

1 **Reducing the Emissions that Drive Climate Change**

2 3 **Two drivers of our work: climate urgency and economic affordability**

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5 During the past two years, as the Climate Council developed this Climate Action Plan, we
6 witnessed -- and in many cases personally lived through -- a series of climate disasters in
7 Vermont, across the US, and globally – reminding us again and again that the human and
8 natural consequences of climate pollution are relentless and will continue to worsen. As UN
9 Secretary-General Antonio Guterres stated at the end of 2024,

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11 *“This is climate breakdown — in real time. We must exit this road to ruin — and we have no*
12 *time to lose.”¹*

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14 And Vermonters are still reeling from the high costs of climate disruption following
15 disastrous flooding events across the state in the summers of 2023 and 2024.

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17 In enacting the GWSA the General Assembly recognized, alongside many other states, cities,
18 and nations, that every government needs to accept a measure of responsibility to reduce
19 harmful climate emissions. This has been an enacted goal in Vermont since 2009, and a legal
20 obligation since 2020, and has guided the Council in the preparation of this Plan.

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22 A second main driver of the mitigation actions in this Plan is a concern for affordability. Of
23 course, we need to reduce emissions, but we need to do this while maximizing cost savings to
24 Vermonters and the Vermont economy.

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26 As we considered the costs of *climate action*, we have also considered the high costs to
27 Vermonters of *inaction*. Vermont’s fossil fuel bill has averaged over \$2.1 billion per year over
28 the last four years, in the same range as the State’s budget for K-12 education.² Since 2021,
29 the first full year after the GWSA was passed, Vermonters have paid over 8.5 billion to

¹ UN / Guterres [New Year Message](#), December 30, 2024.

² Vermont Department of Taxes and Joint Fiscal Office

30 import fossil fuels, mostly for transportation and heat. About 75% of that money has left the
31 State's economy.³

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33 The policies in this Plan are aimed at reducing Vermont's high annual fossil fuel bills by
34 financing greater efficiency in homes, vehicles and businesses. We emphasize that the
35 transition process should proceed at a pace that is achievable, that grows over time, and that
36 delivers long-term cost savings to rural and lower income Vermonters, while moderating
37 even short-term cost effects.

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39 **Getting the structure right: why one or more high-level policy drivers are**
40 **needed in the transportation and thermal sectors**

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42 There is a well-known principle in public policy known as the "tyranny of the status quo,"
43 describing how the beneficiaries of existing public policies and embedded market patterns make
44 it difficult to enact structural reforms.⁴ Vermont's continuing dependence on fossil fuels is an
45 example of this problem.

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47 Vermonters can rightly take pride in our historic initiatives to reduce energy burdens and fossil
48 fuel emissions. But progress has been piecemeal and too slow. To meet the commitments made in
49 the Paris Agreement and Vermont law, and to substantially reduce fossil fuel bills, high-level
50 policy drivers are needed.

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52 Across the globe, the most successful large-scale energy transitions have been driven by two
53 types of policies: (a) performance standards and (b) quantitative pollution caps. In this Chapter
54 we recommend that the legislature and administration continue to examine these options to
55 reduce emissions while creating a reliable revenue source to help Vermonters transition away
56 from fossil fuels.

³ In "2022 alone, nearly \$2 billion of the approximately \$2.6 billion in total fossil fuel spending in Vermont left the state economy." Annual [Progress Report for Vermont, 2023](#) pg.7. In 2023, \$1.7 billion spent on fossil fuel left the state. Energy Action Network, "[Annual Progress Report for Vermont, 2024](#)", p.23.

⁴ See, Milton Friedman and Rose D. Friedman, *Tyranny of the Status Quo* (New York: Harcourt Brace Jovanovich, 1984). Although Milton Friedman was a leading conservative economist, the book argues that the power of the status quo tends to block reforms whether viewed as moving in a "liberal" or "conservative" direction.

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58 Vermont has plenty of positive examples that such drivers can succeed over time. Think of the
59 decades of experience we have with wastewater cleanup, energy efficiency obligations, and
60 renewable electricity.

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62 We do not recommend adopting performance standards or carbon caps at any cost or regardless
63 of impacts on consumers. Instead, we recommend approaches that can double as consumer-
64 protection initiatives, helping Vermonters with lower and middle incomes to save money and
65 come out ahead. This aligns well with the just transition principles of the GWSA. For example,
66 a cap-and-invest program can provide fuel rebates to low- and moderate-income households,
67 while also supporting investments in low-emitting vehicles and heating systems.

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69 **Lowering climate pollution: a suite of recommended actions**

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71 While needed to drive change over time, an overarching policy is unlikely to succeed as a stand-
72 alone initiative. It needs to build upon and help coordinate a suite of supporting policies.

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74 To reduce climate pollution in a complex society, there is no single “silver bullet” solution. But
75 even within the category called “silver buckshot” there is a huge range in scale among different
76 sectors, markets, and opportunities.

77

78 In Vermont the two largest emitting sectors by far are transportation (39% of Vermont’s
79 emissions) and buildings (31%) and this Chapter focuses on reducing emissions and costs there.
80 Industrial processes (8%) and waste management (3%) are smaller-emitting sectors but are
81 covered as well. Agricultural emissions (16%) are addressed elsewhere.

82

83 Electric generation (3% of in-state emissions) contributes a small fraction of Vermont’s climate
84 pollution. This Chapter recommends continued progress on renewable electricity. Because
85 electricity is also crucial to lowering fossil emissions from vehicles and heating, we recommend
86 actions in the power sector that will accelerate electric solutions generally.

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88 The suite of recommendations in the 2025 CAP necessarily focuses on actions that we judge
89 should be taken by State agencies, including the Agencies of Natural Resources and
90 Transportation, the Department of Public Service and the PUC. Some, but not all, of these
91 recommendations would require legislative action.

92

93 We do not know when or if needed actions by the political branches will occur. Our task,
94 according to the GWSA, is to recommend actions by which Vermont *could do its share* to avoid the
95 worst consequences of climate disruption. We recommend doing so through strategies that are
96 realistic, affordable, and equitable. We conclude that the mitigation goals of the GWSA can be
97 met with a program of investments in buildings, vehicles, and heating that would also save
98 Vermonters billions of dollars in fossil fuel costs in coming decades.

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