

## Regional Energy Planning Standards - Abridged

### Plan Adoption Requirement

1. Has your plan been duly adopted? (Y/N), Adoption date:
2. Is a copy of the plan (or adopted energy element/plan, along with underlying plan and memo addressing consistency of energy element/plan with other elements of underlying plan) attached to this checklist? (Y/N)

### Energy Element Requirement

3. **Does the plan contain an energy element, as described in 24 V.S.A. § 4348a(a)(3)?** (Y/N)

### Analysis & Targets Standards

4. **Does your plan's energy element contain an analysis of resources, needs, scarcities, costs, and problems within the region across all energy sectors (electric, thermal, transportation)?** (Y/N)
  - A. Does the plan estimate current energy use across transportation, heating, and electric sectors? (Y/N)
  - B. Does the plan establish 2025, 2035, and 2050 targets for thermal and electric efficiency improvements, and use of renewable energy for transportation, heating, and electricity? (Y/N)
  - C. Does the plan evaluate the amount of thermal-sector conservation, efficiency, and conversion to alternative heating fuels needed to achieve these targets? (Y/N)
  - D. Does the plan evaluate transportation system changes and land use strategies needed to achieve these targets? (Y/N)
  - E. Does the plan evaluate electric-sector conservation and efficiency needed to achieve these targets? (Y/N)
5. Has your region provided (or do you have a plan to provide) a breakout of the analyses and targets above to your municipalities? (Y/N)

### Pathways (Implementation Actions) Standards

6. **Does your plan's energy element contain a statement of policy on the conservation and efficient use of energy?** (Y/N)
  - A. Does the plan encourage conservation by individuals and organizations? (Y/N)
  - B. Does the plan promote efficient buildings? (Y/N)
  - C. Does the plan promote decreased use of fossil fuels for heating? (Y/N)
  - D. Other (Y, N, N/A)
7. Does your plan's energy element contain a statement of policy on reducing transportation energy demand and single-occupancy vehicle use, and encouraging use of renewable or lower-emission energy sources for transportation? (Y/N)
  - A. Does the plan encourage increased use of public transit? (Y/N)
  - B. Does the plan promote a shift away from single-occupancy vehicle trips through strategies appropriate to the region? (Y/N)
  - C. Does the plan promote a shift away from gas/diesel vehicles to electric or other non-fossil fuel transportation options through strategies appropriate to the region? (Y/N)

- D. Does the plan facilitate the development of walking and biking infrastructure through strategies appropriate to the region? (Y/N)
  - E. Other (Y, N, N/A)
8. **Does your plan's energy element contain a statement of policy on patterns and densities of land use likely to result in conservation of energy?** (Y/N)
- 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? (Y/N)
  - 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? (Y/N)
  - C. Other (Y, N, N/A)
9. **Does your plan's energy element contain a statement of policy on the development and siting of renewable energy resources?** (Y/N)
- A. Does the plan evaluate (estimates of or actual) generation from existing renewable energy generation in the region, and break this information out by municipality? (Y/N)
  - B. Does the plan analyze generation potential, through the mapping exercise (see *Mapping* standards, below), to determine potential from preferred and potentially suitable areas in the region, and break this information down by municipality? (Y/N)
  - C. Does the plan identify sufficient land in the region 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 *Mapping* exercise, below), accounting for the fact that land may not be available due to private property constraints, site-specific constraints, or grid-related constraints? (Y/N)
  - D. Does the plan ensure that any regional or local constraints (regionally or locally designated resources or critical resources, from 11B and 11C under *Mapping*, below) do not prohibit or have the effect of prohibiting the provision of sufficient renewable energy to meet state, regional, or municipal targets? (Y/N)
  - E. Does the plan include statements of policy to accompany maps (could include general siting guidelines), including statements of policy to accompany any preferred, potential, and unsuitable areas for siting generation (see 11 and 12 under *Mapping*, below)? (Y/N)
  - F. Does the plan maximize the potential for renewable generation on preferred locations? (such as the categories outlined under 11E in the *Mapping* standards, below)? (Y, N, N/A)
  - G. Other (Y, N, N/A)

### Mapping Standards

- 10. Does the plan identify and map existing electric generation sources? (Y/N)
- 11. **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? (Y/N)
  - A. Raw renewable potential analysis (wind and solar), using best available data layers (including LiDAR as appropriate). (Y/N)

B. Known constraints (signals likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources) to include: (Y/N)

- Vernal Pools (confirmed and unconfirmed layers)
- DEC River Corridors
- FEMA Floodways
- State-significant Natural Communities and Rare, Threatened, and Endangered Species
- National Wilderness Areas
- Class 1 and Class 2 Wetlands (VSWI and advisory layers)
- Regionally or Locally Identified Critical Resources

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: (Y/N)

- Agricultural Soils
- FEMA Special Flood Hazard Areas
- Protected Lands (State fee lands and private conservation lands)
- Act 250 Agricultural Soil Mitigation areas
- Deer Wintering Areas
- ANR's Vermont Conservation Design Highest Priority Forest Blocks (or Habitat Blocks 9 & 10, for plans that will be submitted for adoption at the regional level by March 1, 2017)
- Hydric Soils
- Regionally or Locally Identified Resources

D. Transmission and distribution resources and constraints, as well as transportation infrastructure. (Y/N)

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 (Y, N, N/A)

- i. Statewide preferred locations such as rooftops (and other structures), parking lots, previously developed sites, brownfields, gravel pits, quarries, and Superfund sites (Y, N, N/A)
- ii. Other potential locally preferred locations (Y, N, N/A)

**12. Does the plan identify areas that are unsuitable for siting renewable energy resources or particular categories or sizes of those resources? (Y/N)**

- 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)? (Y, N, N/A)
- B. Does the plan ensure that any regional or local constraints (regionally or locally designated resources or critical resources, from 11B-11C 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? (Y/N)

13. Does the plan allow for the siting in the region of all types of renewable generation technologies? (Y/N)
14. Has your region provided (or do you have a plan to provide) a breakout of the map product(s) above to your municipalities? (Y/N)