



CHITTENDEN COUNTY RPC

Communities Planning Together

Planning Advisory Committee Agenda

Thursday, August 17, 2023

2:30pm to 4:00pm

Meeting will be held virtually.

Virtual Location: <https://us02web.zoom.us/j/86721320693>

For those who would prefer to join by phone or those without a microphone on your computer, please dial in using your phone. (For supported devices, tap a one-touch number below to join instantly.)

Dial: +1 309 205 3325; Meeting ID: 867 2132 0693

For supported devices, tap a one-touch number join instantly: [+13092053325](tel:+13092053325), [.88400193484#](tel:+13092053325)

Agenda

2:30 Welcome and Introductions, Paul Conner

2:31 Approval of [June 14, 2023, Minutes](#)

2:35 Board Chair Election, Members

2:40 Draft 2024 South Burlington City Plan*, Melanie Needle and Sarah Muskin

This is a new City Plan that includes an enhanced energy plan. The City is seeking plan approval, planning process confirmation and a Determination of Energy Compliance. The draft 2024 City Plan and maps can be found [here](#). CCRPC's formal review memo, Appendix A-Municipal Plan Review Tool, Appendix B-Municipal Implementation Guidelines, and Appendix C-Energy Planning Standard checklist is attached.

- 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*

3:00 Draft ECOS Enhanced Energy Plan*, Melanie Needle and Darren Schibler

As part of the 2024 ECOS Plan update, staff will provide an overview of the draft enhanced energy plan which includes the energy goal key issues section, Strategies/Actions 2, 4, 6.1.f, 7.1.f, 7.2.g, maps, and Supplement 6 (Energy Analysis, Targets, and Methodology). The draft enhanced energy plan and regional energy planning standard checklist can be found [here](#). A memo summarizing the changes made to update the ECOS Enhanced Energy Plan is attached.

3:20 S.100 / Act 47 – Overview of Studies and Changes to Municipal Planning & Zoning

This will be an opportunity to clarify some of the new municipal zoning provisions of the law, discuss how communities are implementing them, and share any insights or challenges. CCRPC staff will also gather feedback from PAC members on future trainings or follow-ups.

3:45 Members Items Open Forum, Members

If anyone has anything they'd like to bring up with the group, please do so.

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 121 or evaughn@ccrpcvt.org, no later than 3 business days prior to the meeting for which services are requested.

3:50 Regional Act 250/Section 248 Projects on the Horizon - Please email Taylor and Darren information about projects on the horizon.

3:55 Other Business

1. **November Meeting Date.** The PAC meeting on November 8, 2023 needs to move due to NNECAPA. CCRPC proposes moving the meeting to **Wednesday, November 15, 2023**.
2. **Zoning Atlas Update.** UVM Complex Systems' team continues to finalize work on Chittenden County communities and hopes to provide a draft atlas for review in September.
3. **ECOS Plan Update**
4. **Essentials of Land Use Training.** CCRPC is seeking interest from municipalities that would like to host an "Essentials of Land Use" training for municipal board members. The training provides a basic introduction to land use planning and regulation and is particularly aimed at new municipal board members. If interested, please email Taylor and Darren.
5. **Updated Regional and Municipal Energy Data and Maps.** CCRPC will municipalize regional energy data and maps in the fall 2023.
6. **FEMA Flood Map and Bylaw Updates.** RPCs are entering into a second contract with VT DEC to support NFIP map and bylaw updates in municipalities in FY24. Please let RPCs staff know if your municipality is interested in assistance. In addition, CCRPC understands that the release of the draft NFIP Work Map for Chittenden County has been released until January 2024.
7. **Building Homes Together 2.0 Campaign and Year 2022 Housing Update**

4:00 Adjourn

*** = Attachment**

NEXT MEETINGS:

Here are the future PAC meetings so you can hold the time in your calendars. Just keep in mind that sometimes we have to adjust these dates for various reasons:

September 13, 2023 at 2:30 PM – Jericho Town Plan Review; Continue S.100 discussion; S.100 study update

November 8, 2023 at 2:30 PM (**Date needs to be changed**) – ECOS Plan (review draft plan); Essex Town Plan Review

December 13, 2023 at 2:30 PM – ECOS Plan (continue review of draft plan, if needed)

Date: August 10, 2023

To: Kelsey Peterson, City Planner; Paul Conner, Director of Planning & Zoning

From: Sarah Muskin, CCRPC Planner; Melanie Needle, CCRPC Senior Planner

Re: Formal Review of the Draft 2024 South Burlington City Plan, Including Enhanced Energy Plan Review

The City of South Burlington has requested, per 24 V.S.A. §4350, that the Chittenden County Regional Planning Commission (1) approve its draft 2024 South Burlington City Plan; (2) confirm its planning process; and (3) issue an affirmative determination of compliance with the enhanced energy planning standards set forth in 24 V.S.A. §4352.

This draft 2024 South Burlington City Plan builds upon the 2016 South Burlington City Plan. CCRPC staff informally reviewed the 2016 plan and provided a memo to South Burlington staff and the South Burlington Planning Commission in July 2022 with recommendations to improve the plan. In 2022, CCRPC staff also worked with South Burlington to develop a Climate Action Plan (CAP) which contains many of the elements of an enhanced energy plan. CAP elements have been included and enhanced in the City Plan to ensure compliance with the Department of Public Service's energy planning standards. The draft 2024 South Burlington City Plan addresses previous CCRPC recommendations from the 2022 informal plan review, provides updated data, addresses recent changes to the community, and includes an enhanced energy 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, CCRPC staff have reviewed the draft 2024 South Burlington City 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, CCRPC staff have reviewed the planning process requirements of §4350.

Staff Review Findings and Comments

1. The draft 2024 South Burlington City 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 draft 2024 South Burlington City 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 draft 2024 South Burlington City 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 draft 2024 South Burlington City 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 draft 2024 South Burlington City Plan is compatible with the municipal plans for Burlington, Williston, Shelburne, Colchester, Essex, Essex Junction, and Winooski.
6. South Burlington has a planning process in place that is sufficient for an approved plan. In addition, South Burlington has provided information about their planning budget and CCRPC finds that South Burlington is maintaining its efforts to provide local funds for municipal and regional planning.

The following additional recommendations are NOT required for CCRPC to grant regional approval of the draft 2024 City Plan.

Additional Recommendations:

CCRPC recommends the following edits to help clarify parts of the plan and improve readability and navigation. These recommendations are not required:

1. The plan should be reviewed to address several typos.
2. Include links to each item listed in the “additional resources” list in each plan section.
3. Include links in-text to the maps referenced through the document.
4. Use numbering in the Goals and Actions for easier navigation instead of bullets.
5. The household income table on page 12 is missing a source. If the source is the American Community Survey (ACS) please include the margin of errors associated with the ACS estimate, so the reliability of the numbers is understood.
6. Consider referencing the solar landfill project, Energy Revolving Loan Fund, Energy Manager position, or existing EV charging stations in the plan as examples of the City leading by example on resilience and climate change issues.
7. Consider replacing the term “multi-family” with the term “multi-unit” throughout the plan.
8. Consider further explanation of the population served by the Special Services Transit Agency in the Transit Services section.
9. Consider making the suggested changes provided by Amanda Froeschle, Vermont Health Department Healthy Community Specialist, to strengthen the connection to health and equity. Comments were emailed to Kelsey Peterson on June 2, 2023.

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, CCRPC staff reviewed the 2024 South Burlington City 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 City Plan meets the standards for issuing a determination of energy compliance per the Public Service's Department Energy Planning Standards for Municipal Plans.

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	Comments
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			
10. Equity Impact Assessment	X			
11.-13. E, 14. Include maps provided by CCRPC or Municipality	X			
13.F. Forest Block Evaluation	X			South Burlington's Habitat Blocks are a possible constraint.

Additional Recommendations:

CCRPC's process for establishing renewable energy generation targets is underway as the ECOS Plan is currently being revised. Therefore, the renewable energy generation targets for South Burlington have been revised. Please update table C.1-C.3 in Appendix A using the data below. Also include a note mentioning that the targets are more up to date than the targets in the City's Climate Action Plan.

Table C1. Land Available for Wind and Solar Generation

	Prime Potential	Base Potential
Solar	139 acres	1,966 acres
Wind	316 acres	3,457 acres

Source: CCRPC, Department of Public Service, Vermont Center for Geographic Information, updated in 2023

Table C2. Estimated Renewable Electricity Generation Potential from Land Available for Wind and Solar Energy Generation

	Power (MW)	Energy (MWh)
Total Rooftop Solar*	131.7	158,788
Total Ground-Mounted Solar	57.3	75,349
Total Wind	94.3	185,889
<i>Source: Ground-Mount Solar + Wind, CCRPC, Generation Scenarios Tool (April 2023), Department of Public Service; Rooftop Solar, Vermont Center for Geographic Information</i>		
<i>*Existing rooftop solar generation has not been subtracted out due to data availability.</i>		

Table C3. Renewable Electricity Generation Targets

	2032	2040	2050
Total Generation Targets (MWh)	37,240	61,097	72,131
Incremental Targets* (MWh)	4,775	28,631	39,666

Sources: Department of Public Service, CCRPC

*Incremental targets mean new generation in addition to what the municipality is already generating. As of 1/31/23, South Burlington generates 32,465 MWh of energy annually from renewable technologies.

Proposed Motion & Next Steps:

PROPOSED MOTION: The PAC finds that the draft 2024 South Burlington City Plan meets all statutory requirements for CCRPC regional approval and that the municipality's planning process meets all statutory requirements for CCRPC confirmation.

The PAC also finds that the draft 2024 South Burlington City Plan will meet 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.

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:

The CityPlan 2024 statement of purpose references land use, public services, and environmental protection, among other topics detailed in the document. The Plan includes four Guiding Principles that apply to the entire document, and a series of Goals and Actions within each section.

The statement also notes that the City Plan 2024 “serves as an Enhanced Energy Plan as enabled by 24 V.S.A. § 4352.

Met

Pages: 3-4 and throughout for Goals/ Actions (NOTE: pages reference the plan’s numbered pages, not those of the PDF file)

(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: 70-93, 103

CityPlan 2024 includes six main categories of future land use and associated analysis and goals. These categories have been expanded upon, retitled, and increased (by one) from the 2016 Plan. Notably, the 2016 category “Medium to Higher Intensity – Principally Non-Residential” has been broken into 2 new categories: “Commercial/Industrial with Supporting Housing” and “Commercial-Industrial Only”. This distinction reflects the city’s desire to support ancillary uses including possibly housing near certain employment centers whose current layout isolates workers from potential jobs and is intended to create a basis for future zoning changes in these areas.

Page 103 displays Map XX: Future Land Use Comprehensive Plan (number forthcoming in final draft). This map is most directly comparable to Map 11 (Future Land Use) from the 2016 Comprehensive Plan.

The Plan also includes five geographically-based planning areas that are used to address special planning issues within those individual geographies.

MAPS

Present Land Use Plan ☐

Prospective Land Use Plan ☒

(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:

CityPlan 2024 emphasizes sustainability, a modal shift away from single-passenger vehicles, and equity in all modes of transportation. It draws on several recent studies, including the 1-89 Corridor Study, Tilley/Kimball Ave Study, several Bike/Ped Scoping studies and the City’s 2022 Climate Action Plan

Transportation data is mapped on several different pages. These include maps dedicated to road classification, planned improvements, and bike/pedestrian infrastructure.

Met

Pages: 41-47, 106, 108, 109

MAP

Transportation ☒

(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 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:

This section includes details, analysis, and goals/actions on stormwater, potable water, and wastewater treatment, as well as solid waste and telecommunication.

Page 108 (Community Facilities) displays the locations of relevant city facilities, while page 111 is reserved for a forthcoming map of sanitary and water systems.

Met

Pages: 64-69, 108, 111

MAP

Utility and Facility ☒

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

Comments:

CityPlan 2024 addresses this topic across its Environment and the Community, History, and Culture chapters. CityPlan 2024 includes discussion and analysis of Environmental resources at both the Landscape and individual Resource level.

Met

Pages: 32-40, 48-50

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

Comments:

Discussion of educational facilities in South Burlington is located within the Community Facilities chapter, and discusses public schools, higher education, and private educational facilities located within city limits.

Please reference page 108 (Community Facilities) for a map showing locations of schools.

Met

Pages: 61-63, 108

MAP

Educational Facility ☒

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

Comments:

The implementation plan is sorted by the various tools South Burlington will use to translate planning into action and draws distinctions between regulatory and non-regulatory tools. Goals/Actions are throughout the Plan.

Met

Pages: 6-8, plus goals/actions throughout

(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:

CityPlan 2024 discusses its compatibility with adjacent municipal comprehensive plans in the Land Use chapter. It finds broad compatibility with all adjacent towns and cities, particularly in areas related to the conservation of natural resources along the Williston-SB and Shelburne-SB municipal boundaries.

Met

Pages: 90-93

(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;

Comments:

CityPlan 2024 expands on 2016's energy sections with a dedicated Energy chapter, which details recent developments in regulatory and non-regulatory city actions and describes current energy production and consumption in South Burlington. Along with the Energy chapter, a series of data tables in Appendix A allows CityPlan 2024 to serve as an enhanced energy plan as per Act 174.

Met

Pages: 25-31, 94-102

(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.

Comments:

South Burlington acknowledges the critical need for greater variety and affordability among all types of housing. The housing section of CityPlan 2024 has been thus expanded for greater analysis of current conditions, and also describes a number of city programs designed to achieve goals of variety and affordability.

Met

Pages: 14-19

(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.

Comments:

Discussion of economic development in CityPlan 2024 is centered in the Economy chapter. The chapter analyzes how disparate factors such as transportation, city zoning and permitting, labor force makeup, housing, and job center locations interact to influence the development of South Burlington's economy and its relationship to regional economic trends. See also the Land Use chapter for additional information related to housing, workforce, and city zoning.

Met

Pages: 20-24

(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.

Comments:

This section discusses how the city's All Hazards Mitigation Plan (updated 2022) interacts with current water quality and culvert infrastructure interact in anticipation of future floods. The Environment chapter also discusses river corridors and floodplains.

Met

Pages: 39, 65-66

§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:

CityPlan 2024 contains discussions of demographic and income trends (People & Population, pp. 10-13), housing stock and projected housing demand (Housing, pp. 14-19), and land use history and projected future changes (70-93).

In these and other sections, City Plan 2024 draws data from the US Census Bureau, Vermont Center for Geographic Information, Chittenden County Regional Planning Commission, and the Vermont Housing Finance Agency, among others.

Met

Pages: 10-19, 70-93

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.

Consistent

Pages: 21-23, 67, 71-93, 103

(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.

How has the Town Plan addressed this goal:

- A. South Burlington has been actively pursuing the goal of directing development in areas already served by transportation and utility infrastructure. The Future Land Use map (p. 103) projects increases in housing scale along the Shelburne and Williston Road corridors, Kennedy Drive, adjacent to UVM campus, and within the newly-designated City Center centered at the intersection of Dorset and Market Streets.
- B. The Plan calls for a focus on infill along transit-served corridors, continued conservation of land in much of the City's unbuilt areas further removed from transit and infrastructure, and to seek opportunities to provide for thoughtful evolution of existing neighborhoods to accommodate additional housing, services, and civic spaces to support thriving neighborhoods.
- C. Specific Initiatives include the adoption of form-based code in the City Center and designation and renewal of that area as a New Town Center, Neighborhood Development Area, and Tax Increment Finance District. Along with these, the City has constructed a new City Hall with an attached library and senior center within the City Center district.
- D. CityPlan 2024's Transportation chapter calls for enhanced bike and pedestrian infrastructure and transit service in areas slated for greater residential density and mixed-use development.

If the goal is not relevant or attainable, how does the plan address why:

South Burlington does not have the classic “historic settlement pattern of compact village and urban centers separated by rural countryside” an envisioned by the Statutes. However, CityPlan 2024 builds on several successive Plans that have targeted the establishment of a City Center, conservation of rural resources in key areas, and most recently identifying nodes of activity along Shelburne Road.

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: 20-24

How has the Town Plan addressed this goal:

Investment and changes to permitting schemes have resulted in new small-scale commercial and retail space generated in the City Center district, in line with the City’s goal of creating more spaces available to small businesses, especially those owned and operated by low-income residents and people of color.

Furthermore, CityPlan 2024 recognizes the connections between geography, income, housing, and transportation, and seeks to use the latter two factors to address inequality in income and opportunity for all South Burlington residents, regardless of where in the city they live.

If the goal is not relevant or attainable, how does the plan address why:

n/a

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: 61-63

How has the Town Plan addressed this goal:

City Plan 2024 does not deviate significantly from previous comprehensive plans; however, the plan does call for partnering with the South Burlington School District and UVM to meet future infrastructure needs- primarily, physical upgrades to school buildings, housing near schools, and transportation between these locations.

If the goal is not relevant or attainable, how does the plan address why:

n/a

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: 27, 41-47

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

How has the Town Plan addressed this goal:

Cit Plan 2024 sets ambitious goals for retrofitting South Burlington's historic pattern of auto dependence to accommodate the safety and dignity of all road users, including pedestrians, cyclists, transit riders, and mobility aid users. The plan acknowledges that this will only be achieved through reduction in vehicle miles traveled, and sets benchmarks for progress towards an overall reduction in total vehicle miles travelled, by businesses and individuals as well as those performed in support of city operations. The plan also acknowledges the need to achieve a broad switch to EVs from fossil-fuel automobiles and anticipates changes to zoning codes designed to ready new development for enhanced EV charging options at residences.

If the goal is not relevant or attainable, how does the plan address why:

n/a

Goal 5:

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

Consistent

Pages: 32-39, 50

- (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:

A lengthy chapter on Environment links several ongoing and planned strategies to achieve these goals. The plan explicitly draws connections between ongoing efforts to concentrate development in established areas and a goal of preserving a majority of land within city limits for its inherent value as well as for the ecosystem services that pristine natural resources afford to South Burlington residents. The Community, History, and Culture chapter discusses both historic sites and structures as well as about culture and cultural facilities into the future.

If the goal is not relevant or attainable, how does the plan address why:

n/a

Goal 6:

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

Consistent

Pages: 32-39, 64-68

How has the Town Plan addressed this goal:

CityPlan 2014 sets explicit goals of removing all watersheds from the list of stormwater-impaired waterbodies, connecting wildlife habitats across administrative boundaries, and performing inventories of tree canopy coverage and health.

Habitat blocks and connectors are another new feature of City Plan 2024. A 2020 recent study by Arrowwood Environmental identified these features, and protections for these areas has been incorporated into the city's development review process in the land development regulations.

If the goal is not relevant or attainable, how does the plan address why:

n/a

Goal 7:

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

Consistent

Pages: 25-31, 94-102

How has the Town Plan addressed this goal:

The City has made addressing climate change, reducing greenhouse gas emissions and increasing renewable energy generation central policies objective. To that end, the city adopted a 2022 Climate Action Plan with wide-ranging goals for energy use over the coming decades, many of which directly influence policy going forward. A number of these goals are expressed in the form of targets for weatherization, replacement of internal combustion engines vehicles with EV equivalents, electrification of heating and cooling systems, and reducing vehicle miles traveled. Other goals involve changing or creating regulatory mandates to require all-renewable energy sourcing, EV charging infrastructure, and solar-readiness on certain buildings.

Finally, CityPlan 2024 is intended to function as an Enhanced Energy Plan as per Act 174. Appendices A & B are intended to satisfy the data reporting requirements necessary to establish City Plan 2024 as an Enhanced Energy Plan.

If the goal is not relevant or attainable, how does the plan address why:

n/a

Goal 8:

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

Consistent

Pages: 36, 51-54

(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:

CityPlan 2024 sets targets for, and calls for expanding the net acreage, diversity of type, and the equitable distribution of recreation resources across South Burlington. The plan acknowledges that developed and non-developed recreation opportunities are both important and that areas used for non-developed recreation can also perform essential natural resource conservation.

The plan sets goals for ratios of parkland acreage per 1000 residents, increasing recreational programming, and plans for more equitable distribution and access options for new neighborhood parks.

If the goal is not relevant or attainable, how does the plan address why:
n/a

Goal 9:

To encourage and strengthen agricultural and forest industries.

Consistent

Pages: 32-33, 35-36

(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:

Given South Burlington's largely urbanized landscape and highly-residential land use patterns, agriculture and silviculture within city limits are largely absent from the city's economic profile and daily life. However, since several working agricultural operations continue to operate within city limits, CityPlan 2024 calls for their protection and the addition of community garden spaces for residents. Furthermore, CityPlan 2024 establishes a clear symbiosis between existing agricultural operations, their need for economic protection (mostly via land conservation measures), and the City's goals for protecting open space and natural resources.

If the goal is not relevant or attainable, how does the plan address why:

Commercial-scale silviculture and logging is not expected to increase or be a significant factor in South Burlington's current or future economic profile. CityPlan 2024 notes that such activities are exempt from local zoning; however, given the urbanized settlement pattern of the city, it is expected that future timber harvests will be limited to salvage stemming from development or natural resource maintenance such as invasive species removal.

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: 34-35

How has the Town Plan addressed this goal:

City Plan 2024 catalogues the existence and status of several defunct and one working quarry in South Burlington, while stating that further mineral extraction within city limits is not compatible with the overriding environmental, economic, and social goals of the plan, and therefore should be minimized or avoided completely.

If the goal is not relevant or attainable, how does the plan address why:

South Burlington does not seek to add extractive capacity and its planning documents focus attention to this sector in pursuit of tracking the legacy operations that do exist while planning for the non-extractive future of non-functional quarries and former industrial sites.

Goal 11:

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

Consistent

Pages: 14-19

(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.

(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:

Housing is one of the first and the largest chapters of CityPlan 2024. This chapter explicitly links affordable and accessible housing to the City's success in meeting its other ambitious goals, such as increasing economic opportunity for all residents, improving city services, and achieving the goals of the Climate Action Plan. The Plan sets ambitious targets for establishment of additional affordable housing.

Along with increasing supply and decreasing average price of housing, City Plan 2024 calls for:

- Electrifying and weathering existing homes
- Setting new standards for sustainability in building materials
- Closing gaps in efficiency, safety, and comfort between owner-occupied and rental housing units
- Increasing the total number of "missing middle" housing types
- Planning for infill in land-use areas identified as ready for higher density, including by enhancing infrastructure and by streamlining permitting requirements
- Exploring new zoning options, including housing in formerly commercial-only land use areas.

If the goal is not relevant or attainable, how does the plan address why:

n/a

Goal 12:

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

Consistent

Pages: 55-69

(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.

How has the Town Plan addressed this goal:

CityPlan 2024 provides an overview of existing community services and public facilities, with a particular focus on wastewater and potable water utilities. Wastewater treatment is particularly important at this time given the city's focus on environmental sustainability since wastewater treatment has high potential for pollution and requires high inputs from both electric and fossil-fuel energy sources to operate.

Police, fire response, and schools are organized under “Community Services”, and discussion of these areas is largely focused on how their facilities and accompanying infrastructure will need to be strengthened or expanded as South Burlington’s overall population continues to grow.

If the goal is not relevant or attainable, how does the plan address why:
n/a

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: 62-63

How has the Town Plan addressed this goal:

Cit Plan 2024 acknowledges that child care facilities are underdeveloped in South Burlington as well as in Vermont as a whole. It calls for affordable and accessible child care within city limits and posits that this goal might be best achieved through partnerships between municipal government, non-profits, and private enterprise.

If the goal is not relevant or attainable, how does the plan address why:
n/a

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: 39, 65-66

How has the Town Plan addressed this goal:

City Plan 2024 takes most of its flood hazard recommendations from the city’s All-Hazards Mitigation Plan (AHMP), which was updated in 2022. These include:

- Tightly regulating development in floodplains via zoning and other land use regulation
- Co-locating passive recreation/open space with mapped floodplains
- Considering 500-year flood areas as the default areas for flood protection, rather than 100-year areas
- Prioritizing infill development over sprawl

In addition to its flood hazard-specific plans, the city remains committed a comprehensive stormwater mitigation plan. It has created Vermont’s stormwater utility, which will soon enter its 3rd decade of managing stormwater in South Burlington. City Plan 2024 links the city’s goals of reducing damage from kinetic weather to parallel goals of reducing pollution loading in its watersheds.

If the goal is not relevant or attainable, how does the plan address why:
n/a

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.

Appendix B – Municipal Plan Implementation Assessment

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

Municipality: City of South Burlington

Date: May 12, 2022

Municipal Plan Expiration: February 1, 2024

Planning Process Currently Confirmed?: X Yes ☐ No

Activity	Progress? (select all that may apply)	Explanation of Progress
Preparation or adoption of bylaws or amendments:	<input type="checkbox"/> Activity Completed X 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	Zoning amendments are ongoing. See attached document for amendments 2016-present.
Capital budgets and programs:	X Activity Completed X 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	The City annually updates and adopts its 10-year CIP

<p>Supplemental plans: [list one or more identified in the plan, but not necessarily all]</p>	<p> <input 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>The City is presently preparing a Climate Action Plan. Several supporting reports and plans include, but are not limited to:</p> <p><i>Chamberlin Neighborhood Land Use and Transportation Plan (2016)</i> <i>Final Report of the Chamberlain Neighborhood – Airport Planning Noise Subcommittee (2016)</i> <i>South Burlington All Hazards Mitigation Plan Annex (2017)</i> <i>Habitat Block Assessment and Ranking (2020)</i> <i>Interim Zoning Open Space Committee Final Report (2020)</i> <i>Natural Capital Valuation of Interim Zoning Open Space Parcels (2020)</i> <i>City Center Parking and Movement Plan (2020)</i> <i>Report on the Additional Revenues Generated from New Housing Development versus the Additional Costs to the City (2020)</i> <i>Vermont 116/Kimball Avenue/Tilley Drive Area Land Use and Transportation Plan (2020)</i> <i>Airport Rezoning Task Force Final Report (2022)</i> <i>Several transportation scoping and/or corridor studies</i></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 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>The City of South Burlington has undertaken the following actions, among others, to implement the adopted plan.</p> <ul style="list-style-type: none"> • Land Acquisitions/Conservation - including the Auclair property (approximately 375 acres) • Transportation Improvements - including improvements to sidewalks, bike/ped infrastructure, and approving penny for paths funding • City Hall/Library – opened Summer 2021 • Stormwater - multiple enhancement projects to public stormwater systems • Mitigation Plan and Emergency Response Plans - ongoing maintenance • Open governance – commitment to transparency, continuing hybrid meetings • Recreation programming expansion - including Senior Center, and programming to meet needs of all age groups

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.

Title	Description	LDR Section	
General PUD	Establish a General PUD applicable where Conservation and TND PUDs are not, and to amendments to prior PUDs	15.C.07	Adopted 2022-05-02
Site Amenities	Establish minimum site amenity requirements for all new Site Plans and residential conversions	14.06	Adopted 2022-05-02
Relationship of Structures to Site	Provide context to Site Plan standards	14.06	Adopted 2022-05-02
Minor and Technical Amendments	Mincor and Technical Amendments, including removing master plan requirement for single user sites	15.C, 2.02	Adopted 2022-05-02
Solar Ready Roofs	Require solar ready roofs per CBES Appendix CA	3.15	Adopted 2022-02-07
Environmental Resource Standards	Update Natural Resource Standards, add Forest Blocks & Forest Block Connectors; establish criteria for limited infrastructure incursion	3.04; Article 12	Adopted 2022-02-07
Subdivision Standards	Update and re-write of Subdivision Standards & procedures	Article 15B	Adopted 2022-02-07
Master Plan Standards	Update and re-write of Master Plan Standards	Article 15A	Adopted 2022-02-07
Planned Unit Developments	Update and re-write of PUD standards and applicability	Article 15C	Adopted 2022-02-07
Open Space Types in PUDs	Apply certain open space types to PUDs (& Subdivisions). Relates to LDR-19-06	Appendix E	Adopted 2022-02-07
Street standards	Replace Street standards from City Center FBC, Southeast Quadrant, and General with citywide standards	Article 9, Article 11, Article 15	Adopted 2022-02-07
Required setback on Arterials & Collectors	Separates required setbacks from the subject of Planned Rights-of-Way (previously required together). Eliminates larger setbacks (50') from most streets and relies on underlying zoning. Clears conflict with SEQ standards	3.06, Article 9	Adopted 2022-02-07
Building envelopes for SEQ-NRP	Establish building envelopes for any allowed development in the SEQ-NRP district	Article 9	Adopted 2022-02-07
Site Plan Standards; waivers	Updates general site plan standards to ensure that cross-references to related standards are included. Revises waiver standards to allow site plan review to stand "on its own" [currently many properties use PUD as a tool to seek waivers from standards], and to set clear waiver guidelines to the DRB; establishes standards for when adjacent streetscape improvements are needed.	14.04; 14.07	Adopted 2022-02-07
R2 Zoning District	Removed PUD density increase in R2 district and instead applies via PUD standards	4.02	Adopted 2022-02-07
R1 Zoning Districts	Removed PUD density increase in R1 sub-zones district and instead applies via PUD standards		Adopted 2022-02-07
Residential Design	Re-locates residential design standards from SEQ to apply citywide; modifies garage scale to principal facade	3.16	Adopted 2022-02-07
Technical corrections	LDR-20-18C 3.06F remove redundant text for structures requiring setbacks; LDR-20-18D 3.06J clarify administrative/DRB review for pre-existing lots; LDR-20-18G 3.07 Height of Accessory Structures; LDR-20-18H 3.07 Height Standards update cross-references; Throughout ; LDR-20-18J Article 6 & Section 13.11 relocate and clarify when drive-throughs are permitted / prohibited [no policy change proposed];	Throughout	Adopted 2022-02-07

Minor Amendments	LDR-20-21D 3.06 corner visibility; LDR-20-21A 13.25 allows retaining walls within 5' as a conditional use; LDR-20-21B 13.09 Eliminates requirement for special review of Bus Shelters; LDR-20-21C 3.09 Allows RVs to be placed in the same locations as an accessory structure on a property, plus the driveway; LDR-20-21E 3.07, 6.02, 6.03, 13.03 update FAA approach cone language; LDR-20-21F 13.16 Earth products: clarify that stormwater system; LDR-20-21G 13.18 Utility cabinets and similar maintenance is exempt; LDR-20-21H 13.18E Buffer strips 3.06I		Adopted 2022-02-07
Accessory Dwelling Units; pre-existing small lots; conditional use review criteria for 3-4 unit buildings	Amendment LDRs to comply with S.237	3.05, 3.10, 14.10	Adopted 2022-02-07
Accessory Structures	Increases allowance for # of accessory structures on a lot and references total SF of accessory structures as part of total lot building coverage instead of 50% of ground floor area of principal building; removes special reference to garage connection	3.10	Adopted 2022-02-07
Solar canopies in Parking areas	Would parking areas with solar canopies to have modified landscaping requirements	13.06	Adopted 2022-02-07
Table of Uses / Dimensions Update	Update the Table of Uses & Dimensions to remove PUD references, add uses enabled by TND	Appendix C	Adopted 2022-02-07
Expand Inclusionary Zoning Citywide	Expands the applicability of inclusionary zoning citywide to all new development/ conversion to residential exceeding 12 dwelling units.	Article 18, Article 15C PUDs	Adopted 2022-02-07
Allow Limited Neighborhood Residential into larger residential bldgs with MP	Would expand the allowance for a small retail / serve use with a Master Planned development. Currently only allowed as a stand-alone building. Proposed to allow, in high density districts, with a larger residential building	Article 14	Adopted 2022-02-07
Conservation PUD Type	Conservation PUD type	Article 15C	Adopted 2022-02-07
TND PUD Type (plus infill version)	TND PUD Type	Article 15C	Adopted 2022-02-07
Building Types	Establish building types for applicability in PUDs (and possible elsewhere later)	Appendix E	Adopted 2022-02-07
Urban Design Overlay Lot Coverage - Civic Space	Allow increase lot coverage on properties within the Urban Design Overlay District via provision of on-site Civic Space	Article 10, Appendix E	Adopted 2020/12/06
Urban Design Overlay Lot Coverage - TDRs	Allow increased lot coverage on properties within the Urban Design Overlay District via acquisition of TDRs	Article 9	Adopted 2020/12/06
Open Space Chart & FBC types	Modify table of open space types (Appendix F) and applicability in the City Center Form Based Code District	Article 8, Appendix E	Adopted 2020/12/06
Technical - digital submissions	Require only digital plan submittals	Appendix E	Adopted 2020/12/06
Cultural Facilities C1	Expand allowances for Cultural Facilities, Indoor Theaters, Artist Production Studios, and Community Centers within C1-R15, C1-R12, and C1-Auto Zoning Districts	App C	Adopted 2019/11/08

Inclusionary Zoning to Transit Overlay	Modify and Extend Inclusionary Zoning requirements to encompass all lands within the Transit Overlay District and portions of land north of I-89 in the vicinity of Hinesburg Road & Old Farm Road and modify income eligibility in Affordable Housing Density Bonus standards	2.02, 15, 17, 18.01, 18.02	Adopted 2020/07/06
FBC Upper Story Glazing	Modify Upper Story Glazing Standards in FBC T4 and T5 Districts		Adopted 2019/11/08
FBC reserved building space	Reduce size of reserved width for future buildings in FBC T4 and T5 Districts		Adopted 2019/11/08
FBC Off-site & hardscape landscaping	Allow greater proportion of Landscaping Budget to be used off-site and to be used for hardscapes in FBC district		Adopted 2019/11/08
FBC Open Space Location	Modify City Center Open Space locational criteria and options		Adopted 2019/11/08
T4 Window Heights	Reduce first story minimum window heights and establish privacy standards in FBC T4 District		Adopted 2019/11/08
Technical Amendments	Administrative Amendments: Authorize Administrative Officer to approve minor field changes to site plans & allow for a joint administrative approval & zoning permit; minor technical corrections		Adopted 9/16/2019
Lakeshore standards removed	Eliminate duplicative surface water protection standards for land within 150' of Lake Champlain and allowances for expansion of pre-existing structures within 100' of Potash Brook within Queen City Park Zoning District		Adopted 9/16/2019
River Corridors	Establish Citywide River Corridor Overlay District and make minor modifications to the Flood Plain Overlay District		Adopted 9/16/2019
TDR Technical Corrections	Amend transfer of development rights requirements to be consistent with enabling statutes		Adopted 9/16/2019
Eliminate Parking Minimums	Eliminate minimum parking requirements for all uses citywide except multi-family housing and accessory dwelling units, for which parking requirements are to be reduced		Adopted 10/7/2019
Technical corrections	Minor technical corrections.		Adopted 2018/07/16
Remove SEQ-VC build-to	Eliminate build-to standards for non-residential buildings in the Southeast Quadrant Village Commercial District		Adopted 2018/07/16
Limited neighborhood commercial	New limited commercial use for master-planned residential neighborhoods		Adopted 2018/07/16
FBC T4 Interstate Highway applicability	Except residential uses, remove applicability of the Interstate Highway Overlay District ramp setbacks from properties located in the Form Based Code T4 District		Adopted 2018/07/16
T4 FBC BES amendments	FBC T4: permit buildings up to 5 stories, establish Gateway area, change upper story glazing		Adopted 2018/07/16
Landscape performance bonds	Modify Landscape performance bonding requirements in all districts, eliminating requirements for small projects and reducing requirements for large projects		Adopted 2018/07/16
Technical corrections	Minor technical corrections.		Adopted 2018/04/02
Modify Bike Parking	Modifications to Bicycle Parking standards; and,		Adopted 2018/04/02
Urban Design Overlay	Establishment of an Urban Design Overlay District within portions of the C1-R12, C1-R15, and C1-Auto Districts;		Adopted 2018/04/02
Allow 5 stories in C1, rooftop apparatus	Modifications to height standards in the C1-R12, C1-R15, and C1-Auto Districts and removal of minor rooftop apparatus from height calculations;		Adopted 2018/04/02

FBC building placement, materials, open space	Modifications to the City Center Form Based Code, including building placement standards; buffer strip requirements; prohibited exterior materials and replacement of existing siding; off-site placement of open space in the T4 District; accessory structures; pre-approval of open space; off-site landscaping; T3 and T3+ District purpose statement, entrances, balconies, and buildings on small pre-existing lots; T4 and T5 District glazing standards;		Adopted 2018/04/02
Housing preservation	Establish housing preservation standards		Adopted 2018/04/02
Radio TV in I/O	Allow for Radio & Television Studio as a permitted use in the Industrial – Open Space Zoning District.;		Adopted 2017/11/20
Technical Corrections	Correct section references, eliminating descriptions of where certain zoning districts are located, add section labels, correct typographical errors, and remove redundant density and dimensional standards in the C1-Auto, C1-LR Allen Road, and Swift Street district and location of parking in the C1-Auto and C1-Air districts		Adopted 2017/06/19
Planned Street Barret-San Remo	Replace the planned street connection between Barrett Street and San Remo Drive with a planned recreation path, add a planned street extending north from Barrett Street, and label the new planned street as a “neighborhood narrow” street type; and,		Adopted 2017/06/19
Ag uses & Food Hubs	Remove agricultural uses that are exempted by State Law, create and define a new use called “Food Hub”, and allow “Food Hub” in the IA, PR, MU, R7, R12, SEQ-NRP, SEQ-NRT, SEQ-NR, SEQ-VR, SEQ-VC, and C1-R12, C1-R15, C1-Auto, C1-LR, AR, SW, IO, C2, and IC districts;		Adopted 2017/06/19
PC & DRB authorization	Update Planning Commission (PC) and Development Review Board (DRB) authorization, powers & duties, and membership to reference State Law and/or the City Charter, and expand the authorization for the Design Review Committee as an advisory committee to all advisory committees and update the section as described above for the PC and DRB;		Adopted 2017/06/19
R4 front porches	Allow unenclosed front porches to extend into the front yard setback for principal buildings in the R4 District;		Adopted 2017/06/19
Uses in MU, PR, R7, IA	Remove redundant lists of allowable uses in the Municipal, Parks & Recreation, R7-Neighborhood Commercial, and Institutional-Agricultural districts and clarify where the lists did not match;		Adopted 2017/06/19
Cul-de-sacs	Revise standards of review for when street connections are required citywide and enact limitations on lengths of cul-de-sacs in the Southeast Quadrant;		Adopted 2017/06/19
TDRs & Affordable Housing	Permit an affordable housing density bonus in the Southeast Quadrant Neighborhood Residential North sub-district, clarify applicability of transferable development rights in affordable housing density bonus housing units within the Southeast Quadrant district; and correct section references for the affordable housing density bonus;		Adopted 2017/06/19
Planned ROW Williston Rd	Expand the planned right of way for Williston Road between I-89 and Hinesburg Road and establishment of a planned right-of-way for Market Street;		Adopted 2017/06/19
Bike Parking & Storage	Update requirements for bicycle racks, and establish bicycle storage and shower facility requirements;		Adopted 2017/06/19
Definitions & Technical Corrections	Updated definitions and technical corrections throughout		Adopted 2016/06/06
Personal Instruction SEQ-VC	Allowance of small-scale personal instruction studio and indoor recreation in the SEQ-VC District		Adopted 2016/06/06

Merge Retails uses	Merger of similar use categories (eg, retail sales, retail food establishment, and convenience store), consolidating definitions, and arranging by scale and applicability		Adopted 2016/06/06
Parking for industrial	Revised standards for parking in front of buildings related to light industrial-type uses in heavy commercial / industrial districts;		Adopted 2016/06/06
Definitions, Minor Amendments	(i) General revisions to definitions; (ii) Revisions / adjustments to table of uses; (iii) Consolidate application submission requirements;		Adopted 2016/03/21
Reasonable Accommodations; Group Homes	Reasonable Accommodation to Ensure Reasonable Access to Housing; Group Homes		Adopted 2016/03/21
LDR Process & Admin Authority	(i) Administrative responsibilities & actions: technical review, traffic, minor applications, appeals, certifications of occupancy; (ii) PUD / Site Plan standards and review process; (iii) Plan approval and permit expiry modifications;		Adopted 2016/03/21
Est. Stretch Energy Codes	Residential and Commercial Stretch Energy Code		Adopted 2016/03/21
I/O to SEQ-NR zoning map change	Minor adjustment to boundary of Industrial-Open Space and SEQ-NR Districts.		Adopted 2016/03/21
SEQ-NRN Map	Zoning Map change to create SEQ-NRN zone		Adopted 2016/01/04
Establish SEQ-NRN District	Establish a new SEQ-Neighborhood Residential North subdistrict		Adopted
Establish Stormwater LID Stds	Low Impact Development Stormwater Standards		Adopted 2016/03/21
Street Typologies (City Center)	Establish Street Typologies		Adopted 2016/03/21
City Center FBC Inclusionary Zoning	Establish Inclusionary Housing requirements in the City Center Form Based Codes area		Adopted 2016/03/21
Establish City Center FBC	Establish City Center Form Based Codes District to replace Central Districts 1-4, Design Overlay Districts 1-3, and portions of C1-R12 and R4 Districts		Adopted 2016/03/21

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 its land conservation measures and specific policies will be given “substantial deference” in the Public Utility Commission’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 Commission:

[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 (determination), along with the completed checklist below. After a Municipal Plan and completed checklist have been submitted to the RPC, the RPC will schedule a public hearing noticed at least 15 days in advance by direct mail to the requesting municipal legislative body, on the RPC website, and in a newspaper of general publication in the municipality. The RPC shall issue a determination in writing within two months of the receipt of a request. If the determination is negative, the RPC 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)

Municipalities are encouraged to consult with their RPC 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 2022 Comprehensive Energy Plan (CEP), published on January 14, 2022, includes several important updates to the Act 174 enhanced energy standards:

- A revised set of standards, presented in this document, updated to reflect current developments in state energy policy
- An updated suite of recommendations tailored specifically toward the work of the regions and municipalities. Unlike the set of recommendations published with the original standards, which were written prior to the passage of Act 174, these recommendations are included in the 2022 CEP itself.

In addition, a revised guidance document will be published within six months after the publication of the 2022 CEP to reflect new issues and best practices that have emerged from the regions and municipalities that have gone through an initial process of applying for a determination of energy compliance. This document will also include the recommendations for regions and municipalities outlined in the 2022 CEP.

Affirmative determinations are valid for the life cycle of a revision of the Municipal Plan. Plans submitted after the 2022 CEP is issued are expected to meet the updated standards that are issued at that time, with the exception of plans for regions or municipalities who can demonstrate they had meaningfully initiated the planning process (ex. through proof of a publicly noticed meeting) before the 2022 CEP was published. Municipalities are encouraged to consult with their RPC 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 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.

Part I: Applicant Information	
Applicant:	City of South Burlington
Contact person:	Paul Conner
Contact information:	pconner@southburlingtonvt.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, 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](#)?

☐ Yes. Adoption date: [Click here to enter text.](#)

☒ No

CityPlan 2024 is on schedule for adoption by February 2, 2024.

	Confirmation date: Click here to enter text.		
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: Planning Commission Report to be prepared and published in August '23 for inclusion with Public Hearing Notice

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)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 25-31 Notes: Electric: pp. 29-30
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Individual components of the energy element will be evaluated through the standards below.			Thermal: pp. 28-29 Transportation: pp. 27-28 Conservation: p. 25 Land use: p. 25 Renewable siting: p. 31
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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 requirements under [10 V.S.A. § 578\(a\)](#) (26% from 2005 levels by 2025; 40% from 1990 levels by 2030; 80% from 1990 levels 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](#) (e.g., reduce fossil fuel consumption across all buildings by 10% by 2025)
- 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 by their RPC. 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), the Department of Public Service (PSD) has provided guidance documents 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). These guidance documents can be retrieved from the following links:

- In 2017, the PSD developed two guidance documents, one for regional plans and one for municipal plans:
 - o [Guidance for Regional Plans](#)
 - o [Guidance for Municipal Plans](#)
- In addition, in 2019 the Northwest Regional Planning Commission, with input from all 11 RPCs in the state, created [a best practices and resources guide](#) for municipalities to use when undertaking enhanced energy planning.

The guidance developed by the PSD will be updated in 2022 to incorporate best practices that have emerged from the regions and municipalities who have completed an initial round of energy plans. Note that standards 5A-5E 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

<p>needs with renewable energy, and can be compared with the potential renewable energy generation from areas identified as potentially suitable in the <i>Mapping</i> standards exercise below to give regions and municipalities a sense of their ability to accommodate renewable energy that would meet their needs.</p>			
<p>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)?</p> <p><i>Note: You may want to reference the guidance document, developed by Northwest Regional Planning Commission, with input from all 11 regional planning commissions, on best practices for conducting such an analysis, including examples and suggested units to use when developing analyses.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: 25-31 Notes: Electric: pp. 29-30 Thermal: pp. 28-29 Transportation: pp. 27-28 The subject is also addressed throughout the Plan as one of 4 guiding principles</p>
<p>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?</p> <p><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></p>	<input checked="" type="checkbox"/> Yes-Region <input type="checkbox"/> Yes-Custom	<input type="checkbox"/> No	<p>Page: 94-100 Paragraph #: Click here to enter text. Notes: These data are included in CityPlan 2024 as Appendix A on the above-noted pages.</p>
<p>A. Does the plan estimate current energy use across transportation, heating, and electric sectors?</p> <p><i>As noted in the Guidance Document, plans meet this standard by transparently calculating estimated energy consumption by region by 1) transportation, 2) building heat, and 3) electricity consumption. More detailed support is available in Appendix A of the Guidance developed by the PSD.</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>B. Does the plan establish targets for 2025, 2035, and 2050 for thermal efficiency improvements and use of renewable energy for heating and evaluate the amount of thermal-sector conservation, efficiency, and conversion to alternative heating fuels needed to achieve these targets?</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>

C. Does the plan establish targets for 2025, 2035, and 2050 for use of renewable energy for transportation and evaluate transportation system changes and land use strategies needed to achieve these targets?	<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.
D. Does the plan establish 2025, 2035, and 2050 targets for electric efficiency improvements and use and renewable energy for electricity and evaluate electric-sector conservation and efficiency needed to achieve these targets?	<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.

Pathways (Implementation Actions) Standards			
<p>This section examines whether plans meet the Act 174 expectation that they include pathways and recommended actions to achieve the targets identified through the <i>Analysis and Targets</i> 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).</p> <p>The PSD will be updating its guidance documents in 2022 with potential implementation actions included in the 2022 Comprehensive Energy Plan, from existing regional and municipal plans that have received a determination of compliance, and from other sources. We also offer potential starting points 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.</p> <p>Municipalities must demonstrate a commitment to achieving each standard in policies, objectives, and implementation actions in clear, action-oriented language. Definitions of policies, objectives, and actions can be found on p. 52 of the Vermont State Planning Manual Module 1.</p>			
6. Does your plan’s energy element contain policies or objectives on the conservation and efficient use of energy?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 25-30, 94 Paragraph #: Click here to enter text.

			Notes: Climate Resiliency is one of the Plan's Guiding Principles. The Plan also makes specific reference to the City's Climate Action Plan, which was adopted by the City Council in October 2022.
<p>A. Does the plan encourage conservation by individuals and organizations? <i>(Actions, objectives, and policies 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></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: 28-29 Paragraph #: Click here to enter text.</p> <p>Notes: The section contains a lengthy discussion of existing and planned energy conservation programs aimed at individuals and families.</p>
<p>B. Does the plan promote efficient and climate resilient buildings? <i>(Actions, objectives, and policies could include education on and promotion of 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, identification of buildings and facilities that serve critical community functions, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: 28-29 Paragraph #: Click here to enter text.</p> <p>Notes: This section describes the city's targets and existing programs for weatherizing and electrifying homes. It also discusses recent changes to LDRs and ordinances that mandate certain new development adhere to certain standards designed to maximize electrical use and energy conservation in favor of continued reliance on fossil fuels.</p>
<p>C. Does the plan promote decreased use of fossil fuels for heating? <i>(Actions, objectives, and policies could promote switching to wood, liquid biofuels, biogas, geothermal, and/or electricity (e.g. beneficial electrification). 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,</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: 28-29 Paragraph #: Click here to enter text.</p> <p>Notes: A 2022 ordinance requires that new buildings use carbon-free/renewable fuel for heating and hot</p>

<i>and barriers to, deployment of biomass district heating and/or thermal-led combined heat and power systems in the municipality)</i>			water. A 2021 ordinance regulates building orientation to maximize solar gain.
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: 29 Paragraph #: 3-4 Notes: CityPlan 2024 specifically calls for electrification of city operations, or the replacement of fossil fuels by non carbon-emitting sources, to be achieved. An implementation plan is expected to be published by the end of the 2023 calendar year.
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: 26 Paragraph #: Click here to enter text. Notes: The Plan includes an Action to Implement the High Impact Actions and Supporting Actions of the City's 2022 Climate Action Plan
7. Does your plan's energy element contain policies and objectives 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: 41-42 Paragraph #: Click here to enter text. Notes: Click here to enter text.
A. Does the plan promote a shift away from single-occupancy vehicle trips, through strategies appropriate to the municipality? <i>(Actions, objectives, or policies could include rideshare, vanpool, car-sharing initiatives; participation in efforts to identify and develop new public transit routes, promote full utilization of existing routes, integrate park-and-rides with transit routes, efforts to develop or increase park-and-rides; enhancement of options such as</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 44-45 Paragraph #: Click here to enter text. Notes: See "Multiple User Types" section for discussion of strategies for mode shifts.

<i>rail and telecommuting; deployment of broadband to support remote services such as telework or telemedicine; education; intergovernmental cooperation; etc.)</i>			
<p>B. 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, objectives, or policies could include developing a plan for preferred siting of charging infrastructure (ex. placement of fast or level two chargers), installing or 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: 41-46 Paragraph #: Click here to enter text.</p> <p>Notes: South Burlington’s unique position along major corridors and its consequently large variety of transportation infrastructure is a theme present throughout the Transportation section of CityPlan 2024. The document links a goal of shifting from fossil-fuel vehicles to necessary changes to land use, along with discussing improvements to actual vehicular infrastructure to support shifts to non-carbon fuel sources for transportation.</p>
<p>C. Does the plan facilitate the development of walking and biking infrastructure through strategies appropriate to the municipality? <i>(Actions, objectives, or policies 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: 41-45 Paragraph #: Click here to enter text.</p> <p>Notes: Similar to 7B, a majority of paragraphs in the Transportation chapter contain references to bike/ped infrastructure and how it can be used to further energy and climate goals articulated in other chapters.</p>
<p>D. 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: 29 Paragraph #: 3-4</p>

<i>(Actions, objectives, or policies could include purchasing energy efficient municipal and fleet vehicles when practicable, installing electric vehicle charging infrastructure, etc.)</i>			Notes: The government operations section of the Energy chapter discusses the city's goals for transitioning its fleet to non fossil-fuel energy sources.
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: 26 Paragraph #: Click here to enter text. Notes: The Plan includes an Action to Implement the High Impact Actions and Supporting Actions of the City's 2022 Climate Action Plan
8. Does your plan's energy element contain policies and objectives on patterns and densities of land use likely to result in conservation of energy and climate resilience?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 17, 26-27, 70-71 Paragraph #: Click here to enter text. Notes: References to energy conservation achieved by changes to future land use can be found throughout the document. Those pages are listed above. The Land Use Chapter describes more broadly the City's objectives for infill and compact neighborhoods
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, objectives, or policies could include promoting wastewater infrastructure in planned growth areas, 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; policies or zoning that limits conversion and fragmentation of forest blocks and</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Page: 17, 27, 32-33, 35-36, 39-40, 70-79 Paragraph #: Click here to enter text. Notes: This topic carries through the entire Plan and is addressed specifically within the Land Use Chapter

<i>impacts to primary agricultural soils, adopting a capital budget and program that furthers land use and transportation policies; etc.)</i>			
<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, objectives, or policies 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; working with state agencies and local utilities to identify priority areas for EV charging, storage, and other resources to promote downtown economic and every resilience, etc.)</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: 76-78, 81-82 Paragraph #: Click here to enter text.</p> <p>Notes: This topic carries through the entire Plan and is addressed specifically within the Land Use Chapter</p>
<p>C. 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 type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>9. Does your plan’s energy element contain policies and objectives on the development and siting of renewable energy, storage, and transmission and distribution resources?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Notes: Click here to enter text.</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: 30, 95 Paragraph #: 2</p> <p>Notes: Click here to enter text.</p>
<p>B. Does the plan analyze generation potential, through the mapping exercise (see <i>Mapping</i> standards, below), from 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: 31, 99 Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</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 constraints, site-specific constraints, or grid-related constraints?</p> <p><i>If N/A, please describe how you are working with your regional planning commission to ensure overall regional objectives are achieved.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: 96-100 Paragraph #: Click here to enter text.</p> <p>Notes:</p>
<p>D. Does the plan ensure that any local constraints (locally designated resources or critical resources, from 13B and 13C 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?</p> <p><i>If N/A, please describe how you are working with your regional planning commission to ensure overall regional objectives are achieved.</i></p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: 99-100 Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>
<p>E. Does the plan include policies and objectives to accompany maps (could include general siting guidelines), including policies and objectives to accompany any preferred, potential, and unsuitable areas for siting generation (see 13 and 14 under <i>Mapping</i>, below)?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: 26, 30 Paragraph #: Click here to enter text.</p> <p>Notes: Energy section Actions to support projects and applications that comply with state and local known and possible constraints</p>
<p>F. Does the plan maximize the potential for renewable generation on preferred locations (such as the categories outlined under 13E in the <i>Mapping</i> standards, below)?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: 29-30, 99 Paragraph #: Staff have identified several areas where draft CityPlan language will be updated to include recent changes to LDRs and ordinances.</p> <p>Notes:</p>

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: 29 Paragraph #: 3-4 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 type="checkbox"/> N/A	Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: Click here to enter text.
10. Does your plan's energy element assess the potential equity impacts of the policies and objectives included to meet standards 6-9? <i>Such an assessment could consider, for example, what communities will be most impacted by the policy or objective, the distribution of benefits and burdens related to specific actions, whether actions will address existing inequities, or the extent to which communities were or will be consulted in the development of any programs or actions.</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Page: 101-102 Paragraph #: Click here to enter text. Notes: Click here to enter text.

Mapping Standards

Act 174 requires plans to identify potential areas for the development and siting of renewable energy, storage, transmission, and distribution 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. Lastly, it requires that – in order to receive an affirmative determination – municipal plans allow for the siting in the region of all types of renewable generation technologies.

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 municipality to meet the municipality's needs. The PSD 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 and then break out the maps for their municipalities, who can use their region-provided maps to meet the municipal *Mapping* standards.

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. Policy language must be clear, unqualified, and create no ambiguity in relation to the specific area and the type of permissible development.

Consistent with the Climate Action Plan and Act 171 of 2016, the 2022 update to the Act 174 standards adds standard 12F to emphasize the value of forest lands in sequestering and storing carbon. By the 2028 update to the standards, the Department expects to incorporate Vermont Conservation Design priority interior forest and connectivity blocks into the possible constraints in standard 12C.

<p>11. Does your plan contain one or more maps that address 12-14 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 #15. If developing custom maps, please answer “Yes-Custom” and address 12-14 separately, below.</i></p>	<input type="checkbox"/> Yes-Region <input checked="" type="checkbox"/> Yes-Custom	<input type="checkbox"/> No	<p>Page: Maps 1-9, and A-1 to A-5 Paragraph #: Click here to enter text.</p> <p>Notes: These maps are under development based on guidance provided by CCRPC staff and included in the Maps 1-9 and at A-1 to A-5 for general land use mapping and energy-specific mapping</p>
<p>12. 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</i></p>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<p>Page: Click here to enter text. Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>

<p><i>information at the time of plan creation will be used. This information is available from the PSD.</i></p>			
<p>13. 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 checked="" 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 checked="" 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 from Vermont Center for Ecostudies (VCE; confirmed layers) • DEC River Corridors • FEMA Floodways • State-significant Natural Communities • 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 checked="" 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>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"> • Vernal Pools from VCE (potential and probable layers) • 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 • The following features from ANR's Vermont Conservation Design: <ul style="list-style-type: none"> ○ Interior Forest Blocks – Highest Priority ○ Connectivity Blocks-- Highest Priority ○ Physical Landscape Blocks - Highest Priority ○ Surface Water and Riparian Areas - Highest Priority • 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 viewshed), 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 #: 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 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 checked="" 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>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 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>i. Statewide preferred locations such as rooftops (and other structures), parking lots, previously developed sites, brownfields, gravel pits, quarries, and Superfund sites. <i>Note: These preferred locations align with the locations identified in the net metering rule 5.100. As of January 15, 2022 that rulemaking is currently active. Should the preferred locations identified in the rule change during that rulemaking, plans would be required to consider the updated preferred locations identified.</i></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>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</i></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><i>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>F. Does the plan (a) evaluate whether forest blocks or habitat connectors identified pursuant to 24 V.S.A. § 4348a(a)(2)(F) [for regional plans] and 24 V.S.A. § 4382(a)(2)(D) [for municipal plans] should be treated as possible constraints, and (b) ensure that land conservation measures and specific policies established for the development and siting of renewable energy resources incorporates consideration of the evaluation undertaken in part (a)?</p>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Click here to enter text.</p> <p>Notes: CCRCC staff determined that the City Plan meets this standard through the inclusion of habitat blocks as a local possible constraint and through the habitat block related environment action on page 33 and the discussion of wildlife and vegetation in the environment section of the City Plan.</p>
<p>14. 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 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 #: Click here to enter text.</p> <p>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)? <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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A (if no unsuitable areas are	<p>Page: Click here to enter text. Paragraph #: Click here to enter text.</p> <p>Notes: Click here to enter text.</p>

		identified)	
<p>B. Does the plan ensure that any regional or local constraints (regionally or locally designated resources or critical resources, from 13B-13C 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 checked="" 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>15. 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 from DPS but using region-provided maps)	<input type="checkbox"/> No	<p>Page: Click here to enter text. Paragraph #: Click here to enter text. Notes: N/A</p>

Chittenden County Regional Planning Commission Planning Advisory Committee

August 10, 2023

Enhanced Energy Plan

This memo is intended to provide a summary of the energy planning-related elements of the 2024 ECOS Plan and a summary of changes to the plan compared to the 2018 ECOS Plan. The energy planning-related elements of the 2024 ECOS Plan will be reviewed by the Board in October 2023.

The Long-Range Planning Committee (LRPC) Energy Sub-committee completed their work on the 2024 ECOS Plan in late July, and the LRPC reviewed their work on August 8. The Energy Sub-committee has met since March 2023 to guide the update of the “enhanced energy plan” within the 2024 ECOS Plan ([24 V.S.A. 4352](#)). The 2024 ECOS Plan is required to meet the [Public Service Department’s \(PSD\) Energy Planning Standards](#) to be considered an enhanced energy plan. Meeting the standards will enable the 2024 ECOS Plan to have greater legal weight in the Public Utility Commission’s Section 248 process. The ECOS Plan guides CCRPC’s participation in the Section 248 process per our policy for [reviewing Section 248 applications](#).

The ECOS Plan must meet four standards established in the PSD [Energy Planning Standards](#):

1. **Analysis & Targets:** The analysis and targets data quantify current energy demand by fuel type across the heating, transportation, and electric sectors. The data also set targets for future energy efficiency, weatherization, fuel switching (heating and transportation), and for renewable electricity generation. Analysis and targets have been updated in the 2024 ECOS Plan based on data provided by the Public Service Department, Efficiency Vermont and other sources. The targets are aligned with the Global Warming Solutions Act and the 2022 Comprehensive Energy Plan (CEP). The data needed to satisfy the analysis and targets standard are discussed in the ECOS Plan Energy goal and key issues section. The methodology is documented in ECOS Plan Supplement 6: Energy Analysis, Targets, and Methodology.

Targets for new renewable electricity generation by 2050 in both 2018 and 2024 ECOS Plans assume that 50% of statewide annual electricity demand will be generated in-state (which is consistent with the 2022 CEP). However, targets for new renewable electricity generation in the plans differ in the following way:

- a. The 2018 ECOS Plan established a targeted range (low target and high target) for new (incremental) renewable electricity generation.
 - Low Target – 255,054 MWh
 - High Target – 763,938 MWh
- b. The 2024 ECOS Plan proposes a single target.
 - Incremental Target – 348,279 MWh
 - Total Target – 954,833 MWh

The change from a range to a single target was made primarily because the tool provided by the PSD to CCRPC to develop targets changed in a manner that made it less customizable than in 2018 which in turn made it extremely difficult to develop ranges similar to 2018. Therefore, staff and the Energy Sub-committee determined it was easier to develop a singular target. Targets in both plans are technology neutral.

2. **Mapping:** Maps showing solar and wind energy resource areas, natural resource constraints, and existing renewable electricity generation are included in the plan and have been updated. The PSD Energy Planning Standards related to maps are met through the ECOS Plan strategies/actions sections related to energy and through ECOS Plan Supplement 3: Regional Plan.
3. **Pathways:** Pathways are actions the CCRPC and its partners will implement to achieve targets established for efficiency, transportation, land use, and renewable electricity generation. Notable updates to this section include:
 - a. Updated discussion on issues related to weatherization, equity, energy efficiency, fuel switching, grid resilience/storage, renewable electricity, and compact development patterns.
 - b. The addition of the following actions to encourage the Public Utility Commission to reassess rules related to net-metering project size and related to sound standards for wind facilities:

Statewide Renewable Energy Generation Regulation. Support changes in federal, state, and local policies to achieve the state of Vermont Comprehensive Energy Plan, Climate Action Plan goals, and to ensure burdens are shifted away from impacted communities.

- a. Support changes to the Renewable Energy Standard to prioritize in-state generation over electricity imports to avoid externalizing both environmental and societal costs and benefits.
- b. Increase the maximum size of net-metered projects and establish a tiered system for net-metering rates in which utilities pay a lower rate to facilities over a certain size (such as 500kW) to increase net-metering participation and reduce the energy burden for public and non-profit entities.
- c. Increase the maximum size of net-metered projects (currently 500kW) for public, and non-profit, and community ownership entities to encourage them to maximize development of renewable energy sources.
- d. Advocate for the Public Utility Commission to open the rule making process on Rule 5.700, Sound Levels from Wind Generation Facilities, to reassess existing sound standards with the intent of allowing all sizes and scales of wind energy generation possible in Chittenden County.

- 4. Equity Assessment:** This is a new standard that was added when the energy planning standards were revised in 2022. Text has added in key issues section of the 2024 ECOS Plan to acknowledge inequities that existing for low income, BIPOC, renters, and other marginalized populations in accessing new technology to reduce emissions and energy in the transportation, heating, and electric sectors. Additionally, an equity assessment was also added to the ECOS Plan supplement 6 to discuss CCRPC's efforts to center the ECOS Plan on equity and build organizational capacity to address systemic racism and inequities.

**For more
information
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