

PM_{2.5} Redesignation Request and Maintenance Plan: Update

(Washington DC-MD-VA PM_{2.5} Nonattainment Area)

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Emissions Inventories

- **Milestone Years**
 - 2002, 2007, 2017, 2025

- **Emission Sectors**
 - Point Source (EGU & NEGU)
 - Area Source
 - Nonroad Source (NMIM + Marine/Airport/Rail)
 - Onroad Source (MOVES)

- **Inventory sources**
 - Point, Area, Nonroad: MARAMA (2025 NMIM - MWCOG)
 - Onroad Mobile (MOVES): MWCOG

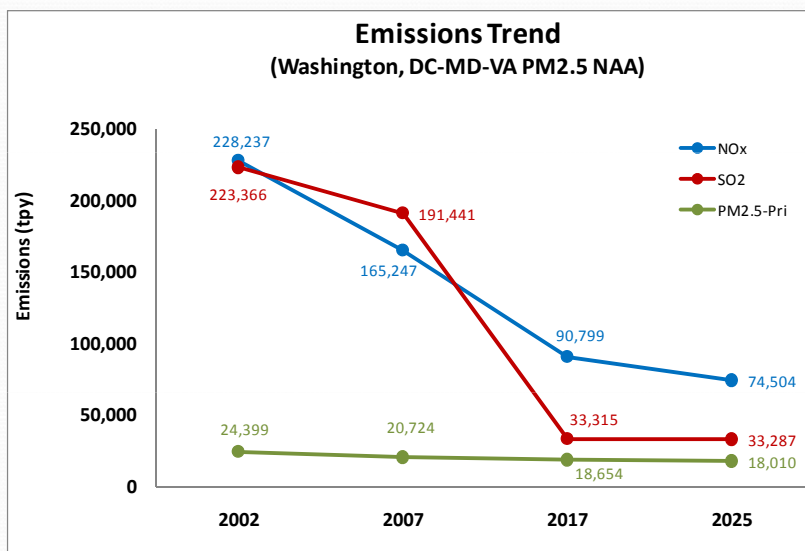
Status of Emissions Inventories

Source	2002	2007	2017	2025
Point	PM2.5 SIP	Final	Final	Final
Area	PM2.5 SIP	Final	Final	Final
Nonroad (NMIM+MAR)	PM2.5 SIP	Final	Final	Draft Final
Onroad	PM2.5 SIP emissions revised with MOVES	Draft Final	Draft Final	Draft Final

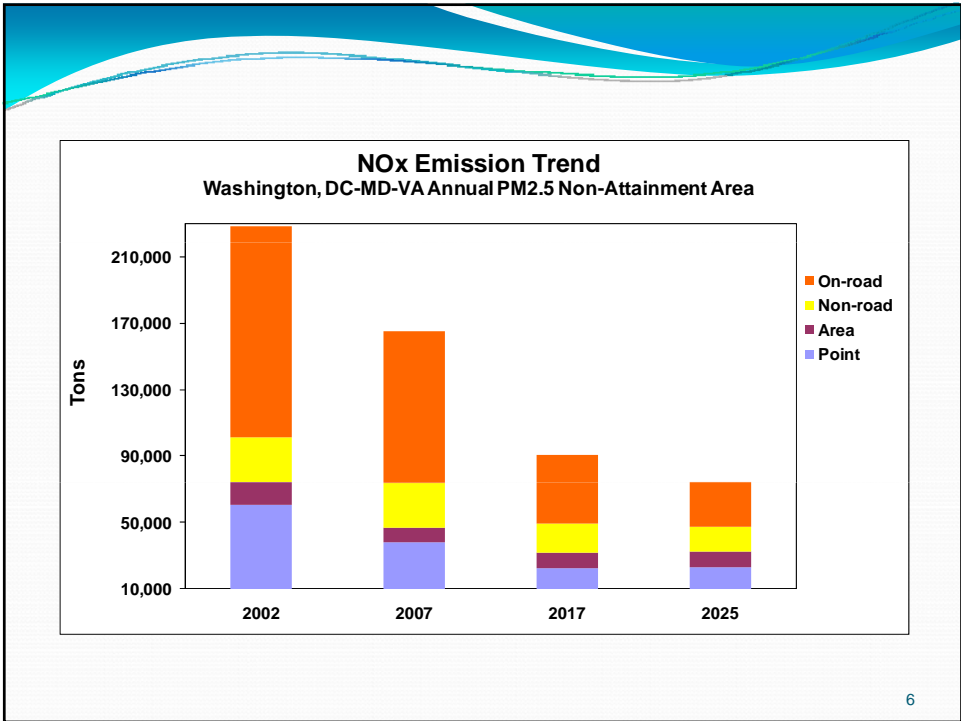
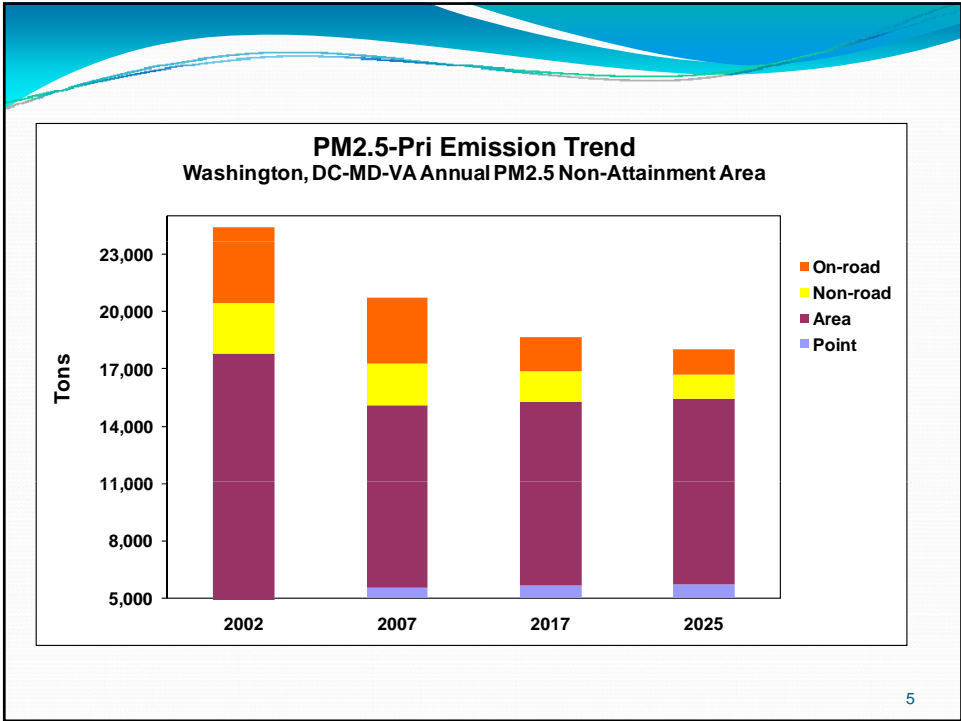
* 2002 emissions were already submitted as part of PM2.5 SIP base year requirements. 2002 Mob6 emissions in PM2.5 SIP were revised with MOVES in PM2.5 R/MP to compare them to 2007 MOVES emissions.

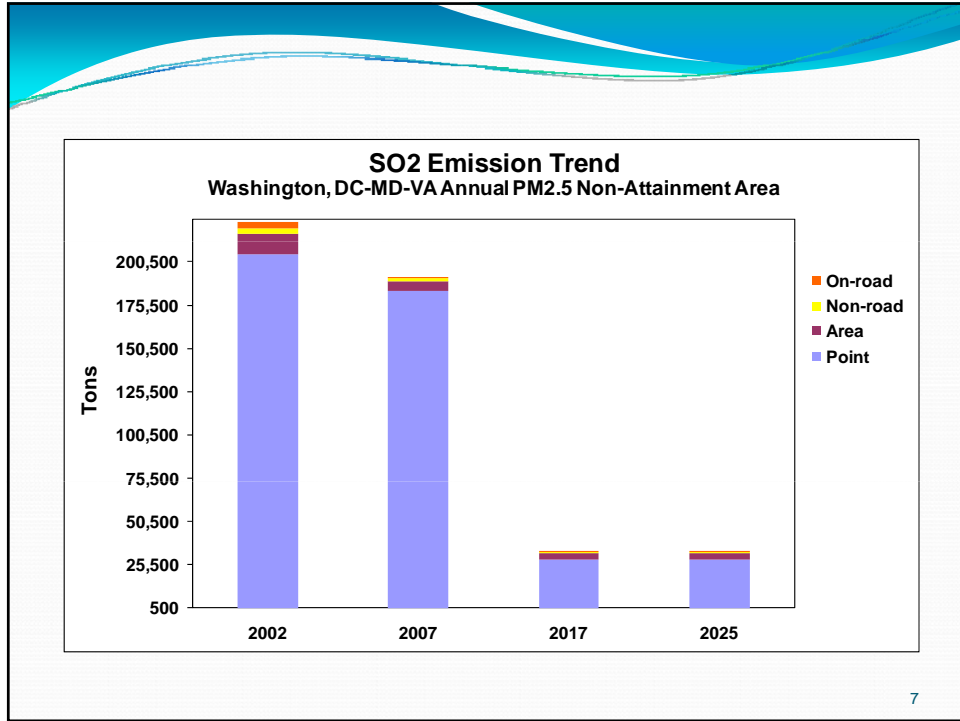
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Emissions Trend (Washington, DC-MD-VA PM2.5 NAA)



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Conclusion

- **NO_x, SO₂, & PM_{2.5}-Pri emissions**
 - 2002 → 2007 → 2017 → 2025
- **Downward emissions trend**
 - 2002 – 2007: Reduced emission satisfies the criterion for Redesignation Request
 - 2007 – 2017 & 2007 – 2025: Downward trend demonstrates continued maintenance of 1997 annual PM_{2.5} standard (15 ug/m³)

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Annual Emissions (Tons) by Source

	PM2.5-Pri	PM2.5-Pri	PM2.5-Pri	PM2.5-Pri	NOx	NOx	NOx	NOx	SO2	SO2	SO2	SO2
	2002	2007	2017	2025	2002	2007	2017	2025	2002	2007	2017	2025
Point	4,155	5,547	5,656	5,693	60,608	37,855	22,481	23,044	204,602	183,449	28,183	28,377
Area	13,667	9,528	9,632	9,725	13,954	8,936	9,009	9,342	12,322	5,733	4,139	3,862
Non-road	2,584	2,198	1,579	1,269	26,188	26,817	17,600	14,719	2,833	1,652	433	517
On-road	3,959	3,452	1,787	1,322	126,953	91,639	41,709	27,400	3,609	607	560	531
Total	24,364	20,724	18,654	18,010	227,703	165,247	90,799	74,504	223,366	191,441	33,315	33,287