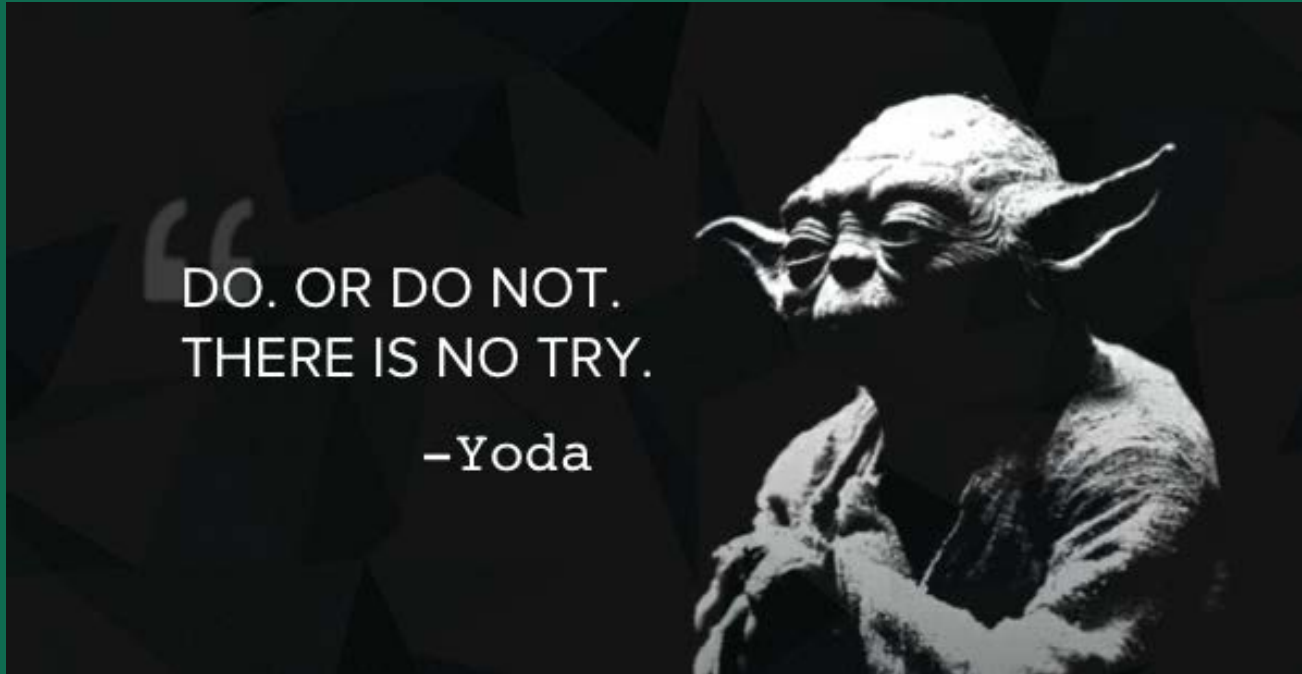


# Climate Crisis Solutions



Larry Chretien  
May 28, 2020

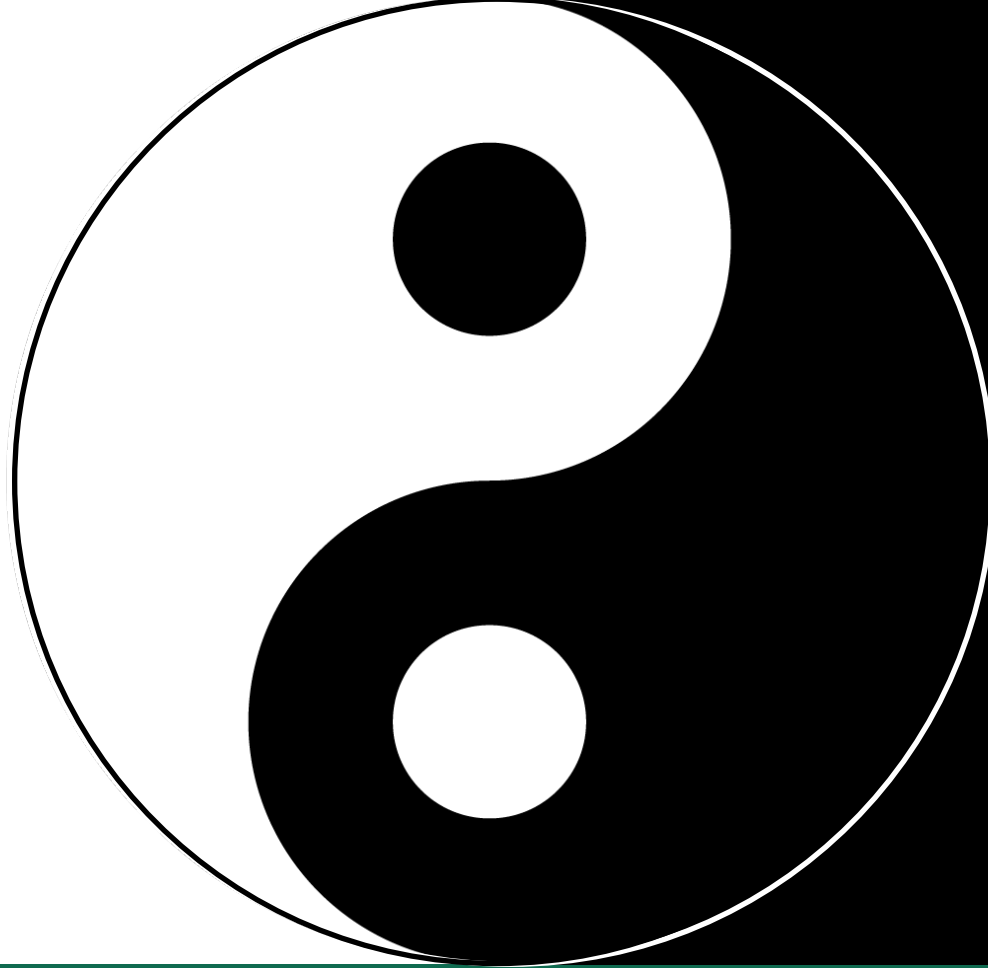
 **GREEN ENERGY  
CONSUMERS ALLIANCE**

## ***Harnessing our power as energy consumers to speed the transition to a low-carbon future.***

- Non-profit founded 1982
- Pro-consumer & environment
- Primarily work in Mass. and Rhode Island
- Programs enable consumers to make green energy choices
- Public Policy - state & local



***Consumer  
Programs***

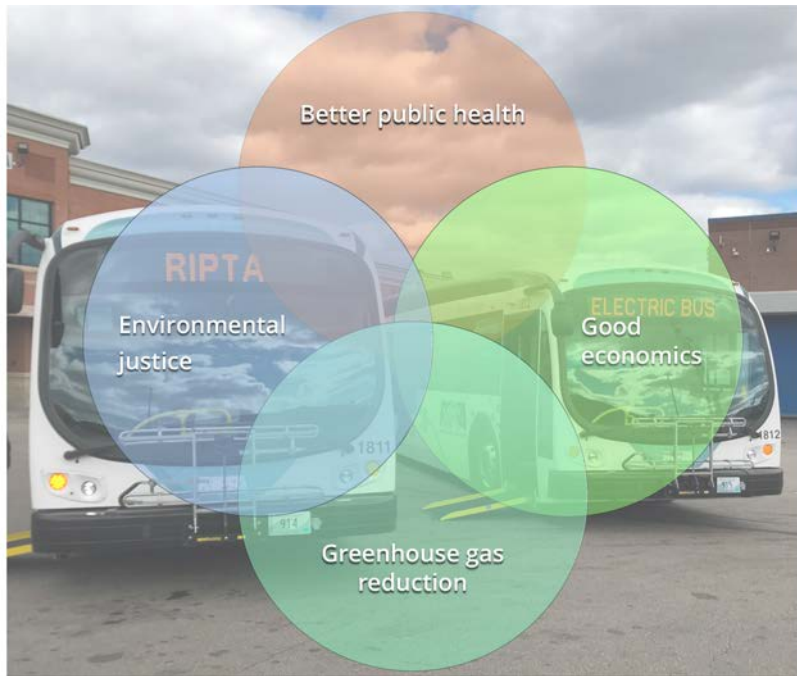


***Public  
Policy***

# Key Points

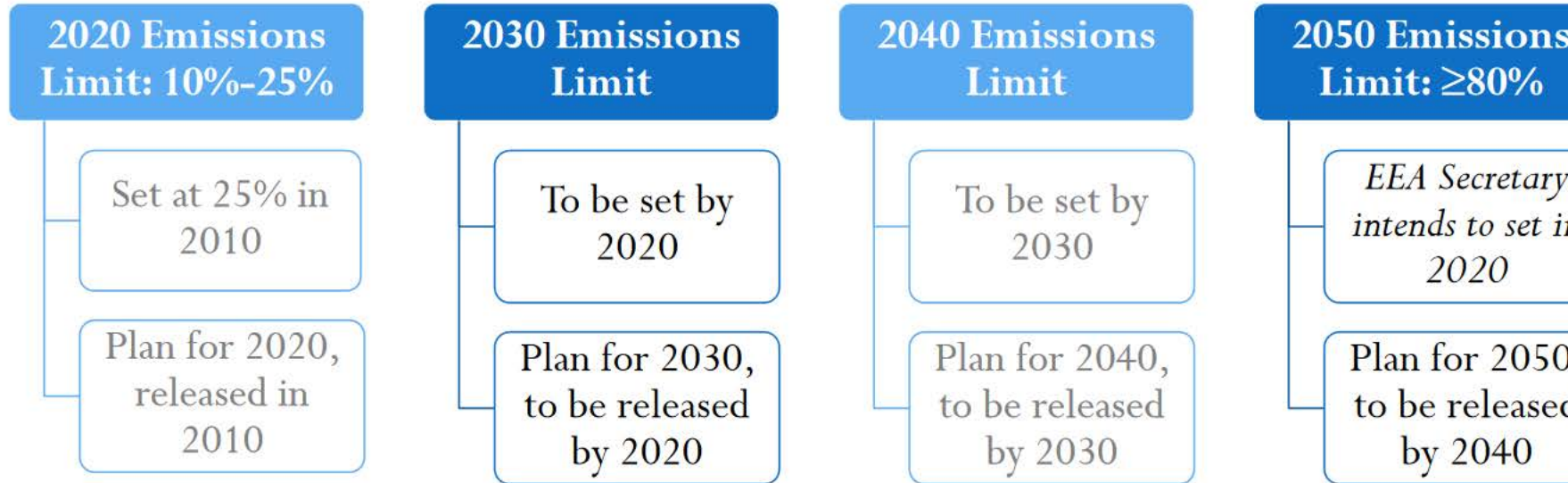
- Focus on getting to 50% by 2030; at least 2.5% per year
  - Technologies and markets will emerge soon enough for 2030-2050
- Lots more wind, solar, electricity storage (including EVs)
- Stop burning stuff - especially in vehicles
- Huge benefits other than GHG reduction = public health & lower energy imports
- Diversity, Equity, and Inclusion

# EQUITY



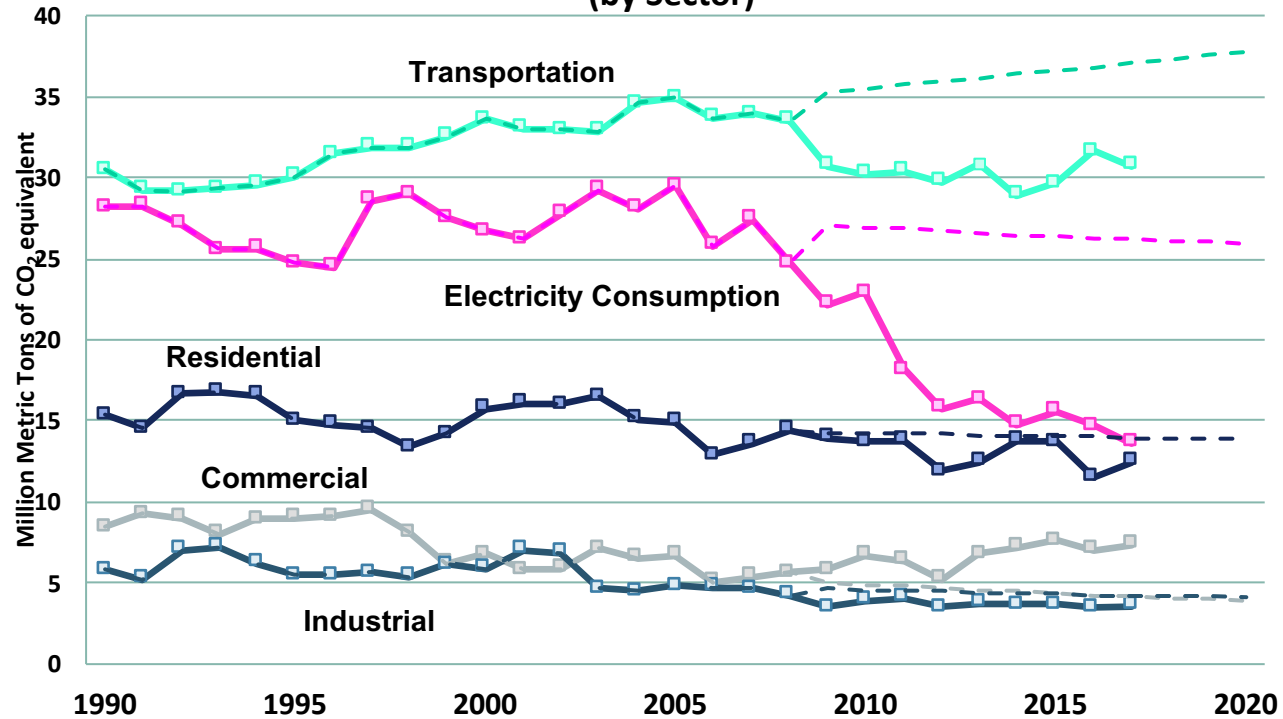
# Global Warming Solutions Act (GWSA)

- GWSA requires 10-year emissions limits (percentage of 1990 baseline level) together with implementation plans to achieve them:

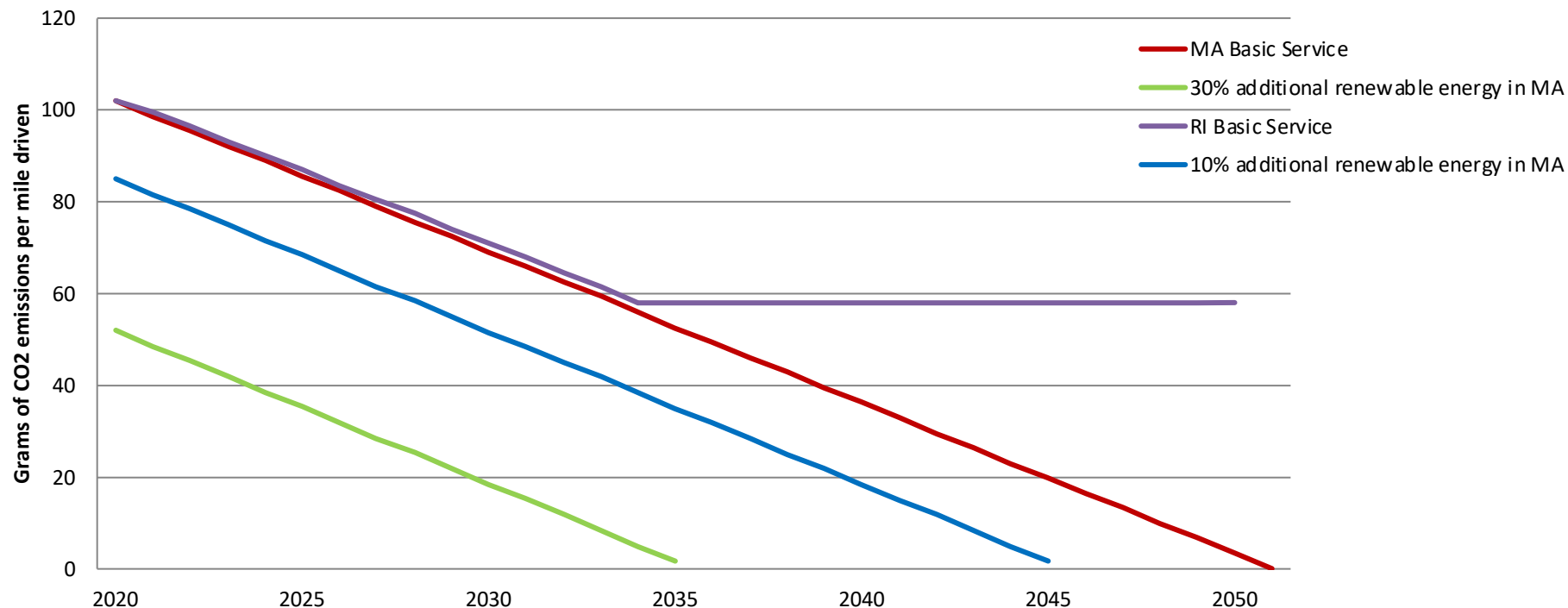


- Emissions limits are legally binding. *Kain v. DEP* (2016)

## Massachusetts GHG Emissions from Fuel Combustion (by Sector)



# Renewable Energy + EVs = Success







# Transportation Sector



**EV Charging Infrastructure:** Utility programs

**Consumer Rebates for EVs:** reinstated in 2020 after 3 month lapse

**Fleet Transformation:** MA Senate passed S.2476, An act to accelerate the transition of cars, trucks, and buses to carbon free power

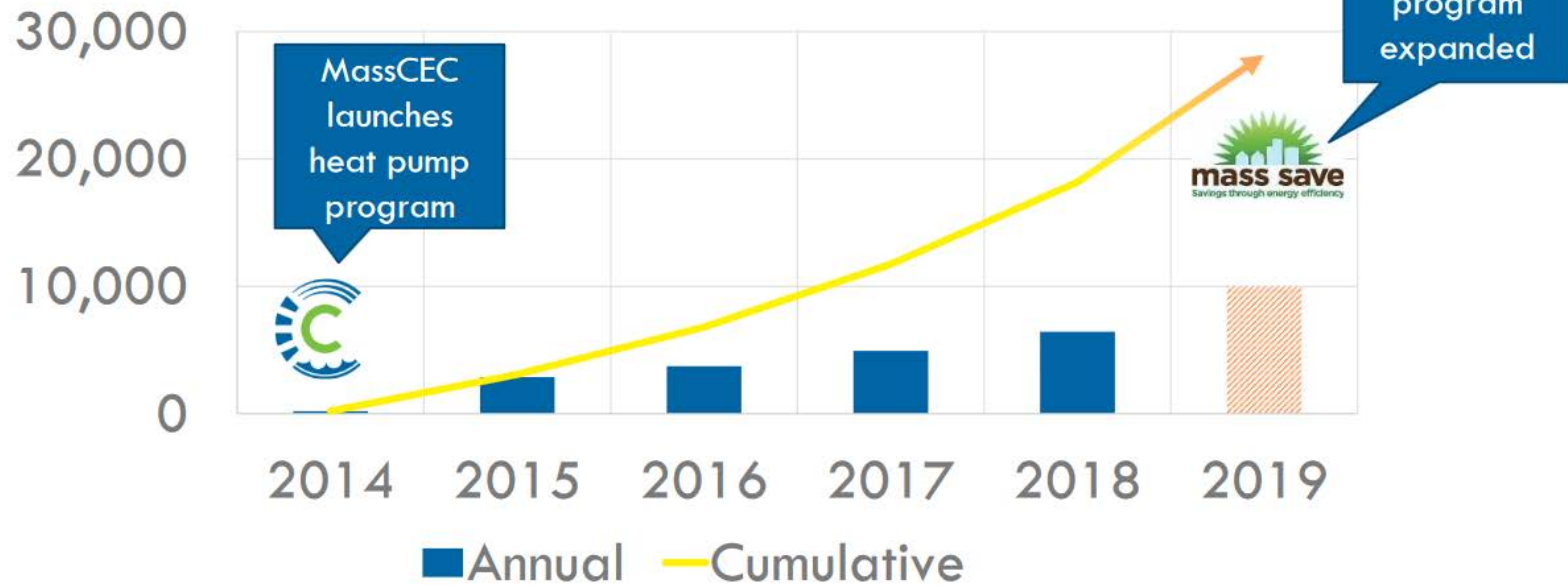
**Bus Electrification:** Modest pilots with VW Settlement funds.

**EV Charging Infrastructure:** Utility programs

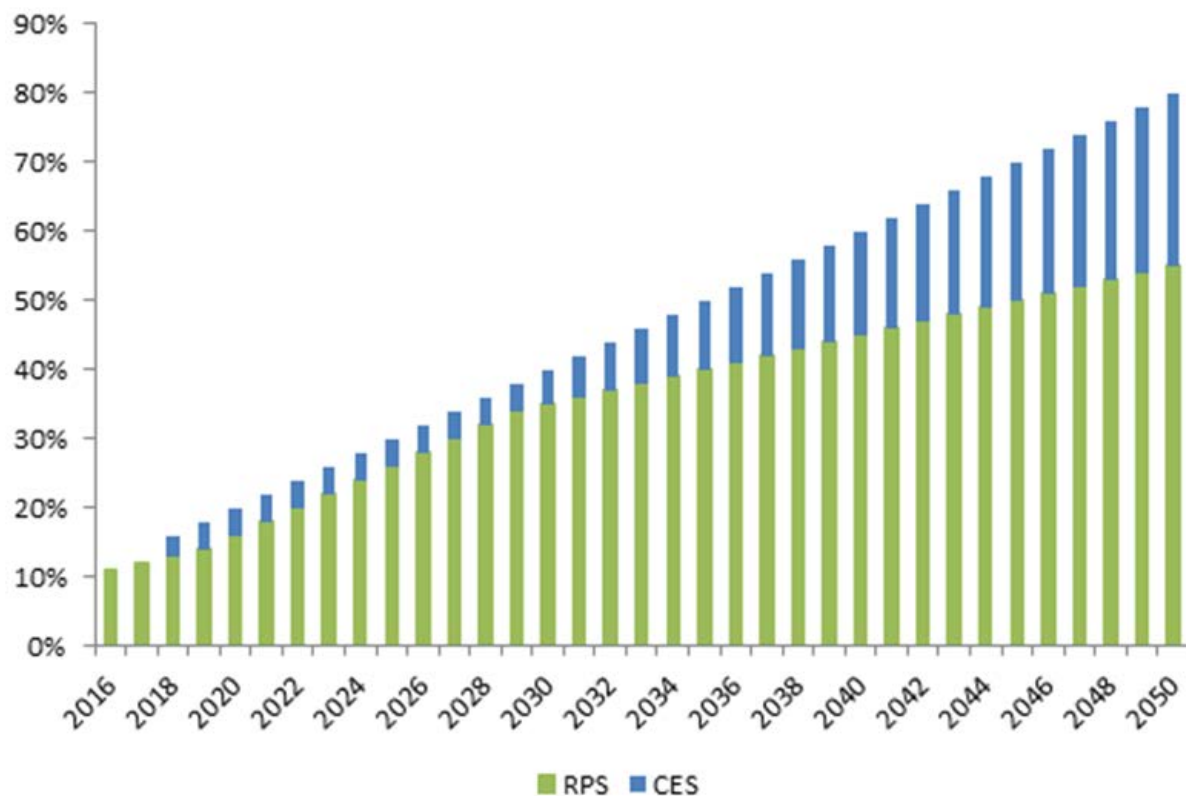
**Transportation and Climate Initiative (TCI) - multi-state**

# MASSCEC JUMP STARTED HEAT PUMP MARKET

## MA Households Installing Cold-Climate Heat Pumps

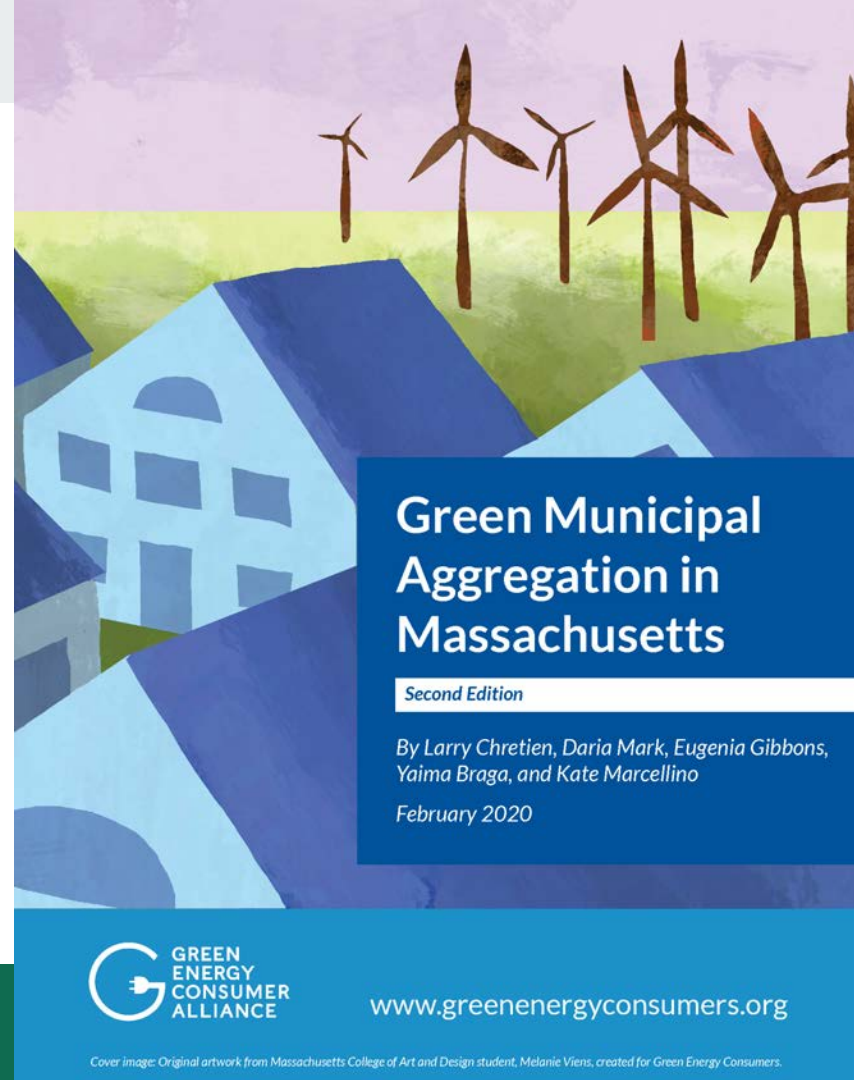


## Massachusetts Renewable Portfolio Standard



# The report: Green Municipal Aggregation in Massachusetts, February 2020

[www.greenenergyconsumers.org/aggregation](http://www.greenenergyconsumers.org/aggregation)



## Green Municipal Aggregation in Massachusetts

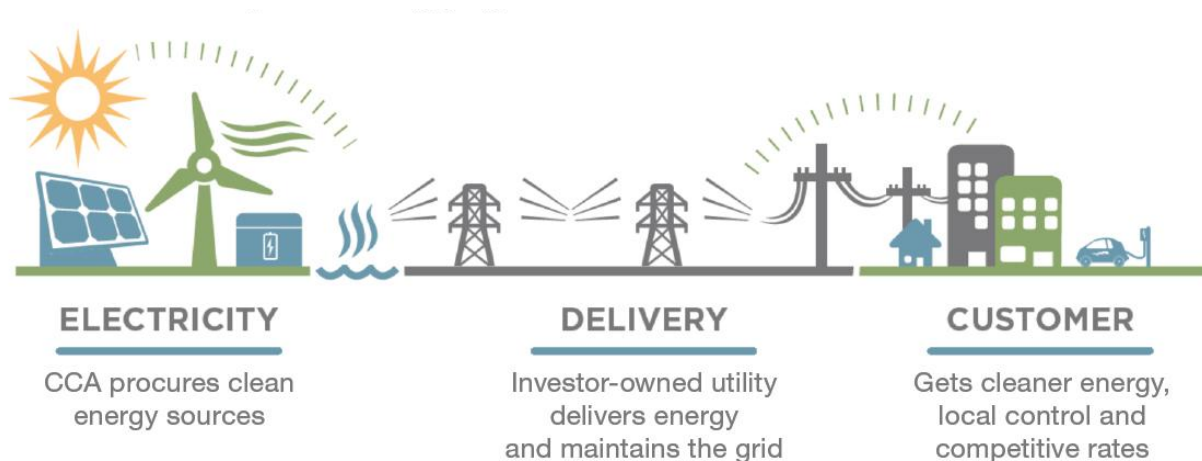
*Second Edition*

*By Larry Chretien, Daria Mark, Eugenia Gibbons,  
Yaima Braga, and Kate Marcellino*

*February 2020*

# Green Municipal Aggregation (GMA)

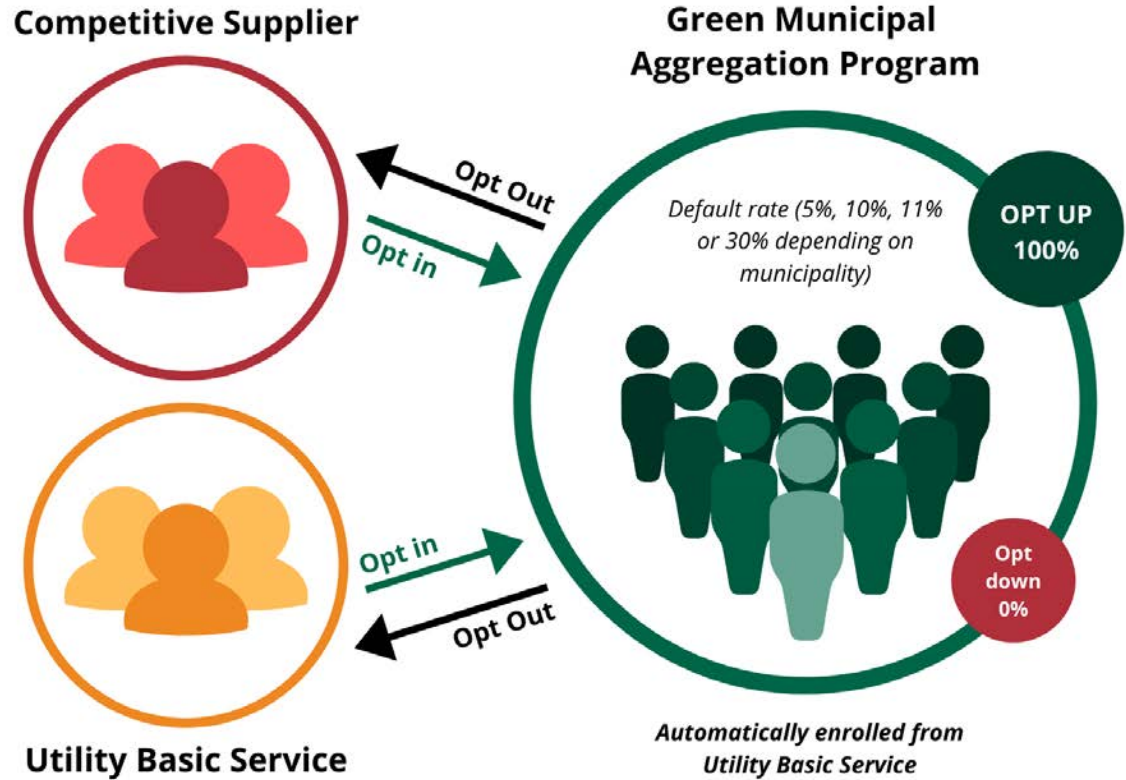
- Adds green electricity
- GHG reductions
- Multi-year support for renewable electricity generation
- Typically start at 5%
- Regular increases
- Brookline 25% -> 30%



*Image credit: westerncity.com*



# Typical GMA program



# MA Attorney General's report, 2018 and 2019

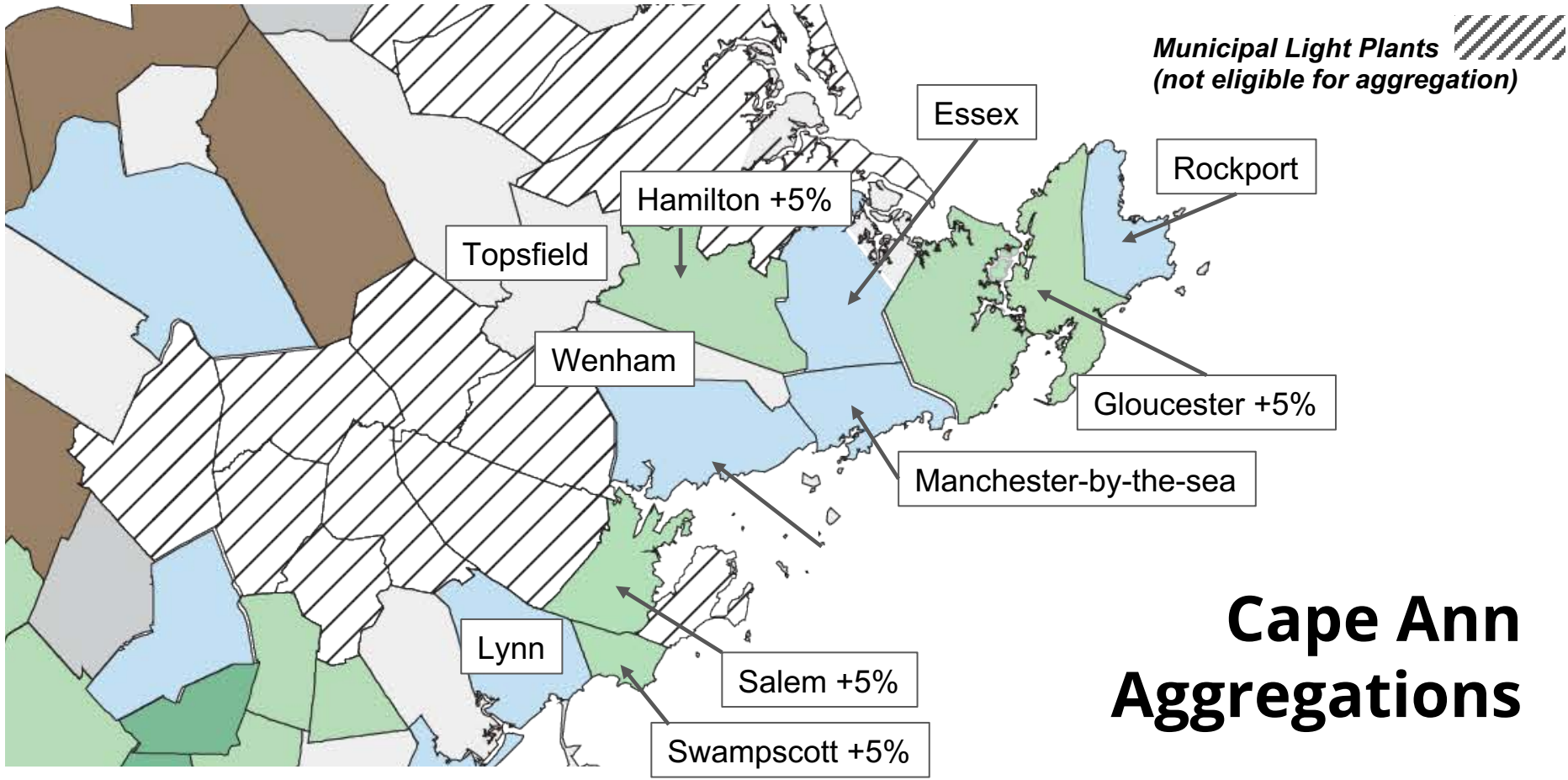
Net Consumer Loss from Participation in the Individual Residential Electric Supply Market Compared to the Electric Company's Basic Service



July 2015 - June 2016	July 2016 - June 2017	July 2017 - June 2018	Three-Year Total Net Loss
\$65.4 M	\$111.4 M	\$76.2 M	\$253.0 M

[www.mass.gov/competitive-electric-supply](http://www.mass.gov/competitive-electric-supply)





## Cape Ann Aggregations

# Collective impact of Green Municipal Aggregation

- 700,000 MWh per year by 2022
- 200 wind turbines worth of voluntary demand per year



# We've got webinars!

Register at [greenenergyconsumers.org/events](https://greenenergyconsumers.org/events)



## Green Municipal Aggregation in Massachusetts

Tuesday, Jun 2 2020, 2:00pm

[Learn more & RSVP now](#)



## Saving money & energy, remotely, with Mass Save and EnergyWiseRI

Wednesday, Jun 10 2020,  
2:00pm

[Learn more & RSVP now](#)



## How to Buy Clean Electricity

Thursday, Jun 11 2020, 10:00am

[Learn more & RSVP now](#)

### Other webinars coming up in June include:

Electric Vehicles 101 (6/17), Electric Vehicle Maintenance & Battery Care (6/23), and How to Buy Clean Electricity (6/30)

# Questions?

- [larry@greenenergyconsumers.org](mailto:larry@greenenergyconsumers.org)
- [www.greenenergyconsumers.org](http://www.greenenergyconsumers.org)

