
GWSA Regulations Stakeholder Meeting

Massachusetts Department of Environmental Protection

November 2, 2016 - Boston, MA

November 3, 2016 - Worcester, MA

Agenda

- 10:00 AM – 11:00 AM: Overview
- 11:00 AM – 12:00 PM: Gas-insulated switchgear
- 1:00 PM – 2:00 PM: Requirements for transportation
- **2:00 PM – 3:00 PM: State vehicle fleet**
- 3:00 PM – 4:00 PM: Methane leaks from the natural gas distribution system
- 4:00 PM – 5:00 PM: General stakeholder discussion



GWSA Regulations Stakeholder Meeting

Massachusetts Supreme Judicial Court:

“...this court concluded that the plain language of [GWSA, Section 3(d)] requires the department to promulgate regulations that address multiple sources or categories of sources of greenhouse gas emissions, impose a limit on such emissions that may be released, limit the aggregate greenhouse gas emissions that are released from each group of regulated sources or categories of sources, set greenhouse gas emissions limits for each year, and set limits that decline on an annual basis.”

May 17, 2016



GWSA Regulations Stakeholder Meeting

Global Warming Solutions Act of 2008

Section 3(c):

“Emissions levels and limits associated with the electric sector shall be established by the executive office and the department, in consultation with the department of energy resources, based on consumption and purchases of electricity from the regional electric grid, taking into account the regional greenhouse gas initiative and the renewable portfolio standard.”

Section 3(d):

“The department shall promulgate regulations establishing a desired level of declining annual aggregate emission limits for sources or categories of sources that emit greenhouse gas emissions.”



New 310 CMR 60.06 - CO₂ Emission Limits for State Fleet Passenger Vehicles

Executive Order 569:

***“The Department of Environmental Protection shall promulgate final regulations that satisfy the mandate of Section 3(d) of [GWSA] by August 11, 2017, having designed such regulations to ensure that the Commonwealth meets the 2020 statewide emissions limit mandated by the GWSA....The Department of Environmental Protection shall:
...consider limits on emission from, among other sources or categories of sources, the following...the transportation sector or subsets of the transportation sector, including **the Commonwealth’s vehicle fleet...**”***

September 16, 2016



Transportation Sector Reductions

Source of Reductions	Estimated Reductions 2013 – 2020
Vehicle GHG Standards (Calculated in a manner consistent with the 2015 CECP Update)	3.1%
Requirements for Transportation	0.1% - 1.0%
State Vehicle Fleet (Reflects potential purchases of efficient/electric vehicles)	<0.01%
Total	3.2% - 4.1%

MassDEP intends for amended transportation requirements to add an emissions cap reflecting the combined effect of the regulations listed in this table.



New 310 CMR 60.06 - State Fleet CO₂ Limit

Overview of Draft Regulation

- Purpose
 - Achieve CO₂ emission reductions from certain passenger vehicles owned or leased by the Commonwealth of Massachusetts
 - Provide leadership by reducing the Commonwealth's own emissions from its vehicle fleet
- How does State Fleet CO₂ reduction relate to overall GHG emissions in MA?
 - Requiring increasing fuel efficient vehicles (hybrids, plug-ins, electric vehicles, etc.) in state fleet purchases could achieve a reduction of <0.01%



New 310 CMR 60.06 - State Fleet CO₂ Limit Overview of Draft Regulation

Adopt new regulation **310 CMR 60.06**: CO₂ Emission Limits for State Fleet Passenger Vehicles

Applicability and General Requirements

- Executive Offices¹ serve as reporting lead for their agencies
- Limits on annual CO₂ emissions from passenger vehicles
- Reporting requirement for non-passenger vehicles

¹ Executive Order 569: each Executive Office shall have a Climate Change Coordinator to “serve as the Secretariat’s point person regarding climate change mitigation, adaptation and resiliency efforts”



New 310 CMR 60.06 - State Fleet CO₂ Limit

Overview of Draft Regulation

- Regulated Entities
 - Administration and Finance (A&F)
 - Education (EOE)
 - Energy and Environmental Affairs (EEA)
 - Health and Human Services (EOHHS)
 - Housing and Economic (EOHED)
 - Labor and Workforce Development (EOLWD)
 - Massachusetts Department of Transportation (MassDOT)
 - Public Safety and Security (EOPSS)



New 310 CMR 60.06 - State Fleet CO₂ Limit Overview of Draft Regulation

Passenger Vehicles

Any motor vehicle with a gross vehicle weight rating of less than 10,000 pounds designed primarily for transportation of persons and having a design capacity of 12 persons or less. Passenger vehicle does not include transit vehicles or vehicles primarily designed to transport property or with special features enabling off-road operation and use, including but not limited to, pickup trucks, cargo vans, emergency vehicles, test vehicles, non-road vehicles.



New 310 CMR 60.06 - Executive Office-Specific Caps for Passenger Vehicles

Maximum Annual CO₂ Emissions – for each Executive Office	
Calendar Year	Maximum Allowable CO₂ Emissions (lbs.)
2018	TBD
2019	TBD
2020	TBD

Maximum Annual CO₂ Emissions – Aggregate	
Calendar Year	Maximum Allowable CO₂ Emissions (lbs.)
2018	TBD
2019	TBD
2020	TBD



New 310 CMR 60.06 - Executive Office-Specific Caps for Passenger Vehicles

Emissions calculated based on the fuel used:

- lbs. CO₂ emitted/year = gallons of gasoline used * 19.8416 pounds of CO₂/gallon of gasoline
- lbs. CO₂ emitted/year = gallons of diesel used * 22.38 pounds of CO₂/gallon of diesel
- lbs. CO₂ emitted/year = thousand cubic feet of natural gas used * 121.25 pounds of CO₂/thousand cubic feet of natural gas



New 310 CMR 60.06 - State Fleet CO₂ Limit Reporting Requirements

Reporting requirements for passenger and non-passenger vehicles:

- By January 1, 2018 and annually thereafter, each Executive Office shall provide the Department a report demonstrating compliance with the *passenger* vehicle limit
- By November 1, 2017, each Executive Office shall provide the Department information on *non-passenger* vehicles covering calendar year 2016
- By January 31, 2018, each Executive Office shall provide the Department information on *non-passenger* vehicles covering calendar year 2017



Information posted at:

<http://www.mass.gov/eea/agencies/massdep/air/climate/section3d-comments.html>

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Comments (requested by Wednesday 11/16):

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