



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Radiation Protection



Appalachian Compact LLRW Disposal Data Calendar Year 2018

Appalachian Compact Commission Meeting
November 8, 2019

Tom Wolf, Governor

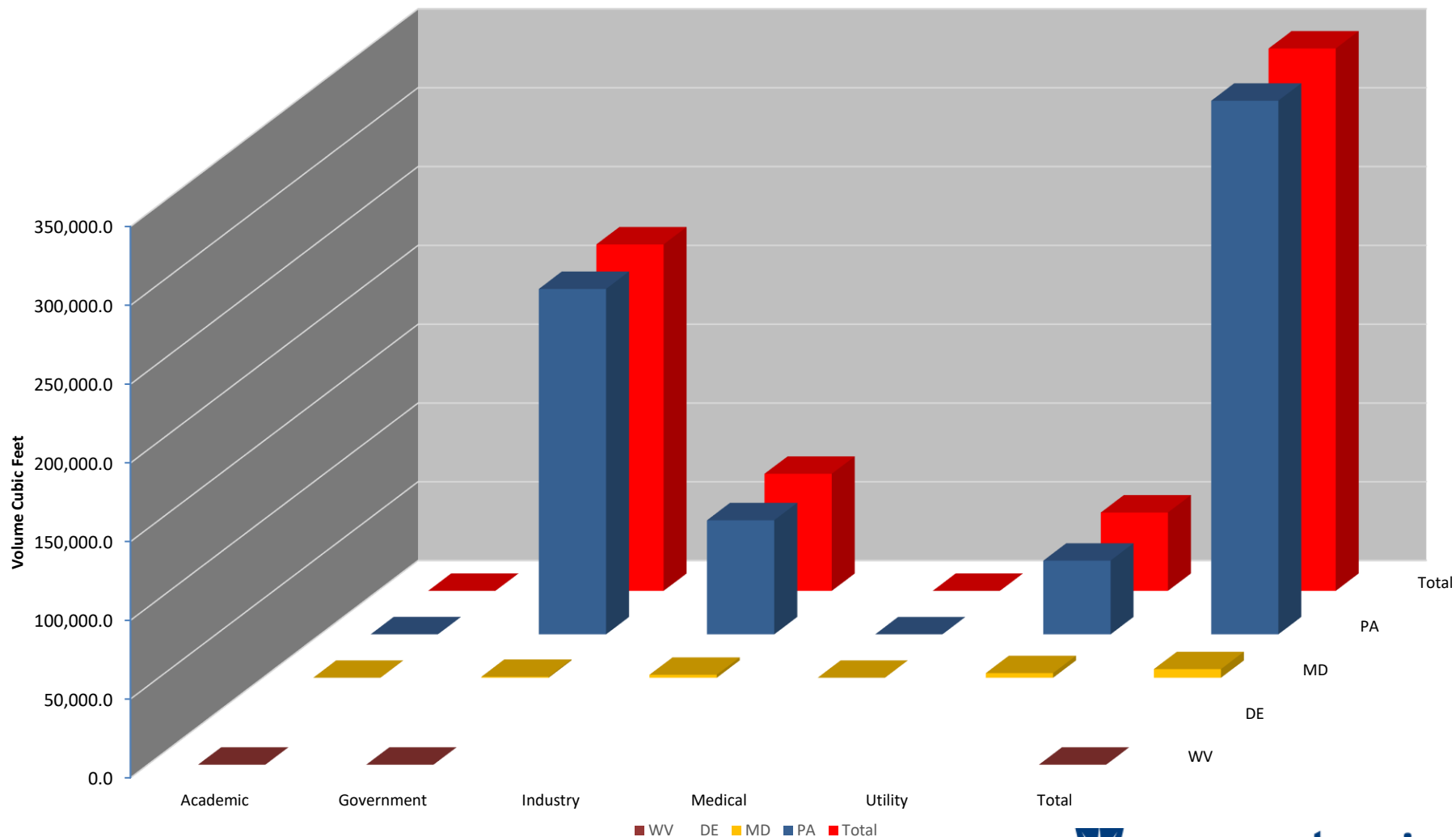
Patrick McDonnell, Secretary

Appalachian Compact Disposed LLRW Volume by State and Facility Type - 2018

Facility Type/State	WV	DE	MD	PA	Total
Academic	13.0	0	0.70	28.92	42.62
Government	4.0	0	615.40	219,321	219,940
Industry	0	0	1,907	72,479	74,386
Medical	0	0	10.00	9.73	19.73
Utility	0	0	2,966	46,830	49,796
Total	17.0	0	5,499	338,668	344,184

Volume is in cubic feet. This data is for LLRW disposal at EnergySolutions in Clive, Utah, and Waste Control Specialists in Andrews, Texas, for the calendar year 2018.

Appalachian Compact Disposed LLRW Volume by State and Facility Type - 2018

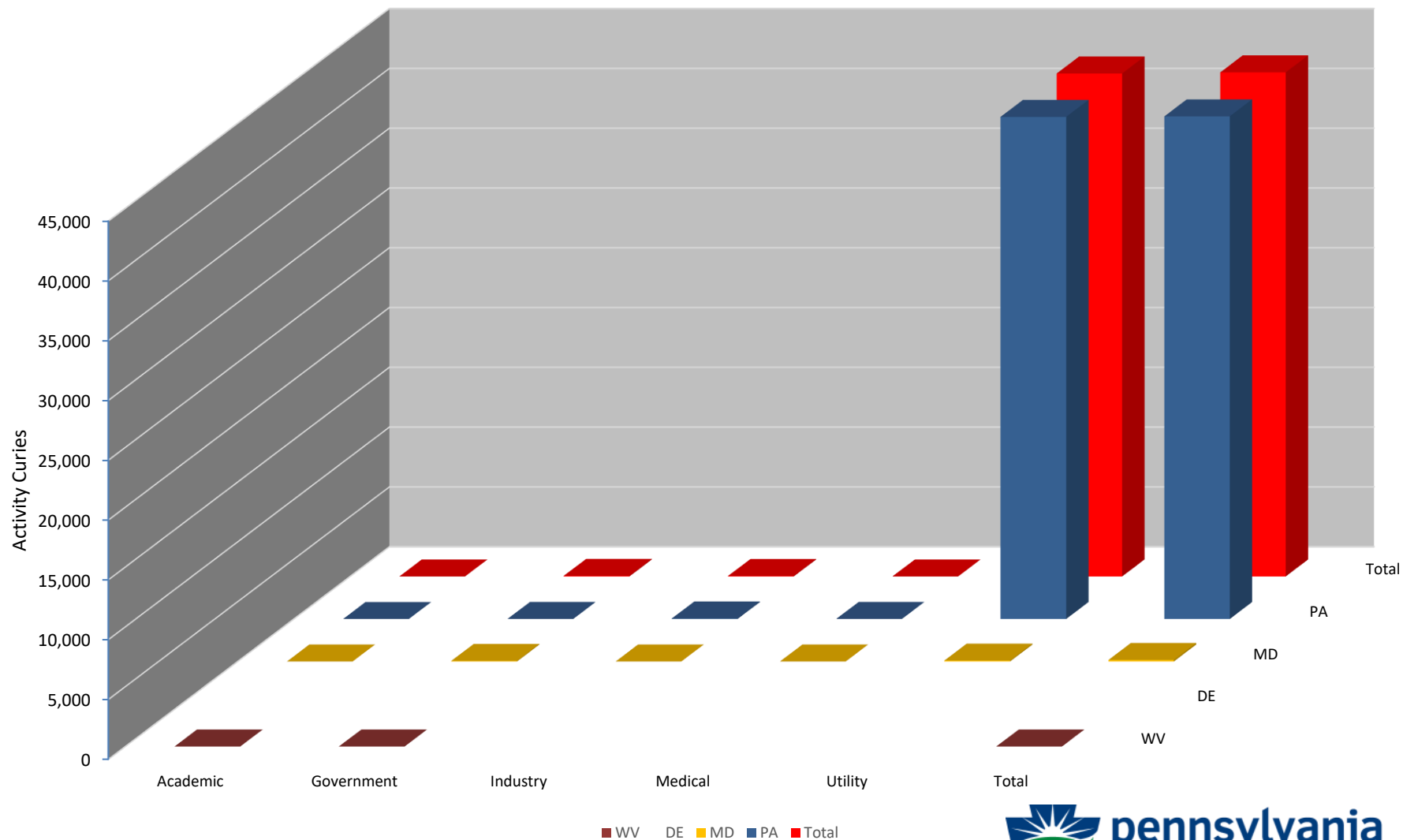


Appalachian Compact Disposed LLRW Activity by State and Facility Type - 2018

Facility Type/State	WV	DE	MD	PA	Total
Academic	0.01	0	0.00045	0.02	0.03
Government	0.00119	0	49.06	0.42	49.48
Industry	0	0	0.12	42.04	42.16
Medical	0	0	0.01	0.15	0.16
Utility	0	0	76.12	41,986.72	42,063
Total	0.01	0	125.31	42,029.35	42,155

Activity is in curies. This data is for LLRW disposal at EnergySolutions in Clive, Utah, and Waste Control Specialists in Andrews, Texas, for the calendar year 2018.

Appalachian Compact Disposed LLRW Activity by State and Facility Type - 2018

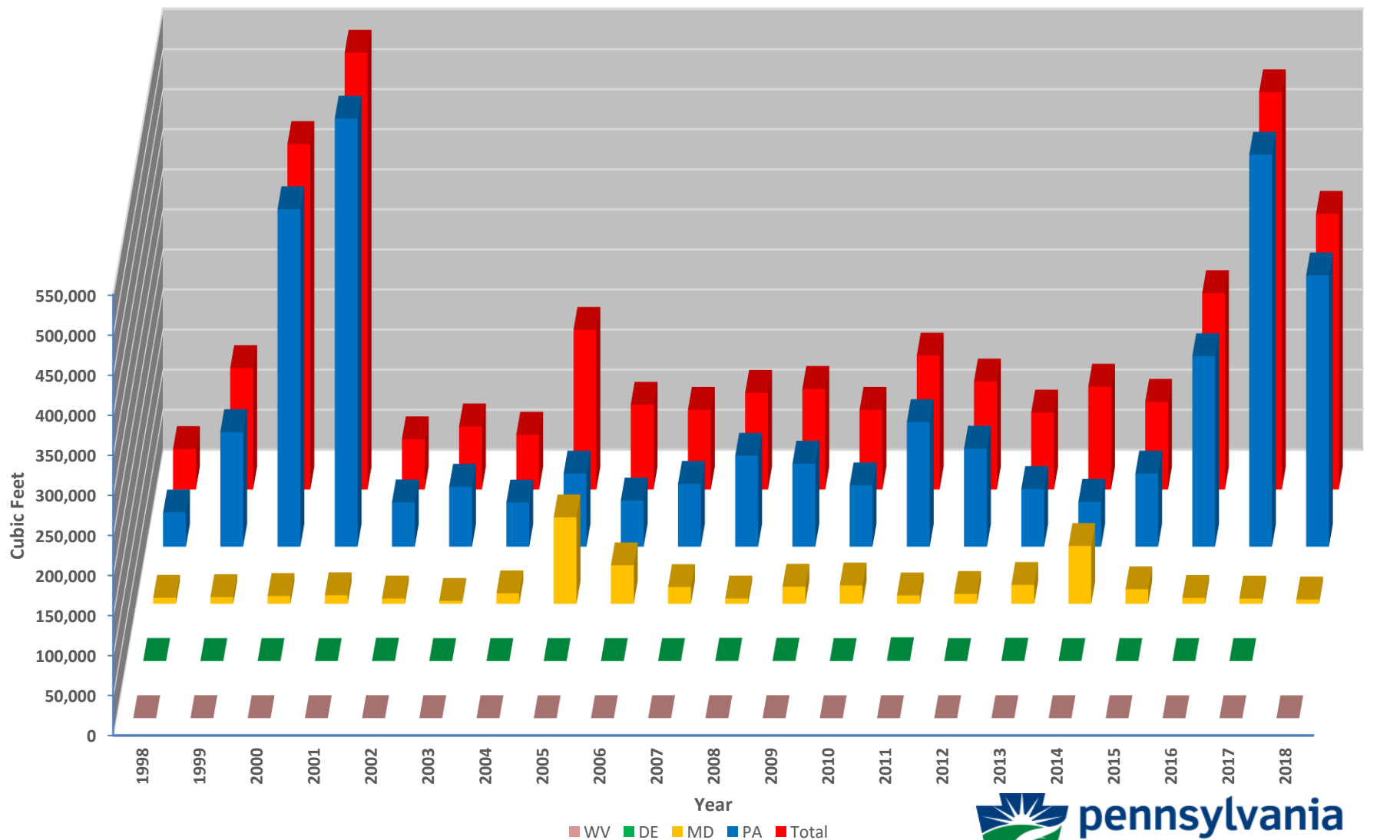


Appalachian Compact Disposed LLRW Volume in Cubic Feet from 1998 to 2018

Year	WV	DE	MD	PA	Total
1998	48.0	173.8	7,604.6	42,686.0	50,512.4
1999	158.7	80.6	8,406.8	143,043.7	151,689.8
2000	53.4	27.6	9,766.8	421,398.1	431,245.9
2001	44.1	76.2	10,759.9	534,429.4	545,309.6
2002	183.3	366.4	6,752.8	55,371.4	62,673.9
2003	151.8	73.5	3,703.1	74,901.0	78,829.4
2004	34.8	48.8	13,177.8	55,136.0	68,397.4
2005	2.4	74.2	107,956.4	91,292.6	199,325.6
2006	38.0	59.2	48,131.8	57,627.7	105,856.7
2007	48.7	42.7	21,015.6	78,454.5	99,561.5
2008	132.2	414.8	6,702.5	113,483.2	120,732.7
2009 *	134.1	431.2	21,451.3	103,666.9	125,683.5
2010 *	11.3	29.4	22,957.6	76,519.4	99,517.7
2011 *	19.1	1,061.0	10,568.7	155,508.5	167,157.3
2012 *	21.0	75.2	12,364.3	122,380.2	134,840.7
2013 *	44.8	339.5	23,597.2	72,066.9	96,048.4
2014* **	24.8	42.7	72,334.3	56,040.4	128,442.2
2015* **	19.0	45.2	18,202.9	91,222.9	109,490.0
2016* **	1.8	4.5	7,351.0	237,692.0	245,049.0
2017* **	0.68	34.13	6,588.0	489,265.90	495,888.71
2018* **	17.0	0	5,498	338,668	344,184
Total	1,188.98	3,500.63	442,891.40	3,410,856.70	Grand Total
					3,860,436.41

* 2009 to 2013 LLRW volume only includes disposal at EnergySolutions in Clive, Utah. ** 2014 to 2018 includes disposal at EnergySolutions in Clive, Utah, and Waste Control Specialists in Andrews, Texas. Years 1998 to 2008 include disposal at Barnwell, South Carolina, and Energy Solutions, Clive, Utah.

Appalachian Compact Disposed LLRW Volume in Cubic Feet from 1998 to 2018

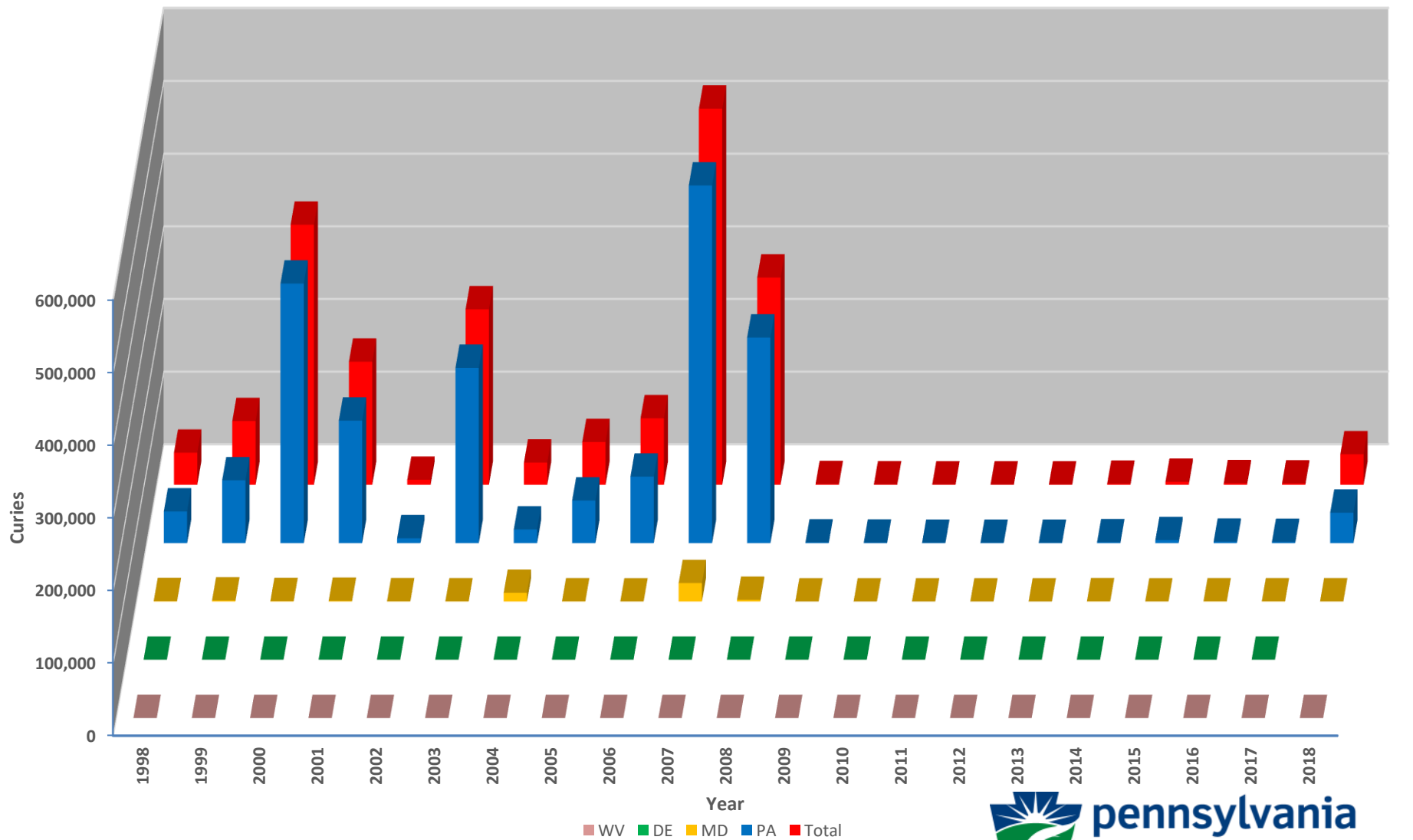


Appalachian Compact Disposed LLRW Activity in Curies from 1998 to 2018

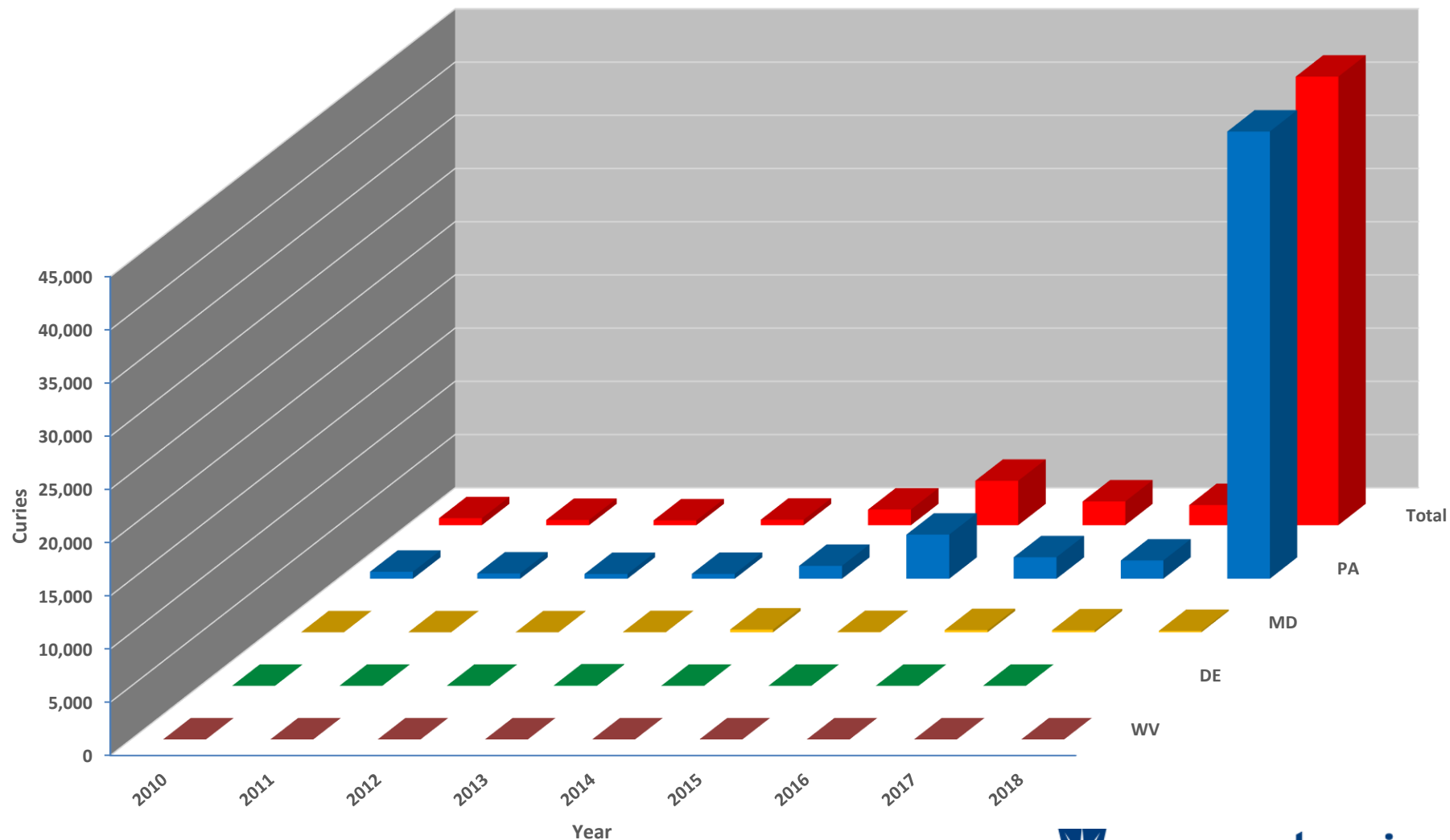
Year	WV	DE	MD	PA	Total
1998	37.3	0.1	531.5	43,691.0	44,259.9
1999	0.5	0.1	1,335.7	86,618.0	87,954.3
2000	2.2	0.02	484.0	357,624.4	358,110.7
2001	0.03	0.03	903.3	168,919.6	169,822.9
2002	0.1	0.5	244.5	6,777.4	7,022.5
2003	0.2	24.7	166.3	241,649.8	241,840.9
2004	0.8	0.2	11,830.7	18,890.3	30,722.0
2005	0.7	31.3	156.8	58,786.2	58,974.9
2006	0.03	11.9	60.1	91,719.1	91,791.1
2007	0.2	12.9	25,304.7	492,579.3	517,897.0
2008	0.1	12.2	2,181.5	283,328.8	285,522.6
2009 *	0.02	0.5	4.7	1,001.4	1,006.6
2010 *	0.01	0.03	1.4	656.8	658.2
2011 *	0.02	1.0	1.8	492.6	495.5
2012 *	0.003	0.01	2.1	449.3	451.4
2013 *	0.01	45.3	15.7	458.5	519.5
2014 **	0.002	0.01	260.7	1,212.8	1,473.5
2015 **	0.02	0.007	27.8	4,147.3	4,175.2
2016 **	0.35	0.014	209	2,020.93	2,230.29
2017 **	0.00001	0.0017	178.52	1,714.26	1,892.78
2018 **	0.01	0	125.31	42,029.35	42,155
Total	42.61	140.82	44,026	1,904,767	Grand Total
					1,948,977

* 2009 to 2013 LLRW activity only includes disposal at EnergySolutions in Clive, Utah. ** 2014 to 2018 includes disposal at EnergySolutions in Clive, Utah, and Waste Control Specialists in Andrews, Texas. Years 1998 to 2008 include disposal at Barnwell, South Carolina, and EnergySolutions, Clive, Utah.

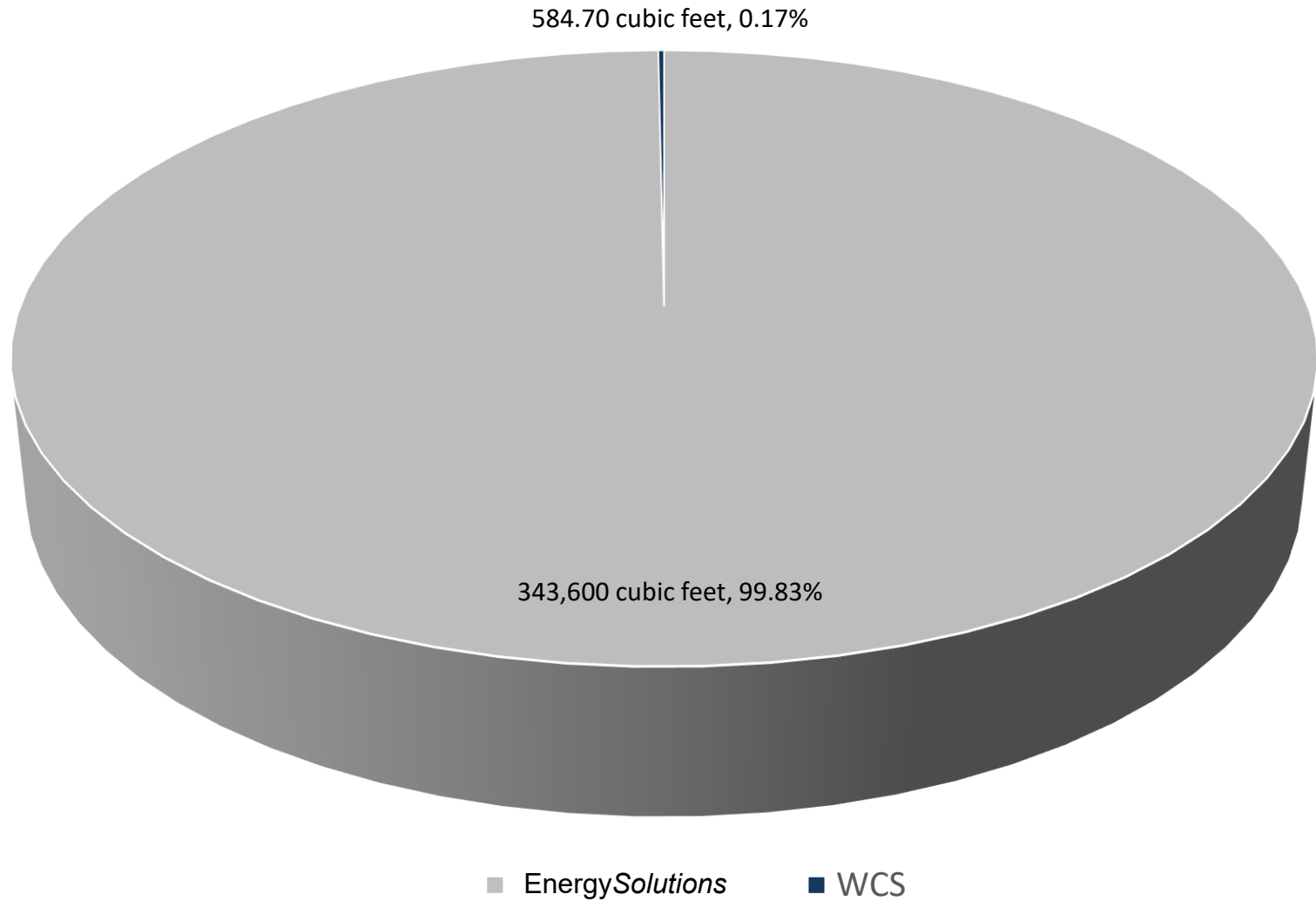
Appalachian Compact Disposed LLRW Activity in Curies from 1998 to 2018



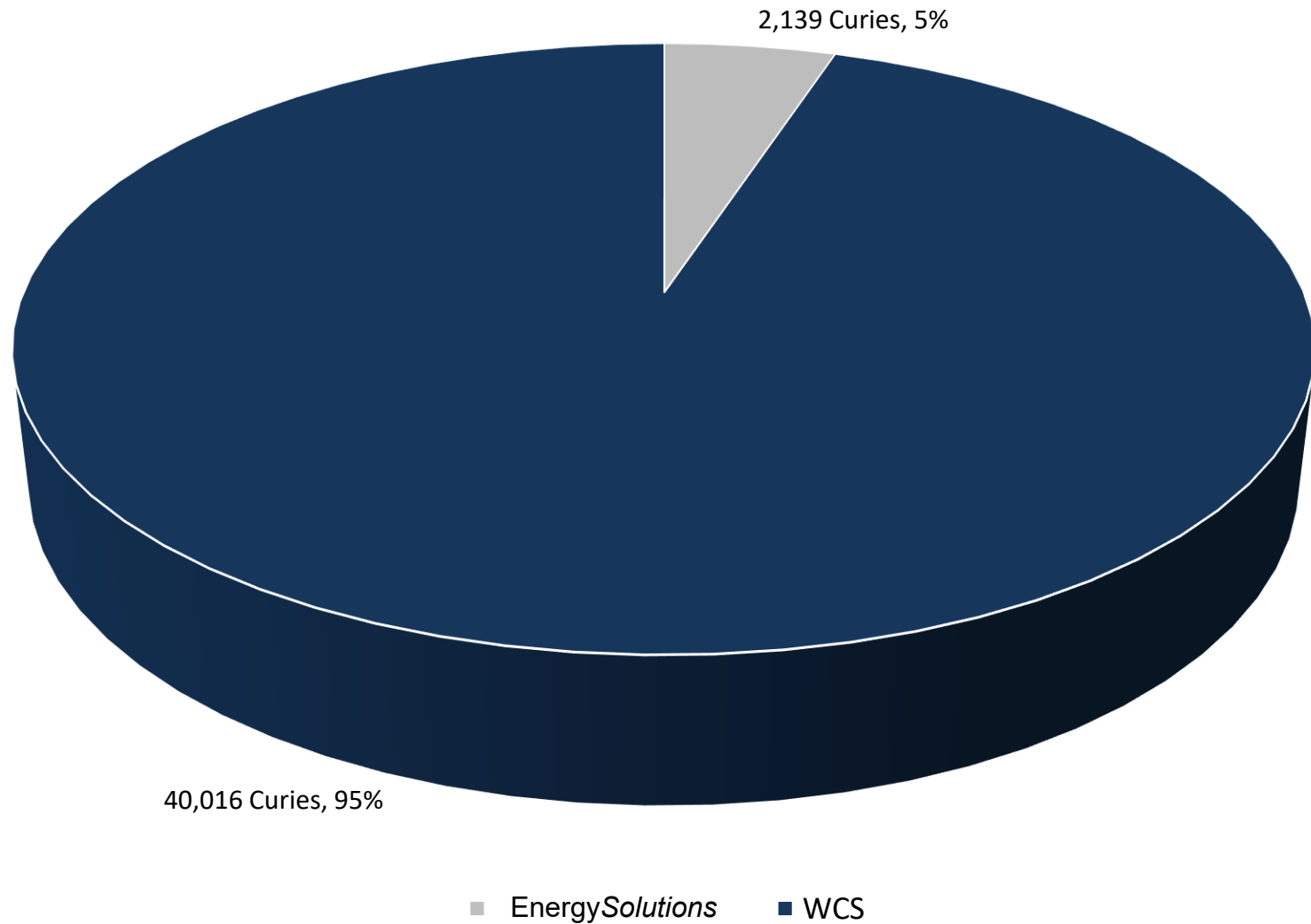
Appalachian Compact Disposed LLRW Activity in Curies from 2010 to 2018



Appalachian Compact Percent Disposed LLRW Volume by Disposal Site - 2018



Appalachian Compact Percent Disposed LLRW Activity by Disposal Site - 2018



**Thank you.
Questions?**

Rich Janati

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