Connecticut Department of Energy and Environmental Protection

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

GC3 Mitigation Progress Working Group

February 28, 2020
DEEP, New Britain

Agenda for GC3 Mitigation Progress WG

- Introductions – 10 min. (all)
- Goals for the Working Group – 10 min. (Mike Li)
- Equity and Environmental Justice WG Update – 10 min (James Albis)
- Presentation on the 2018 GC3 Report – 10 min. (Jeremy Hunt)
- Working group process – 35 min. (Mike Li)
  - Sector teams – 20 min.
    - List of co-chairs and DEEP staff for each sector – 5 min.
    - Co-chairs discuss initial impressions of key focal points – 10 min.
    - Role of stakeholders; notifications regarding sector team meetings – 5 min.
  - Review of proposed timeline – 15 min.
- Public comments – 10 min. (Mike Li)
- Next Steps – 5 min.

Executive Order 3

The Council shall report to the Governor no later than January 15, 2021 and annually thereafter, on the state's progress on the implementation of the strategies identified in the *Building a Low Carbon Future for Connecticut: Achieving a 45% GHG reduction by 2030,* including, but not limited to:

- Prioritizing, integrating, and advancing equitable distribution of the costs and benefits of climate change mitigation planning and policies, specifically addressing disproportionate impacts of such strategies on environmental justice communities;
- A description of how such strategies are being integrated into existing and new agency policy planning efforts;

Executive Order 3

- Evaluation of the efficacy of existing and proposed policies and regulations aimed at reducing GHG emissions; and
- Identification of new and emerging mitigation strategies that maximize climate change adaptation and resiliency opportunities while ensuring the state is on a sustainable path to meet its reduction targets.

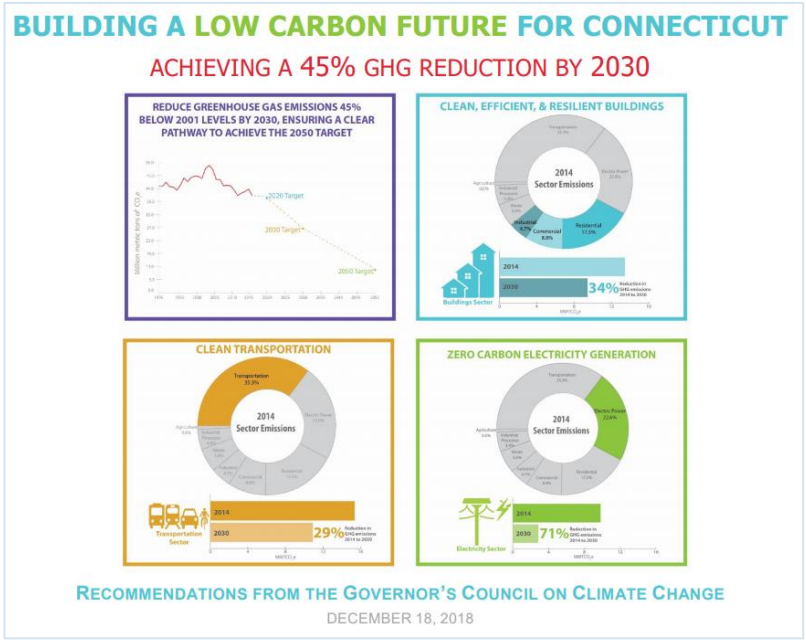
Schedule Overview

Draft Schedule

Feb. 28	First WG meeting; sector teams are formed; review timeline
March	Sector teams begin work
	WG meeting – Review sector team process
April	Sector teams consult with EEJ WG
	WG meeting – Sector teams give status updates
May	Sector teams draft their reports, consult with EEJ WG
	WG meeting – Sector teams give status updates
June	Sector teams provide draft reports to WG
	EEJ WG reviews draft team reports
	WG meeting – Discussion of draft reports
July	Sector teams submit revised draft reports
	EEJ WG reviews revised draft team reports
	WG meeting – Review revised draft team reports
August	WG develops draft report, briefs Commissioner
	WG meeting – Review draft report
	WG submits draft report to Commissioner
Sept.	WG submits draft report to GC3
	GC3 releases draft report for public comment
October	WG receives public comments on draft report
	WG meeting – Review of public comments
	WG briefs Commissioner on public comments
	WG develops final report
November	WG meeting – Review of final report
December	WG submits final report to GC3
January 15	GC3 submits final report to Gov. Lamont

Sector team leaders

Sector	2018 report	Co-chair	DEEP staff
Cross	pages 18-21	Charles	Jeff & Jeremy
Electricity	22-26	Marissa	Jeff
Transportation	26-34	John	Jeremy
Buildings	34-39	Brenda	Jeff
Non-energy	39-40	Charles	Jeremy



URL for 2018 report is on agenda sheet

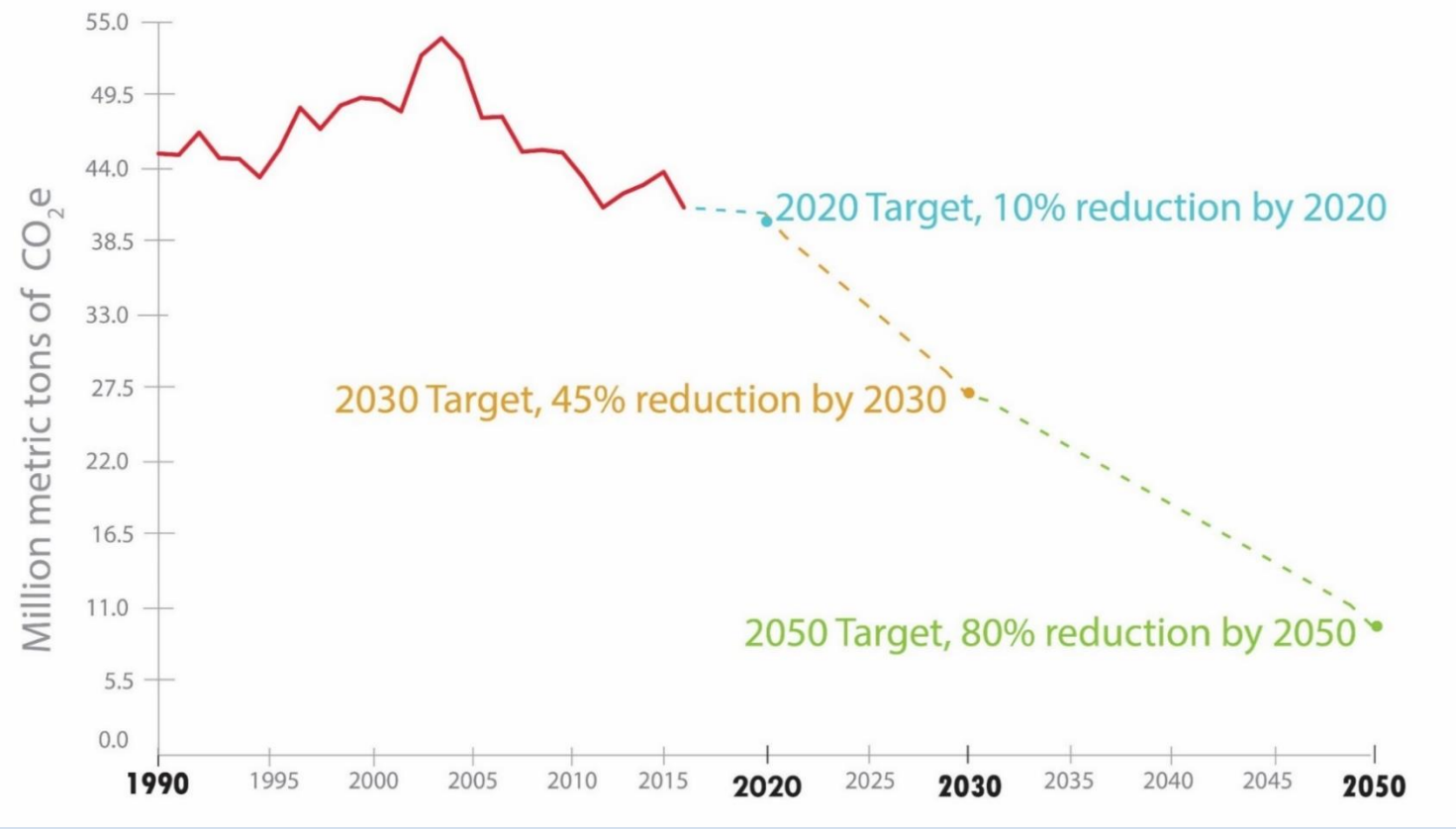
Review of 2017 GHG Inventory and 2018 GC3 Report

Tracking CT's GHG Reductions

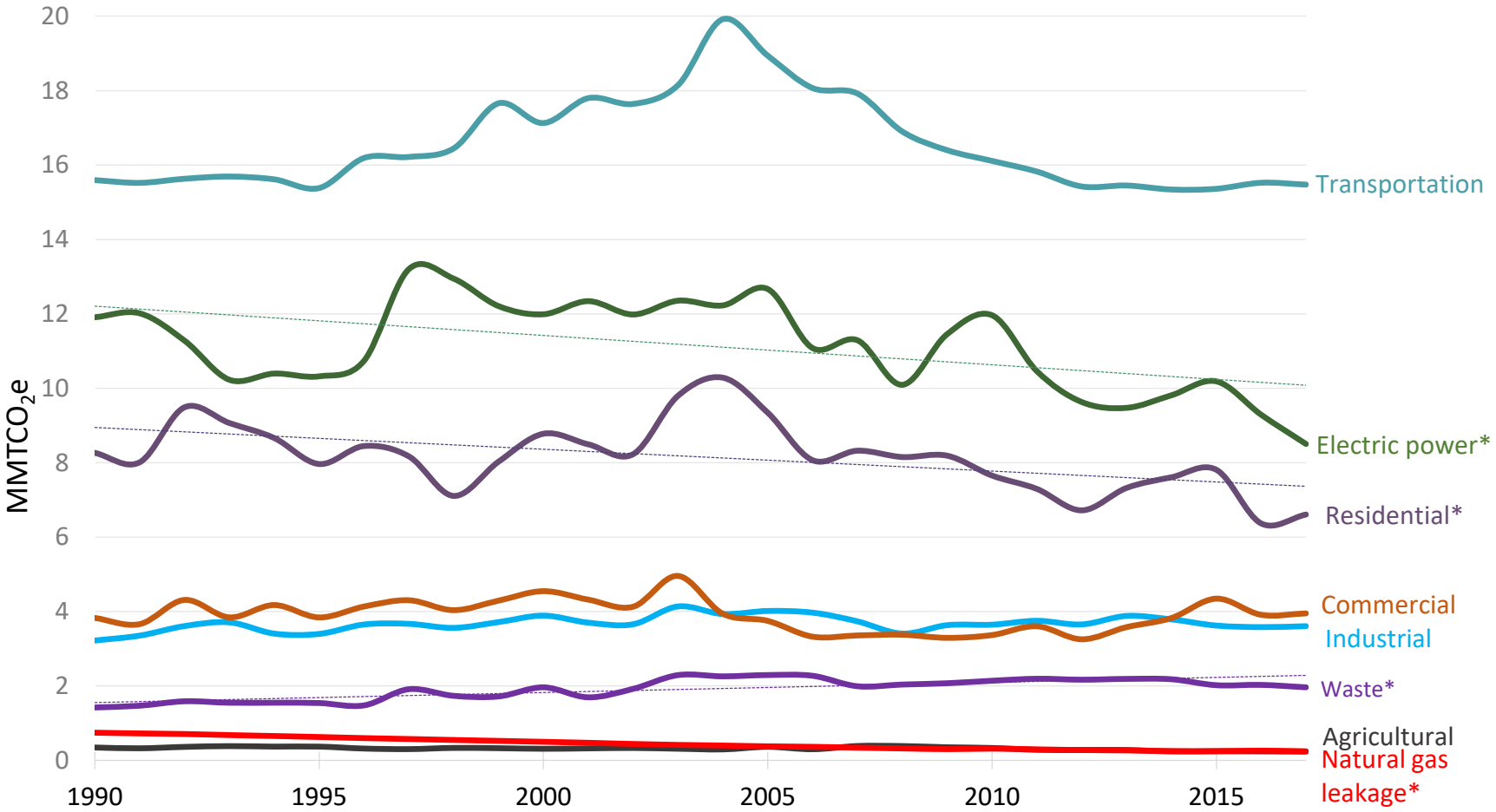
Chapter 446c, Sec. Sec. 22a-200a. Reduction of greenhouse gas emissions: Mandated levels.

(a) The state shall reduce the level of emissions of greenhouse gas:

- ✓ Not later than January 1, 2020, to a level at least 10% below the level emitted in 1990
- ✓ Not later than January 1, 2030, to a level at least 45% below the level emitted in 2001
- ✓ Not later than January 1, 2050, to a level at least 80% below the level emitted in 2001

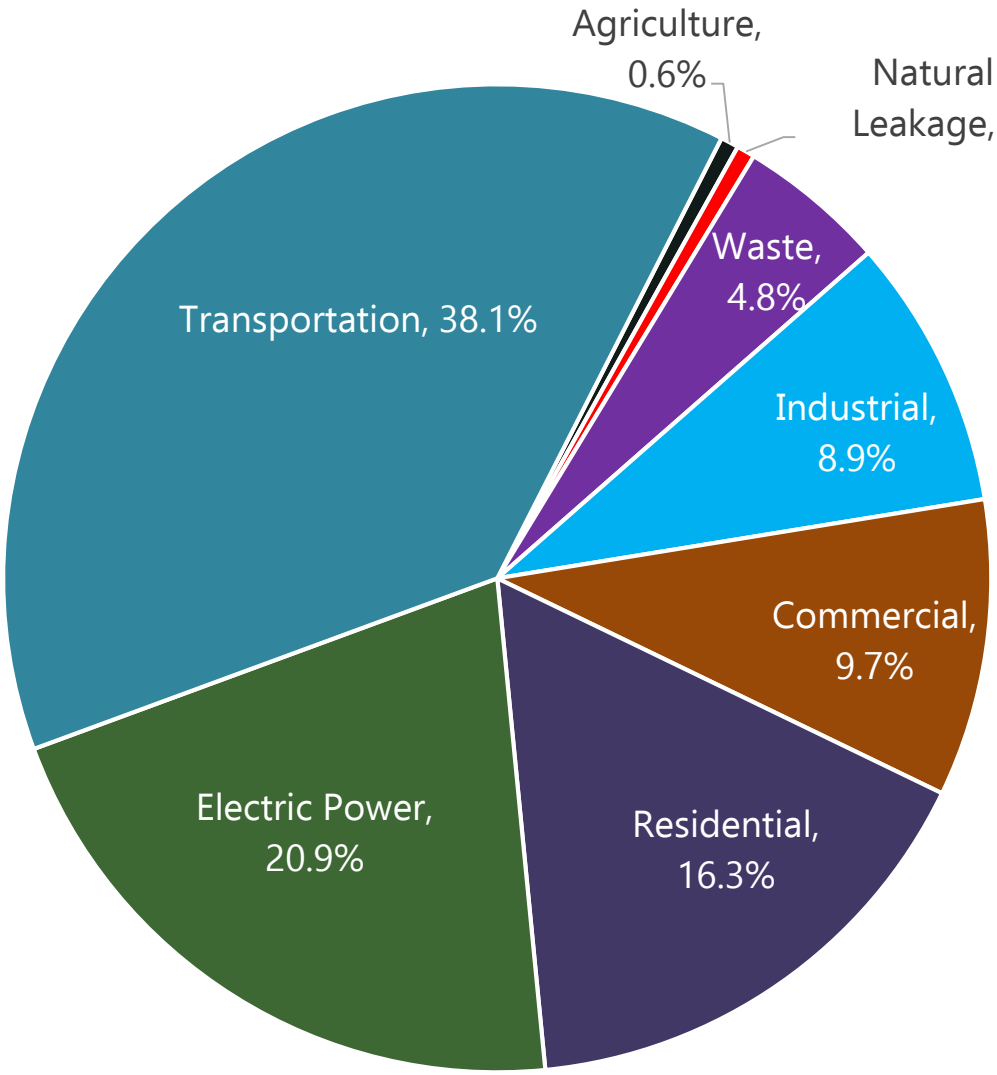


Connecticut Annual GHG Emissions by Sector, 1990-2017



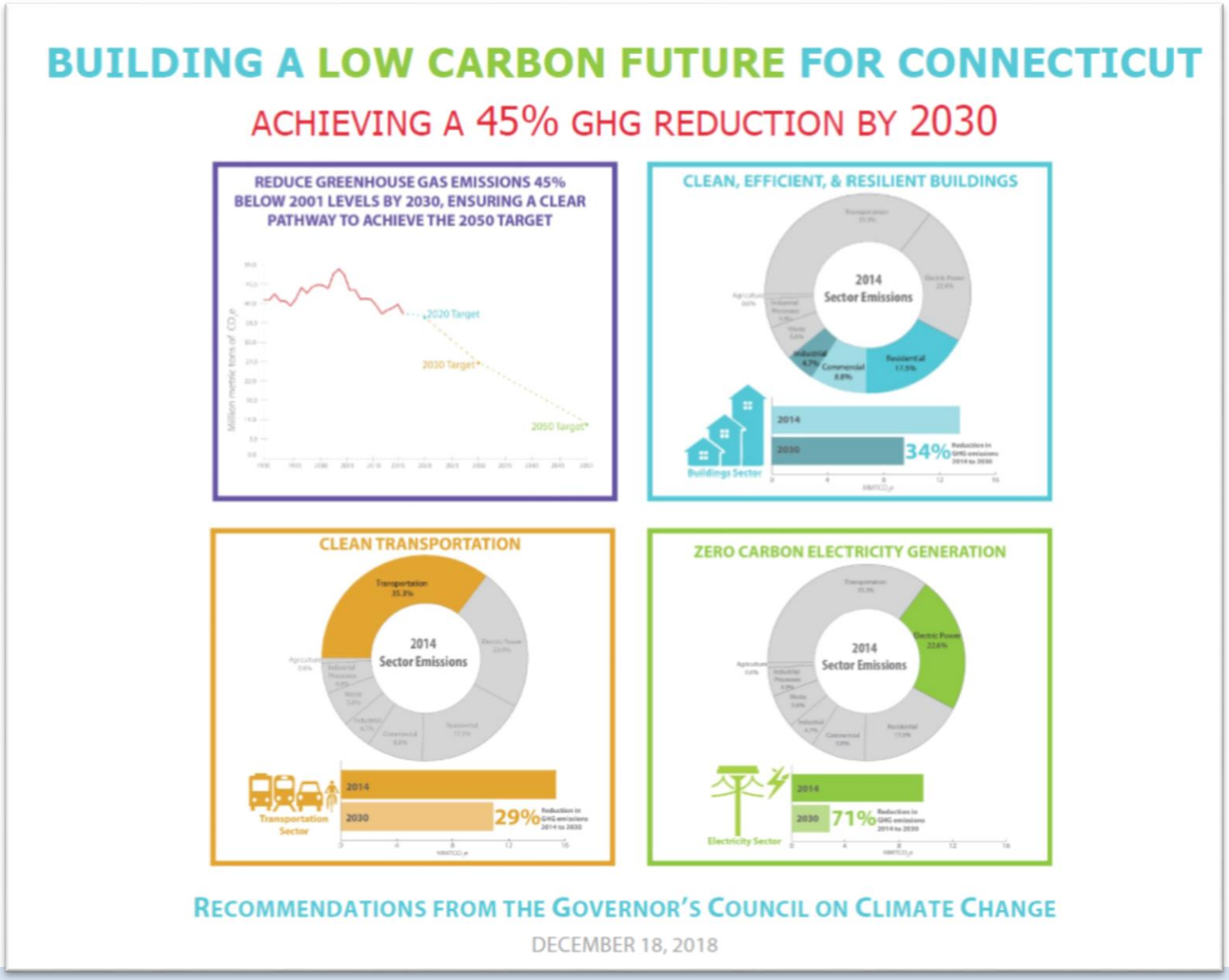
- Transportation Sector dominant source of GHG emissions: 38.1% of economy-wide emissions
- 2017 Electric Power, Agricultural, Natural Gas Leakage, & Waste Sectors down from 2016

Sectoral Emissions

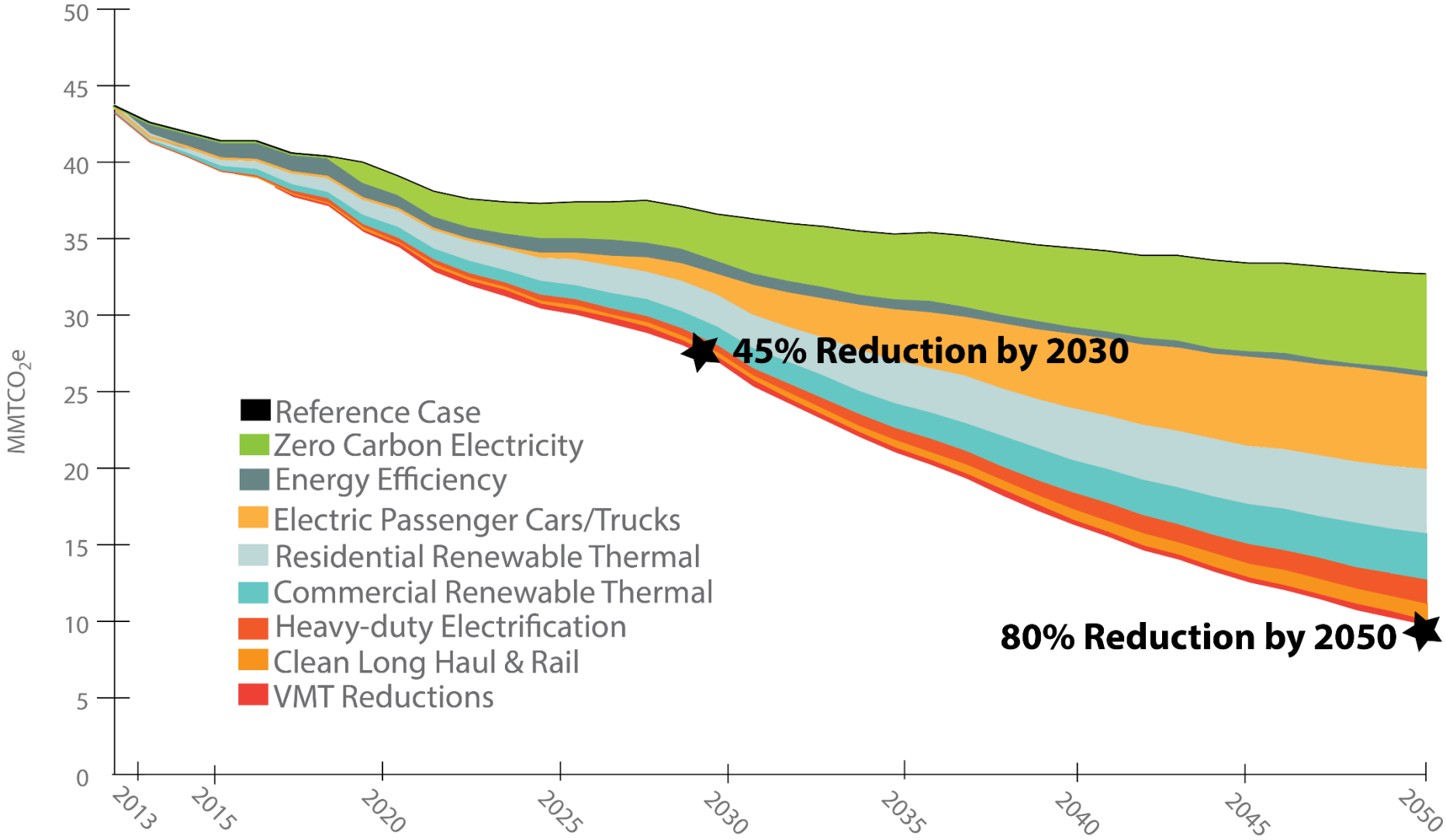


	% change from 1990	% change from 2001	% change from 2016
Agriculture	-31%	-26%	-2%
Natural Gas Leakage	-68%	-49%	-7%
Commercial	3%	-9%	1%
Electric Power	-29%	-31%	-8%
Industrial	12%	-3%	1%
Residential	-20%	-22%	4%
Transportation	-0.8%	-13%	0%
Waste	38%	16%	-3%
Total Emissions	-10.5%	-17.4%	-2%

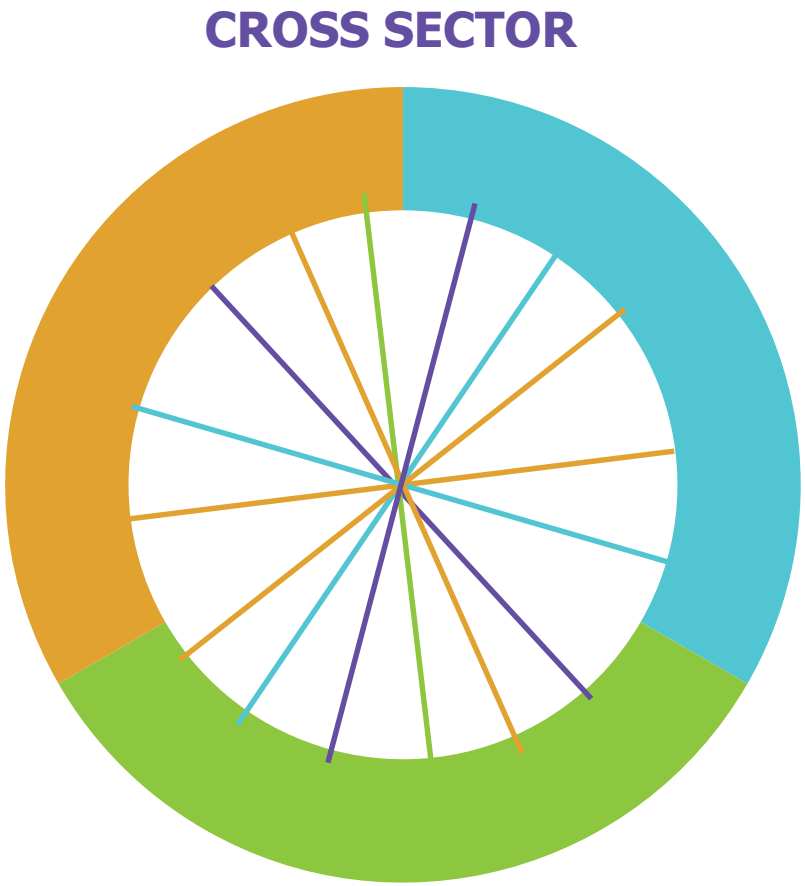
GHG Reduction Strategies and Recommendations



GHG Reduction Pathway Analysis

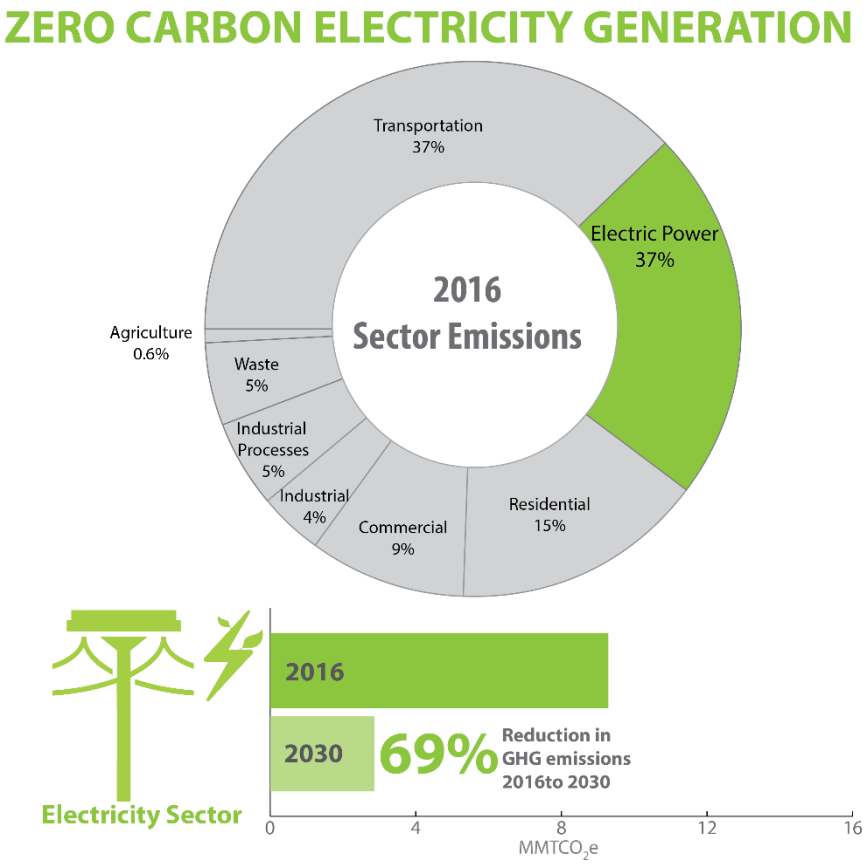


Cross Sector Recommendations



- Put a price on carbon
- Expand consumer education and awareness efforts to increase the uptake of zero- and low-carbon technology and resiliency measures
- Pursuing an integrated approach to GHG mitigation, adaptation and resiliency

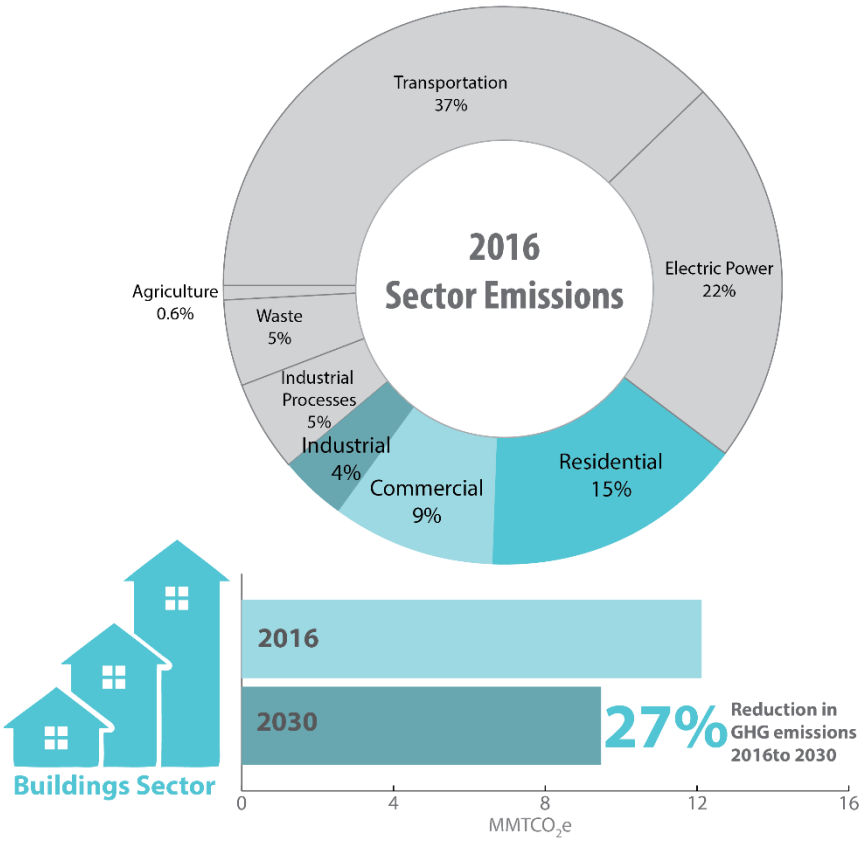
Electric Sector Recommendations



- Commit at least 50 megawatts of demand reduction per year to the ISO New England forward-capacity market
- Achieve at least 66% zero-carbon energy generation by 2030
- Optimize grid-management strategies to reduce carbon emissions

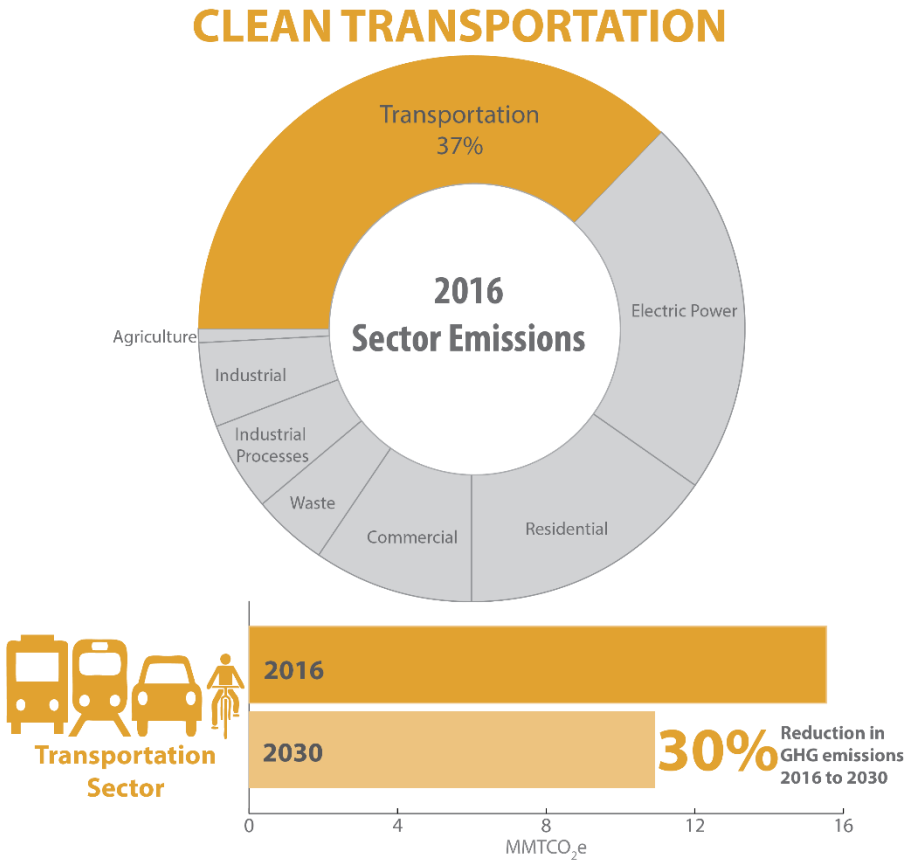
Buildings Sector Recommendations

CLEAN, EFFICIENT, & RESILIENT BUILDINGS



- Accelerate adoption of building thermal energy conservation
- Transition building fossil fuel thermal loads to efficient renewable thermal technologies
- Improve training and technical capacity of workforce

Transportation Sector Recommendations



- Maintain increasing fuel economy and low- and zero-emission standards
- Increase light-duty ZEV penetration rate to at least 20% by 2030
- Advance initiatives that eliminate the rate of annual VMT growth by 2030
- Develop sustainable funding for transportation electrification and transportation infrastructure