

CLCPA Overview & NYSERDA's NYS Clean Heat Market Development Plan



NYSERDA

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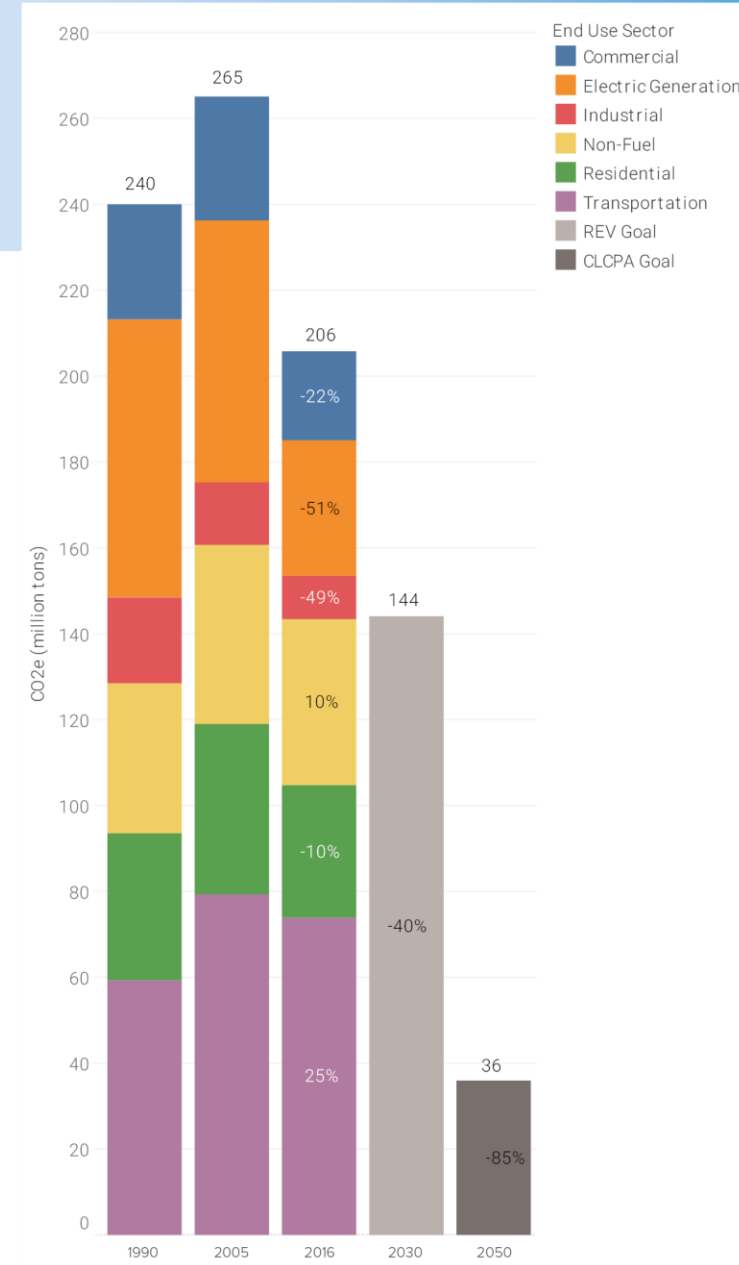
Climate Leadership and Community Protection Act (CLCPA) – Overview

- > Most aggressive greenhouse gas reduction goals of any major economy: 40% by 2030, 85% by 2050
- > 70% renewable energy by 2030, 100% zero-carbon electricity by 2040
- > Path to carbon neutrality
- > Codifies clean energy targets
- > Commitments to environmental justice, disadvantaged communities, and just transition
- > First statutory Climate Action Council

NYS GHG Emissions

New York State GHG Emissions by Source Category, 2016 (MMtCO₂e)

> 13% reduction in total New York State
GHG emissions since 1990



CLCPA by the Numbers, Targets Codified into Law

**Carbon neutral economy, mandating at least an
85% reduction in emissions below 1990 levels**

40% reduction in emissions by 2030

100% zero-carbon electricity by 2040

70% renewable electricity by 2030

9,000 MW of offshore wind by 2035

6,000 MW of distributed solar by 2025

3,000 MW of energy storage by 2030

185 TBtu on-site energy savings by 2025

Building Electrification Must be a Focus



Electric heat pumps deliver **greater efficiency** and **emission reduction** as electricity becomes cleaner

Deployment must **scale aggressively** to provide these benefits

Technology and business model **innovations** will be key to cost reduction

NYS Clean Heat – Case-18-M-0084

- **\$454M** in Statewide Heat Pump Incentive Program
 - ❑ Consumer incentives
 - ❑ Led by: NYS Utilities
 - ❑ [NYS Clean Heat Statewide Heat Pump Program Implementation Plan](#)
 - ❑ [NYS Clean Heat Statewide Heat Pump Program Manual](#)
- **\$230M** in Market Development Plan
 - ❑ Initiatives to develop the NYS heat pump market
 - ❑ Support the goals of the Statewide Heat Pump Incentive program
 - ❑ Led by: NYSERDA
 - ❑ Plan details: Appendix 1 in the Implementation Plan

NYS Clean Heat Market Development Plan - \$230M Building Electrification Investment (2020 – 2025)

Initiatives funded through the Heat Pumps "Phase 2" Investment Plan			
Critical Market Need	Total Funding	Initiative	Budget
TRAIN AND DEVELOP THE NEEDED CLEAN HEATING AND BUILDING ELECTRIFICATION WORKFORCE	\$38.2	WORKFORCE DEVELOPMENT	\$38.2
BUILD CONSUMER DEMAND AND MARKET CONFIDENCE AND REDUCE CUSTOMER ACQUISITION COSTS	\$60.9	MARKETING	\$19.2
		COMMUNITY CAMPAIGNS	\$10.0 ^{1a}
		CRITICAL TOOLS	\$4.0
		TECHNICAL ASSISTANCE	\$27.7
DRIVE PERFORMANCE IMPROVEMENTS, REDUCE COST, AND DELIVER NEW ECONOMIC SOLUTIONS THROUGH TECHNOLOGY INNOVATION AND DEMONSTRATIONS	\$60.0	CLEAN THERMAL DISTRICT SYSTEMS	\$15.0
		HVAC TECHNOLOGY CHALLENGES	\$15.0
		EMPIRE BUILDING CHALLENGE	\$15.0
		MULTIFAMILY BUILDING DEMONSTRATIONS	\$5.0
		COST REDUCTION STRATEGIES	\$10.0
MAKE ELECTRIFICATION SOLUTIONS AVAILABLE FOR LMI CONSUMERS	\$31.0	LMI	\$31.0 ^{1b}
MAKE PRODUCTS AVAILABLE WHEN AND WHERE CONSUMERS NEED THEM BY BUILDING THE CLEAN HEAT SUPPLY CHAIN	\$12.0	SUPPLY CHAIN	\$12.0
MINIMIZE WINTER ELECTRICAL PEAK BY INVESTING IN DEMAND REDUCING "HEAT-PUMP READY" SOLUTIONS	\$26.5	COMFORT HOME	\$26.5
DEVELOP A LONG-TERM BUILDING ELECTRIFICATION ROADMAP TO GUIDE THE TRANSFORMATION OF HOW NEW YORKER'S HEAT AND COOL THEIR BUILDINGS	\$1.0	BUILDING ELECTRIFICATION ROADMAP	\$1.0
Sub-Total (representing the Heat Pump Phase 2 sub-initiatives in this Investment Plan)			\$98.2
TOTAL (representing totality of NYSERDA's Investments in the NYS Clean Heat Market Development Plan)			\$229.6

Thank You

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