources: Vermont Gas

Table A4. Recent Residential Energy Efficiency Projects

	2014	2015	2016
Home Performance with ENERGY STAR® Leads	35	20	18
Home Performance with ENERGY STAR® Projects	19	4	11
Total Residential Projects (includes Home Performance with ENERGY STAR® projects)	69	92	116

Source: Efficiency Vermont, October 2017

Table A5. Electrical Energy Use, 2015

Residential Electric Energy Use (MWh)	25,560
Commercial and Industrial Electric Energy Use (MWh)	28,213
Total Electric Energy Use (MWh)	53,773

Sources: Efficiency Vermont, October 2017

Table A6. Existing Renewable Electricity Generation

	Sites	Power (MW)	Energy (MWh)
Solar	144	3.3	4,641
Wind	1	.003	7
Hydroelectric	0	0	0
Biomass (Wood)	1	Unknown	Unknown
Other	0	0	0
Total	146	3.3	4,648

Source: Community Energy Dashboard, July 2017

C. Projected Renewable Energy Generation Potential

Table C3. New Renewable Electricity Generation Targets

	2025		2035		2050	
	Low	High	Low	High	Low	High
Generation Targets – Any Technology (MWh)	6,799	12,267	13,597	24,534	23,795	42,934

Sources: LEAP Model and CCRPC Modeling

These targets are in addition to what the municipality is already generating.

Appendix A – Municipal Plan Review Tool

Chittenden County Regional Planning Commission

Guidelines and Standards for Confirmation of Municipal Planning Processes and Approval of Municipal Plans

This form addresses the statutory requirements of the State of Vermont for town plans, as cited in the Vermont Municipal and Regional Planning and Development Act, Title 24 V.S.A Chapter 117 (the Act). It includes the 12 required elements found in § 4382 of the Act; the four planning process goals found in § 4302(b), the 14 specific goals found in § 4302(c); and the standard of review found in § 4302(f), which covers consistency with goals and compatibility standards.

During the Regional approval and confirmation process, specified in § 4350 of the Act, the regional planning commission is required to assess town plans and the process whereby they are developed according to the criteria of the Act. Sections of relevant statute are quoted at each question.

	Required Elements § 4382	Met	Not Met
1	Statement of Objectives, Policies, Programs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Land Use Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Transportation Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Utility and Facility Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Rare Natural Resources/Historic Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Educational Facilities Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Implementation Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Development Trends	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Energy Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Housing Element	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Economic Development Element	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Flood Resiliency Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	State Planning Goals § 4302	Met	Not Met
1	Development Pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Economy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Education	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Transportation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Natural and Historic Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Quality of Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Energy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Recreation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Agriculture and Forest Industries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Use of Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Housing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Public Facilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	Child Care	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	Flood Resiliency	<input checked="" type="checkbox"/>	<input type="checkbox"/>

TOWN PLAN REQUIRED ELEMENTS

Title 24 Chapter 117: Municipal and Regional Planning and Development

24 V.S.A. § 4382. The plan for a municipality

(a) A plan for a municipality may be consistent with the goals established in section 4302 of this title and compatible with approved plans of other municipalities in the region and with the regional plan and shall include the following:

(1) A statement of objectives, policies and programs of the municipality to guide the future growth and development of land, public services and facilities, and to protect the environment.

Comments:

Met

Pages: 5-24; 47-59; 25-40

Page references encompass Future Land Use Chapter, Growth and Development Chapter, and Natural and Scenic Resources and Land Conservation Chapter.

(2) A land use plan, consisting of a map and statement of present and prospective land uses, that indicates those areas proposed for forests, recreation, agriculture (using the agricultural lands identification process established in 6 V.S.A. § 8), residence, commerce, industry, public and semi-public uses and open spaces, areas reserved reserved for flood plain, and areas identified by the State, the regional planning commission, or the municipality that require special consideration for aquifer protection; for wetland protection, for the maintenance of forest blocks, wildlife habitat, and habitat connectors; or for other conservation purposes; sets forth the present and prospective location, amount, intensity and character of such land uses and the appropriate timing or sequence of land development activities in relation to the provision of necessary community facilities and service; identifies those areas, if any, proposed for designation under chapter 76A of this title, together with, for each area proposed for designation, an explanation of how the designation would further the plan's goals and the goals of § 4302 of this title, and how the area meets the requirements for the type of designation to be sought; and indicates those areas that are important as forest blocks and habitat connectors and plans for land development in those areas to minimize forest fragmentation and promote the health, viability, and ecological function of forests.

Comments:

Met

Pages: 5-24; 25-40

MAPS

Present Land Use Plan ✓

Prospective Land Use Plan ☒

Page references encompass Future Land Use Chapter and Natural and Scenic Resources and Land Conservation Chapter. Plan includes both Existing Land Use map (Map 1) and Future Land Use map (designated Composite Future Land Use Map) (Map 3). Shelburne's Designated Village Center is a feature on the Composite Future Land Use Map) and is addressed in text.

(3) A transportation plan, consisting of a map and statement of present and prospective transportation and circulation facilities showing existing and proposed highways and streets by type and character of improvement, and where pertinent, parking facilities, transit routes, terminals, bicycle paths and trails, scenic roads, airports, railroads and port facilities, and other similar facilities or uses, with indications of priority of need;

Comments:

Met

Pages: 67-82; 83-91

MAP

Transportation ☒

Page references encompass Transportation Chapter and Energy Chapter, which includes related discussion. Transportation Plan maps include Maps 9 and 10.

(4) A utility and facility plan, consisting of a map and statement of present and prospective community facilities and public utilities showing existing and proposed educational, recreational and other public sites, buildings and facilities, including hospitals, libraries, power generating plants and transmission lines, water supply, sewage disposal, refuse disposal, storm drainage and other similar

Met

Pages: 53-56; 57-59; 95-97

facilities and activities, and recommendations to meet future needs for community facilities and services, with indications of priority of need, costs and method of financing;

Comments:

MAP
Utility and Facility ☒

Shelburne's Utility and Facility Plan can be found within the Community Utilities, Facilities, and Services section of the Growth and Development Chapter and in the Recreation Plan and Towers and Telecommunications Plan. Page references encompass these sections. Utility and Facility Features are depicted on Map 8 and in numerous maps included associated Map book (Maps MB 17, MB 18, MB 20, MB 21, and MB 22).

(5) A statement of policies on the preservation of rare and irreplaceable natural areas, scenic and historic features and resources;

Comments:

Met
Pages: 25-40; 41-45

Once again page references encompass Natural and Scenic Resources and Land Conservation Chapter. Second reference encompasses Historic and Cultural Resources Chapter.

(6) An educational facilities plan consisting of a map and statement of present and projected uses and the local public school system;

Comments:

Met
Pages: 53-54

Education facilities Plan is encompassed within the Community Utilities, Facilities, and Services section of the Growth and Development Chapter. Schools are depicted on Map 8.

MAP
Educational Facility ☒

(7) A recommended program for the implementation of the objectives of the development plan;

Comments:

Met
Pages: "Recommended Actions" sections of each chapter

The Plan's Implementation Program has been the subject of numerous discussions. Ultimately, the Commission recognized the Recommended Actions within each chapter as constituting the program. The Planning Commission has completed a prioritization exercise, the result of which is that the top three Recommended Actions within each section (and in rare cases the top four Recommended Actions) are considered a short list of sorts. The Planning Commission's practice is to utilize Recommended Actions as the starting point in the development of an annual work plan.

(8) A statement indicating how the plan relates to development trends and plans of adjacent municipalities, areas and the region developed under this title;

Comments:

Met
Pages: 'Compatibility Statement.' See appendix.

The Plan warned for public hearing includes a series of Appendices, one of which is "Statement Regarding Plan Compatibility" which addresses the statutory requirement.

(9) An energy plan, including an analysis of energy resources, needs, scarcities, costs and problems within the municipality, a statement of policy on the conservation of energy, including programs, such as thermal integrity standards for buildings, to implement that policy, a statement of policy on the development of renewable energy resources, a statement of policy on patterns and densities of land use likely to result in conservation of energy;

Met
Pages: 83-94; 5-24; 25-27; also see maps in Map book (appended)

Comments:

First page reference encompasses the significantly revised Energy Chapter, which was developed by the Planning Commission's Energy SubCommittee using materials supplied by the Regional Planning Commission. Shelburne was one of three communities selected for technical assistance supported by funding provided by the Vermont Department of Public Service. The second page reference addresses the Future Land Use chapter, which as a result of it's emphasis on the focusing growth within the central portion of the community responds to statutory requirement regarding patterns and densities of land use likely to result in conservation of energy. Third page reference encompasses portions of Natural and Scenic Resources and Land Conservation section which acknowledge relationship between land use and energy.

(10) A housing element that shall include a recommended program for addressing low and moderate income persons' housing needs as identified by the regional planning commission pursuant to subdivision 4348a(a)(9) of this title. The program should account for permitted accessory dwelling units, as defined in subdivision 4412(1)(E) of this title, which provide affordable housing.

Met
Pages: 61-64

Comments:

Page references encompass the proposed Plan's Housing chapter.

(11) An economic development element that describes present economic conditions and the location, type, and scale of desired economic development, and identifies policies, projects, and programs necessary to foster economic growth.

Met
Pages: 51-52; 12; 43

Comments:

Page references encompass the proposed Plan's Economic Development Element, which is a section within the Growth and Development chapter, as well as pages within the Future Land Use chapter (which acknowledges the role Village Center designation might play in economic development) and Historic and Cultural Resources section which acknowledges the role historic resources play in economic development).

(12)(A) A flood resilience plan that:

(i) identifies flood hazard and fluvial erosion hazard areas, based on river corridor maps provided by the Secretary of Natural Resources pursuant to 10 V.S.A. § 1428(a) or maps recommended by the Secretary, and designates those areas to be protected, including floodplains, river corridors, land adjacent to streams, wetlands, and upland forests, to reduce the risk of flood damage to infrastructure and improved property; and

(ii) recommends policies and strategies to protect the areas identified and designated under subdivision (12)(A)(i) of this subsection and to mitigate risks to public safety, critical infrastructure, historic structures, and municipal investments.

(B) A flood resilience plan may reference an existing local hazard mitigation plan approved under 44 C.F.R. § 201.6.

Met
Pages: 28, 30, 33, 35 (Map 7)

Comments:

Map 7 in the plan identifies flood hazard and fluvial erosion hazard areas, based on river corridor maps provided by the Secretary of Natural Resources, and identifies "protected" areas. Policies addressing protected areas are included within different portions of the Natural and Scenic Resources and Land Conservation Chapter. Maps in the Map Book (including MB 10 and 14) reinforce Map 7. Adoption of a Flood resilience appendix and/or addition

of a reference to the existing local hazard mitigation plan could receive some consideration by the Planning Commission on October 25, 2018, in anticipation to its November 15 public hearing.

§4382(c) Data:

Where appropriate, and to further the purposes of subsection 4302(b) of this title, a municipal plan shall be based upon inventories, studies, and analyses of current trends and shall consider the probable social and economic consequences of the proposed plan. Such studies may consider or contain, but not be limited to:

- (1) population characteristics and distribution, including income and employment;
- (2) the existing and projected housing needs by amount, type, and location for all economic groups within the municipality and the region;
- (3) existing and estimated patterns and rates of growth in the various land use classifications, and desired patterns and rates of growth in terms of the community's ability to finance and provide public facilities and services.

Comments:

Met

Pages: 4; 5-24; 25-40; 47-55;
Also see 'Data Profile',

Population characteristics, including income and employment, are documented in the Data Profile included as one of the Plan appendices. Housing needs are also documented in the Data Profile. Estimated and desired rates of population and housing growth are addressed in the Growth and Development section of the Plan (especially page 48-50), the Vision (see page 4), and the Future Land Use section, among other sections.

GOALS AND STANDARDS OF REVIEW

GOALS

24 VSA § 4302

(a) General purposes . . .

(b) It is also the intent of the legislature that municipalities, regional planning commissions and state agencies shall engage in a continuing planning process that will further the following goals:

(1) To establish a coordinated, comprehensive planning process and policy framework to guide decisions by municipalities, regional planning commissions, and state agencies.

(2) To encourage citizen participation at all levels of the planning process, and to assure that decisions shall be made at the most local level possible commensurate with their impact.

(3) To consider the use of resources and the consequences of growth and development for the region and the state, as well as the community in which it takes place.

(4) To encourage and assist municipalities to work creatively together to develop and implement plans.

(c) In addition, this chapter shall be used to further the following specific goals:

Goal 1:

To plan development so as to maintain the historic settlement pattern of compact village and urban centers separated by rural countryside.

(A) Intensive residential development should be encouraged primarily in areas related to community centers, and strip development along highways should be discouraged.

(B) Economic growth should be encouraged in locally designated growth areas, or employed to revitalize existing village and urban centers, or both.

(C) Public investments, including construction or expansion of infrastructure, should reinforce the general character and planned growth patterns of the area.

Consistent

Pages: 5-24, among others

How has the Town Plan addressed this goal:

Shelburne's Future Land Use Plan promotes a three-tiered growth area scheme compatible with Goal 1. The scheme consists of: 1) central Village growth area, 2) 'Beyond the Village' growth area (consisting of the remainder of the Town's Sewer Service Area), and 3) surrounding Rural/Conservation areas (outside the Sewer Service Area). The scheme is promoted via both maps and policy language.

Goal 2:

To provide a strong and diverse economy that provides satisfying and rewarding job opportunities and that maintains high environmental standards, and to expand economic opportunities in areas with high unemployment or low per capita incomes.

Consistent

Pages: 4; 51-52; 12; 43

How has the Town Plan addressed this goal:

Shelburne's Vision Statement, Economic Development Element, and portions of other chapters of the Plan (e.g., those promoting agricultural and natural resource based businesses in the Town's rural areas) align to promote economic development while retaining the qualities that make Shelburne a special place.

Goal 3:

To broaden access to educational and vocational training opportunities sufficient to ensure the full realization of the abilities of all Vermonters.

Consistent

Pages: 53-55

How has the Town Plan addressed this goal:

Shelburne's Education Element (found within Community Utilities, Facilities, and Services Chapter) promotes educational opportunity through language such as the following: "Educational opportunities will be diverse and excellent. Public school facilities will serve a variety of functions in the Town and will be centrally located in the growth area where they can efficiently serve the entire community. The Town will carefully monitor the needs of its population and add or modify facilities and programs as required."

Goal 4:

To provide for safe, convenient, economic and energy efficient transportation systems that respect the integrity of the natural environment, including public transit options and paths for pedestrians and bicyclers.

Consistent

Pages: 67-82; 83-91

- (A) Highways, air, rail and other means of transportation should be mutually supportive, balanced and integrated.

How has the Town Plan addressed this goal:

Shelburne's Transportation Element recognizes transportation planning "as a fundamental component of placemaking and catalyst for enhancing and achieving desired community form and outcomes." It address Goal 4 with language such as the following: "Streets, roads, and highways traditionally built and maintained for motor vehicles use and convenience shall be designed to accommodate all modes of travel. Achieving this on the Town's roadways will take on different forms in different settings." Goal 4 is also addressed via language in Shelburne's Energy Element, including text indicating the Town's support state for energy goals "To obtain 90% of all energy across all sectors (transportation, heating, and electricity) from renewable sources by 2050, with the interim goal of 25% renewable by 2025..."

Goal 5:

To identify, protect and preserve important natural and historic features of the Vermont landscape including:

Consistent

Pages: 25-40; 41-45

- (A) significant natural and fragile areas;
- (B) outstanding water resources, including lakes, rivers, aquifers, shorelands and wetlands;
- (C) significant scenic roads, waterways and views;
- (D) important historic structures, sites, or districts, archaeological sites and archaeologically sensitive areas

How has the Town Plan addressed this goal:

The Natural and Scenic Resources and Land Conservation Chapter of the Comprehensive Plan addresses Goal 5 through general policy language such as the following: "Objective 3: Protect Shelburne's Natural Communities, wildlife and habitat corridors" and "Objective 5. Assure protection and maintenance of scenic resources." More specific examples are found in the Chapter's Recommended Actions. One such example is: "Ensure that identified critical rare and endangered plant and animal species, vernal pools, and wildlife habitats are protected and able to continue to support a healthy and diverse community of native land and water based plants and animals so that they

exist for the protection and enjoyment of future generations.” Another is “3.4. Create incentives or other programs for conserving or protecting mapped natural and scenic resources. This can include encouraging participation in the State’s Use Value Appraisal Program, allowing transfer of development rights, variations on sliding scale zoning or other lot size flexibility methods, expedited review or requirement trade-offs and permitting for development that supports natural resource values, allowance for open space protection from off-site locations, and/ or establishing a municipal tax relief program.” The Historic and Cultural Resources Chapter of the Plan addresses Goal 5 through language such as “To identify, preserve, and protect the character and defining elements of the built environment and landscape. These elements include historic structures, historic areas, significant views, and objects of historical, cultural, architectural, and archaeological significance. These elements contribute to the sense of place, identity, evolution, ownership, and community that defines the Town of Shelburne.”

Goal 6:

To maintain and improve the quality of air, water, wildlife, forests and other land resources.

Consistent

Pages: 25-40;

How has the Town Plan addressed this goal:

Natural and Scenic Resources and Land Conservation Chapter.

Owing to the considerable overlap in subject matter, please response to Goal 5.

Goal 7:

To encourage the efficient use of energy and the development of renewable energy resources.

Consistent

Pages: 83-94

How has the Town Plan addressed this goal:

The Energy Element of the proposed 2019 Comprehensive Plan addresses Goal 7 through policy language such as the following: “Promote energy conservation, efficient use of energy, renewable energy generation, and a transition away from fossil fuels across all sectors (heating, electricity, and transportation).” And “To obtain 90% of all energy across all sectors (transportation, heating, and electricity) from renewable sources by 2050, with the interim goal of 25% renewable by 2025...” With regard to energy generation, one objective is contained in the Energy element is to “Promote the development and use of renewable energy sources in new and existing residential and nonresidential areas while minimizing significant adverse impacts of such development.”

Goal 8:

To maintain and enhance recreational opportunities for Vermont residents and visitors.

Consistent

Pages: 57-59

(A) Growth should not significantly diminish the value and availability of outdoor recreational activities.

(B) Public access to noncommercial outdoor recreational opportunities, such as lakes and hiking trails, should be identified, provided, and protected wherever appropriate.

How has the Town Plan addressed this goal:

Language addressing statutory Goal 8 can be found in the Recreation Chapter of the Comprehensive Plan. One general example is the following: “To continue to provide high quality and accessible parks, facilities, and recreation programs to all Shelburne residents at reasonable cost to the community.” A more specific example is “Continue to secure appropriate additional public access to Lake Champlain and Town-owned lands, where appropriate. Carefully maintain the quality of sites, such as the Town Beach, Shelburne Bay Park, and the LaPlatte Nature Park, where public access currently exists.”

Consistent

Pages: 20-23; 25-40

Goal 9:

To encourage and strengthen agricultural and forest industries.

- (A) Strategies to protect long-term viability of agricultural and forestlands should be encouraged and should include maintaining low overall density.
- (B) The manufacture and marketing of value added agricultural and forest products should be encouraged.
- (C) The use of locally-grown food products should be encouraged.
- (D) Sound forest and agricultural management practices should be encouraged.
- (E) Public investment should be planned so as to minimize development pressure on agricultural and forest land.

How has the Town Plan addressed this goal:

Evidence of Shelburne's support for Goal 9 can be found in "Outside the Growth Area" portion of the Future Land Use Plan. A supportive policy statement in that section includes "Identify new cultural land uses compatible with Shelburne's rural scale and setting to occur alongside traditional resource based rural practices (forestry, agriculture and horticulture)." Similar evidence can be found in the Natural and Scenic Resources and Land Conservation chapter of the proposed Plan. For example "Support agriculture and the concepts of "right to farm" and "value added agriculture" to ensure that a diverse agricultural economy continues to thrive while protecting water and soil resources."

Goal 10:

To provide for the wise and efficient use of Vermont's natural resources and to facilitate the appropriate extraction of earth resources and the proper restoration and preservation of the aesthetic qualities of the area.

Consistent

Pages: 25-40

How has the Town Plan addressed this goal:

The Natural and Scenic Resources and Land Conservation section of the Plan also includes language demonstrating the Town's intent to further policies consistent with statutory Goal 10. For example, that section includes the following detailed policy: "Require that extraction of earth resources beyond a threshold be limited in scope and size and include an approved site restoration plan. Ensure that any extraction and subsequent restoration prevents adverse impacts to natural, scenic, and water resources."

- Work with owners of existing extraction operations to encourage effective closing and reclamation of such facilities, when use of such facilities ceases, in accordance with these objectives and recommended actions.
- Require that any chemicals used in blasting have no residual impact on surface or groundwater supply."

Goal 11:

To ensure the availability of safe and affordable housing for all Vermonters.

- (A) Housing should be encouraged to meet the needs of a diversity of social and income groups in each Vermont community, particularly for those citizens of low and moderate income.
- (B) New and rehabilitated housing should be safe, sanitary, located conveniently to employment and commercial centers, and coordinated with the provision of necessary public facilities and utilities.
- (C) Sites for multi-family and manufactured housing should readily available in locations similar to those generally used for single-family conventional dwellings.

Consistent

Pages: 61-64

(D) Accessory apartments within or attached to single family residences which provide affordable housing in close proximity to cost-effective care and supervision for relatives or disabled or elderly persons should be allowed.

How has the Town Plan addressed this goal:

Evidence of Shelburne's support for statutory Goal 11 is found, not surprisingly, in the Housing Element of the document. Evidence of the support takes the form of language ranging from the general to the specific. A general example is the goal "To have an adequate supply of housing to accommodate a diverse array of residents, but which does not adversely impact the town's scenic and natural resources or the ability to provide public facilities." More specific policy objectives states as follows: "Affordable and workforce housing, in particular, should be located close to public services and facilities so residents can benefit from these and other public resources." And "Prioritize affordable and workforce housing preservation. Take active steps to preserve existing affordable and workforce housing, including spaces in mobile home parks. Federal and state funding shall be used to augment private funding for the rehabilitation of substandard housing." An even more specific example is a proposed Recommended Action calling upon the Town to "Amend regulations to increase the size limits on accessory dwellings within the sewer service area."

Goal 12:

To plan for, finance and provide an efficient system of public facilities and services to meet future needs.

(A) Public facilities and services should include fire and police protection, emergency medical services, schools, water supply and sewage and solid waste disposal.

(B) The rate of growth should not exceed the ability of the community and the area to provide facilities and services.

Consistent

Pages: 47-56; 57-60; 95-96

How has the Town Plan addressed this goal:

Within the Growth and Development Chapter, the section on Utilities, Facilities, and Services contains language addressing statutory goal 12. For example, a primary goal within the chapter indicates that it is Shelburne's intent "To provide, in a cost effective manner, Town utilities, facilities, and services consistent with the planned rates of population, housing and economic growth." A more specific objective mentioned in the Chapter is "To provide community utilities, facilities and services to meet the need of future growth, ensure that new development does not overload those utilities, facilities, and services, and ensure that new development does not reduce the quality of services provided or negatively impact existing neighborhoods." Similarly, one of the Chapter's Recommended Actions is to "Undertake and when necessary update capacity and needs studies for all facilities and services provided by the Town. Such studies should, at a minimum, determine existing capacity and specified levels of service, the ability to accommodate future growth, and expansions needed to accommodate the planned rates of growth at desired service levels...."

Goal 13:

To ensure the availability of safe and affordable child care and to integrate child care issues into the planning process, including child care financing, infrastructure, business assistance for child care providers, and child care work force development.

Consistent

Pages: 65-66

How has the Town Plan addressed this goal:

The proposed 2019 Plan addresses statutory Goal 13 via language in the Childcare Chapter. Such language includes the following:

"Encourage the creation, expansion, and continuation of child care services in Shelburne in a variety of settings from small home day-care facilities to larger day-care centers.

"Encourage the discussion of child care financing, infrastructure, business assistance for childcare providers, and childcare workforce development with the appropriate regional and state leaders."

Goal 14:

To encourage flood resilient communities.

(A) New development in identified flood hazard, fluvial erosion, and river corridor protection areas should be avoided. If new development is to be built in such areas, it should not exacerbate flooding and fluvial erosion.

(B) The protection and restoration of floodplains and upland forested areas that attenuate and moderate flooding and fluvial erosion should be encouraged.

(C) Flood emergency preparedness and response planning should be encouraged.

Consistent

Pages:

28, 30, 33, 35

Shelburne's proposed Plan addresses statutory Goal 13 via language found in the Natural and Scenic Resources and Land Conservation Chapter of the Comprehensive Plan and in the associated Map Book (contained within the appendix), among other sections. Examples of substantiating language include the following:

"Preserve, protect, and improve Shelburne's natural resources. Reduce and where possible prevent the loss of life and injury resulting from hazards and mitigate financial losses and environmental degradation due to hazards including flooding. Also increase awareness of damage that could be caused by future flooding and other hazard events."

"Ensure that the Flood Resilience Map (Map 7) is comprehensive and up to date. Expand and refine the inventory of important flooding—and river corridor related features, using contemporary mapping techniques."

"Amend the Town's Zoning Ordinance to more effectively achieve the Goal and Objectives of this section. Employ a broad array of tools for the conservation and protection of the resources identified on the above-mentioned map. Specifically, the amendments shall address at least the following (where appropriate, similar changes shall be made to the Subdivision Regulations)."

Within the Future Land use section, relevant language includes the following:

"Identify and exclude from development locations with significant constraints or hazards, including wet or unstable soils, flood hazard areas, and steep slopes. Conserve those resources identified on maps specifically identified in the Natural and Scenic Resources section of this Plan."

STANDARD OF REVIEW

24 V.S.A. § 4302(f)

(1) As used in this chapter, "consistent with the goals" requires substantial progress toward attainment of the goals established in this section, unless the planning body determines that a particular goal is not relevant or attainable. If such a determination is made, the planning body shall identify the goal in the plan and describe the situation, explain why the goal is not relevant or attainable, and indicate what measures should be taken to mitigate any adverse effects of not making substantial progress toward that goal. The determination of relevance or attainability shall be subject to review as part of a consistency determination under this chapter.

(2) As used in this chapter, for one plan to be "compatible with" another, the plan in question, as implemented, will not significantly reduce the desired effect of the implementation of the other plan. If a plan, as implemented, will significantly reduce the desired effect of the other plan, the plan may be considered compatible if it includes the following:

- (A) a statement that identifies the ways that it will significantly reduce the desired effect of the other plan;
- (B) an explanation of why any incompatible portion of the plan in question is essential to the desired effect of the plan as a whole;
- (C) an explanation of why, with respect to any incompatible portion of the plan in question, there is no reasonable alternative way to achieve the desired effect of the plan, and
- (D) an explanation of how any incompatible portion of the plan in question has been structured to mitigate its detrimental effects on the implementation of the other plan.

Details of CCRPC's review process can be found in "Guidelines and Standards for Confirmation of Municipal Planning Processes, Approval of Municipal Plans and Granting Determinations of Energy Compliance," as amended on September 19, 2018.

<p>Supplemental plans: [list one or more identified in the plan, but not necessarily all]</p>	<p> <input checked="" type="checkbox"/> Activity Completed <input checked="" type="checkbox"/> Currently Implementing <input type="checkbox"/> Not a Priority During Time Period <input type="checkbox"/> Not a Priority in Plan <input type="checkbox"/> Hindered or Delayed <input type="checkbox"/> No Activity </p>	<p>Have supplemental plans, are implementing those plans, and frequently creating new plans. Examples include Village Plan, Village Transportation study.</p>
<p>Other actions, programs, or measures undertaken or scheduled to implement the adopted plan:</p> <p>[list one or more identified in the plan, but not necessarily all]</p>	<p> <input type="checkbox"/> Activity Completed <input type="checkbox"/> Currently Implementing <input type="checkbox"/> Not a Priority During Time Period <input type="checkbox"/> Not a Priority in Plan <input type="checkbox"/> Hindered or Delayed <input type="checkbox"/> No Activity </p>	<p>Among other actions, Town administers Impact Fee program by virtue of the authority it has a result of maintaining an approved Plan and confirmed planning process.</p>

24 V.S.A. 4350(c): *In order to retain confirmation or the planning process, a municipality shall document that it has reviewed and is actively engaged in a process to implement its adopted plan.*

- (2) When assessing whether a municipality has been actively engaged in a process to implement its adopted plan, the regional planning commission shall consider the activities of the local boards and commissions with regard to the preparation or adoption of bylaws and amendments; capital budgets and programs; supplemental plan; or other actions, programs, or measures undertaken or scheduled to implement the adopted plan. The regional planning commission shall consider factors that may have hindered or delayed municipal implementation efforts.*
- (1) The consultation may include guidance by the regional planning commission with regard to resources and technical support available to the municipality its adopted plan and recommendations by the regional planning commission for plan amendments and for updating the plan prior to readoption under section 4387 of this title.*

In order to obtain or retain confirmation, a municipality must be actively engaged in a process to implement its adopted plan. Actively engaged is defined as making progress in all of the four implementation categories above or a determination that the plan does not call for any implementation actions in a category.

Examples of recent bylaw amendments/proposed amendments as evidence of Shelburne's active engagement in a process to implement its adopted plan:

Subject	Timing
<ul style="list-style-type: none"> • modifying development potential for existing properties less than 15 acres in size, where subdivision potential would be based on gross area rather than on developable land area; • revising Residential Planned Unit Development (PUD) provisions to subject all residential subdivisions in the Rural District to review as PUDs; • revising language in the dimensional standards section of the Rural District zoning to indicate that lot sizes for residential uses are set per the PUD process; • standardizing open space requirements in Residential PUDs at 60 percent; and • decreasing the periphery buffer requirement applied to Residential PUDs in the rural District (from 75' to 50'). 	In process
a) addition of language to allow, as nonconformities subject to conditional use review, limited expansion of structures encroaching on front yard setback in the Rural Zoning District; b) addition of language to allow, as a permitted use subject to all other applicable requirements of the Lakeshore Overlay District, installation of "lakeshore safety fence" structures within 100 foot setback from the 102 foot elevation Contour along Lake Champlain; c) addition of language cross referencing statutory authority relating to Site Plan Review and Conditional Use Review; and d) correction of typographical errors in Table 2	2018
a) a proposal to remove the size restriction on Day Care Centers located in the Mixed Use Zoning District, b) a proposal to define a use to be known as Local Market with Delicatessen, and allow that use a Conditional Use in the Shelburne Falls Zoning District, c) and a proposal to modify certain provisions relating to Integrated Agriculture.	2017
a) a proposal to clarify sidewalk and path construction requirements, b) a proposal to expand requirements governing trailers and storage of waste, c) a proposal to modify regulations governing sign lighting, d) a proposal to establish requirements for setbacks from private rights-of-way, and e) a proposal to modify excavation and fill requirements	2017
Add Adult Entertainment to the list of conditional uses authorized in the Mixed Use district and by operation of Section 2010.7 ("All uses not specifically authorized by this bylaw are prohibited") exclude the use in all other districts. The proposal would also add a series of Conditional Use review criteria applicable to Adult Entertainment uses. These criteria would establish requirements relating to a) comparability to other uses allowed in the Mixed Use district; b) separation from sensitive land uses such as schools, libraries, daycares, religious land uses, public parks, and residential zoning districts; c) separation from other instances of the same use; d) visibility of displays from any public vantage point; e) visibility of merchandise from any public vantage point; f) restrictions on signage; and g) entry by adults only. The proposal would preclude review of the use under the Form Based Zoning overlay district	2017
Add "Pet Care Facilities with space for not more than 100 animals" to the list of Conditional uses allowed in two zoning districts: 1) the Commerce and Industry District and 2) the Commerce and Industry South District.	2016
Modify definition of "Subdivision" to make clear that subdivisions do not include condominium conversions that solely change the form of ownership of a parcel of land or a structure without new land development. The definition of "Minor Subdivision" and "Major Subdivision" would be changed to establish that certain subdivisions that receive approval under proposed Form Based Zoning Overlay District would be classified as Minor Subdivisions. The definition of "Redevelopment" would be modified to reflect recent changes in state statute governing stormwater management. And the definition of "Resubdivision" would be revised to complete a sentence with an omitted word.	2016

Modify the regulations by adding an overlay district that would allow applicants to seek review of proposals under a “form-based” zoning framework instead of under the existing, traditional “Euclidian” zoning framework	2015
<p>modify the regulations by:</p> <ul style="list-style-type: none"> • Removing references to the “National Wetlands Inventory” and “the most recent regional wetlands inventory” and • Adding a reference to the “Vermont Significant Wetlands Inventory” <p>Allow for installation of additional signs within certain municipal athletic facilities, namely those located behind the Shelburne Municipal Complex and at the Turtle Lane Baseball fields site.</p>	2015
Add a definition of “Mobile Home” to the Definition Section of the Bylaw, with such definition establishing that—outside of areas regulated by the Flood Hazard and Watercourse Overlay, where a statewide definition applies—Mobile homes are single story structures transportable in one or more sections and designed for single family residential use with or without a permanent foundation when attached to the required utilities.	2015
<ul style="list-style-type: none"> • Remove the reference to “fixed” seats contained in the off-street parking requirement applicable to restaurants, bars, lounges, grills, and similar dining and/or drinking establishments. (The reference to seats would be retained; only the reference to “fixed” would be removed.) • Remove the reference to “(sit down)” contained in the off-street parking requirement applicable to restaurants, bars, lounges, grills, and similar dining and/or drinking establishments. (The parenthetical phrase “site down” would be removed.) • Clarify phrase “long term” in connection with certain parking arrangements. 	2015
<ul style="list-style-type: none"> • Allow increased development (as measured by building footprint) to be proposed as part of Redevelopment PUDs (PUD-RDV) in the Village Core Overlay District, clarify ownership requirements for PUD-RDVs, exempt certain PUD-RDVs from frontage requirements, discontinue DRB’s authority to waive lot coverage restrictions, and reduce residential development potential as part of PUD-RDVs. 	2014
<ul style="list-style-type: none"> • Increase building height maximum applicable to certain structures located in the Residential Zoning District, when such structures are located within Planned Unit Developments and, further, when the Development Review Board explicitly finds such structures comply with a series of standards relating to fire protection, location and height of exterior windows, emergency vehicle access, and compatibility with surrounding area. 	2014
<ul style="list-style-type: none"> • Allow Pet Care Facilities (including doggie daycares) as a conditional use in the Mixed Use zoning District, and add specific conditional use review requirements for Kennels and Pet Care Facilities. • Modify the Neighborhood Overlay District Purpose statement and Zoning Overlay map. • Modify the requirements pertaining to periphery buffers in Commercial PUDs (Planned Unit Developments) in the districts where authorized. Under the proposed change, structures existing as of the effective date of the bylaws would be allowed to continue to occupy the periphery buffer. 	2013
Modify the regulations governing changes made to non-complying structures located partially or totally within the Lakeshore Overlay Zoning District. Instead of regulating the volume of the structure, the zoning regulations would regulate height and footprint. The proposal would also modify the manner in which excavation and filling in the Lakeshore Overlay Zoning District are regulated.	2012

Energy Planning Standards for Municipal Plans

Instructions

Before proceeding, please review the requirements of Parts I and II below, as well as the Overview document. Submitting a Municipal Plan for review under the standards below is entirely voluntary, as enabled under [Act 174](#), the Energy Development Improvement Act of 2016. If a Municipal Plan meets the standards, it will be given an affirmative “determination of energy compliance,” and will be given “substantial deference” in the Public Service Board’s review of whether an energy project meets the orderly development criterion in the Section 248 process. Specifically, with respect to an in-state electric generation facility, the Board:

[S]hall give substantial deference to the land conservation measures and specific policies contained in a duly adopted regional and municipal plan that has received an affirmative determination of energy compliance under 24 V.S.A. § 4352. In this subdivision (C), “substantial deference” means that a land conservation measure or specific policy shall be applied in accordance with its terms unless there is a clear and convincing demonstration that other factors affecting the general good of the State outweigh the application of the measure or policy. The term shall not include consideration of whether the determination of energy compliance should or should not have been affirmative under 24 V.S.A. § 4352.

Municipal Plans should be submitted by the municipality’s legislative body to the Regional Planning Commission (RPC) if the Regional Plan has received an affirmative determination of energy compliance. If a Regional Plan has not received such a determination, until July 1, 2018¹, a municipality may submit its adopted and approved Municipal Plan to the Department of Public Service (DPS) for a determination of energy compliance (determination), along with the completed checklist below. After a Municipal Plan and completed checklist have been submitted to the RPC (or DPS), the RPC or DPS will schedule a public hearing noticed at least 15 days in advance by direct mail to the requesting municipal legislative body, on the RPC or DPS website, and in a newspaper of general publication in the municipality. The RPC or DPS shall issue a determination in writing within two months of the receipt of a request. If the determination is negative, the RPC or DPS shall state the reasons for the denial in writing and, if appropriate, suggest acceptable modifications. Submissions for a new determination following a negative determination shall receive a new determination within 45 days.

The plans that Municipalities submit must:

- Be adopted
- Be confirmed under 24 V.S.A. § 4350
- Include an energy element that has the same components as described in 24 V.S.A. § 4348a(a)(3)
- Be consistent with state energy policy (described below), in the manner described in 24 V.S.A. § 4302(f)(1)
- Meet all standards for issuing a determination of energy compliance (see below)

¹ These standards will be revised after July 1, 2018 to reflect that Municipal Plans should be submitted only to the Regional Planning Commissions – which will all have had an opportunity to seek a determination of energy compliance – from that point forward.

Municipalities are encouraged to consult with their reviewer (either their RPC or DPS) before undertaking the process of plan adoption, which may help in identifying any deficiencies or inconsistencies with the standards or other requirements that would be more difficult to remedy after a plan has gone through the formal adoption process.

The state's Comprehensive Energy Plan (CEP) is revised on a 6-year basis. When the next CEP is published in 2022, it will include a revised set of standards, as well as Recommendations that are customized to regions and municipalities. The Recommendations that accompany this initial set of Standards represent a subset of recommendations from the 2016 CEP, which were not written with regions and municipalities specifically in mind. A Guidance document – which is expected to evolve as best practices from regions and municipalities emerge – will be published shortly after the Standards are issued. It will serve as the warehouse for relevant recommendations from the 2016 CEP, links to data sources, instructions on conducting analysis and mapping, and sample language/best practices. Once issued and until the 2022 CEP is published, this Guidance document will supplant the Recommendations document.

Affirmative determinations last for the life cycle of a revision of the Municipal Plan, and Municipal Plans that are submitted after the 2022 CEP is issued will be expected to meet the Standards that are issued at that time. Municipalities are encouraged to consult with their RPC or DPS regarding interim amendments that might affect any of the standards below, to discuss whether a new review is triggered.

If you wish to submit your Municipal Plan to your RPC or to DPS for a determination, please read closely the specific instructions at the start of each section below, and attach your Municipal Plan to this checklist.

Determination requests to an RPC (and any other questions) should be submitted to your RPC's designated contact. Determination requests to DPS until July 1, 2018 – and only for municipalities whose Regions' plans have not received an affirmative determination – should be submitted to:

PSD.PlanningStandards@vermont.gov.

Part I: Applicant Information

The plan being submitted for review is a:	<input checked="" type="checkbox"/> Municipal Plan in a region whose regional plan has received an affirmative determination of energy compliance from the Commissioner of Public Service Please submit these plans to your RPC	<input type="checkbox"/> Municipal Plan in a region whose regional plan has <u>not</u> received a determination of energy compliance Until July 1, 2018, please submit these to the DPS. After July 1, 2018, this option ceases to exist.
Applicant:	Town of Shelburne	
Contact person:	Dean Pierce, Director of Planning and Zoning	
Contact information:	dpierce@shelburnevt.org 802 264-5033	
Received by: Click here to enter text.	Date: Click here to enter text.	

Part II: Determination Standards Checklist

The checklist below will be used to evaluate your plan's consistency with statutory requirements under Act 174, including the requirement to be adopted and approved, contain an enhanced energy element, be consistent with state energy policy, and meet a set of standards designed to ensure consistency with state energy goals and policies.

Please review and attach your plan (or adopted energy element/plan, along with supporting documentation) and self-evaluate whether it contains the following components. Use the Notes column to briefly describe how your plan is consistent with the standard, including relevant page references (you may include additional pages to expand upon Notes). If you feel a standard is not relevant or attainable, please check N/A where it is available and use the Notes column to describe the situation, explaining why the standard is not relevant or attainable, and indicate what measures your municipality is taking instead to mitigate any adverse effects of not making substantial progress toward this standard. If N/A is not made available, the standard must be met (unless the instructions for that standard indicate otherwise) and checked "Yes" in order to receive an affirmative determination. There is no penalty for checking (or limit on the number of times you may check) N/A where it is available, as long as a reasonable justification is provided in the Notes column.

Plan Adoption Requirement

[Act 174](#) requires that municipal plans be adopted and approved in order to qualify for a determination of energy compliance. In the near term, it is likely municipalities will revise and submit isolated energy plans or elements, particularly due to long planning cycles. Therefore, the plan adoption requirement can be met through an amendment to an existing plan in the form of an energy element or energy plan, as long as the amendment or plan itself is duly adopted as part of the municipal plan and incorporated by reference or appended to the underlying, full plan (i.e., is officially "in" the municipal plan), as well as approved for confirmation with the region. If this route is chosen, the municipality should also attach the planning commission report required for plan amendments under 24 V.S.A. § 4384, which should address the internal consistency of the energy plan/element with other related elements of the underlying plan (particularly Transportation and Land Use), and/or whether the energy plan/element supersedes language in those other elements. Standards 1 and 2 below must be answered in the affirmative in order for a plan to receive an affirmative determination of energy compliance.

1. Has your plan been duly adopted and approved for confirmation according to 24 V.S.A. § 4350 ?	<input checked="" type="checkbox"/> Yes. Adoption date: February 25, 2014 Confirmation date: June 18, 2014	<input type="checkbox"/> No	ALSO Seeking approval and confirmation of proposed 2019 Plan
2. Is a copy of the plan (or adopted energy element/plan, along with underlying plan and planning commission report addressing consistency of energy element/plan with other elements of underlying plan) attached to this checklist?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes: Click here to enter text.

Energy Element Requirement

To obtain a determination of energy compliance, Act 174 requires municipalities to include an “energy element” that contains the same components described in 24 V.S.A. § 4348a(a)(3), which was revised through Act 174 to explicitly address energy across all sectors and to identify potential and unsuitable areas for siting renewable energy resources:

An energy element, which may include an analysis of resources, needs, scarcities, costs, and problems within the region across all energy sectors, including electric, thermal, and transportation; a statement of policy on the conservation and efficient use of energy and the development and siting of renewable energy resources; a statement of policy on patterns and densities of land use likely to result in conservation of energy; and an identification of potential areas for the development and siting of renewable energy resources and areas that are unsuitable for siting those resources or particular categories or sizes of those resources.

The standards below are generally organized to integrate each component of the enhanced energy element with related determination standards that evaluate the plan’s consistency with state goals and policies. **Energy element components are identified in bolded text.**

While municipalities may choose to primarily address energy used for heating, transportation, and electricity in the required energy element, they may also choose to address some of these components in related plan elements (e.g., Transportation and Land Use) and should indicate as much in the Notes column. To the extent an energy element is designed to comprehensively address energy, it should be complementary to and reference other relevant plan elements.

3. Does the plan contain an energy element, that contains the same components described in 24 V.S.A. § 4348a(a)(3)? <i>Individual components of the energy element will be evaluated through the standards below.</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Energy Section, including maps 11 and 12, is found pp. 83-94 Notes: Also see Transportation section and maps in external Map Book, especially maps MB23-MB26
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Consistency with State Goals and Policies Requirement

Act 174 states that regional and municipal plans must be consistent with the following state goals and policies:

- Greenhouse gas reduction goals under [10 V.S.A. § 578\(a\)](#) (50% from 1990 levels by 2028; 75% by 2050)
- The 25 x 25 goal for renewable energy under [10 V.S.A. § 580](#) (25% in-state renewables supply for all energy uses by 2025)
- Building efficiency goals under [10 V.S.A. § 581](#) (25% of homes – or 80,000 units – made efficient by 2020)
- State energy policy under [30 V.S.A. § 202a](#) and the recommendations for regional and municipal planning pertaining to the efficient use of energy and the siting and development of renewable energy resources contained in the [State energy plans](#) adopted pursuant to [30 V.S.A. §§ 202](#) and [202b](#)
- The distributed renewable generation and energy transformation categories of resources to meet the requirements of the Renewable Energy Standard under [30 V.S.A. §§ 8004](#) and [8005](#)

The standards in the checklist below will be used to determine whether a plan is consistent with these goals and policies. The standards are broken out by category. *Analysis and Targets* standards address how energy analyses are done within plans, and whether targets are established for energy conservation, efficiency, fuel switching, and use of renewable energy across sectors. *Pathways (Implementation Actions)* standards address the identification of actions to

achieve the targets. *Mapping* standards address the identification of suitable and unsuitable areas for the development of renewable energy.

Municipalities may choose to incorporate the information necessary to meet the standards in their energy elements, and/or in other sections of their plans (many transportation items may fit best in the Transportation chapters of plans, for instance). However, plans must be internally consistent, and applicants should cross-reference wherever possible.

Analysis and Targets Standards

For the *Analysis & Targets* determination standards below, municipalities will be provided with analyses and targets derived from regional analyses and targets no later than April 30, 2017 (and likely much sooner). Municipalities may choose to rely on these “municipalized” analyses and targets to meet the standards in this section. Municipalities which elect to use the analysis and targets provided by a region will be presumed to have met the standards in this section. Alternatively, municipalities may develop their own custom analyses and targets or supplement the analyses and targets provided by the regions with specific local data; if this option is chosen, the analysis and targets must include all of the same components and meet the standards required of regions, as described below.

For municipalities that choose to undertake their own analysis and target-setting (and for regions), DPS is providing a guidance document to explain the expected level of detail in and data sources and methodologies available for meeting the standards (including areas where it is understood data at the municipal level is unavailable, and therefore not expected). Note that standards 5A-4E are all derived directly from requirements in Act 174 (with minor modifications to make them feasible) and must be met affirmatively in order for a municipal plan to receive an affirmative determination of energy compliance.

Targets set by regions and municipalities should be aligned with state energy policy (see the goals and policies listed above). Where targets (and efforts to reach them) depart significantly from state energy goals and policies, an explanation for how the plan otherwise achieves the intent of the state goal or policy should be provided. The guidance document also offers additional clarification on alignment with state goals and policies.

The analysis items below are intended to provide regions and municipalities with an overview of their current energy use, and with a sense of the trajectories and pace of change needed to meet targets, which can be translated into concrete actions in the *Pathways* standards below. Targets provide regions and municipalities with milestones or checkpoints along the way toward a path of meeting 90% of their total energy needs with renewable energy, and can be compared with the potential renewable energy generation from areas identified as potentially suitable in the *Mapping* standards exercise below to give regions and municipalities a sense of their ability to accommodate renewable energy that would meet their needs.

4. Does your plan’s energy element contain an analysis of resources, needs, scarcities, costs, and problems within the municipality across all energy sectors (electric, thermal, transportation)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Page: 83-94 Notes: Most requirements are met, 5A is missing.
5. Does your plan contain an analysis that addresses A-E below, either as provided by your Regional Planning Commission or as developed by your municipality? <i>Municipalities may meet this standard by using the analysis and targets provided by their regions, or by developing their own analyses and targets. If using the analysis &</i>	<input type="checkbox"/> Yes-Region <input type="checkbox"/> Yes-Custom	<input checked="" type="checkbox"/> No	Page: 85-88 Paragraph #: tables and text Notes: also see maps/map book

<i>targets provided by your region, please answer “Yes-Region” and skip ahead to #6. If developing a custom analysis, please answer “Yes-Custom” and address 5A-5E separately, below.</i>			
A. Does the plan estimate current energy use across transportation, heating, and electric sectors?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: See memo. CCRPC has provided this information to the town for future revisions.
B. Does the plan establish 2025, 2035, and 2050 targets for thermal and electric efficiency improvements, and use of renewable energy for transportation, heating, and electricity?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: See memo. CCRPC has provided this information to the town for future revisions.
C. Does the plan evaluate the amount of thermal-sector conservation, efficiency, and conversion to alternative heating fuels needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
D. Does the plan evaluate transportation system changes and land use strategies needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
E. Does the plan evaluate electric-sector conservation and efficiency needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.

Pathways (Implementation Actions) Standards

This section examines whether plans meet the Act 174 expectation that they include pathways and recommended actions to achieve the targets identified through the *Analysis and Targets* section of the Standards (above). Plans are expected to include or otherwise address all of the pathways (implementation actions) below; some actions may not be applicable or equally relevant to all applicants (small vs. large municipalities, for instance), in which case N/A may be checked (if available) and the justification provided in the Notes column. There is no penalty for choosing N/A one or more times, as long as a reasonable justification is provided in the Notes column, preferably including an explanation of how the plan alternatively achieves attainment of the targets should be included. If N/A is not provided as an option, the standard must be met, and “Yes” must be checked, in order for the plan to meet the requirements for a determination (unless the instructions particular to that standard indicate otherwise).

DPS will be issuing a guidance document in the near term providing potential implementation actions derived from the Comprehensive Energy Plan (relevant formal Recommendations as well as opportunities not specifically called out as Recommendations), from recent regional and municipal plans, and from other sources. The guidance document will be revised after the regions have compiled best practices from early municipalities pursuing energy planning to seek a determination of energy compliance, in the summer of 2017.

For the time being, we offer potential implementation action options for consideration as italicized text under each standard. Plans are encouraged to promote as diverse a portfolio of approaches as possible in each sector, or if not, to explain why they take a more targeted approach. Implementation actions may fit best in a holistic discussion contained within a plan's energy element, though cross-referencing to other relevant plan elements is also acceptable.

Municipalities must demonstrate a commitment to achieving each standard in both policies and implementation measures in clear, action-oriented language.

6. Does your plan's energy element contain a statement of policy on the conservation and efficient use of energy?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: pg 89 Paragraph #: Click here to enter text. Notes: Conservation Goal
A. Does the plan encourage conservation by individuals and organizations? <i>(Actions could include educational activities and events such as convening or sponsoring weatherization workshops, establishing local energy committees, encouraging the use of existing utility and other efficiency and conservation programs and funding sources, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 90 Paragraph #: Actions 3, 4, 5 and 6 Notes: See goal and objective
B. Does the plan promote efficient buildings? <i>(Actions could include promoting compliance with residential and commercial building energy standards for new construction and existing buildings, including additions, alterations, renovations and repairs; promoting the implementation of residential and commercial building efficiency ratings and labeling; considering adoption of stretch codes, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 90-91 Paragraph #: Click here to enter text. Notes: See esp. Recommended Actions 1 and 2
C. Does the plan promote decreased use of fossil fuels for heating? <i>(Actions and policies could promote switching to wood, liquid biofuels, biogas, geothermal, and/or electricity. Suitable devices include advanced wood heating systems and cold-climate heat pumps, as well as use of more energy efficient heating systems; and identifying potential locations for, and barriers to, deployment of biomass district heating and/or thermal-led combined heat and power systems in the municipality)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 90-91 Paragraph #: Click here to enter text. Notes: Action 1, 7, 8 and 9
D. Does the plan demonstrate the municipality's leadership by example with respect to the efficiency of municipal buildings? <i>(Actions could include building audits and weatherization projects in schools and town offices, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: 90-91 Paragraph #: Click here to enter text. Notes: e.g., Recommended Action 1 with 5 sub parts
E. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
7. Does your plan's energy element contain a statement of policy on reducing transportation energy demand and single-occupancy vehicle use, and encouraging use of renewable or lower-emission energy sources for transportation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 89 Paragraph #: objective 4 Notes: Relevant material also found in

			Transportation chapter e.g., pp72, 78
A. Does the plan encourage increased use of public transit? <i>(Actions could include participation in efforts to identify and develop new public transit routes, promote full utilization of existing routes, integrate park-and-rides with transit routes, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: 89, 78 Paragraph #: objective 4 (89), Goal on Page 78 Notes: Relevant material also found in Transportation chapter e.g., pp72, 78
B. Does the plan promote a shift away from single-occupancy vehicle trips, through strategies appropriate to the municipality? <i>(Actions could include rideshare, vanpool, car-sharing initiatives; efforts to develop or increase park-and-rides; enhancement of options such as rail and telecommuting; education; intergovernmental cooperation; etc.)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 89 and 72 Paragraph #: objective 4 (89) and objectives 3-7 (pg 72) and actions 1-2 (pg 73) Notes: Relevant material also found throughout Transportation chapter e.g., pp72, 78
C. Does the plan promote a shift away from gas/diesel vehicles to electric or other non-fossil fuel transportation options through strategies appropriate to the municipality? <i>(Actions could include promoting the installation of electric vehicle charging infrastructure, providing education and outreach to potential users, supporting non-fossil fuel vehicle availability through outreach to vehicle dealers, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Page 77, 81 Paragraph #: Action 10 (pg 77) and Action 8 (pg 81) Notes: Click here to enter text.
D. Does the plan facilitate the development of walking and biking infrastructure through strategies appropriate to the municipality? <i>(Actions could include studying, planning for, seeking funding for, or implementing improvements that encourage safe and convenient walking and biking; adopting a "Complete Streets" policy, etc.)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: 67-77 of transportation plan Paragraph #: Pg 73 goal and associated actions and objectives Notes: Click here to enter text.
E. Does the plan demonstrate the municipality's leadership by example with respect to the efficiency of municipal transportation? <i>(Actions could include purchasing energy efficient municipal and fleet vehicles when practicable, installing electric vehicle charging infrastructure, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: 77 Paragraph #: Recommended Action 10 Notes: Met, but would be stronger if the plan discussed possible efficiency upgrades for town-owned vehicles.
F. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
8. Does your plan's energy element contain a statement of policy on patterns and densities of land use likely to result in conservation of energy?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: FLU page 8, 16-19; Transportation section pages 69 and 79; Energy section page 90 Paragraph #: Objective 1 (pg 8), Goal on pg 10,

			Goal on pg 16, Goal on pg 21 Notes: Click here to enter text.
A. Does the plan include land use policies (and descriptions of current and future land use categories) that demonstrate a commitment to reducing sprawl and minimizing low-density development? <i>(Actions could include adopting limited sewer service areas, maximum building sizes along highways, policies or zoning that require design features that minimize the characteristics of strip development [multiple stories, parking lot to the side or back of the store], and requirements that development in those areas be connected by means other than roads and cars; adopting a capital budget and program that furthers land use and transportation policies; etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: pg 14-19 Paragraph #: Actions 1, 4, 12 (pg 14), Actions 1-2, 7 (page 19) Notes: See also future land use maps
B. Does the plan strongly prioritize development in compact, mixed-use centers when physically feasible and appropriate to the use of the development, or identify steps to make such compact development more feasible? <i>(Actions could include participating in the state designation program, such as obtaining state designated village centers, downtowns, neighborhoods, new town centers, or growth centers; exploration of water or sewage solutions that enable compact development; etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Future Land Use section text, esp 11, and maps Paragraph #: Click here to enter text. Notes: Including Planning Area maps maps in Map Book. See also discussion of sewer service area limits and state designations.
C. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
9. Does your plan's energy element contain a statement of policy on the development and siting of renewable energy resources?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes: See energy maps 11 and 12 and text pages 90-92
A. Does the plan evaluate (estimates of or actual) generation from existing renewable energy generation in the municipality? <i>Municipalities should be able to obtain this information from their regions.</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Page: CCRPC has provided this information Paragraph #: Click here to enter text. Notes:
B. Does the plan analyze generation potential, through the mapping exercise (see <i>Mapping</i> standards, below), to determine potential from preferred and potentially suitable areas in the municipality? <i>Municipalities should be able to obtain this information from their regions.</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 94 (Map 12), 88 Paragraph #: Tables re: Renewable energy generation on page 88 Notes: See also map MB25 (wind) in map book
C. Does the plan identify sufficient land in the municipality for renewable energy development to reasonably reach 2050 targets for renewable electric generation, based on population and energy resource potential (from potential resources identified in the <i>Mapping</i> exercise, below), accounting for the fact that land may not be available due to private property	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: 88 and 92 Paragraph #: There is sufficient land, but the plan needs to state the targets for Shelburne (Standard 5B). CCRPC has provided this

constraints, site-specific constraints, or grid-related constraints? <i>If N/A, please describe how you are working with your regional planning commission to ensure overall regional objectives are achieved.</i>			information. Notes: Also See map 12 and map MB 25
D. Does the plan ensure that any local constraints (locally designated resources or critical resources, from 12B and 12C under <i>Mapping</i> , below) do not prohibit or have the effect of prohibiting the provision of sufficient renewable energy to meet state, regional, or municipal targets? <i>If N/A, please describe how you are working with your regional planning commission to ensure overall regional objectives are achieved.</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Sufficient land remains
E. Does the plan include statements of policy to accompany maps (could include general siting guidelines), including statements of policy to accompany any preferred, potential, and unsuitable areas for siting generation (see 12 and 13 under <i>Mapping</i> , below)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 89, 92, Paragraph #: Click here to enter text. Notes: introductory language, goal, objective, Recommended Action 4 meet this requirement
F. Does the plan maximize the potential for renewable generation on preferred locations (such as the categories outlined under 12E in the <i>Mapping</i> standards, below)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: 94 and Map book Paragraph #: Actions 3 and 6 on page 92 Notes:
G. Does the plan demonstrate the municipality's leadership by example with respect to the deployment of renewable energy? <i>(Actions could include deploying renewable energy to offset municipal electric use, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: 89-92 Paragraph #: Actions 2a and b on pg 92 Notes:
H. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.

Mapping Standards
<p>Act 174 requires plans to identify potential areas for the development and siting of renewable energy resources and areas that are unsuitable for siting those resources or particular categories or sizes of those resources. It furthermore requires that the standards address the potential generation from the potential siting areas.</p> <p>The <i>Mapping</i> standards lay out a sequence of steps for planners to examine existing renewable resources and to identify potential (and preferred) areas for renewable energy development, and to identify likely unsuitable areas for development, by layering constraint map layers on to raw energy resource potential map layers. The maps should help municipalities visualize and calculate the potential generation from potential areas, and compare it with the 2025, 2035, and 2050 targets from the <i>Analysis and Targets</i> standards to get a sense of the scale and scope of generation that could be produced within the region to meet the municipality's needs. DPS will provide additional guidance to accompany the standards that fleshes out the steps, layers, and standards more fully.</p>

Plans must include maps that address all of the standards below, unless N/A is provided as an option, in which case a compelling reason why the standard is not applicable or relevant should be provided in the Notes column. Regions must develop their own maps (already underway through support being provided to regions by DPS), and to then break out the maps for their municipalities, who can use their region-provided maps to meet the municipal *Mapping* standards (such “municipalization” work is being supported through a training & technical assistance contract between DPS and regions, and all regions must supply completed maps to their municipalities by April 30, 2017, though many are expected to do so much sooner).

Municipalities may choose to rely on the maps provided by the regions to meet the standards in this section. Those maps should be somewhat familiar to municipalities, who are expected to be consulted as regions develop their maps. Alternatively, municipalities may choose to undertake their own mapping, according to the same set of standards as regions. Additionally, municipalities are expected to work collaboratively with their regions and with neighboring municipalities to ensure compatibility between the final products.

The map and the text describing the policies or rules used to construct the map, as well as the text describing specific policies applicable to map features, should be complementary. That should help ensure that any “land conservation measures and specific policies” that might be given substantial deference in the context of a particular project review under 30 V.S.A. § 248 are clearly identifiable in the text, should a map lack sufficient clarity or granularity regarding the area in which a project is proposed.

<p>10. Does your plan contain one or more maps that address 11-13 below, as provided by your Regional Planning Commission or as developed by your municipality?</p> <p><i>Municipalities may meet this standard by using the maps provided by their regions, or by developing their own maps. If using the maps provided by your region, please answer “Yes-Region” and skip ahead to #14. If developing custom maps, please answer “Yes-Custom” and address 11-13 separately, below.</i></p>	<input checked="" type="checkbox"/> Yes-Region <input type="checkbox"/> Yes-Custom	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: maps are slightly reformatted versions of the maps prepared by CCRPC but contain all substantive information</p>
<p>11. Does the plan identify and map existing electric generation sources?</p> <p><i>Maps may depict generators of all sizes or just those larger than 15 kW, as long as information on generators smaller than 15 kW is summarized and provided or referenced elsewhere. It is expected that the best available information at the time of plan creation will be used. This information is available from the DPS.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>12. Does the plan identify potential areas for the development and siting of renewable energy resources and the potential generation from such generators in the identified areas, taking into account factors including resource availability, environmental constraints, and the location and capacity of electric grid infrastructure?</p> <p><i>Maps should include the following (available from VCGI and ANR), and the resulting Prime and Secondary Resource Maps will together comprise “potential areas”:</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>

<p>A. Raw renewable energy potential analysis (wind and solar), using best available data layers (including LiDAR as appropriate)</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>
<p>B. Known constraints (signals likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources) to include:</p> <ul style="list-style-type: none"> • Vernal Pools (confirmed and unconfirmed layers) • DEC River Corridors • FEMA Floodways • State-significant Natural Communities and Rare, Threatened, and Endangered Species • National Wilderness Areas • Class 1 and Class 2 Wetlands (VSWI and advisory layers) • Regionally or Locally Identified Critical Resources <p><i>If areas are constrained for the development of renewable energy due to the desire to protect a locally designated critical resource (whether a natural resource or a community-identified resource), then the land use policies applicable to other forms of development in this area must be similarly restrictive; for this category, policies must prohibit all permanent development (and should be listed in the Notes column).</i></p> <p><i>These areas should be subtracted from raw renewable energy resource potential maps to form Secondary Resource Maps</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>
<p>C. Possible constraints (signals conditions that would likely require mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies that are currently adopted or in effect), including but not limited to:</p> <ul style="list-style-type: none"> • Agricultural Soils • FEMA Special Flood Hazard Areas • Protected Lands (State fee lands and private conservation lands) • Act 250 Agricultural Soil Mitigation areas • Deer Wintering Areas • ANR's Vermont Conservation Design Highest Priority Forest Blocks (or Habitat Blocks 9 & 10, for plans using regional 	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>

<p>maps in regions whose plans will be submitted for adoption at the regional level by March 1, 2017)</p> <ul style="list-style-type: none"> Hydric Soils Regionally or Locally Identified Resources <p><i>If locations are constrained for the development of renewable energy due to the desire to protect a locally designated resource (whether a natural resource or community-identified resource, like a view), then the land use policies applicable to other forms of development must be similarly restrictive (and should be listed in the Notes column).</i></p> <p><i>These areas should be subtracted from Secondary Resource Maps to form Prime Resource Maps.</i></p>			
<p>D. Transmission and distribution resources and constraints, as well as transportation infrastructure. <i>(Including three-phase distribution lines, known constraints from resources such as Green Mountain Power's solar map, known areas of high electric load, etc.)</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>E. Preferred locations (specific areas or parcels) for siting a generator or a specific size or type of generator, accompanied by any specific siting criteria for these locations <i>Narrative descriptions of the types of preferred areas in accompanying plan text are acceptable, though mapping of areas and especially specific parcels (to the extent they are known) is highly encouraged, to signal preferences to developers, particularly for locally preferred areas and specific parcels that do not qualify as a statewide preferred location under i. below.</i> <i>The locations identified as preferred must not be impractical for developing a technology with regard to the presence of the renewable resource and access to transmission/distribution infrastructure.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>i. Statewide preferred locations such as rooftops (and other structures), parking lots, previously developed sites, brownfields, gravel pits, quarries, and Superfund sites</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>ii. Other potential locally preferred locations <i>For example, customer on- or near-site generation, economic development areas, unranked and not currently farmed</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>

<p><i>agricultural soils, unused land near already developed infrastructure, locations suitable for large-scale biomass district heat or thermal-led cogeneration, potential locations for biogas heating and digesters, etc.</i></p> <p><i>These are particularly important to map if possible, as “a specific location in a duly adopted municipal plan” is one way for a net metering project to qualify as being on a preferred site.</i></p>			
<p>13. Does the plan identify areas that are unsuitable for siting renewable energy resources or particular categories or sizes of those resources? <i>Either Yes or No (“No” if the plan chooses not to designate any areas as unsuitable) is an acceptable answer here. “Resources” is synonymous with “generators.”</i></p>	<input type="checkbox"/> Yes (“Yes” for A and B must also be selected below)	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
<p>A. Are areas identified as unsuitable for particular categories or sizes of generators consistent with resource availability and/or land use policies in the regional or municipal plan applicable to other types of land development (answer only required if “Yes” selected above, indicating unsuitable areas have been identified)? <i>If areas are considered unsuitable for energy generation, then the land use policies applicable to other forms of development in this area should similarly prohibit other types of development. Please note these policies in the Notes column.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A (if no unsuitable areas are identified)	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
<p>B. Does the plan ensure that any regional or local constraints (regionally or locally designated resources or critical resources, from 12b-12c above) identified are supported through data or studies, are consistent with the remainder of the plan, and do not include an arbitrary prohibition or interference with the intended function of any particular renewable resource size or type? <i>Please explain in the Notes column.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
<p>14. Municipalities seeking a determination of energy compliance from the Department and not using their region’s maps only: Does the plan ensure that its approach, if applied regionally, would not have the effect of prohibiting any type of renewable generation technology in all locations?</p>	<input checked="" type="checkbox"/> Yes (also check Yes if seeking determination from region, or	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: See regional Plan energy chapter and DPS certification

	from DPS but using region- provided maps)		
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Town of Shelburne, Vermont

CHARTERED 1763

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Town Manager
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(802) 985-5110

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October 25, 2018

Emily Nosse-Leirer
Senior Planner
Chittenden County RPC
110 West Canal Street, Suite 202
Winooski, VT 05404

RE: Regional Approval of Plan and Confirmation of Planning Process

Dear Emily:

The Town of Shelburne would like to request CCRPC's review, and obtain formal approval, of Shelburne's proposed 2018 Comprehensive Plan. As part of this review, the Town would also like to be recognized as being in compliance with the Energy Planning Standards for Municipal Plans established as a result Act 174 (i.e., determination of energy compliance). The Town also seeks confirmation of Shelburne's planning process. Materials supporting our request are attached.

If you need any further information regarding the Town's planning process or this request, please call Dean Pierce at 264-5033.

Sincerely,

Jason Grignon, Chair
Planning Commission

cc.

Edward Storey, Chair of the Planning Commission
John Zicconi, Shelburne CCRPC Representative
Lee Krohn, Interim Town Manager

Local Support for Planning Activities (Does not include financial support for non-statutory committees)

Town of Shelburne Material for Regional Review of Proposed Plan and Planning Process

FY

	2012-2013	2013-2014	2014-2015+	2015-2016	2016-2017	2017-2018*	2018-2019*
P&Zdept	156025	225715	179018	251783	264540	299422	321339
direct support to CCRPC	18263	18150	18354	18431	18361	18756	19319

* budget, not actual

\+ in these years indirect salary expenses were not included in departmental total

Staff Review of draft planBTV Comprehensive Plan 2019 Update, Including Enhanced Energy Plan Review

Emily Nosse-Leirer, Senior Planner

October 31, 2018

The City of Burlington has requested, per 24 V.S.A §4350, that the Chittenden County Regional Planning Commission (1) approve its draft planBTV Comprehensive Plan 2019 Update; and (2) confirm its planning process.

Additionally, the City of Burlington has requested that the Chittenden County Regional Planning Commission issue a determination of compliance with the enhanced energy planning standards set forth in 24 V.S.A. §4352 for the draft planBTV Comprehensive Plan 2019 Update.

This draft planBTV Comprehensive Plan 2019 Update is an update and re-adoption of the 2014 Municipal Development Plan. In accordance with statute, re-adoption means that this is a fully compliant plan that will expire eight years after adoption by the City Council. CCRPC reviewed the 2014 plan and met with Burlington staff to discuss it in April 2017 as part of an informal review and consultation process. The draft planBTV Comprehensive Plan 2019 Update is a complete reworking of the 2014 Municipal Development Plan. planBTV ties all of Burlington's planning efforts together through adopting many other city and regional plans by reference and providing summaries of ongoing relevant work. I have completed this formal review of the plan against the statutory requirements of 24 V.S.A. Chapter 117 and the Vermont Department of Public Service's Energy Planning Standards for Municipal Plans in advance of the Planning Commission upcoming public hearing, which will be warned soon.

Confirming and Approving the Municipal Plan

Following the Chittenden County Regional Planning Commission's (CCRPC's) *Guidelines and Standards for Confirmation of Municipal Planning Processes and Approval of Municipal Plans (2018)* and the statutory requirements of 24 V.S.A. Chapter 117, I have reviewed the draft planBTV Comprehensive Plan 2019 Update to determine whether it is:

- Consistent with the general goals of §4302;
- Consistent with the specific goals of §4302;
- Contains the required elements of §4382;
- Compatible with the 2018 Chittenden County Regional Plan, entitled the *2018 Chittenden County ECOS Plan* (per §4350); and
- Compatible with approved plans of other municipalities (per §4350).

Additionally, I have reviewed the planning process requirements of §4350.

Staff Review Findings and Comments

1. The draft planBTV Comprehensive Plan 2019 Update is consistent with the general goals of §4302. See the attached excerpt from the plan (Appendix C: Statutory Requirements) that describes how the Plan is consistent with these goals.

CCRPC Staff & PAC Review – 2019 Shelburne Comprehensive Plan (Enhanced Energy Plan Review)
November 7, 2018 PAC Meeting

2. The draft planBTV Comprehensive Plan 2019 Update is consistent with the specific goals of §4302. See the attached excerpt from the plan (Appendix C: Statutory Requirements) that describes how the Plan is consistent with these goals.
3. The draft planBTV Comprehensive Plan 2019 Update contains the required elements of §4382. See the attached excerpt from the plan (Appendix C: Statutory Requirements) that describes how the Plan is consistent with these goals.
4. The draft planBTV Comprehensive Plan 2019 Update is generally compatible with the planning areas, goals and strategies of the 2018 Chittenden County Regional Plan, entitled the *2018 Chittenden County ECOS Plan*.
5. The draft planBTV Comprehensive Plan 2019 Update is compatible with the municipal plans for South Burlington, Colchester and Winooski.
6. Burlington has a planning process in place that is sufficient for an approved plan. In addition, Burlington has provided information about their planning budget and CCRPC finds that Burlington is maintaining its efforts to provide local funds for municipal and regional planning.

Additional Comments/Questions:

This plan provided a very clear explanation of how Burlington’s multiple planning processes fit together, and the document connects various components very well. Framing sections through Burlington’s goals to be a “Distinctive,” “Dynamic,” “Inclusive” and “Connected” city provided a nice link to the City’s vision for itself, and splitting land use into areas to “Conserve,” “Sustain” and “Grow” was unique and useful.

Enhanced Energy Plan Review

Following the statutory requirements of 24 V.S.A. §4352 and Vermont Department of Public Service’s Energy Planning Standards for Municipal Plans, I have reviewed the draft planBTV Comprehensive Plan 2019 Update to determine whether:

7. The plan includes an energy element that has the same components as described in 24 V.S.A. §4348a(a)(3) for a regional plan and is confirmed under the requirements of 24 V.S.A. §4350.
8. The plan is consistent with following State goals:
 - a. Vermont's greenhouse gas reduction goals under 10 V.S.A. § 578(a); (**see note #12 below**)
 - b. Vermont's 25 by 25 goal for renewable energy under 10 V.S.A. § 580;
 - c. Vermont's building efficiency goals under 10 V.S.A. § 581;
 - d. State energy policy under 30 V.S.A. § 202a and the recommendations for regional and municipal energy planning pertaining to the efficient use of energy and the siting and development of renewable energy resources contained in the State energy plans adopted pursuant to 30 V.S.A. §§ 202 and 202b (State energy plans); and
 - e. The distributed renewable generation and energy transformation categories of resources to meet the requirements of the Renewable Energy Standard under 30 V.S.A. §§ 8004 and 8005.
9. The plan meets the standards for issuing a determination of energy compliance included in the State energy plans as developed by the Vermont Department of Public Service.

CCRPC Staff & PAC Review – 2019 Shelburne Comprehensive Plan (Enhanced Energy Plan Review)
November 7, 2018 PAC Meeting

Staff Review Findings and Comments

Consistency with the requirements above is evaluated through the Vermont Department of Public Service's Vermont Department of Public Service's Energy Planning Standards for Municipal Plans, which is attached to this document and briefly summarized below.

Standard	Met	Not Met	N/A
1. Plan duly adopted and approved			Necessary for final determination
2. Submit a copy of the adopted plan			Necessary for final determination
3. Plan contains an energy element	X		
4. Analysis of resources, needs, scarcities, costs and problems in the municipality across all energy sectors	X		
5.a. Report Current energy use for heating, electricity, and transportation	X		
5.b. Report 2025, 2035 and 2050 targets for energy use			X – see note 10
5.c. Evaluation of thermal-sector energy use changes	X		
5.d. Evaluation of transportation-sector energy use changes	X		
5.e. Evaluation of electric-sector energy use changes	X		
6.a. Encourage conservation by individuals and organizations	X		
6.b. Promote efficient buildings	X		
6.c. Promote decreased use of fossil fuels for heat	X		
6.d. Demonstrate municipal leadership re: efficiency of municipal buildings?	X		
7.a. Encourage increased public transit use	X		
7.b. Promote shift away from single-occupancy vehicle trips	X		
7.d. Promote shift from gas/diesel to non-fossil fuel vehicles?	X		
7.e. Demonstrate municipal leadership re: efficiency of municipal transportation?	X		
8.a. Promote Smart growth land use policies	X		
8.b. Strongly prioritize development in compact, mixed use centers	X		
9.a. Report existing renewable energy generation	X		
9.b. Analyze generation potential	X		
9.c. Identify sufficient land to meet the 2050 generation targets			X – see note 10 below
9.d. Ensure that local constraints do not prevent the generation targets from being met			X – see note 10 below
9.e. Include policy statements on siting energy generation	X – see note 11 below		
9.f. Maximize potential for generation on preferred sites	X		
9.g. Demonstrate municipal leadership re: deploying renewable energy	X		
10. Include maps provided by CCRPC	X		

As drafted, the draft planBTV Comprehensive Plan 2019 Update meets the requirements above.

Notes and Comments:

10. Renewable energy generation within Burlington already exceeds the 2050 high target for the City established by CCRPC, so no additional targets were established by CCRPC's 2018 ECOS Plan. planBTV indicates that the targets have already been met, but that the City is actively continuing to pursue additional generation opportunities.
11. Certified municipal enhanced energy plans gain substantial deference for their land use policies. According to 30 VSA §248, "'substantial deference' means that a land conservation measure or specific policy shall be applied in accordance with its terms unless there is a clear and convincing demonstration that other factors affecting the general good of the State outweigh the application of the measure or policy." It is CCRPC's understanding that the City of Burlington has chosen not to include prohibitions on renewable generation siting in planBTV, and has chosen instead only to define places to encourage generation. This meets Standard 9e.
12. Enhanced energy plans are required to be consistent with State goals, including Vermont's greenhouse gas reduction goals under 10 V.S.A. § 578(a) (50% reduction from 1990 levels by 2028 and 75% reduction from 1990 levels by 2050). Burlington's Climate Action Plan is incorporated into planBTV by reference, and it includes a greenhouse gas inventory with somewhat different goals than described in state statute. However, Burlington's emissions goals are likely to change significantly as the City further develops their Net Zero Community by 2030 goal. CCRPC staff views the Net Zero by 2030 goal as a substantial step towards meeting Vermont's greenhouse gas reduction goals and considers the draft planBTV Comprehensive Plan 2019 Update consistent with these goals.

Proposed Motion & Next Steps:

PROPOSED MOTION: The PAC finds that the draft planBTV Comprehensive Plan 2019 Update, as submitted, meets all statutory requirements for CCRPC approval, and that the municipality's planning process meets all statutory requirements for CCRPC confirmation.

The PAC also finds that the draft planBTV Comprehensive Plan 2019 Update meets the requirements of the enhanced energy planning standards ("determination") set forth in 24 V.S.A. §4352.

Upon notification that the Plan has been adopted by the municipality, CCRPC staff will review the plan, and any information relevant to the confirmation process. If staff determines that substantive changes have been made, the materials will be forwarded to the PAC for review. Otherwise the PAC recommends that the Plan, and the municipal planning process, should be forwarded to the CCRPC Board for approval, confirmation, and an affirmative determination of energy compliance.

Appendices

[Appendix C: Statutory Requirements]

This appendix outlines the locations within this plan, and/or plans that are referenced within this document, in which statutory requirements of the State of Vermont per Title 24 V.S.A. Chapter 117 can be found. This includes plan requirements and consistency with statewide planning goals. Further, it discusses the plan's compatibility with the regional plan and adjacent municipalities' adopted plans.

Required Elements (§4382) & Planning Goals (§4302(c))	
Element / Goal	Location
(§4382)(a)(1) <i>Statement of Objectives, Policies, Programs</i>	These elements are incorporated in each of the plan themes and in the land use framework. Within each theme, this is articulated in the respective vision statements (p. 31, 43, 55, 67) and supporting policies & actions (p. 36-41, 48-53, 60-65, 72-79). Within the land use element this is articulated on p. 81, 83, 87, and 91.
(§4382)(a)(2)- <i>Land Use Plan</i> and (§4302)(c) Goal 1- <i>RE: Development Pattern</i>	<p>The required elements of the land use plan and compatibility with state goals regarding development patterns are included in the "Our Future Land Use" section, p. 81-103, as well as within the policies and actions of the themes, found on p. 36-41, 48-53, 60-65, 72-79. This plan does not change the land use policies of the 2014 Burlington Municipal Development Plan. Further direction on these elements is included in the plans that are adopted and incorporated by reference, as indicated in Appendix A on p. 104.</p> <p>Existing land use in Map 1 on p. 12. Prospective land use in Maps 3 (p. 82), 4 (p. 86), and 5 (p. 90). Additional prospective land use maps are included in plans adopted and incorporated by referenced as indicated in Appendix A on p. 104.</p> <p>Designated growth areas p. 44 and referenced document <i>Vermont Downtown Program Renewal Application 2017-2022</i>.</p>
(§4382)(a)(3)- <i>Transportation Plan</i> and (§4302)(c) Goal 4- <i>RE: Transportation</i>	<p>The required elements of the transportation plan and compatibility with state goals regarding transportation are addressed in actions: 6.5, 6.6, 6.7, 7.3, 8.1, 8.2, 8.4, 8.5, 9.1, 9.7, 10.1, 13.1, 14.5, 16.7, all actions associated with policy 17, 18.2, 18.4, 19.1, 20.6, and 21.1.</p> <p>Further direction on these elements is included in plans that are adopted and incorporated by reference, as indicated in Appendix A on p. 104.</p> <p>Existing and proposed transportation facilities in Map 2 on p. 17, and in maps in the above referenced documents.</p>
(§4382)(a)(4)- <i>Utility & Facility Plan</i> and (§4302)(c) Goal 12- <i>RE: Public Facilities</i> and Goal 8- <i>RE: Recreation</i>	<p>The required elements regarding rare and irreplaceable features/resources and compatibility with state goals regarding the protection of these resources are addressed in actions: 1.1, 1.2, 4.1, 4.2, all actions associated with policy 8, 9.1, 9.2, 9.3, 9.8, 9.8, 10.1, 10.4, 11.7, 12.4, 12.5, 13.3, 13.4, 13.5, 13.6, 14.4, 15.2, 15.4, 15.5, 15.6, 16.2, 16.3, 16.6, 16.7, 17.1, 17.6, and all actions associated with policies 18, 19, 20, and 21.</p> <p>Further direction on these elements is included in plans that are adopted and incorporated by reference, as indicated in Appendix A on p. 104.</p> <p>Existing facilities in Map 2 on p. 17, and proposed facilities outlined in the above referenced documents.</p>
(§4382)(a)(5)- <i>Rare Natural Resources/ Historic Resources</i> and (12)- <i>Flood Resiliency Plan</i> and (§4302)(c) Goal 5- <i>RE: Natural and Historic</i> , Goal 6- <i>RE: Quality of Natural Resources</i> , and Goal 14- <i>RE: Flood Resiliency</i>	<p>The required elements regarding rare and irreplaceable features/resources and compatibility with state goals regarding the protection and quality of these resources are addressed in actions: All actions associated with policies 1, 3, 10, 16, and actions 5.3, 5.5, 6.7, 8.5, 9.1, 9.4, 12.1, 12.3, and 19.2.</p> <p>Further direction on these elements is included in plans that are adopted and incorporated by reference, as indicated in Appendix A on p. 104. Additional guidance for these resources are found in referenced plans, including <i>Burlington Historic Sites & Survey Plan</i>, <i>Lake Champlain Byway Chittenden County Corridor Plan</i>, <i>Winooski River Tactical Basin Plan</i>, and <i>Northern Lake Champlain Direct Drainages Tactical Basin Plan</i>.</p>

<p>(§4382)(a)(6)- <i>Educational Facilities Plan</i></p> <p>and</p> <p>(§4302)(c) Goal 3- RE: <i>Education</i></p>	<p>The required elements of the educational facilities plan and compatibility with state goals regarding education are addressed in actions: 8.2, 8.4, 8.6, 14.2, 14.3, 14.4, 17.1, 18.1, and 19.5.</p> <p>Further direction on these elements is included in plans referenced in this document, including <i>Burlington Early Learning Initiative</i>, the <i>Burlington School District Long Range Facilities Plan</i>, and the <i>Burlington School District Strategic Plan</i>.</p> <p>Existing facilities in Map 2 on p. 17, and proposed facilities outlined in the above referenced documents.</p>
<p>(§4382)(a)(9)- <i>Energy Plan</i></p> <p>and</p> <p>(§4302)(c) Goal 7- RE: <i>Energy</i></p>	<p>The required elements of the energy plan and compatibility with state goals regarding the use of energy and development of renewable energy resources are addressed in actions: 8.1, 8.2, 8.4, 8.5, all actions associated with policy 9, 10.2, 10.4, 12.4, 19.1, 19.10, and 21.1.</p> <p>Further direction on these elements is included in plans that are adopted and incorporated by reference, as indicated in Appendix A on p. 104. Additionally, direction on these elements is included in plans referenced in this document, including the <i>ECOS Regional Plan</i> and <i>Burlington Electric Department Integrated Resource Plan</i>.</p> <p>Existing facilities in Map 2 on p. 17, and proposed facilities outlined in the above referenced documents.</p>
<p>(§4382)(a)(10)- <i>Housing Element</i></p> <p>and</p> <p>(§4302)(c) Goal 11- RE: <i>Housing</i></p>	<p>The required elements of a housing program and compatibility with state goals regarding the availability and affordability of housing are addressed in actions: 2.3, 4.5, all actions associated with policy 6, 7.1, 7.2, 7.3, all actions associated with policies 11 and 12, and 21.1.</p> <p>Further direction on these elements is included in plans that are adopted and incorporated by reference, as indicated in Appendix A on p. 104. Additionally, direction on these elements is included in plans referenced in this document, including the <i>The Neighborhood Project</i>, <i>Permit Reform Study</i>, <i>Inclusionary Zoning Report</i>, <i>Consolidated Plan for Housing & Community Development</i>, <i>Fair Housing Assessment</i>, <i>University of Vermont Campus Master Plan</i>, and the <i>Champlain College Master Plan</i>.</p>
<p>(§4382)(a)(11)- <i>Economic Development Element</i></p> <p>and</p> <p>(§4302)(c) Goal 2- RE: <i>Economy</i>, Goal 9- RE: <i>Agriculture & Forestry</i>, and Goal 13- RE: <i>Childcare</i></p>	<p>The required elements of an economic development program and compatibility with state goals regarding the economy, jobs, unemployment, childcare resources, and agricultural and forest industries are addressed in actions: 3.1, 3.4, 4.1, 4.2, 4.5, all actions associated with policies 5 and 6, 7.3, 7.4, 8.3, 9.4, 9.5, all actions associated with policy 11, 12.1, all actions associated with policy 14, 17.2, 17.5, 17.6, 17.7, 17.8, 19.2, 20.6, 21.1, and 21.5.</p> <p>Further direction on these elements is included in plans that are adopted and incorporated by reference, as indicated in Appendix A on p. 104. Additionally, direction on these elements is included in plans referenced in this document, including the <i>Regional ECOS Plan</i> and the <i>Burlington Early Learning Initiative</i>.</p>
<p>(§4302)(c) Goal 10- RE: <i>Use of Resources</i></p>	<p>The City of Burlington does not contain active earth extraction activities and does not plan for this use in the future. Therefore, the Planning Commission has determined that this goal is not relevant or attainable.</p>
<p>(§4382)(a)(7) <i>Program for Implementation</i></p>	<p>The recommended program for implementation of this plan is articulated within the plan, following each of the actions (p. 36-41, 48-53, 60-65, 72-79). Additionally, this plan is implemented through the administration of the <i>Burlington Comprehensive Development Ordinance</i>.</p> <p>A report on implementation of the 2014 <i>Municipal Development Plan</i> can be found in Appendix X on p. X.</p>
<p>(§4382)(c) <i>Data & Trends</i></p>	<p>Existing conditions pertaining to the policies and actions articulated in this plan can be found in the Burlington Today section on p. 11-25. Further detailed studies are contained in the myriad plans and studies that are adopted and incorporated by reference, as well as those simply referenced, as outlined in Appendix A on p. 104.</p>

The impacts of growth and development, as well as the functions of our natural environment, know no boundaries. It is incumbent upon each community to look beyond its borders, and evaluate the potential regional impacts associated with land use patterns and individual developments. This plan recognizes that despite the city's small geographic footprint relative to the county, it has an important responsibility as a regional growth center; a hub of housing, jobs, services, and educational opportunities; and a part of the region's watershed and natural ecosystem.

These responsibilities are discussed in greater detail on p. 22, regarding opportunities and challenges facing the city, in the Dynamic theme on p. 42-53, and in the Connected theme on p. 66-79. Specific discussion of the relationship with the city's direct adjacent municipalities follows. Further, the plan includes a number of specific action items that promote regional cooperation, coordinated planning and service provision, and/or address regional impacts of growth, including: 1.4, 2.4, 3.4, 5.6, all actions associated with policy 6, 9.2, 17.5, 17.7, 17.11, 21.1, 21.2, 21.3, and 21.4.

Adjacent Municipalities

South Burlington

Important areas in which Burlington and South Burlington abut include along Route 7/ Shelburne Road, Route 2/Main Street/Williston Road, Spear Street, and Grove Street/ Patchen Road. In general, the land use classifications proposed for these locations are compatible. In the case of the proposed land uses near the intersection of Industrial Parkway, Queen City Park Road, and Central Ave at Red Rocks Park, *planBTV: South End Master Plan* includes strategies aimed at reducing the impacts of industrial activities on adjacent neighborhoods and recreational amenities. The city's gateways along Route 2 (Main St) and Route 7 (Shelburne Rd) are of particular interest, as developments in these areas have the potential to impact traffic congestion into and out of the city, and the visual relationship to the city's development patterns. In addition to land use patterns, Burlington and South Burlington will continue to collaborate around issues including emergency response, Airport planning & operations, institutional planning & operations for UVM and UVM Medical Center, public service provision, transportation corridors, and management of events of regional draw.

Winooski

The Winooski River forms the boundary between Burlington and Winooski. Both communities call for shoreline protection and natural/recreational use of these fragile areas. Further, the cities share the Winooski River Bridge as a gateway. The City of Winooski has and will continue to strengthen the mixed-use infill development of its downtown commercial area on the north side of this gateway, and Burlington maintains a small neighborhood activity center on the south side. These uses are generally compatible. However, the bridge, and the complex intersections on either side of the bridge are of particular interest, and current study. Proposed transportation changes and developments near this gateway have the potential to impact traffic congestion into and out of the city, and the visual relationship to the city's development patterns. In addition to land use patterns, Burlington owns half of the Winooski One Hydroelectric facility on the bank of the river in Winooski. The cities must continue to collaborate particularly around issues of transportation and energy facilities, as well as on water quality and protection of the river corridor.

Colchester

The Winooski River also forms the boundary between Burlington and Colchester. Both communities recognize the value and need to limit development impacts on sensitive natural features and environmental concerns along this river corridor. Additionally, Colchester intends to promote careful infill development within existing neighborhoods near the Warners Corner area. Likewise, Burlington seeks to strengthen North Avenue as a multi-modal corridor anchored by neighborhood activity centers. Existing commercial land uses in Colchester provide additional opportunity for city residents to access services close to home. The cities share the 127/Plattsburg Avenue/Heineberg Drive gateway, and the Burlington bike path links up with recreational trails in Colchester stretching far into northwest Vermont via a pedestrian bridge at the mouth of the river. Proposed transportation changes and developments near the 127 gateway have the potential to impact traffic congestion into and out of the city. The cities must continue to collaborate around issues of transportation and multi-use path connectivity, as well as on water quality and protection of the river corridor.

Continued on next page.

Compatibility with the ECOS Regional Plan

Largely, the ECOS Plan articulates a strong and visionary future for Chittenden County, emphasizing future development that fulfills the concept of “growth centers” at both the regional and local scale. In doing so, it recognizes the importance of mixed-use development, higher densities, walkable and transit-connected communities, and shared responsibilities for affordable housing, economic development, transportation improvements, protecting open space, and planning for future infrastructure. This overall regional land use vision is consistent with the foundation of planBTV’s future land use framework, which identifies areas that we are planning to conserve, sustain, or grow. In fact, planBTV’s vision is about “ensuring that Burlington continues to be a dynamic city of opportunity at the heart of a regional population...” Additionally, as indicated in Appendix A on p. 104, this plan incorporates a number of elements from the 2018 *ECOS Plan* into planBTV, and references several other regional plans, studies, and initiatives.

DRAFT

Energy Planning Standards for Municipal Plans

Instructions

Before proceeding, please review the requirements of Parts I and II below, as well as the Overview document. Submitting a Municipal Plan for review under the standards below is entirely voluntary, as enabled under [Act 174](#), the Energy Development Improvement Act of 2016. If a Municipal Plan meets the standards, it will be given an affirmative “determination of energy compliance,” and will be given “substantial deference” in the Public Service Board’s review of whether an energy project meets the orderly development criterion in the Section 248 process. Specifically, with respect to an in-state electric generation facility, the Board:

[S]hall give substantial deference to the land conservation measures and specific policies contained in a duly adopted regional and municipal plan that has received an affirmative determination of energy compliance under 24 V.S.A. § 4352. In this subdivision (C), “substantial deference” means that a land conservation measure or specific policy shall be applied in accordance with its terms unless there is a clear and convincing demonstration that other factors affecting the general good of the State outweigh the application of the measure or policy. The term shall not include consideration of whether the determination of energy compliance should or should not have been affirmative under 24 V.S.A. § 4352.

Municipal Plans should be submitted by the municipality’s legislative body to the Regional Planning Commission (RPC) if the Regional Plan has received an affirmative determination of energy compliance. If a Regional Plan has not received such a determination, until July 1, 2018¹, a municipality may submit its adopted and approved Municipal Plan to the Department of Public Service (DPS) for a determination of energy compliance (determination), along with the completed checklist below. After a Municipal Plan and completed checklist have been submitted to the RPC (or DPS), the RPC or DPS will schedule a public hearing noticed at least 15 days in advance by direct mail to the requesting municipal legislative body, on the RPC or DPS website, and in a newspaper of general publication in the municipality. The RPC or DPS shall issue a determination in writing within two months of the receipt of a request. If the determination is negative, the RPC or DPS shall state the reasons for the denial in writing and, if appropriate, suggest acceptable modifications. Submissions for a new determination following a negative determination shall receive a new determination within 45 days.

The plans that Municipalities submit must:

- Be adopted
- Be confirmed under 24 V.S.A. § 4350
- Include an energy element that has the same components as described in 24 V.S.A. § 4348a(a)(3)
- Be consistent with state energy policy (described below), in the manner described in 24 V.S.A. § 4302(f)(1)
- Meet all standards for issuing a determination of energy compliance (see below)

¹ These standards will be revised after July 1, 2018 to reflect that Municipal Plans should be submitted only to the Regional Planning Commissions – which will all have had an opportunity to seek a determination of energy compliance – from that point forward.

Municipalities are encouraged to consult with their reviewer (either their RPC or DPS) before undertaking the process of plan adoption, which may help in identifying any deficiencies or inconsistencies with the standards or other requirements that would be more difficult to remedy after a plan has gone through the formal adoption process.

The state's Comprehensive Energy Plan (CEP) is revised on a 6-year basis. When the next CEP is published in 2022, it will include a revised set of standards, as well as Recommendations that are customized to regions and municipalities. The Recommendations that accompany this initial set of Standards represent a subset of recommendations from the 2016 CEP, which were not written with regions and municipalities specifically in mind. A Guidance document – which is expected to evolve as best practices from regions and municipalities emerge – will be published shortly after the Standards are issued. It will serve as the warehouse for relevant recommendations from the 2016 CEP, links to data sources, instructions on conducting analysis and mapping, and sample language/best practices. Once issued and until the 2022 CEP is published, this Guidance document will supplant the Recommendations document.

Affirmative determinations last for the life cycle of a revision of the Municipal Plan, and Municipal Plans that are submitted after the 2022 CEP is issued will be expected to meet the Standards that are issued at that time. Municipalities are encouraged to consult with their RPC or DPS regarding interim amendments that might affect any of the standards below, to discuss whether a new review is triggered.

If you wish to submit your Municipal Plan to your RPC or to DPS for a determination, please read closely the specific instructions at the start of each section below, and attach your Municipal Plan to this checklist.

Determination requests to an RPC (and any other questions) should be submitted to your RPC's designated contact. Determination requests to DPS until July 1, 2018 – and only for municipalities whose Regions' plans have not received an affirmative determination – should be submitted to:

PSD.PlanningStandards@vermont.gov.

Part I: Applicant Information

The plan being submitted for review is a:	<input checked="" type="checkbox"/> Municipal Plan in a region whose regional plan has received an affirmative determination of energy compliance from the Commissioner of Public Service Please submit these plans to your RPC	<input type="checkbox"/> Municipal Plan in a region whose regional plan has <u>not</u> received a determination of energy compliance Until July 1, 2018, please submit these to the DPS. After July 1, 2018, this option ceases to exist.
Applicant:	City of Burlington	
Contact person:	Meagan Tuttle, Principle Planner	
Contact information:	mtuttle@burlingtonvt.gov	
Received by: Click here to enter text.	Date: Click here to enter text.	

Part II: Determination Standards Checklist

The checklist below will be used to evaluate your plan's consistency with statutory requirements under Act 174, including the requirement to be adopted and approved, contain an enhanced energy element, be consistent with state energy policy, and meet a set of standards designed to ensure consistency with state energy goals and policies.

Please review and attach your plan (or adopted energy element/plan, along with supporting documentation) and self-evaluate whether it contains the following components. Use the Notes column to briefly describe how your plan is consistent with the standard, including relevant page references (you may include additional pages to expand upon Notes). If you feel a standard is not relevant or attainable, please check N/A where it is available and use the Notes column to describe the situation, explaining why the standard is not relevant or attainable, and indicate what measures your municipality is taking instead to mitigate any adverse effects of not making substantial progress toward this standard. If N/A is not made available, the standard must be met (unless the instructions for that standard indicate otherwise) and checked "Yes" in order to receive an affirmative determination. There is no penalty for checking (or limit on the number of times you may check) N/A where it is available, as long as a reasonable justification is provided in the Notes column.

Plan Adoption Requirement

[Act 174](#) requires that municipal plans be adopted and approved in order to qualify for a determination of energy compliance. In the near term, it is likely municipalities will revise and submit isolated energy plans or elements, particularly due to long planning cycles. Therefore, the plan adoption requirement can be met through an amendment to an existing plan in the form of an energy element or energy plan, as long as the amendment or plan itself is duly adopted as part of the municipal plan and incorporated by reference or appended to the underlying, full plan (i.e., is officially "in" the municipal plan), as well as approved for confirmation with the region. If this route is chosen, the municipality should also attach the planning commission report required for plan amendments under 24 V.S.A. § 4384, which should address the internal consistency of the energy plan/element with other related elements of the underlying plan (particularly Transportation and Land Use), and/or whether the energy plan/element supersedes language in those other elements. Standards 1 and 2 below must be answered in the affirmative in order for a plan to receive an affirmative determination of energy compliance.

1. Has your plan been duly adopted and approved for confirmation according to 24 V.S.A. § 4350 ?	<input type="checkbox"/> Yes. Adoption date: Click here to enter text. Confirmation date: Click here to enter text.	<input checked="" type="checkbox"/> No	Draft review
2. Is a copy of the plan (or adopted energy element/plan, along with underlying plan and planning commission report addressing consistency of energy element/plan with other elements of underlying plan) attached to this checklist?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes: Click here to enter text.

Energy Element Requirement

To obtain a determination of energy compliance, Act 174 requires municipalities to include an "energy element" that contains the same components

described in 24 V.S.A. § 4348a(a)(3), which was revised through Act 174 to explicitly address energy across all sectors and to identify potential and unsuitable areas for siting renewable energy resources:

An energy element, which may include an analysis of resources, needs, scarcities, costs, and problems within the region across all energy sectors, including electric, thermal, and transportation; a statement of policy on the conservation and efficient use of energy and the development and siting of renewable energy resources; a statement of policy on patterns and densities of land use likely to result in conservation of energy; and an identification of potential areas for the development and siting of renewable energy resources and areas that are unsuitable for siting those resources or particular categories or sizes of those resources.

The standards below are generally organized to integrate each component of the enhanced energy element with related determination standards that evaluate the plan's consistency with state goals and policies. **Energy element components are identified in bolded text.**

While municipalities may choose to primarily address energy used for heating, transportation, and electricity in the required energy element, they may also choose to address some of these components in related plan elements (e.g., Transportation and Land Use) and should indicate as much in the Notes column. To the extent an energy element is designed to comprehensively address energy, it should be complementary to and reference other relevant plan elements.

<p>3. Does the plan contain an energy element, that contains the same components described in 24 V.S.A. § 4348a(a)(3)?</p> <p><i>Individual components of the energy element will be evaluated through the standards below.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Actions 8.1, 8.2, 8.4, 8.5, all actions associated with policy 9, 10.2, 10.4, 12.4, 19.1, 19.10, and 21.1</p> <p>Notes: Burlington Electric Department Integrated Resource Plan and Burlington Climate Action Plan are both incorporated into the plan by reference.</p>
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Consistency with State Goals and Policies Requirement

Act 174 states that regional and municipal plans must be consistent with the following state goals and policies:

- Greenhouse gas reduction goals under [10 V.S.A. § 578\(a\)](#) (50% from 1990 levels by 2028; 75% by 2050)
- The 25 x 25 goal for renewable energy under [10 V.S.A. § 580](#) (25% in-state renewables supply for all energy uses by 2025)
- Building efficiency goals under [10 V.S.A. § 581](#) (25% of homes – or 80,000 units – made efficient by 2020)
- State energy policy under [30 V.S.A. § 202a](#) and the recommendations for regional and municipal planning pertaining to the efficient use of energy and the siting and development of renewable energy resources contained in the [State energy plans](#) adopted pursuant to [30 V.S.A. §§ 202](#) and [202b](#)
- The distributed renewable generation and energy transformation categories of resources to meet the requirements of the Renewable Energy Standard under [30 V.S.A. §§ 8004](#) and [8005](#)

The standards in the checklist below will be used to determine whether a plan is consistent with these goals and policies. The standards are broken out by category. *Analysis and Targets* standards address how energy analyses are done within plans, and whether targets are established for energy conservation, efficiency, fuel switching, and use of renewable energy across sectors. *Pathways (Implementation Actions)* standards address the identification of actions to achieve the targets. *Mapping* standards address the identification of suitable and unsuitable areas for the development of renewable energy.

Municipalities may choose to incorporate the information necessary to meet the standards in their energy elements, and/or in other sections of their plans (many transportation items may fit best in the Transportation chapters of plans, for instance). However, plans must be internally consistent, and applicants should cross-reference wherever possible.

Analysis and Targets Standards

For the *Analysis & Targets* determination standards below, municipalities will be provided with analyses and targets derived from regional analyses and targets no later than April 30, 2017 (and likely much sooner). Municipalities may choose to rely on these “municipalized” analyses and targets to meet the standards in this section. Municipalities which elect to use the analysis and targets provided by a region will be presumed to have met the standards in this section. Alternatively, municipalities may develop their own custom analyses and targets or supplement the analyses and targets provided by the regions with specific local data; if this option is chosen, the analysis and targets must include all of the same components and meet the standards required of regions, as described below.

For municipalities that choose to undertake their own analysis and target-setting (and for regions), DPS is providing a guidance document to explain the expected level of detail in and data sources and methodologies available for meeting the standards (including areas where it is understood data at the municipal level is unavailable, and therefore not expected). Note that standards 5A-4E are all derived directly from requirements in Act 174 (with minor modifications to make them feasible) and must be met affirmatively in order for a municipal plan to receive an affirmative determination of energy compliance.

Targets set by regions and municipalities should be aligned with state energy policy (see the goals and policies listed above). Where targets (and efforts to reach them) depart significantly from state energy goals and policies, an explanation for how the plan otherwise achieves the intent of the state goal or policy should be provided. The guidance document also offers additional clarification on alignment with state goals and policies.

The analysis items below are intended to provide regions and municipalities with an overview of their current energy use, and with a sense of the trajectories and pace of change needed to meet targets, which can be translated into concrete actions in the *Pathways* standards below. Targets provide regions and municipalities with milestones or checkpoints along the way toward a path of meeting 90% of their total energy needs with renewable energy, and can be compared with the potential renewable energy generation from areas identified as potentially suitable in the *Mapping* standards exercise below to give regions and municipalities a sense of their ability to accommodate renewable energy that would meet their needs.

4. Does your plan’s energy element contain an analysis of resources, needs, scarcities, costs, and problems within the municipality across all energy sectors (electric, thermal, transportation)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Notes: The data guide provided by CCRPC is incorporated into the plan by reference, and that meets the requirements of #4 and #5 of these standards.
5. Does your plan contain an analysis that addresses A-E below, either as provided by your Regional Planning Commission or as developed by your municipality? <i>Municipalities may meet this standard by using the analysis and targets provided by their regions, or by developing their own analyses and targets. If using the analysis &</i>	<input checked="" type="checkbox"/> Yes-Region <input type="checkbox"/> Yes-Custom	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Data guide provided by CCRPC is incorporated into the plan by reference.

<i>targets provided by your region, please answer “Yes-Region” and skip ahead to #6. If developing a custom analysis, please answer “Yes-Custom” and address 5A-5E separately, below.</i>			
A. Does the plan estimate current energy use across transportation, heating, and electric sectors?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
B. Does the plan establish 2025, 2035, and 2050 targets for thermal and electric efficiency improvements, and use of renewable energy for transportation, heating, and electricity?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
C. Does the plan evaluate the amount of thermal-sector conservation, efficiency, and conversion to alternative heating fuels needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
D. Does the plan evaluate transportation system changes and land use strategies needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
E. Does the plan evaluate electric-sector conservation and efficiency needed to achieve these targets?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.

Pathways (Implementation Actions) Standards

This section examines whether plans meet the Act 174 expectation that they include pathways and recommended actions to achieve the targets identified through the *Analysis and Targets* section of the Standards (above). Plans are expected to include or otherwise address all of the pathways (implementation actions) below; some actions may not be applicable or equally relevant to all applicants (small vs. large municipalities, for instance), in which case N/A may be checked (if available) and the justification provided in the Notes column. There is no penalty for choosing N/A one or more times, as long as a reasonable justification is provided in the Notes column, preferably including an explanation of how the plan alternatively achieves attainment of the targets should be included. If N/A is not provided as an option, the standard must be met, and “Yes” must be checked, in order for the plan to meet the requirements for a determination (unless the instructions particular to that standard indicate otherwise).

DPS will be issuing a guidance document in the near term providing potential implementation actions derived from the Comprehensive Energy Plan (relevant formal Recommendations as well as opportunities not specifically called out as Recommendations), from recent regional and municipal plans, and from other sources. The guidance document will be revised after the regions have compiled best practices from early municipalities pursuing energy planning to seek a determination of energy compliance, in the summer of 2017.

For the time being, we offer potential implementation action options for consideration as italicized text under each standard. Plans are encouraged to promote as diverse a portfolio of approaches as possible in each sector, or if not, to explain why they take a more targeted approach. Implementation actions may fit best in a holistic discussion contained within a plan’s energy element, though cross-referencing to other relevant plan elements is also acceptable.

Municipalities must demonstrate a commitment to achieving each standard in both policies and implementation measures in clear, action-oriented language.			
6. Does your plan's energy element contain a statement of policy on the conservation and efficient use of energy?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 51 Paragraph #: Goal 9 – Net Zero Community by 2030 Notes: Click here to enter text.
A. Does the plan encourage conservation by individuals and organizations? <i>(Actions could include educational activities and events such as convening or sponsoring weatherization workshops, establishing local energy committees, encouraging the use of existing utility and other efficiency and conservation programs and funding sources, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Climate Action Plan pg 16, 22-23 Paragraph #: Climate Action Plan Energy Efficiency in Buildings Goals Notes: AMI program action, PACE program action
B. Does the plan promote efficient buildings? <i>(Actions could include promoting compliance with residential and commercial building energy standards for new construction and existing buildings, including additions, alterations, renovations and repairs; promoting the implementation of residential and commercial building efficiency ratings and labeling; considering adoption of stretch codes, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: planBTV pg 50-51, pg 61 Paragraph #: Click here to enter text. Notes: planBTV Action 9.3, Action 9.4, Action 9.6, Action 12.1
C. Does the plan promote decreased use of fossil fuels for heating? <i>(Actions and policies could promote switching to wood, liquid biofuels, biogas, geothermal, and/or electricity. Suitable devices include advanced wood heating systems and cold-climate heat pumps, as well as use of more energy efficient heating systems; and identifying potential locations for, and barriers to, deployment of biomass district heating and/or thermal-led combined heat and power systems in the municipality)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: planBTV pg 50-51; CAP page 23 Paragraph #: Click here to enter text. Notes: planBTV Action 8.5, Action 9.9; CAP action on combined heat and power
D. Does the plan demonstrate the municipality's leadership by example with respect to the efficiency of municipal buildings? <i>(Actions could include building audits and weatherization projects in schools and town offices, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Page: planBTV pg 50-51, CAP pg 23 Paragraph #: Click here to enter text. Notes: planBTV Action 9.3; CAP action on energy efficiency for government buildings
E. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: The City of Burlington's goal of being a Net Zero Energy Community by 2030, discussed throughout the energy chapter
7. Does your plan's energy element contain a statement of policy on reducing transportation energy demand and single-occupancy vehicle use, and encouraging use of renewable or lower-emission energy sources for transportation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: CAP pg 13, VMT reduction goal Paragraph #: Click here to enter text. Notes: Click here to enter text.

<p>A. Does the plan encourage increased use of public transit? <i>(Actions could include participation in efforts to identify and develop new public transit routes, promote full utilization of existing routes, integrate park-and-rides with transit routes, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Throughout, including planBTV pg 48, pg 73-75 Paragraph #: Click here to enter text. Notes: planBTV actions 6.5, 6.6; all action related to planBTV Goal 17</p>
<p>B. Does the plan promote a shift away from single-occupancy vehicle trips, through strategies appropriate to the municipality? <i>(Actions could include rideshare, vanpool, car-sharing initiatives; efforts to develop or increase park-and-rides; enhancement of options such as rail and telecommuting; education; intergovernmental cooperation; etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: planBTV pg 48, 73 Paragraph #: Click here to enter text. Notes: Actions 6.5, 17.4-17.7. Also see below notes under Standard 5D re: bike and ped infrastructure</p>
<p>C. Does the plan promote a shift away from gas/diesel vehicles to electric or other non-fossil fuel transportation options through strategies appropriate to the municipality? <i>(Actions could include promoting the installation of electric vehicle charging infrastructure, providing education and outreach to potential users, supporting non-fossil fuel vehicle availability through outreach to vehicle dealers, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: planBTV pg 52, CAP pg 13 and 22 Paragraph #: Click here to enter text. Notes: planBTV action 9.7, CAP Goal re: Community Transportation and action re: charging infrastructure</p>
<p>D. Does the plan facilitate the development of walking and biking infrastructure through strategies appropriate to the municipality? <i>(Actions could include studying, planning for, seeking funding for, or implementing improvements that encourage safe and convenient walking and biking; adopting a "Complete Streets" policy, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: planBTV pg 62, pg 73 Paragraph #: Click here to enter text. Notes: planBTV action 13.1, 17.1, 17.2, 17.3</p>
<p>E. Does the plan demonstrate the municipality's leadership by example with respect to the efficiency of municipal transportation? <i>(Actions could include purchasing energy efficient municipal and fleet vehicles when practicable, installing electric vehicle charging infrastructure, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: CAP pg 14, 22 Paragraph #: Click here to enter text. Notes: Government Transportation Goal and associated actions re: alternative commuting, government vehicle replacement policies and government vehicle sharing</p>
<p>F. Other (please use the notes section to describe additional approaches that your municipality is taking)</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>
<p>8. Does your plan's energy element contain a statement of policy on patterns and densities of land use likely to result in conservation of energy?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: planBTV pg 37, pg 48 Paragraph #: Click here to enter text. Notes: Goal 2 and associated actions, Goal 6 and associated actions</p>
<p>A. Does the plan include land use policies (and descriptions of current and</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: throughout, but especially planBTV pg</p>

<p>future land use categories) that demonstrate a commitment to reducing sprawl and minimizing low-density development? <i>(Actions could include adopting limited sewer service areas, maximum building sizes along highways, policies or zoning that require design features that minimize the characteristics of strip development [multiple stories, parking lot to the side or back of the store], and requirements that development in those areas be connected by means other than roads and cars; adopting a capital budget and program that furthers land use and transportation policies; etc.)</i></p>			<p>81-103 Paragraph #: Click here to enter text. Notes: See Future Land Use plan, which splits the city into areas to conserve, sustain and grow. Additionally, see planBTV: Downtown and Waterfront Master Plan, which includes many strategies to focus growth in the downtown area.</p>
<p>B. Does the plan strongly prioritize development in compact, mixed-use centers when physically feasible and appropriate to the use of the development, or identify steps to make such compact development more feasible? <i>(Actions could include participating in the state designation program, such as obtaining state designated village centers, downtowns, neighborhoods, new town centers, or growth centers; exploration of water or sewage solutions that enable compact development; etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: throughout, especially pg 36, 44 Paragraph #: Click here to enter text. Notes: See Goal 1 and action 1.1-1.3 for a discussion of water and sewer infrastructure, associated action and pg 44 for a description of Burlington's participation in the state's designated downtown and designated neighborhood programs</p>
<p>C. Other (please use the notes section to describe additional approaches that your municipality is taking)</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>
<p>9. Does your plan's energy element contain a statement of policy on the development and siting of renewable energy resources?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Notes: pg 51, Goal 9 re: becoming a Net Zero Energy community by 2030</p>
<p>A. Does the plan evaluate (estimates of or actual) generation from existing renewable energy generation in the municipality? <i>Municipalities should be able to obtain this information from their regions.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Burlington Data Guide from CCRPC is incorporated by reference</p>
<p>B. Does the plan analyze generation potential, through the mapping exercise (see <i>Mapping</i> standards, below), to determine potential from preferred and potentially suitable areas in the municipality? <i>Municipalities should be able to obtain this information from their regions.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Burlington Data Guide from CCRPC is incorporated by reference, and the guide includes the required maps.</p>
<p>C. Does the plan identify sufficient land in the municipality for renewable energy development to reasonably reach 2050 targets for renewable electric generation, based on population and energy resource potential (from potential resources identified in the <i>Mapping</i> exercise, below), accounting for the fact that land may not be available due to private property</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: The 2018 ECOS Plan and the Burlington Data Guide from CCRPC both state that Burlington does not have year-by-year</p>

constraints, site-specific constraints, or grid-related constraints? <i>If N/A, please describe how you are working with your regional planning commission to ensure overall regional objectives are achieved.</i>			targets, because enough renewable electricity is being produced already to meet the 2050 high target.
D. Does the plan ensure that any local constraints (locally designated resources or critical resources, from 12B and 12C under <i>Mapping</i> , below) do not prohibit or have the effect of prohibiting the provision of sufficient renewable energy to meet state, regional, or municipal targets? <i>If N/A, please describe how you are working with your regional planning commission to ensure overall regional objectives are achieved.</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Page: Paragraph #: Click here to enter text. Notes: The 2018 ECOS Plan and the Burlington Data Guide from CCRPC both state that Burlington does not have year-by-year targets, because enough renewable electricity is being produced already to meet the 2050 high target.
E. Does the plan include statements of policy to accompany maps (could include general siting guidelines), including statements of policy to accompany any preferred, potential, and unsuitable areas for siting generation (see 12 and 13 under <i>Mapping</i> , below)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: planBTV pg 51 Paragraph #: Click here to enter text. Notes: Action 9.2 states that the City will work to identify priority sites for locating additional generation. This is a great goal, but to make sure that these identified sites qualify for the best rates under Vermont's Net Metering Rules, make sure that they're defined as "preferred sites" rather than "priority sites" in any final document.
F. Does the plan maximize the potential for renewable generation on preferred locations (such as the categories outlined under 12E in the <i>Mapping</i> standards, below)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: planBTV pg 51 Paragraph #: Click here to enter text. Notes: Burlington's Net Zero Community goal will necessitate a large amount of future generation, especially on buildings, parking lots and previously disturbed sites
G. Does the plan demonstrate the municipality's leadership by example with respect to the deployment of renewable energy? <i>(Actions could include deploying renewable energy to offset municipal electric use, etc.)</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: pg 15 Paragraph #: Click here to enter text. Notes: Page 15 discusses the fact that the City owns 50% of the generation capacity of the McNeil Generating Plant, 50% of the capacity of the Winooski One dam, and various other renewable generation sources. The city continues to seek out opportunities for

			future generation to meet the Net Zero Community goals.
H. Other (please use the notes section to describe additional approaches that your municipality is taking)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: The Burlington Electric Department's Integrated Resources Plan is incorporated into planBTV by reference, and includes a great deal of useful information about the utility's plans for energy efficiency and future generation

Mapping Standards

Act 174 requires plans to identify potential areas for the development and siting of renewable energy resources and areas that are unsuitable for siting those resources or particular categories or sizes of those resources. It furthermore requires that the standards address the potential generation from the potential siting areas.

The *Mapping* standards lay out a sequence of steps for planners to examine existing renewable resources and to identify potential (and preferred) areas for renewable energy development, and to identify likely unsuitable areas for development, by layering constraint map layers on to raw energy resource potential map layers. The maps should help municipalities visualize and calculate the potential generation from potential areas, and compare it with the 2025, 2035, and 2050 targets from the *Analysis and Targets* standards to get a sense of the scale and scope of generation that could be produced within the region to meet the municipality's needs. DPS will provide additional guidance to accompany the standards that fleshes out the steps, layers, and standards more fully.

Plans must include maps that address all of the standards below, unless N/A is provided as an option, in which case a compelling reason why the standard is not applicable or relevant should be provided in the Notes column. Regions must develop their own maps (already underway through support being provided to regions by DPS), and to then break out the maps for their municipalities, who can use their region-provided maps to meet the municipal *Mapping* standards (such "municipalization" work is being supported through a training & technical assistance contract between DPS and regions, and all regions must supply completed maps to their municipalities by April 30, 2017, though many are expected to do so much sooner).

Municipalities may choose to rely on the maps provided by the regions to meet the standards in this section. Those maps should be somewhat familiar to municipalities, who are expected to be consulted as regions develop their maps. Alternatively, municipalities may choose to undertake their own mapping, according to the same set of standards as regions. Additionally, municipalities are expected to work collaboratively with their regions and with neighboring municipalities to ensure compatibility between the final products.

The map and the text describing the policies or rules used to construct the map, as well as the text describing specific policies applicable to map features, should be complementary. That should help ensure that any "land conservation measures and specific policies" that might be given substantial deference in the context of a particular project review under 30 V.S.A. § 248 are clearly identifiable in the text, should a map lack sufficient clarity or granularity regarding

the area in which a project is proposed.			
<p>10. Does your plan contain one or more maps that address 11-13 below, as provided by your Regional Planning Commission or as developed by your municipality?</p> <p><i>Municipalities may meet this standard by using the maps provided by their regions, or by developing their own maps. If using the maps provided by your region, please answer "Yes-Region" and skip ahead to #14. If developing custom maps, please answer "Yes-Custom" and address 11-13 separately, below.</i></p>	<input checked="" type="checkbox"/> Yes-Region <input type="checkbox"/> Yes-Custom	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Burlington Data Guide from CCRPC is incorporated by reference, and the guide includes the required maps</p>
<p>11. Does the plan identify and map existing electric generation sources? Maps may depict generators of all sizes or just those larger than 15 kW, as long as information on generators smaller than 15 kW is summarized and provided or referenced elsewhere. It is expected that the best available information at the time of plan creation will be used. This information is available from the DPS.</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>12. Does the plan identify potential areas for the development and siting of renewable energy resources and the potential generation from such generators in the identified areas, taking into account factors including resource availability, environmental constraints, and the location and capacity of electric grid infrastructure?</p> <p><i>Maps should include the following (available from VCGI and ANR), and the resulting Prime and Secondary Resource Maps will together comprise "potential areas":</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>A. Raw renewable energy potential analysis (wind and solar), using best available data layers (including LiDAR as appropriate)</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>B. Known constraints (signals likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources) to include:</p> <ul style="list-style-type: none"> • Vernal Pools (confirmed and unconfirmed layers) • DEC River Corridors • FEMA Floodways • State-significant Natural Communities and Rare, Threatened, and Endangered Species • National Wilderness Areas • Class 1 and Class 2 Wetlands (VSWI and advisory layers) • Regionally or Locally Identified Critical Resources 	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>

<p><i>If areas are constrained for the development of renewable energy due to the desire to protect a locally designated critical resource (whether a natural resource or a community-identified resource), then the land use policies applicable to other forms of development in this area must be similarly restrictive; for this category, policies must prohibit all permanent development (and should be listed in the Notes column).</i></p> <p><i>These areas should be subtracted from raw renewable energy resource potential maps to form Secondary Resource Maps</i></p>			
<p>C. Possible constraints (signals conditions that would likely require mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies that are currently adopted or in effect), including but not limited to:</p> <ul style="list-style-type: none"> • Agricultural Soils • FEMA Special Flood Hazard Areas • Protected Lands (State fee lands and private conservation lands) • Act 250 Agricultural Soil Mitigation areas • Deer Wintering Areas • ANR's Vermont Conservation Design Highest Priority Forest Blocks (or Habitat Blocks 9 & 10, for plans using regional maps in regions whose plans will be submitted for adoption at the regional level by March 1, 2017) • Hydric Soils • Regionally or Locally Identified Resources <p><i>If locations are constrained for the development of renewable energy due to the desire to protect a locally designated resource (whether a natural resource or community-identified resource, like a view), then the land use policies applicable to other forms of development must be similarly restrictive (and should be listed in the Notes column).</i></p> <p><i>These areas should be subtracted from Secondary Resource Maps to form Prime Resource Maps.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p> <p>Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>D. Transmission and distribution resources and constraints, as well as</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text.</p>

<p>transportation infrastructure. <i>(Including three-phase distribution lines, known constraints from resources such as Green Mountain Power's solar map, known areas of high electric load, etc.)</i></p>			<p>Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>
<p>E. Preferred locations (specific areas or parcels) for siting a generator or a specific size or type of generator, accompanied by any specific siting criteria for these locations <i>Narrative descriptions of the types of preferred areas in accompanying plan text are acceptable, though mapping of areas and especially specific parcels (to the extent they are known) is highly encouraged, to signal preferences to developers, particularly for locally preferred areas and specific parcels that do not qualify as a statewide preferred location under i. below.</i> <i>The locations identified as preferred must not be impractical for developing a technology with regard to the presence of the renewable resource and access to transmission/distribution infrastructure.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>
<p>i. Statewide preferred locations such as rooftops (and other structures), parking lots, previously developed sites, brownfields, gravel pits, quarries, and Superfund sites</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>
<p>ii. Other potential locally preferred locations <i>For example, customer on- or near-site generation, economic development areas, unranked and not currently farmed agricultural soils, unused land near already developed infrastructure, locations suitable for large-scale biomass district heat or thermal-led cogeneration, potential locations for biogas heating and digesters, etc.</i> <i>These are particularly important to map if possible, as "a specific location in a duly adopted municipal plan" is one way for a net metering project to qualify as being on a preferred site.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>
<p>13. Does the plan identify areas that are unsuitable for siting renewable energy resources or particular categories or sizes of those resources? <i>Either Yes or No ("No" if the plan chooses not to designate any areas as unsuitable) is an acceptable answer here. "Resources" is synonymous with "generators."</i></p>	<input type="checkbox"/> Yes ("Yes" for A and B must also be selected below)	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.</p>

<p>A. Are areas identified as unsuitable for particular categories or sizes of generators consistent with resource availability and/or land use policies in the regional or municipal plan applicable to other types of land development (answer only required if “Yes” selected above, indicating unsuitable areas have been identified)?</p> <p><i>If areas are considered unsuitable for energy generation, then the land use policies applicable to other forms of development in this area should similarly prohibit other types of development. Please note these policies in the Notes column.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A (if no unsuitable areas are identified)	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
<p>B. Does the plan ensure that any regional or local constraints (regionally or locally designated resources or critical resources, from 12b-12c above) identified are supported through data or studies, are consistent with the remainder of the plan, and do not include an arbitrary prohibition or interference with the intended function of any particular renewable resource size or type?</p> <p><i>Please explain in the Notes column.</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
<p>14. Municipalities seeking a determination of energy compliance from the Department and not using their region’s maps only: Does the plan ensure that its approach, if applied regionally, would not have the effect of prohibiting any type of renewable generation technology in all locations?</p>	<input type="checkbox"/> Yes (also check Yes if seeking determination from region, or from DPS but using region-provided maps)	<input type="checkbox"/> No	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.

Department of Planning and Zoning

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Tuesday, October 30, 2018

Emily Nosse-Leirer, Senior Planner
Chittenden County Regional Planning Commission
110 West Canal Street, Suite 202
Winooski, VT 05404

RE: Regional Review and Re-Approval of *planBTV: Comprehensive Plan*

Dear Emily,

Please consider this letter, and the accompanying materials, a request by the City of Burlington for the initiation of the Regional Review and Re-Approval Process for *planBTV: Comprehensive Plan*, Burlington's Municipal Development Plan. This comprehensive update and re-adoption of the 2014 *planBTV* addresses all plan elements, maps, and planning requirements. Additionally, it will include the adoption of many new *planBTV* efforts and studies by their reference. These include:

- [2015 Burlington Parks, Recreation and Waterfront Master Plan](#)
- [2015 Burlington Housing Action Plan](#)
- [2015 Downtown Parking & Transportation Management Plan](#)
- [2016 Brownfields Area Wide Plan](#)
- [2016 Sustainable Infrastructure Capital Plan](#)
- [2017 Burlington Annex to the Chittenden County All Hazards Mitigation Plan](#)
- [2017 planBTV: Walk/Bike Master Plan](#)
- [2017 CCRPC Burlington Population and Employment Projections](#)
- [2018 CCRPC Burlington Energy Data Guide](#)
- [2018 planBTV: South End Master Plan](#)

You will find enclosed for the staff, PAC, and CCRPC's review and consideration:

1. A pdf of the 2019 update to *planBTV: Burlington's Comprehensive Plan*
2. Hyperlinks to view or download pdf's for each of the newly incorporated plans and studies which will be adopted for the first time by their reference in the 2019 update (included above).
3. A concise summary (planBTV's Appendix C) referencing the locations of statements within the municipal plan relating to how the plan addresses state planning goals and statutory requirements, is compatible with the regional *ECOS Plan*, and is compatible with the plans of adjacent municipalities.
4. Documentation of the City of Burlington's progress to implement the 2014 *planBTV*.

The programs and services of the City of Burlington are accessible to people with disabilities.
For accessibility information call 865-7188 (for TTY users 865-7142).

The following summarizes the Planning & Zoning Department's annual budget, which enables our staff to execute current and long-range planning functions for the City of Burlington, and funding dedicated to regional planning purposes. More than \$1M additional dollars over the last five years have been committed by our colleagues in the Departments of Public Works; Parks, Recreation & Waterfront; and Community and Economic Development which have funded in full or in part the creation of many of those documents incorporated by reference in this update, as well as other plans and studies which help us advance local planning efforts.

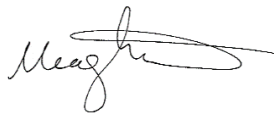
	Local Planning	Regional Planning	Total
FY2019	\$890,277*	\$51,326	\$941,603
FY2018	\$846,481	\$50,475	\$896,956
FY2017	\$798,283	\$49,641	\$847,924
FY2016	\$790,073	\$49,810	\$839,883
FY2015	\$1,075,756	\$49,115	\$1,124,871
FY2014	\$700,580	\$48,614	\$749,194

* Budgeted

The Burlington Planning Commission has approved this draft to warn for a public hearing, with a hearing date tentatively scheduled for December 5, 2018.

Please feel free to contact me at 865-7193 with any questions you may have. Thank you in advance for your consideration.

Sincerely,



Meagan E. Tuttle, AICP
Principal Planner, Comprehensive Planning
City of Burlington

cc:

Andrew Montroll, Chair, Burlington Planning Commission
David E White, FAICP, Planning & Zoning Director
Kimberly Sturtevant, Assistant City Attorney