

Clean Energy Development Fund Advanced Wood Heat Incentive Programs Impact

20-Year Program Impact

Since 2015, the Clean Energy Development Fund (CEDF) has provided five Advanced Wood Heat (AWH) incentive programs for Vermont's residents, businesses, and institutions:

- Windham Wood Heat Initiative (2016-2019)
- Clean Heat Community Challenge (2016)
- Windham County Renewable Energy Grants (2017-2019)
- Northern Border Regional Commission grants (2017-2018)
- Small-Scale Renewable Energy Incentive Program (SSREIP, 2014-2019)



\$10 million
retained in
VT's
economy



10 million
gallons of
heating oil
displaced



55,000 tons
of CO₂
equivalent
avoided

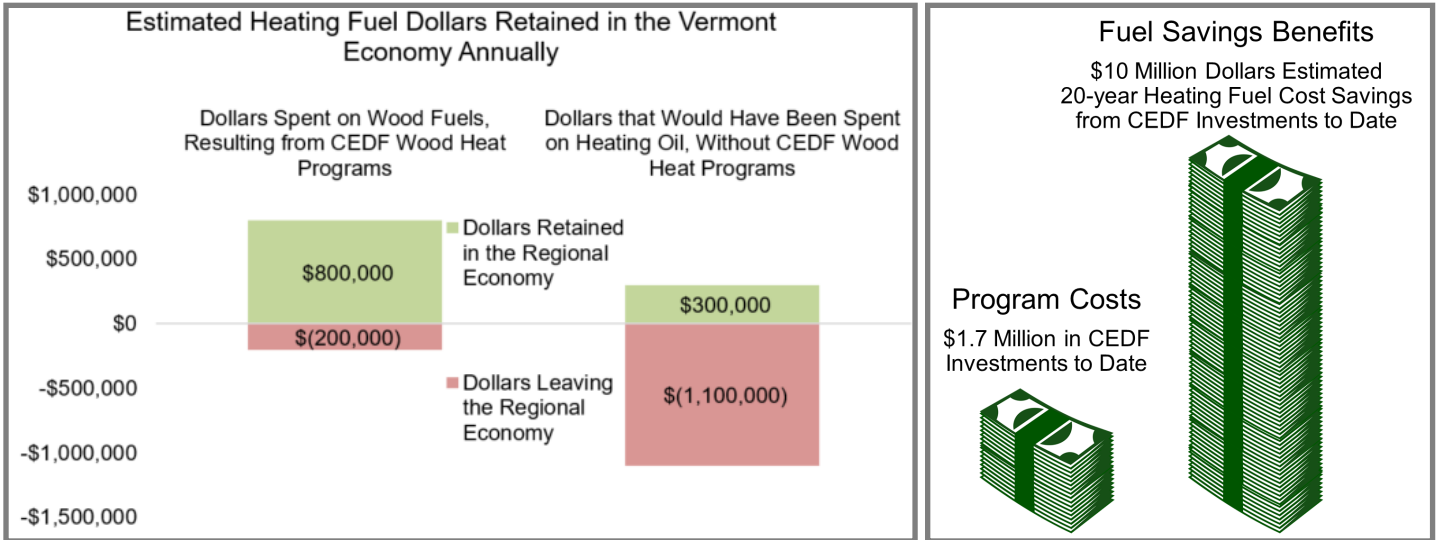
CEDF incentives have been vital to overcoming the key market adoption barrier of first costs of AWH projects. Without CEDF support, the economic and environmental benefits of AWH installations would likely not have been realized. Program impacts are summarized below.

CEDF Advanced Wood Heat Estimated Programs Impact in Vermont

Note: Totals may not add up due to rounding

	Residential Market	Commercial/ Institutional Market	Total
Number of new systems installed through the AWH programs	122	57	179
Heating Oil Equivalent Displacement			
Annually (gallons)	120,800	367,500	488,200
Annually per system (gallons)	990	6,450	N/A
20-year cumulative displacement (gallons)	2.4 million	7.3 million	9.8 million
Estimated Net Carbon Savings			
Annually (tons CO ₂ e)	680	2,060	2,750
20-year cumulative savings (tons CO ₂ e)	13,600	41,300	54,900
Additional Wood Fuel Demand Created			
Annually (tons of pellet equivalent)	980	3,000	3,980
Funds Invested and Cost Savings			
CEDF funds invested to date	\$378,022	\$1,350,198	\$1,728,220
Building owner funds invested (estimated)	\$1,921,000	\$5,002,000	\$6,923,000
Annual fuel cost savings (estimated)	\$121,000	\$369,000	\$490,000
20-year fuel cost savings (estimated)	\$2.4 million	\$7.4 million	\$9.8 million
Investment leverage ratio (public to private)	1:5	1:4	1:4

The various CEDF wood heat programs have stimulated economic development in Vermont while also reducing net greenhouse gas emissions. CEDF program investments in Advanced Wood Heating to date have yielded fuel savings benefits about 6 times greater than the program costs.



Each AWH system installed will continue to displace oil annually into the future. The cumulative impact keeps growing over time, because for every additional AWH installation, the annual amount of heating oil displaced can be added to fuel savings from systems already installed. If the program funding ends and there are no further AWH installations after 2019, in 10 years from now the cumulative amount of oil displaced will be only half of what it would be if the CEDF programs are able to continue incentivizing more AWH installations.

Cumulative Gallons of Oil Equivalent Displaced by CEDF Programs

