
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.”



Revision of 310 CMR 60.05

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:
...revise the Global Warming Solutions Act requirements for the **Massachusetts Department of Transportation set forth in 310 C.M.R. 60.05 to establish declining aggregate emission limits...”*****

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.



Revision of 310 CMR 60.05

- MassDEP has developed draft revisions to 310 CMR 60.05 that include a requirement for MassDOT to calculate, report, and demonstrate reductions in aggregate CO₂ emissions from the transportation network each year from 2018 through 2020
- Aggregate CO₂ emissions limit calculated based on the transportation network model used to calculate carbon monoxide and ozone precursors (nitrogen oxides and volatile organic compounds)



MassDOT Actions

- Ensuring greenhouse gas impacts are considered in expansion project selection to favor projects that reduce GHG emissions
- Investing heavily to restore and modernize Massachusetts' transit system to support more low carbon trips
 - More reliable, on-time service
 - Lower emission trains and buses
 - Faster boarding through upgraded fare collection system
- Funding programs that specifically target low emissions transportation
 - Complete Streets Funding Program
 - Safe Routes to School Infrastructure Program
 - MassRIDES Travel Options Program for Employers
 - Congestion Mitigation and Air Quality funding (GHG co-benefits)
- Undertaking additional efforts with GHG benefits including EV fast charging infrastructure, removal of cash tolls, online RMV service provision, renewable energy program and facility energy efficiency projects



Revision of 310 CMR 60.05

- Regulation originally promulgated December 2014; effective January 1, 2015
 - Requires MassDOT and MPOs to evaluate and track CO₂ emissions and impacts in RTPs, TIPs and STIPs
 - Requires MassDOT to demonstrate its CO₂ reduction commitments and targets in the CECP for 2020 are achieved



310 CMR 60.05

Overview of Draft Amendments

- Retains:
 - MassDOT and MPO requirement for evaluating and tracking CO₂ emissions in RTPs, TIPs and STIPs
 - MassDOT requirement to calculate CO₂ reductions for the CECP for 2020
- Adds: Declining Aggregate CO₂ Emissions Limit



310 CMR 60.05

Draft Aggregate CO₂ Emissions Limit

Maximum Annual Aggregate CO₂ Emissions	
Calendar Year	Maximum Allowable CO₂ Emissions (million metric tons of CO₂)
2018	TBD
2019	TBD
2020	TBD



Information posted at:

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

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