1 H.96	5
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2	Introduced by	Representatives Stebbins of Burlington, Sibilia of Dover,
3		Anthony of Barre City, Arsenault of Williston, Austin of
4		Colchester, Bartholomew of Hartland, Black of Essex, Bluemle
5		of Burlington, Bongartz of Manchester, Brady of Williston,
6		Brown of Richmond, Burke of Brattleboro, Burrows of West
7		Windsor, Campbell of St. Johnsbury, Carroll of Bennington,
8		Casey of Montpelier, Chesnut-Tangerman of Middletown
9		Springs, Christie of Hartford, Cina of Burlington, Coffey of
10		Guilford, Cole of Hartford, Conlon of Cornwall, Cordes of
11		Lincoln, Dodge of Essex, Durfee of Shaftsbury, Elder of
12		Starksboro, Garofano of Essex, Goldman of Rockingham,
13		Headrick of Burlington, Holcombe of Norwich, Hooper of
14		Burlington, Houghton of Essex Junction, Hyman of South
15		Burlington, James of Manchester, Jerome of Brandon,
16		Kornheiser of Brattleboro, Krasnow of South Burlington,
17		LaLonde of South Burlington, Logan of Burlington, Long of
18		Newfane, McCann of Montpelier, McCarthy of St. Albans City,
19		McGill of Bridport, Mihaly of Calais, Mrowicki of Putney,
20		Nicoll of Ludlow, Notte of Rutland City, O'Brien of Tunbridge,
21		Ode of Burlington, Pajala of Londonderry, Patt of Worcester,

1	Pouech of Hinesburg, Rachelson of Burlington, Rice of Dorset,
2	Satcowitz of Randolph, Scheu of Middlebury, Sheldon of
3	Middlebury, Stevens of Waterbury, Stone of Burlington, Toleno
4	of Brattleboro, Torre of Moretown, Troiano of Stannard, and
5	Williams of Barre City
6	Referred to Committee on
7	Date:
8	Subject: Climate change; air pollution; renewable energy; heating; fuel
9	Statement of purpose of bill as introduced: This bill proposes to establish the
10	Clean Heat Standard to reduce Vermont's greenhouse gas emissions from the
11	thermal sector. The Clean Heat Standard shall be administered by the Public
12	Utility Commission with assistance from the Clean Heat Standard Technical
13	Advisory Group and the Equity Advisory Group.
14 15	An act relating to affordably meeting the mandated greenhouse gas reductions for the thermal sector through electrification, decarbonization,
16	efficiency, and weatherization measures
17	It is hereby enacted by the General Assembly of the State of Vermont:
18	Sec. 1. SHORT TITLE
19	This act shall be known and may be cited as the "Affordable Heat Act."
20	Sec. 2. FINDINGS
21	The General Assembly finds:

1	(1) All of the legislative findings made in 2020 Acts and Resolves
2	No. 153, Sec. 2, the Vermont Global Warming Solutions Act of 2020
3	(GWSA), remain true and are incorporated by reference here.
4	(2) Under the GWSA and 10 V.S.A. § 578, Vermont has a legal
5	obligation to reduce greenhouse gas emissions to specific levels by 2025, 2030
6	and 2050.
7	(3) The Vermont Climate Council was established under the GWSA and
8	was tasked with, among other things, recommending necessary legislation to
9	reduce greenhouse gas emissions. The Initial Vermont Climate Action Plan
10	calls for the General Assembly to adopt legislation authorizing the Public
11	Utility Commission to administer the Clean Heat Standard consistent with the
12	recommendations of the Energy Action Network's Clean Heat Standard
13	Working Group.
14	(4) As required by the GWSA, the Vermont Climate Council published
15	the Initial Vermont Climate Action Plan on December 1, 2021. As noted in
16	that plan, over one-third of Vermont's greenhouse gas emissions in 2018 came
17	from the thermal sector. In that year, approximately 72 percent of Vermont's
18	thermal energy use was fossil based, including 29 percent from the burning of
19	heating oil, 24 percent from fossil gas, and 19 percent from propane.
20	(5) To meet the greenhouse gas emission reductions required by the
21	GWSA, Vermont needs to transition away from its current carbon-intensive

1	building heating practices to lower-carbon alternatives. It also needs to do this
2	equitably, recognizing economic effects on energy users, especially energy-
3	burdened users; on the workforce currently providing these services; and on
4	the overall economy.
5	Sec. 3. 30 V.S.A. chapter 94 is added to read:
6	CHAPTER 94. CLEAN HEAT STANDARD
7	<u>§ 8121. INTENT</u>
8	It is the intent of the General Assembly that the Clean Heat Standard be
9	designed and implemented in a manner that achieves Vermont's thermal sector
10	greenhouse gas emissions reductions necessary to meet the requirements of
11	10 V.S.A. § 578(a), minimizes costs to customers, and recognizes that
12	affordable heating is essential for Vermonters. It shall minimize adverse
13	impacts to customers with low income and moderate income and those
14	households with the highest energy burdens.
15	§ 8122. CLEAN HEAT STANDARD
16	(a) The Clean Heat Standard is established. Under this program, obligated
17	parties shall reduce greenhouse gas emissions attributable to the Vermont
18	thermal sector by retiring required amounts of clean heat credits to meet the
19	thermal sector portion of the greenhouse gas emission reduction obligations of
20	the Global Warming Solutions Act.

1	(b) By rule or order, the Commission shall establish or adopt a system of
2	tradeable clean heat credits earned from the delivery of clean heat measures
3	that reduce greenhouse gas emissions.
4	(c) An obligated party may obtain the required amount of clean heat credits
5	through delivery of eligible clean heat measures, through contracts for delivery
6	of eligible clean heat measures, through the market purchase of clean heat
7	credits, or through delivery of eligible clean heat measures by a designated
8	statewide default delivery agent.
9	(d) The Public Utility Commission shall adopt rules and may issue orders
10	to implement the Clean Heat Standard program.
11	§ 8123. DEFINITIONS
12	As used in this chapter:
13	(1) "Carbon intensity value" means the amount of lifecycle greenhouse
14	gas emissions per unit of energy of fuel expressed in grams of carbon dioxide
15	equivalent per megajoule (gCO2e/MJ).
16	(2) "Clean heat credit" means a tradeable, nontangible commodity that
17	represents the amount of greenhouse gas reduction attributable to a clean heat
18	measure. The Commission shall establish a system of management for clean
19	heat credits pursuant to this chapter.
20	(3) "Clean heat measure" means fuel and technologies delivered and
21	installed to end-use customers in Vermont that reduce greenhouse gas

1	emissions. Clean neat measures snall not include switching from using one
2	fossil fuel to another fossil fuel. The Commission may adopt a list of
3	acceptable actions that qualify as clean heat measures.
4	(4) "Commission" means the Public Utility Commission.
5	(5) "Default delivery agent" means the entity designated by the
6	Commission to provide services that generate clean heat measures.
7	(6) "Energy burden" means the annual spending on thermal energy as a
8	percentage of household income.
9	(7) "Entity" means any individual, trustee, agency, partnership,
10	association, corporation, company, municipality, political subdivision, or any
11	other form of organization.
12	(8) "Fuel pathway" means a detailed description of all stages of fuel
13	production and use for any particular fuel, including feedstock generation or
14	extraction, production, transportation, distribution, and combustion of the fuel
15	by the consumer. The fuel pathway is used in the calculation the carbon
16	intensity value and lifecycle greenhouse gas emissions of each fuel.
17	(9) "Heating fuel" means fossil-based heating fuel, including oil,
18	propane, natural gas, coal, and kerosene.
19	(10) "Obligated party" means:
20	(A) a regulated natural gas utility serving customers in Vermont; or

1	(B) for other heating fuels, the entity that makes the first sale of the
2	heating fuel into or in the State for consumption within the State.
3	(11) "Thermal sector" has the same meaning as the "Residential,
4	Commercial and Industrial Fuel Use" sector as used in the Vermont
5	Greenhouse Gas Emissions Inventory and Forecast.
6	§ 8124. CLEAN HEAT STANDARD COMPLIANCE
7	(a) Required amounts.
8	(1) The Commission shall establish the number of clean heat credits that
9	each obligated party is required to retire each calendar year. The size of the
10	annual requirement shall be set at a pace sufficient for Vermont's thermal
11	sector to achieve lifecycle carbon dioxide equivalent (CO2e) emission
12	reductions consistent with the requirements of 10 V.S.A. § 578(a) expressed as
13	lifecycle greenhouse gas emissions pursuant to subsection 8125(f) of this title.
14	(2) Annual requirements shall be expressed as a percent of each
15	obligated party's contribution to the thermal sector's lifecycle CO2e emissions
16	in the previous year with the annual percentages being the same for all parties.
17	To ensure understanding among obligated parties, the Commission shall
18	publicly provide a description of the annual requirements in plain terms.
19	(3) To support the ability of the obligated parties to plan for the future,
20	the Commission shall establish and update annual clean heat credit
21	requirements for the next 10 years. Every three years, the Commission shall

21

1	extend the requirements three years; shall assess emission reductions actually
2	achieved in the thermal sector; and, if necessary, revise the pace of clean heat
3	credit requirements for future years to ensure that the thermal sector portion of
4	the emission reduction requirements of 10 V.S.A. § 578(a) for 2030 and 2050
5	will be achieved.
6	(4) The Commission may temporarily adjust the annual requirements for
7	good cause after notice and opportunity for public process. Good cause may
8	include a shortage of clean heat credits or undue adverse financial impacts on
9	particular customers or demographic segments.
10	(b) Annual registration.
11	(1) Each entity that sells heating fuel into or in Vermont shall register
12	annually with the Commission by an annual deadline established by the
13	Commission. The form and information required in the registration shall be
14	determined by the Commission and shall include all data necessary to establish
15	annual requirements under this chapter. The Commission shall use the
16	information provided in the registration to determine whether the entity shall
17	be considered an obligated party and the amount of its annual requirement.
18	(2) At a minimum, the Commission shall require registration
19	information to include legal name; doing business as name, if applicable;
20	municipality; state; type of heating fuel sold; and the volume of sales of

heating fuels into or in the State for final sale or consumption in the State in

1	the calendar year immediately preceding the calendar year in which the entity
2	is registering with the Commission.
3	(3) Each year, and not later than 30 days following the annual
4	registration deadline established by the Commission, the Commission shall
5	share complete registration information of obligated parties with the Agency of
6	Natural Resources and the Department of Public Service for purposes of
7	conducting the Vermont Greenhouse Gas Emissions Inventory and Forecast
8	and meeting the requirements of 10 V.S.A. § 591(b)(3).
9	(4) The Commission shall maintain, and update annually, a list of
10	registered entities on its website that contains the required registration
11	information, except that the public list shall not include heating fuel volumes
12	reported.
13	(5) For any entity not registered, the first registration form shall be due
14	30 days after the first sale of heating fuel to a location in Vermont.
15	(6) Clean heat requirements shall transfer to entities that acquire an
16	obligated party.
17	(7) Entities that cease to operate shall retain their clean heat requirement
18	for their final year of operation.
19	(c) Early action credits. Beginning on January 1, 2023, clean heat
20	measures that are installed and provide emission reductions are creditable and
21	shall count towards the future clean heat credit requirements of an obligated

I	party. Upon the establishment of the clean heat credit system, entities may
2	register credits for actions taken starting in 2023.
3	(d) Equitable distribution of clean heat measures.
4	(1) The Clean Heat Standard shall be designed and implemented to
5	enhance social equity by minimizing adverse impacts to customers with low
6	income and moderate income and those households with the highest energy
7	burdens. The design shall ensure all customers have an equitable opportunity
8	to participate in, and benefit from, clean heat measures regardless of heating
9	fuel used, income level, geographic location, or homeownership status.
10	(2) Of their annual requirement, each obligated party shall retire at least
11	16 percent from customers with low income and 16 percent from customers
12	with moderate income. At least one-half of these credits shall be from
13	installed clean heat measures that require capital investments in homes, have
14	measure lives of 10 years or more, and are estimated by the Technical
15	Advisory Group to lower annual energy bills. Examples shall include
16	weatherization improvements and installation of heat pumps, heat pump water
17	heaters, and advanced wood heating systems. The Commission may identify
18	additional measures that qualify as installed measures.
19	(3) The definitions of customer with low income and customer with
20	moderate income shall be set by the Commission in consultation with the
21	Equity Advisory Group and in alignment with other existing definitions.

1	(4) The Commission may consider frontloading the credit requirements
2	for customers with low income and moderate income so that the greatest
3	proportion of clean heat measures reach Vermonters with low income and
4	moderate income in the earlier years.
5	(5) In order to best serve customers with low income and moderate
6	income, the Commission shall have authority to change the percentages
7	established in subdivision (2) of this subsection and the criteria used to define
8	customers with low income and moderate income for good cause after notice
9	and opportunity for public process.
10	(6) In determining whether to exceed the minimum percentages of clean
11	heat measures that must be delivered to customers with low income and
12	moderate income, the Commission shall take into account participation in other
13	government-sponsored low-income and moderate-income weatherization
14	programs.
15	(7) A clean heat measure delivered to a customer qualifying for a
16	government-sponsored, low-income energy subsidy shall qualify for clean heat
17	credits required by subdivision (2) of this subsection.
18	(e) Credit banking. The Commission shall allow an obligated party that
19	has met its annual requirement in a given year to retain clean heat credits in
20	excess of that amount for future sale or application to the obligated party's

1	annual requirements in future compliance periods, as determined by the
2	Commission.
3	(f) Default delivery agent.
4	(1) An obligated party may meet its annual requirement through a
5	designated default delivery agent appointed by the Commission. The default
6	delivery agent shall deliver creditable clean heat measures to Vermont homes
7	and businesses when:
8	(A) an obligated party chooses to assign its annual requirement to the
9	default delivery agent; or
10	(B) an obligated party fails to produce or acquire its required amount
11	of clean heat credits as described in subdivision (g)(2) of this section.
12	(2) The Commission shall designate the default delivery agent. The
13	default delivery agent shall be a single statewide entity capable of providing a
14	variety of clean heat measures and contracted for a multiyear period through a
15	competitive procurement process. The entity selected as the default delivery
16	agent may also be a market participant but shall not be an obligated party.
17	(3) By rule or order, the Commission shall adopt annually the cost per
18	clean heat credit to be paid to the default delivery agent by an obligated party
19	that chooses this option. In adjusting the default delivery agent credit cost, the
20	Commission shall consider the default delivery agent's anticipated costs to
21	deliver clean heat measures and costs borne by customers, among other factors

1	determined by the Commission. Changes to the cost of credits shall take effect
2	not less than 180 days after adoption.
3	(4) All funds received from noncompliance payments pursuant to
4	subdivision (g)(2) of this section shall be used by the default delivery agent to
5	provide clean heat measures to customers with low income.
6	(g) Enforcement.
7	(1) The Commission shall have the authority to enforce the requirements
8	of this chapter and any rules or orders adopted to implement the provisions of
9	this chapter. The Commission may use its existing authority under this title.
10	As part of an enforcement order, the Commission may order penalties and
11	injunctive relief.
12	(2) The Commission may order an obligated party that fails to retire the
13	number of clean heat credits required in a given year, including the required
14	amounts from customers with low income and moderate income, to make a
15	noncompliance payment to the default delivery agent. The per-credit amount
16	of the noncompliance payment shall be three times the amount established by
17	the Commission under subsection (f) of this section for timely per-credit
18	payments to the default delivery agent.
19	(3) Any statements or other representations made by obligated parties
20	related to compliance with the Clean Heat Standard are subject to the

1	Commission's enforcement authority, including the power to investigate and
2	assess penalties, under this title.
3	(h) Records. The Commission shall establish requirements for the types of
4	records to be submitted by obligated parties, a record retention schedule for
5	required records, and a process for verification of records and data submitted in
6	compliance with the requirements of this chapter.
7	(i) Reports.
8	(1) As used in this subsection, "standing committees" means the House
9	Committee on Natural Resources, Fish, and Wildlife and the Senate
10	Committees on Finance and on Natural Resources and Energy.
11	(2) After the adoption of the rules implementing this chapter, the
12	Commission shall submit a written report to the standing committees detailing
13	the efforts undertaken to establish the Clean Heat Standard pursuant to this
14	chapter.
15	(3) On or before August 31 of each year following the year in which the
16	rules are first adopted under this section, the Commission shall submit to the
17	standing committees a written report detailing the implementation and
18	operation of the Clean Heat Standard. This report shall include an assessment
19	on the equitable adoption of clean heat measures required by subsection (d) of
20	this section, along with recommendations to increase participation for the
21	households with the highest energy burdens. The provisions of 2 V.S.A.

1	§ 20(d) (expiration of required reports) shall not apply to the report to be made
2	under this subsection.
3	§ 8125. TRADEABLE CLEAN HEAT CREDITS
4	(a) Credits established. By rule or order, the Commission shall establish or
5	adopt a system of tradeable clean heat credits that are earned by reducing
6	greenhouse gas emissions through the delivery of clean heat measures. While
7	credit denominations may be in simple terms for public understanding and ease
8	of use, the underlying value shall be based on units of carbon dioxide
9	equivalent (CO2e). The system shall provide a process for the recognition,
10	approval, and monitoring of the clean heat credits. The Department of Public
11	Service shall perform the verification of clean heat credit claims and submit
12	results of the verification and evaluation to the Commission annually.
13	(b) Credit values. Clean heat credits shall be based on the accurate and
14	verifiable lifecycle CO2e emission reductions in Vermont's thermal sector that
15	result from the delivery of eligible clean heat measures to end-use customer
16	locations into or in Vermont.
17	(1) For clean heat measures that are installed, credits will be created for
18	each year of the expected life of the installed measure. The annual value of the
19	clean heat credits for installed measures in each year shall be equal to the
20	lifecycle CO2e emissions of the fuel use that is avoided in a given year

1	because of the installation of the measure, minus the lifecycle emissions of the
2	fuel that is used instead in that year.
3	(2) For clean heat measures that are fuels, clean heat credits will be
4	created only for the year the fuel is delivered to the end-use customer. The
5	value of the clean heat credits for fuels shall be the lifecycle CO2e emissions
6	of the fuel use that is avoided, minus the lifecycle CO2e emissions of the fuel
7	that is used instead.
8	(c) List of eligible measures. Eligible clean heat measures delivered to or
9	installed in Vermont shall include:
10	(1) thermal energy efficiency improvements and weatherization;
11	(2) cold-climate air, ground source, and other heat pumps, including
12	district, network, grid, microgrid, and building geothermal systems;
13	(3) heat pump water heaters;
14	(4) controlled electric water heaters;
15	(5) solar hot water systems;
16	(6) electric appliances providing thermal end uses;
17	(7) renewable electricity systems paired with heat pumps or electric
18	appliances providing thermal end uses, including on-site and community-scale
19	renewable electricity systems;
20	(8) advanced wood heating;
21	(9) noncombustion or renewable energy-based district heating services;

1	(10) the supply of sustainably sourced biofuels; and
2	(11) the supply of green hydrogen.
3	(d) Renewable natural gas. For pipeline renewable natural gas and other
4	renewably generated natural gas substitutes to be eligible, an obligated party
5	shall purchase renewable natural gas and its associated renewable attributes
6	and demonstrate that it has secured a contractual pathway for the physical
7	delivery of the gas from the point of injection into the pipeline to the obligated
8	party's delivery system.
9	(e) Carbon intensity of fuels.
10	(1) To be eligible as a clean heat measure a liquid or gaseous clean heat
11	measure shall have a carbon intensity value as follows:
12	(A) below 80 in 2025;
13	(B) below 60 in 2030; and
14	(C) below 20 in 2050, provided the Commission may allow liquid
15	and gaseous clean heat measures with a carbon intensity value greater than 20
16	if excluding them would be impracticable based on the characteristics of
17	Vermont's buildings, the workforce available in Vermont to deliver lower
18	carbon intensity clean heat measures, cost, or the effective administration of
19	the Clean Heat Standard.

1	(2) The Commission shall establish and publish the rate at which carbon
2	intensity values shall decrease annually for liquid and gaseous clean heat
3	measures consistent with subdivision (1) of this section as follows:
4	(A) on or before January 1, 2025 for 2025 to 2030; and
5	(B) on or before January 1, 2030 for 2031 to 2050.
6	(3) For the purpose of this section, the carbon intensity values shall be
7	understood relative to No. 2 fuel oil delivered into or in Vermont in 2022
8	having a carbon intensity value of 100. Carbon intensity values shall be
9	measured based on fuel pathways.
10	(f) Emissions schedule.
11	(1) To promote certainty for obligated parties and clean heat providers,
12	the Commission shall, by rule or order, establish a schedule of lifecycle
13	emission rates for heating fuels, biofuels, electricity, and any other fuel used by
14	a clean heat measure. The schedule shall be based on transparent, verifiable,
15	and accurate emissions accounting adapting the Argonne National Laboratory
16	GREET Model, Intergovernmental Panel on Climate Change (IPCC)
17	modeling, or an alternative of comparable analytical rigor to fit the Vermont
18	thermal sector context, and the requirements of 10 V.S.A. § 578(a).
19	(2) For each fuel pathway, the schedule shall account for greenhouse gas
20	emissions from biogenic and geologic sources, including fugitive emissions.
21	In determining the baseline emission rates for clean heat measures that are

1	fuels, emissions baselines shall fully account for methane emissions reductions
2	or captures already occurring, or expected to occur, for each fuel pathway as a
3	result of local, State, or federal policies that have been enacted or adopted.
4	(3) The schedule may be amended based upon changes in technology or
5	evidence on emissions, but clean heat credits previously awarded or already
6	under contract to be produced shall not be adjusted retroactively.
7	(g) Review of consequences. The Commission shall periodically assess
8	harmful consequences that may arise in Vermont or elsewhere from the
9	implementation of clean heat measures and shall set standards or limits to
10	prevent those consequences. Such consequences may include deforestation,
11	conversion of grasslands, or the creation of new methane to meet fuel demand.
12	(h) Time stamp. Clean heat credits shall be "time stamped" for the year in
13	which the clean heat measure delivered emission reductions. For each
14	subsequent year during which the measure produces emission reductions,
15	credits shall be generated for that year. Only clean heat credits that have not
16	been retired shall be eligible to satisfy the current year obligation.
17	(i) Delivery in Vermont. Clean heat credits shall be earned only in
18	proportion to the deemed or measured thermal sector greenhouse gas emission
19	reductions achieved by a clean heat measure delivered in Vermont. Other
20	emissions offsets, wherever located, shall not be eligible measures.

(j) Credit engionity. All engiole clean neat measures that are delivered in
Vermont shall be eligible for clean heat credits and may be retired and count
towards an obligated party's emission reduction obligations, regardless of who
creates or delivers them and regardless of whether their creation or delivery
was required by other State policies and programs. This includes individual
initiatives, emission reductions resulting from the State's energy efficiency
programs, the low-income weatherization program, and the Renewable Energy
Standard Tier 3 program.
(k) Credit registration.
(1) The Commission shall create an administrative system to register,
sell, transfer, and trade credits to obligated parties. The Commission may hire
a third-party consultant to evaluate, develop, implement, maintain, and support
a database or other means for tracking clean heat credits and compliance with
the annual requirements of obligated parties.
(2) The system shall require entities to submit the following information
to receive the credit: the location of the clean heat measure, whether the
customer or tenant has a low or moderate income, the type of property where
the clean heat measure was installed or sold, the type of clean heat measure,
and any other information as required by the Commission.
(l) Greenhouse Gas Emissions Inventory and Forecast. Nothing in this
chapter shall limit the authority of the Secretary of Natural Resources to

1	compile and publish the Vermont Greenhouse Gas Emissions Inventory and
2	Forecast in accordance with 10 V.S.A. § 582.
3	§ 8126. CLEAN HEAT STANDARD TECHNICAL ADVISORY GROUP
4	(a) The Commission shall establish the Clean Heat Standard Technical
5	Advisory Group (TAG) to assist the Commission in the ongoing management
6	of the Clean Heat Standard. Its duties shall include:
7	(1) establishing and revising the lifecycle carbon dioxide equivalent
8	(CO2e) emissions accounting methodology to be used to determine each
9	obligated party's annual requirement pursuant to subdivision 8124(a)(2) of this
10	<u>chapter;</u>
11	(2) establishing and revising the clean heat credit value for different
12	clean heat measures;
13	(3) periodically assessing and reporting to the Commission on the
14	sustainability of the production of clean heat measures by considering factors
15	including greenhouse gas emissions; carbon sequestration and storage; human
16	health; land use changes; ecological and biodiversity impacts; groundwater and
17	surface water impacts; air, water, and soil pollution; and impacts on food costs
18	(4) setting the expected life length of clean heat measures for the
19	purpose of calculating credit amounts;
20	(5) establishing credit values for each year over a clean heat measure's
21	expected life, including adjustments to account for increasing interactions

1	between clean heat measures over time so as to not double-count emission
2	reductions;
3	(6) facilitating the program's coordination with other energy programs;
4	(7) calculating the impact of the cost of clean heat credits and the cost
5	savings associated with delivered clean heat measures on per-unit heating fuel
6	prices;
7	(8) coordinating with the Agency of Natural Resources to ensure that
8	greenhouse gas emissions reductions achieved in another sector through the
9	implementation of the Clean Heat Standard are not double counted in the
10	Vermont Greenhouse Gas Emissions Inventory and Forecast;
11	(9) advising the Commission on the periodic assessment and revision
12	requirement established in subdivision 8124(a)(3) of this chapter; and
13	(10) any other matters referred to the TAG by the Commission.
14	(b) Members of the TAG shall be appointed by the Commission and shall
15	include the Department of Public Service, the Agency of Natural Resources,
16	and parties who have, or whose representatives have, expertise in one or more
17	of the following areas: technical and analytical expertise in measuring
18	lifecycle greenhouse gas emissions; energy modeling and data analysis, clean
19	heat measures and energy technologies, sustainability and non-greenhouse gas
20	emissions strategies designed to reduce and avoid impacts to the environment,
21	delivery of heating fuels, and climate change mitigation policy and law. The

1	Commission shall accept and review motions to join the TAG from interested
2	parties who have, or whose representatives have, expertise in one or more of
3	the areas listed in this subsection. Members who are not otherwise
4	compensated by their employer shall be entitled to per diem compensation and
5	reimbursement for expenses under 32 V.S.A. § 1010.
6	(c) The Commission shall hire a third-party consultant responsible for
7	developing clean heat measure characterizations and relevant assumptions,
8	including CO2e lifecycle emissions analyses. The TAG shall provide input
9	and feedback on the consultant's work.
10	(d) Emission analyses and associated assumptions developed by the
11	consultant shall be reviewed and approved annually by the Commission. In
12	reviewing the consultant's work, the Commission shall provide a public
13	comment period on the work. The Commission may approve or adjust the
14	consultant's work as it deems necessary based on its review and the public
15	comments received.
16	§ 8127. CLEAN HEAT STANDARD EQUITY ADVISORY GROUP
17	(a) The Commission shall establish the Clean Heat Standard Equity
18	Advisory Group to assist the Commission in developing and implementing the
19	Clean Heat Standard in a manner that ensures an equitable share of clean heat
20	measures are delivered to Vermonters with low income and moderate income
21	and that Vermonters with low income and moderate income who are not early

1	participants in clean heat measures are not negatively impacted in their ability
2	to afford heating fuel. Its duties shall include:
3	(1) providing feedback to the Commission on strategies for engaging
4	Vermonters with low income and moderate income in the public process for
5	developing the Clean Heat Standard program;
6	(2) supporting the Commission in assessing whether customers are
7	equitably served by clean heat measures and how to increase equity;
8	(3) identifying actions needed to provide customers with low income
9	and moderate income with better service and to mitigate the fuel price impacts
10	calculated in section 8126 of this title;
11	(4) assisting the Commission in defining customers with low income
12	and moderate income;
13	(5) recommending any additional programs, incentives, or funding
14	needed to support customers with low income and moderate income and
15	organizations that provide social services to Vermonters in affording heating
16	fuel and other heating expenses;
17	(6) providing feedback to the Commission on the impact of the Clean
18	Heat Standard on the experience of Vermonters with low income and moderate
19	income; and

1	(7) providing information to the Commission on the challenges renters
2	face in equitably accessing clean heat measures and recommendations to
3	ensure that renters have equitable access to clean heat measures.
4	(b) The Clean Heat Standard Equity Advisory Group shall consist of up to
5	10 members appointed by the Commission and at a minimum shall include at
6	least one representative from each of the following groups: the Department of
7	Public Service; the Department for Children and Families' Office of Economic
8	Opportunity; community action agencies; Efficiency Vermont; individuals
9	with socioeconomically, racially, and geographically diverse backgrounds;
10	renters and rental property owners; and a member of the Vermont Fuel Dealers
11	Association. Members who are not otherwise compensated by their employer
12	shall be entitled to per diem compensation and reimbursement for expenses
13	under 32 V.S.A. § 1010.
14	§ 8128. CONSUMER PROTECTION
15	(a) Entities that provide clean heat measures shall not unfairly induce
16	customers to install or adopt clean heat measures. Entities shall not engage in
17	predatory practices to generate clean heat measures.
18	(b) On or before January 15, 2026, the Department of Public Service, in
19	consultation with the Attorney General's Office, shall file proposed rules with
20	the Secretary of State's Office that define how clean heat measure providers

1	shall act, how customers will be protected from fraudulent and predatory
2	actions, and what remedies will be available.
3	§ 8129. SEVERABILITY
4	If any provision of this chapter or its application to any person or
5	circumstance is held invalid or in violation of the Constitution or laws of the
6	United States or in violation of the Constitution or laws of Vermont, the
7	invalidity or the violation shall not affect other provisions of this chapter that
8	can be given effect without the invalid provision or application, and to this end,
9	the provisions of this chapter are severable.
10	Sec. 4. 10 V.S.A. § 582 is amended to read:
11	§ 582. GREENHOUSE GAS INVENTORIES; REGISTRY
12	(a) Inventory and forecasting. The Secretary shall work, in conjunction
13	with other states or a regional consortium, to establish a periodic and consistent
14	inventory of greenhouse gas emissions. The Secretary shall publish the
15	Vermont Greenhouse Gas Emission Inventory and Forecast by no not later
16	than June 1, 2010, and updates shall be published annually until 2028, until a
17	regional or national inventory and registry program is established in which
18	Vermont participates, or until the federal National Emissions Inventory
19	includes mandatory greenhouse gas reporting. The Secretary of Natural
20	Resources shall include a sensitivity analysis in the Vermont Greenhouse Gas

1	Emissions Inventory and Forecast that measures the lifecycle greenhouse gas
2	emissions of liquid, gaseous, and solid biogenic fuels combusted in Vermont.
3	* * *
4	Sec. 5. PUBLIC UTILITY COMMISSION IMPLEMENTATION
5	(a) Commencement.
6	(1) On or before August 31, 2023, the Public Utility Commission shall
7	commence a proceeding to implement Sec. 3 (Clean Heat Standard) of this act
8	(2) On or before October 1, 2024, the Commission shall submit to the
9	General Assembly an interim report on the development of the Clean Heat
10	Standard.
11	(b) Facilitator. On or before October 1, 2023, the Commission shall hire a
12	third-party consultant to design and conduct public engagement. The
13	Commission may use funds appropriated under this act on hiring the
14	consultant.
15	(c) Public engagement process. Before commencing rulemaking, the
16	Commission shall use the forms of public engagement described in this
17	subsection to inform the design and implementation of the Clean Heat
18	Standard. Any failure by the Commission to meet the specific procedural
19	requirements of this section shall not affect the validity of the Commission's
20	actions.

1	(1) The Commission shall hold at least six public meetings, and of those
2	meetings, at least three shall allow members of the public to participate in
3	person and remotely. The meetings shall be held in at least six different
4	geographically diverse counties of the State. The meetings shall be recorded
5	and publicly posted on the Commission's website.
6	(2) Of the six meetings, the Commission, with the assistance of the
7	consultant, shall also use deliberative polling or another method of receiving
8	focused feedback from specific constituents during at least two meetings. The
9	facilitator shall assist the Commission in developing a format for soliciting
10	feedback at the meetings. Each of these meetings shall focus on seeking input
11	from a specific group, which may include heating fuel dealers; customers with
12	low income, moderate income, and fixed income and their advocates; and
13	customers who use large amounts of heating fuel.
14	(3) The Commission shall hold at least two workshops to solicit the
15	input of potentially affected parties. To facilitate participation, the
16	Commission shall provide notice of the workshops on its website, shall publish
17	the notice once in a newspaper of general circulation in each county of
18	Vermont, and shall also provide direct notice to any person that requests direct
19	notice or to whom the Commission may consider direct notice appropriate.
20	The Commission also shall provide an opportunity for submission of written
21	comments, which the notice shall include.

1	(d) Advertising. The Commission shall use funding appropriated in this act
2	on advertising the public meetings in order to provide notice to a wide variety
3	of segments of the public.
4	(e) Draft proposed rules. The Commission shall publish draft proposed
5	rules publicly and provide notice of it to the stakeholders who registered their
6	names and e-mail addresses with the Commission during the workshops. The
7	Commission shall provide a 30-day comment period on the draft and accept
8	written comments from the public and stakeholders. The Commission shall
9	incorporate necessary changes in response to the public comments before filing
10	the proposed rules with the Secretary of State and the Legislative Committee
11	on Administrative Rules.
12	(f) Final rules. On or before January 15, 2025, the Commission shall
13	submit to the General Assembly final proposed rules to implement the Clean
14	Heat Standard. The Commission shall not file the final proposed rules with the
15	Secretary of State until June 1, 2025.
16	(g) Consultant. On or before January 15, 2024, the Commission shall
17	contract with a consultant to assist with implementation of 30 V.S.A. § 8125
18	(clean heat credits).
19	(h) Funding. On or before January 15, 2024, the Commission shall report
20	to the General Assembly on suggested revenue streams that may be used or

1	created to fund the Commission's administration of the Clean Heat Standard
2	program.
3	(i) Check-back reports. On or before February 15, 2024 and January 15,
4	2025, the Commission shall submit a written report to and be available to
5	provide oral testimony to the House Committee on Natural Resources, Fish,
6	and Wildlife and the Senate Committees on Finance and on Natural Resources
7	and Energy detailing the efforts undertaken to establish the Clean Heat
8	Standard. The reports shall include, to the extent available, estimates of the
9	impact of the Clean Heat Standard on customers, including impacts to
10	customer rates and fuel bills for participating and nonparticipating customers,
11	net impacts on total spending on energy for thermal sector end uses, fossil fuel
12	reductions, greenhouse gas emission reductions, and, if possible, impacts on
13	economic activity and employment. The modeled impacts shall estimate high-,
14	medium-, and low-price impacts. The reports shall recommend any legislative
15	action needed to address enforcement of the Clean Heat Standard.
16	Sec. 6. PUBLIC UTILITY COMMISSION AND DEPARTMENT OF
17	PUBLIC SERVICE POSITIONS; APPROPRIATION
18	(a) The following new positions are created in the Public Utility
19	Commission for the purpose of carrying out this act:
20	(1) one permanent exempt Staff Attorney 3;
21	(2) one permanent exempt Analyst; and

1	(3) one limited-service exempt Analyst.
2	(b) The sum of \$800,000.00 is appropriated to the Public Utility
3	Commission from the General Fund in fiscal year 2023 for the positions
4	established in subsection (a) of this section; for the consultant required by
5	Sec. 4 of this act; and for additional operating costs required to implement the
6	Clean Heat Standard, including marketing and public outreach for Sec. 4 of
7	this act.
8	(c) The following new positions are created in the Department of Public
9	Service for the purpose of carrying out this act:
10	(1) one permanent exempt Staff Attorney; and
11	(2) one permanent classified Program Analyst.
12	(d) The sum of \$400,000.00 is appropriated to the Department of Public
13	Service from the General Fund in fiscal year 2023 for the positions established
14	in subsection (c) of this section, to retain consultants that may be required to
15	support verification and evaluation required by 30 V.S.A. § 8125(a), and for
16	associated operating costs related to the implementation of the Clean Heat
17	Standard.
18	Sec. 7. SECTORAL PROPORTIONALITY REPORT
19	(a)(1) On or before November 15, 2024, the Agency of Natural Resources
20	and the Department of Public Service, in consultation with the Agencies of
21	Agriculture, Food and Markets, of Commerce and Community Development,

1	and of Transportation and the Vermont Climate Council, shall report to the
2	House Committees on Energy and Technology and on Natural Resources, Fish,
3	and Wildlife and to the Senate Committees on Finance and on Natural
4	Resources and Energy regarding:
5	(A) the role of individual economic sectors in achieving the
6	greenhouse gas emission reduction requirements pursuant to 10 V.S.A.
7	<u>§ 578(a);</u>
8	(B) each economic sector's proportional contribution to greenhouse
9	gas emissions in Vermont as inventoried pursuant to 10 V.S.A. § 582; and
10	(C) the extent to which cost-effective, feasible, and cobeneficial
11	reasonably available greenhouse gas emission reduction measures are available
12	commensurate with each sector's proportional contribution and emissions
13	reduction impact.
14	(2) The report shall consider the analyses performed in support of the
15	December 1, 2021 Climate Action Plan and the 2022 Comprehensive Energy
16	Plan. The report shall consider additional analyses as necessary.
17	(b) The report shall make recommendations to the General Assembly to
18	amend 10 V.S.A. § 578 to include sector-specific greenhouse emissions
19	reduction requirements and, as necessary, subsector-specific greenhouse
20	emission reduction requirements for the purposes of informing and
21	appropriately scaling the implementation of programs and policies that achieve

1	greenhouse gas emission reductions. As used in this section, "sector" means
2	those established in the annual Vermont Greenhouse Gas Emissions Inventory
3	and Forecast produced by the Agency of Natural Resources pursuant to
4	10 V.S.A. § 582. The recommendations shall be made in consideration of the
5	factors established in 10 V.S.A. § 592(d).
6	(c) The Agency of Natural Resources and the Department of Public
7	Service, in consultation with the Vermont Climate Council, shall submit an
8	updated report and any corresponding recommendations in accordance with
9	this section on July 1 of a year immediately preceding a year in which an
10	updated Climate Action Plan is adopted pursuant to 10 V.S.A. § 592(a).
11	Sec. 8. EFFECTIVE DATE
12	This act shall take effect on passage.