Town of East Montpelier, Vermont
Advanced Wood Heat Boiler Expansion Initiative

Four-Phase Simultaneous Grant Strategy · FS-1500-0050 (REV. 03/2026) · FY 2026

Four concurrent USDA Wood Innovations applications · One SAM.gov registration · $1,200,000 federal request · $1,020,000 cooperator match · $2,220,000 total project value

Why simultaneous — three compounding benefits

Lower installation costs	Compressed administration	Energy independence now
Lyme Green Heat mobilizes once for all 33 installations across four areas — reducing per-boiler logistics and mobilization costs compared to four separate grant cycles.	One project administrator, one 24-month grant period, one reporting cycle, and one set of sub-award templates covers all 33 installations instead of four complete administrative cycles over 8–10 years.	Simultaneous conversion means all four areas of East Montpelier achieve fossil fuel independence in one grant cycle — displacing an estimated 28,599–42,885 gallons of heating oil per year across the full municipality.

The four geographic areas and cooperator types

Phase 1	North Montpelier Village & Surrounds	Residential
Residential properties in the oldest settlement cluster of East Montpelier — a dense residential area with high energy burden. First cluster installed, establishing the program template.	• 10 residential boiler systems • $255,000 FS equipment + $255,000 coop match + $45,000 indirect = $555,000 total • $25,000 FS + $25,000 coop per installation • 60–80 tons/yr annual pellet demand • 7,150–9,530 gal/yr heating oil displaced • $39,110–$52,130/yr cooperator fuel savings	

Phase 2	East Montpelier Center & Surrounds	Residential / Mixed-Use
Residential and mixed-use properties at the civic core of East Montpelier — home to Town Offices and the road network connecting working farms to the broader municipality. Closest area to Fontaine Millworks.	• 10 residential boiler systems • $255,000 FS equipment + $255,000 coop match + $45,000 indirect = $555,000 total • $25,000 FS + $25,000 coop per installation • 60–80 tons/yr annual pellet demand • 7,150–9,530 gal/yr heating oil displaced • $39,110–$52,130/yr cooperator fuel savings	

Phase 3	East Montpelier Village & Surrounds	Residential
Residential properties in East Montpelier Village — the third distinct settlement node — completing full residential coverage of the town's dispersed village geography and proving the model replicable statewide.	• 10 residential boiler systems • $255,000 FS equipment + $255,000 coop match + $45,000 indirect = $555,000 total • $25,000 FS + $25,000 coop per installation • 60–80 tons/yr annual pellet demand • 7,150–9,530 gal/yr heating oil displaced • $39,110–$52,130/yr cooperator fuel savings	

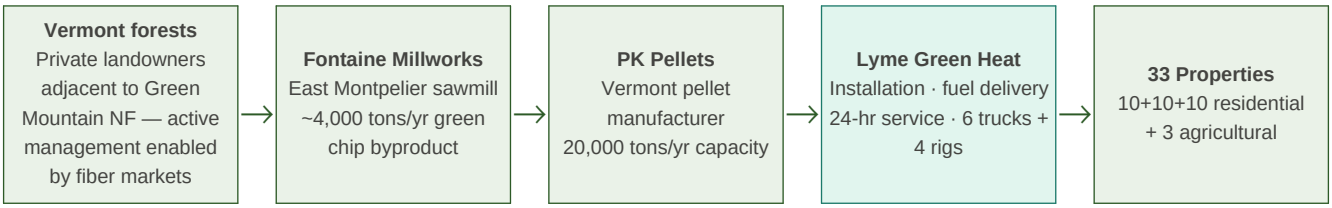
Phase 4	Agricultural Properties Farms & Nurseries	Agricultural (Farm A, B, C)
Three working farms and nursery operations (Farm A, Farm B, Farm C) with commercial-scale boiler systems sized for barn, greenhouse, and processing facility loads. Each agricultural unit equals the pellet demand of 3–5 residential boilers.	• 3 commercial agricultural boiler systems • $255,000 FS equipment + $255,000 coop match + $45,000 indirect = $555,000 total • $42,500 FS + $42,500 coop per farm ($85,000 per installation) • 60–120 tons/yr annual pellet demand • 7,149–14,295 gal/yr heating oil displaced • $39,105–$78,195/yr cooperator fuel savings	

Combined four-phase program totals

Metric	Phases 1–3 (Residential × 3 each)	Phase 4 (Agricultural)	All 4 Phases Combined
Installations	10 per phase (30 total)	3 farms	**33 total**
FS equipment funds	$255,000 per phase	$255,000	**$1,020,000**
Cooperator match	$255,000 per phase	$255,000	**$1,020,000**
Indirect (15% of FS total)	$45,000 per phase	$45,000	**$180,000**

Metric	Phases 1–3 (Residential × 3 each)	Phase 4 (Agricultural)	All 4 Phases Combined
Total FS request	$300,000 per phase	$300,000	**$1,200,000**
Total project value	$555,000 per phase	$555,000	**$2,220,000**
Annual pellet demand	60–80 tons/yr per phase	60–120 tons/yr	**240–360 tons/yr**
Annual oil displaced	7,150–9,530 gal/yr per phase	7,149–14,295 gal/yr	**28,599–42,885 gal/yr**
Annual cooperator savings	$39,110–$52,130/yr per phase	$39,105–$78,195/yr	**$156,435–$234,585/yr**

Shared supply chain — all four phases draw on the same Vermont partners



Verified calculation sources — all numbers in this document are derived from the following cited authorities:

• Heating oil price: $5.47/gallon — NH Department of Energy, Current Average Price #2 Fuel Oil. Source: energy.nh.gov/energy-information/nh-fuel-prices (updated monthly under U.S. DOE State Heating Oil and Propane Program / SHOPP).

• Pellet energy content: 16,500,000 BTU/ton; #2 oil energy content: 138,500 BTU/gallon; 1 ton pellets ≈ 120 gallons #2 oil — NH Department of Energy Wood Pellet Prices page. Source: energy.nh.gov/energy-information/nh-fuel-prices/wood-pellet-prices.

• New England average home annual heat load: 91.2 MMBtu/yr = 658 gallons fuel oil = 5.53 tons wood pellets — NH DOE Wood Pellet Prices page, citing EIA Residential Energy Consumption Survey (RECS). Source: energy.nh.gov/energy-information/nh-fuel-prices/wood-pellet-prices.

• Residential pellet demand (6–8 tons/yr): conservative above-average estimate for older Vermont homes, above the NH DOE/EIA NE average of 5.53 tons/yr.

• Agricultural pellet demand (20–40 tons/yr): USDA Rural Energy for America Program (REAP) 2023 project data; Vermont Clean Energy Development Fund biomass thermal case studies.

• Pellet boiler efficiency (87–91%): EPA Certified Wood Heater Database (epa.gov/burnwise); manufacturer documentation provided in Appendix I.