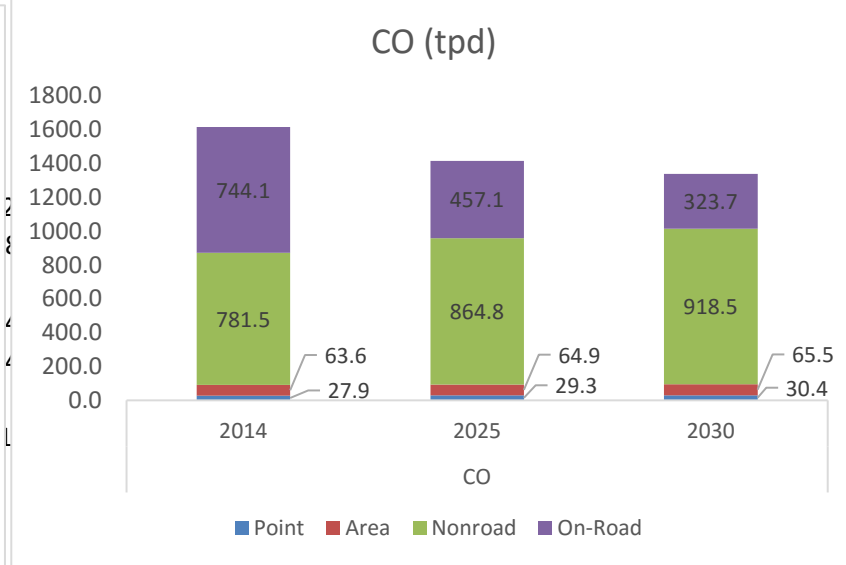
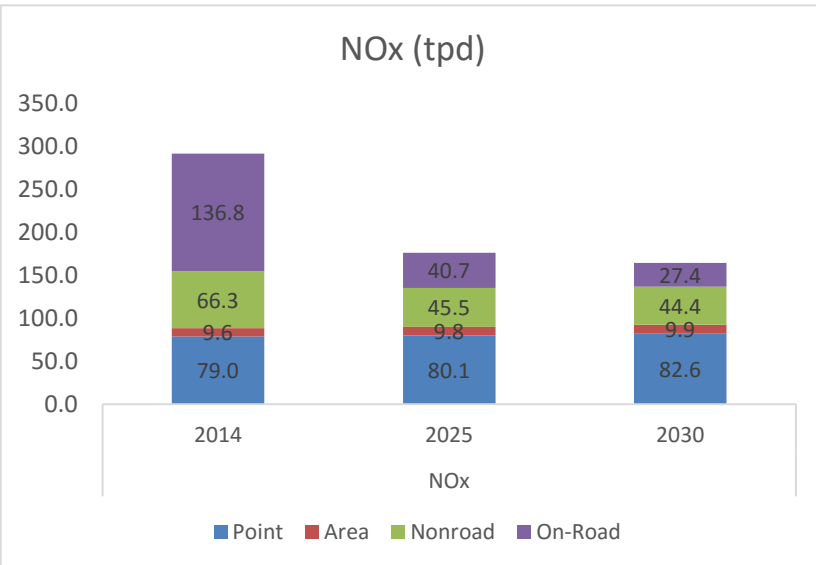
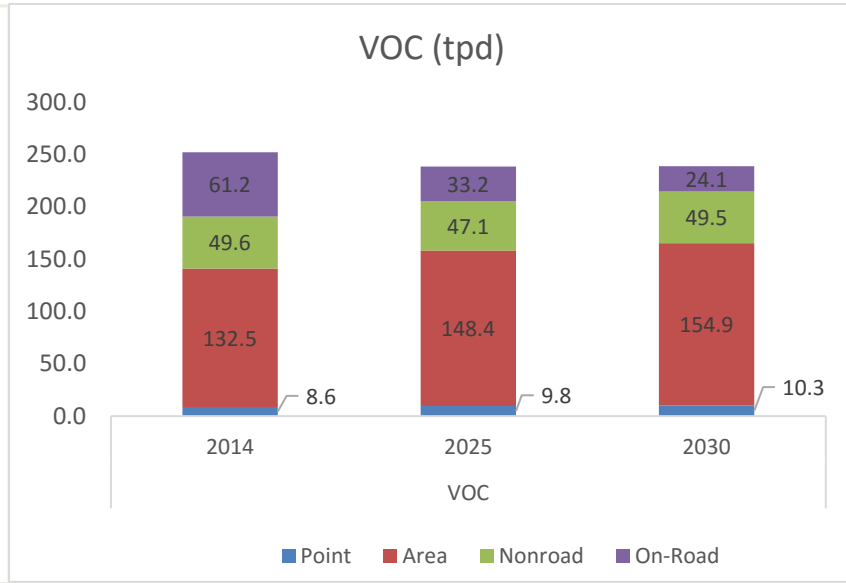
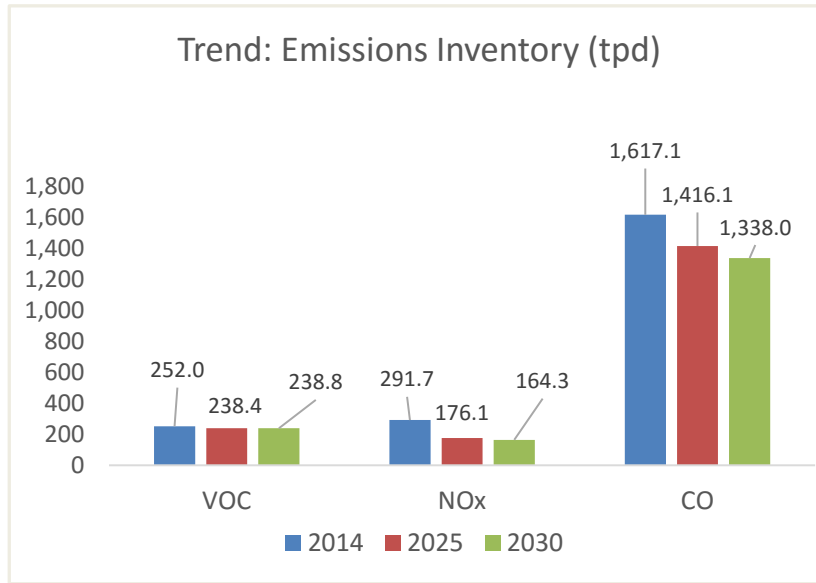
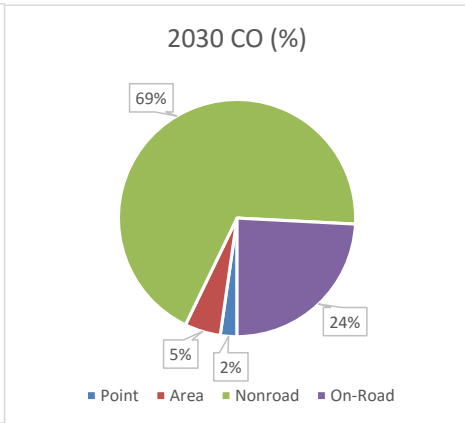
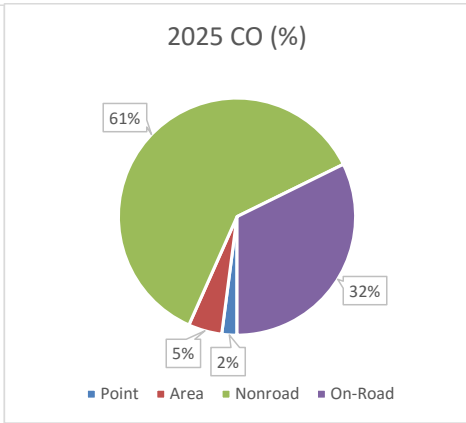
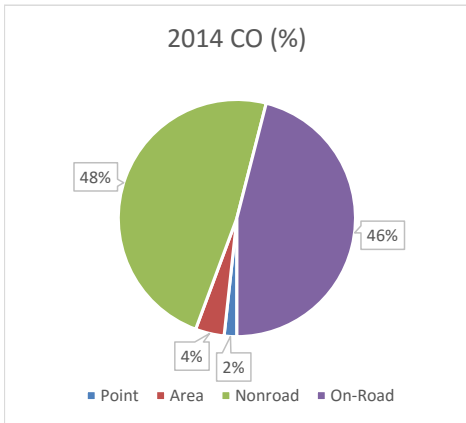
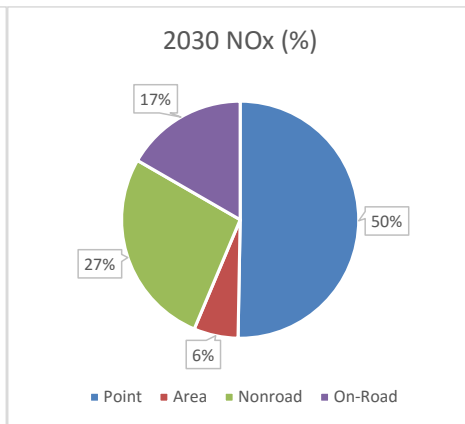
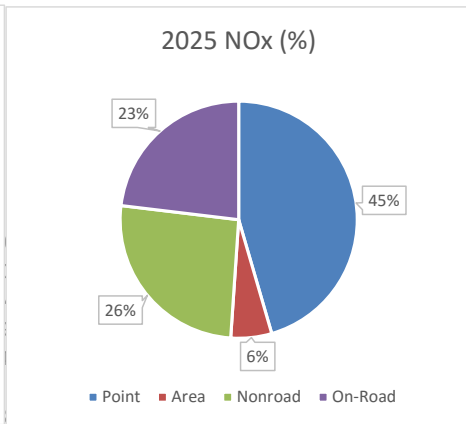
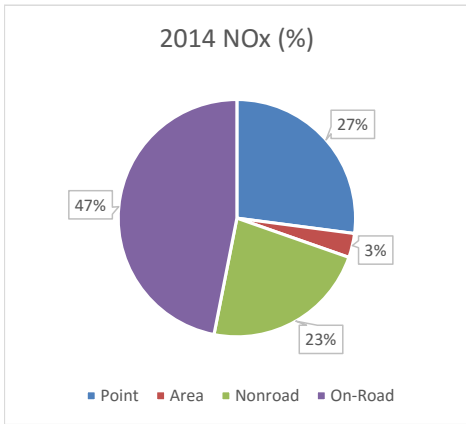
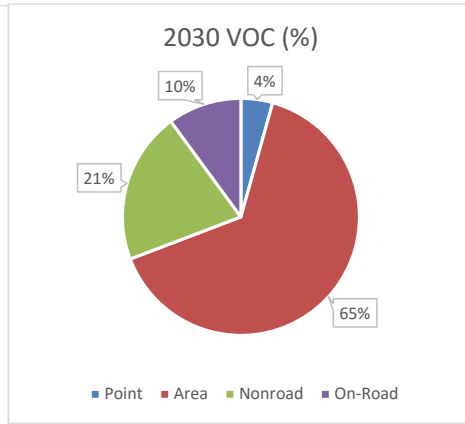
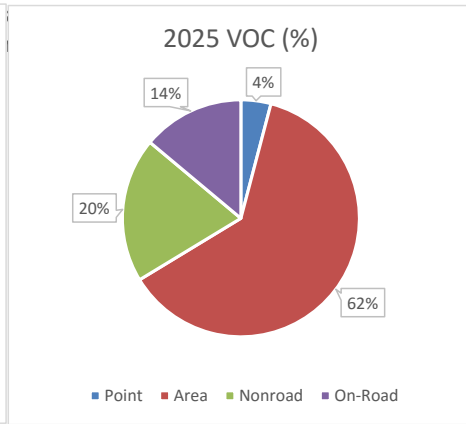
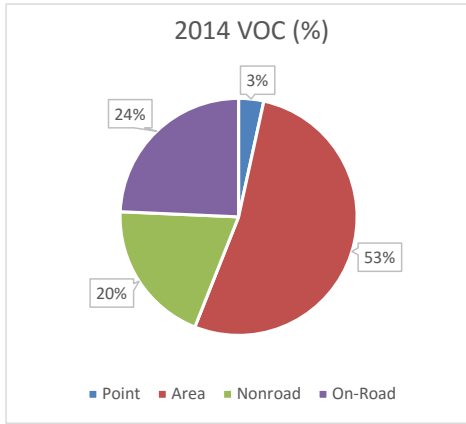


**Draft Emissions Inventory: Redesignation Request & Maintenance Plan
Washington DC-MD-VA 2008 Ozone NAAQS Nonattainment Area**

Item 3, MWAQC-TAC
May 9, 2017



Non-EGU emissions for 2025 and 2030 assumed same as 2014 pending actual data from DOEE.



Draft Emissions Inventory - Washington, DC-MD-VA 2008 Ozone NAAQS Nonattainment Area (May 9, 2017)
Redesignation Request & Maintenance Plan

VOC

Jurisdiction	EGU			NEGU			Quasi-Point			Area			Marine/Air/Rail			Nonroad Model (MOVES2014a)			On-Road (MOVES2014a)			Total		
	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	0.00	0.00	0.00	0.13	0.13	0.13	0.00	0.00	0.00	14.57	17.10	18.18	0.10	0.11	0.11	2.39	1.79	1.83	4.87	2.55	1.97	22.06	21.68	22.23
MD	1.39	1.55	1.61	3.88	4.93	5.41	1.24	1.24	1.24	59.08	64.16	66.51	0.52	0.54	0.56	24.26	21.84	22.82	31.20	16.32	11.39	121.57	110.59	109.54
VA	0.31	0.21	0.23	1.68	1.69	1.71	0.00	0.00	0.00	58.85	67.10	70.20	1.49	1.58	1.64	20.83	21.25	22.50	25.18	14.30	10.71	108.34	106.15	106.98
Region Total	1.70	1.76	1.84	5.69	6.76	7.25	1.24	1.24	1.24	132.51	148.36	154.90	2.11	2.24	2.31	47.48	44.88	47.15	61.25	33.18	24.06	251.98	238.41	238.76

NOX

Jurisdiction	EGU			NEGU			Quasi-Point			Area			Marine/Air/Rail			Nonroad Model (MOVES2014a)			On-Road (MOVES2014a)			Total		
	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	0.00	0.00	0.00	0.96	0.96	0.96	0.00	0.00	0.00	0.05	0.06	0.06	0.68	0.78	0.81	6.83	3.30	3.00	9.28	2.51	1.65	17.81	7.61	6.48
MD	38.37	42.68	44.40	9.44	10.36	10.77	14.37	14.37	14.37	7.07	7.28	7.38	3.76	4.17	4.34	21.85	13.02	12.26	70.87	21.21	14.04	165.73	113.09	107.57
VA	9.88	5.82	6.13	5.95	5.96	5.98	0.00	0.00	0.00	2.47	2.49	2.49	9.89	10.92	11.41	23.30	13.30	12.54	56.68	16.96	11.70	108.18	55.44	50.25
Region Total	48.25	48.50	50.53	16.35	17.28	17.72	14.37	14.37	14.37	9.60	9.82	9.93	14.34	15.87	16.56	51.99	29.62	27.80	136.84	40.68	27.39	291.72	176.14	164.29

CO

Jurisdiction	EGU			NEGU			Quasi-Point			Area			Marine/Air/Rail			Nonroad Model (MOVES2014a)			On-Road (MOVES2014a)			Total		
	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	1.79	2.10	2.23	1.78	1.95	2.01	35.76	35.47	36.73	59.45	37.94	26.85	99.48	78.15	68.53
MD	12.57	13.98	14.55	4.68	5.23	5.48	4.17	4.17	4.17	30.49	30.75	30.88	3.44	3.72	3.83	356.78	395.01	420.60	380.62	222.21	157.38	792.76	675.06	636.88
VA	4.07	3.47	3.78	1.70	1.70	1.72	0.00	0.00	0.00	31.28	32.07	32.37	13.55	13.33	13.85	370.21	415.35	441.45	304.01	196.94	139.45	724.82	662.86	632.63
Region Total	16.64	17.46	18.33	7.08	7.63	7.90	4.17	4.17	4.17	63.56	64.91	65.47	18.78	18.99	19.69	762.76	845.83	898.79	744.08	457.08	323.69	1,617.07	1,416.08	1,338.04

Non-EGU emissions for 2025 and 2030 assumed same as 2014 pending actual data from DOEE.

Ozone Season Day Inventory (tpd) - Point (EGU)

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MD	1.39	1.55	1.61	38.37	42.68	44.40	12.57	13.98	14.55
VA	0.31	0.21	0.23	9.88	5.82	6.13	4.07	3.47	3.78
Washington, DC-MD-VA 2008 O3 NAA	1.70	1.76	1.84	48.25	48.50	50.53	16.64	17.46	18.33

Ozone Season Day Inventory (tpd) - Point (NEGU)

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	0.13	0.13	0.13	0.96	0.96	0.96	0.70	0.70	0.70
MD	3.88	4.93	5.41	9.44	10.36	10.77	4.68	5.23	5.48
VA	1.68	1.69	1.71	5.95	5.96	5.98	1.70	1.70	1.72
Washington, DC-MD-VA 2008 O3 NAA	5.69	6.76	7.25	16.35	17.28	17.72	7.08	7.63	7.90

Ozone Season Day Inventory (tpd) - Quasi-Point

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MD	1.24	1.24	1.24	14.37	14.37	14.37	4.17	4.17	4.17
VA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Washington, DC-MD-VA 2008 O3 NAA	1.24	1.24	1.24	14.37	14.37	14.37	4.17	4.17	4.17

Ozone Season Day Inventory (tpd) - Point (EGU,NEGU,Quasi-Point)

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	0.13	0.13	0.13	0.96	0.96	0.96	0.70	0.70	0.70
MD	6.51	7.73	8.27	62.18	67.41	69.55	21.42	23.38	24.20
VA	1.99	1.90	1.94	15.83	11.78	12.11	5.77	5.18	5.50
Washington, DC-MD-VA 2008 O3 NAA	8.63	9.76	10.33	78.97	80.15	82.62	27.89	29.26	30.40

Non-EGU emissions for 2025 and 2030 assumed same as 2014 pending actual data from DOEE.

Ozone Season Day Inventory (tpd) - Area

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	14.57	17.10	18.18	0.05	0.06	0.06	1.79	2.10	2.23
MD	59.08	64.16	66.51	7.07	7.28	7.38	30.49	30.75	30.88
VA	58.85	67.10	70.20	2.47	2.49	2.49	31.28	32.07	32.37
Washington, DC-MD-VA 2008 O3 NAA	132.51	148.36	154.90	9.60	9.82	9.93	63.56	64.91	65.47

Ozone Season Day Inventory (tpd) - Nonroad Model (MOVES2014a)

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	2.39	1.79	1.83	6.83	3.30	3.00	35.76	35.47	36.73
MD	24.26	21.84	22.82	21.85	13.02	12.26	356.78	395.01	420.60
VA	20.83	21.25	22.50	23.30	13.30	12.54	370.21	415.35	441.45
Washington, DC-MD-VA									
2008 O3 NAA	47.48	44.88	47.15	51.99	29.62	27.80	762.76	845.83	898.79

Ozone Season Day Inventory (tpd) - Nonroad Source (MAR)

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	0.10	0.11	0.11	0.68	0.78	0.81	1.78	1.95	2.01
MD	0.52	0.54	0.56	3.76	4.17	4.34	3.44	3.72	3.83
VA	1.49	1.58	1.64	9.89	10.92	11.41	13.55	13.33	13.85
Washington, DC-MD-VA									
2008 O3 NAA	2.11	2.24	2.31	14.34	15.87	16.56	18.78	18.99	19.69

Ozone Season Day Inventory (tpd) - Nonroad Model + MAR

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	2.49	1.90	1.94	7.51	4.08	3.81	37.55	37.42	38.75
MD	24.78	22.38	23.38	25.61	17.19	16.60	360.22	398.73	424.43
VA	22.32	22.83	24.14	33.20	24.22	23.94	383.76	428.68	455.30
Washington, DC-MD-VA									
2008 O3 NAA	49.59	47.12	49.46	66.32	45.49	44.35	781.54	864.82	918.48

Ozone Season Day Inventory (tpd) - On-Road Model (MOVES2014a)

Jurisdiction	VOC			NOx			CO		
	2014	2025	2030	2014	2025	2030	2014	2025	2030
DC	4.87	2.55	1.97	9.28	2.51	1.65	59.45	37.94	26.85
MD	31.20	16.32	11.39	70.87	21.21	14.04	380.62	222.21	157.38
VA	25.18	14.30	10.71	56.68	16.96	11.70	304.01	196.94	139.45
Washington, DC-MD-VA 2008 O3 NAA	61.25	33.18	24.06	136.84	40.68	27.39	744.08	457.08	323.69