



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Radiation Protection

Appalachian Compact LLRW Disposal Data Calendar Year 2016

Low-Level Waste Advisory Committee Meeting
October 10, 2017

Tom Wolf, Governor

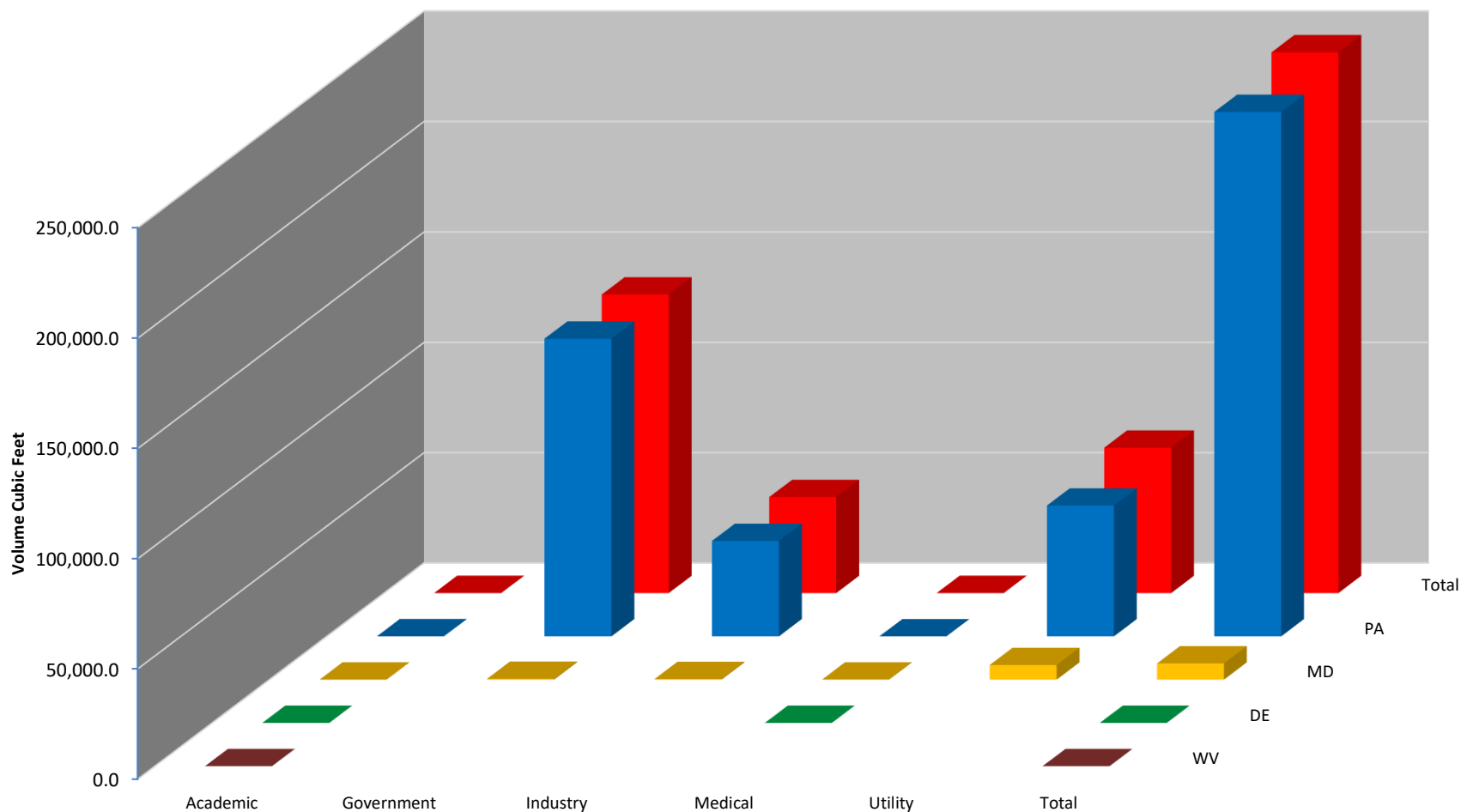
Patrick McDonnell, Secretary

Appalachian Compact Disposed LLRW Volume by State and Facility Type - 2016

Facility Type/State	WV	DE	MD	PA	Total
Academic	1.8	3.0	18	37	59
Government	0	0	379	135,000	135,379
Industry	0	0	283	43,284	43,567
Medical	0	1.5	42	19	62
Utility	0	0	6,629	59,353	65,982
Total	1.8	4.5	7,351	237,692	245,049

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 2016.

Appalachian Compact Disposed LLRW Volume by State and Facility Type - 2016

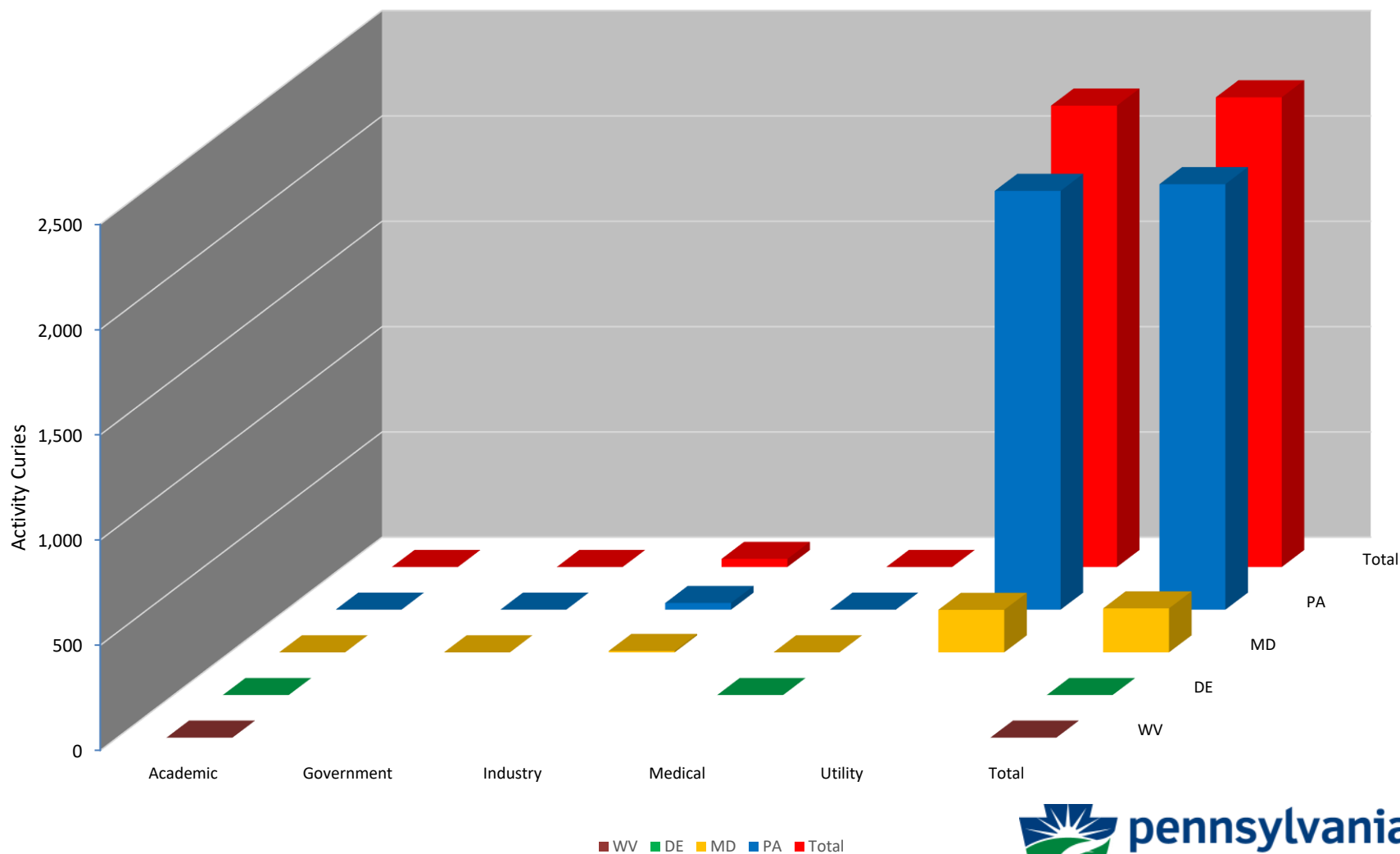


Appalachian Compact Disposed LLRW Activity by State and Facility Type - 2016

Facility Type/State	WV	DE	MD	PA	Total
Academic	0.35	0.013	0.038	0.002	0.40
Government	0	0	0.034	0.056	0.090
Industry	0	0	6.88	31.80	38.67
Medical	0	0.00017	0.051	0.042	0.093
Utility	0	0	202.00	1989.03	2,191.03
Total	0.35	0.014	209.00	2,020.92	2,230.29

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 2016.

Appalachian Compact Disposed LLRW Activity by State and Facility Type - 2016

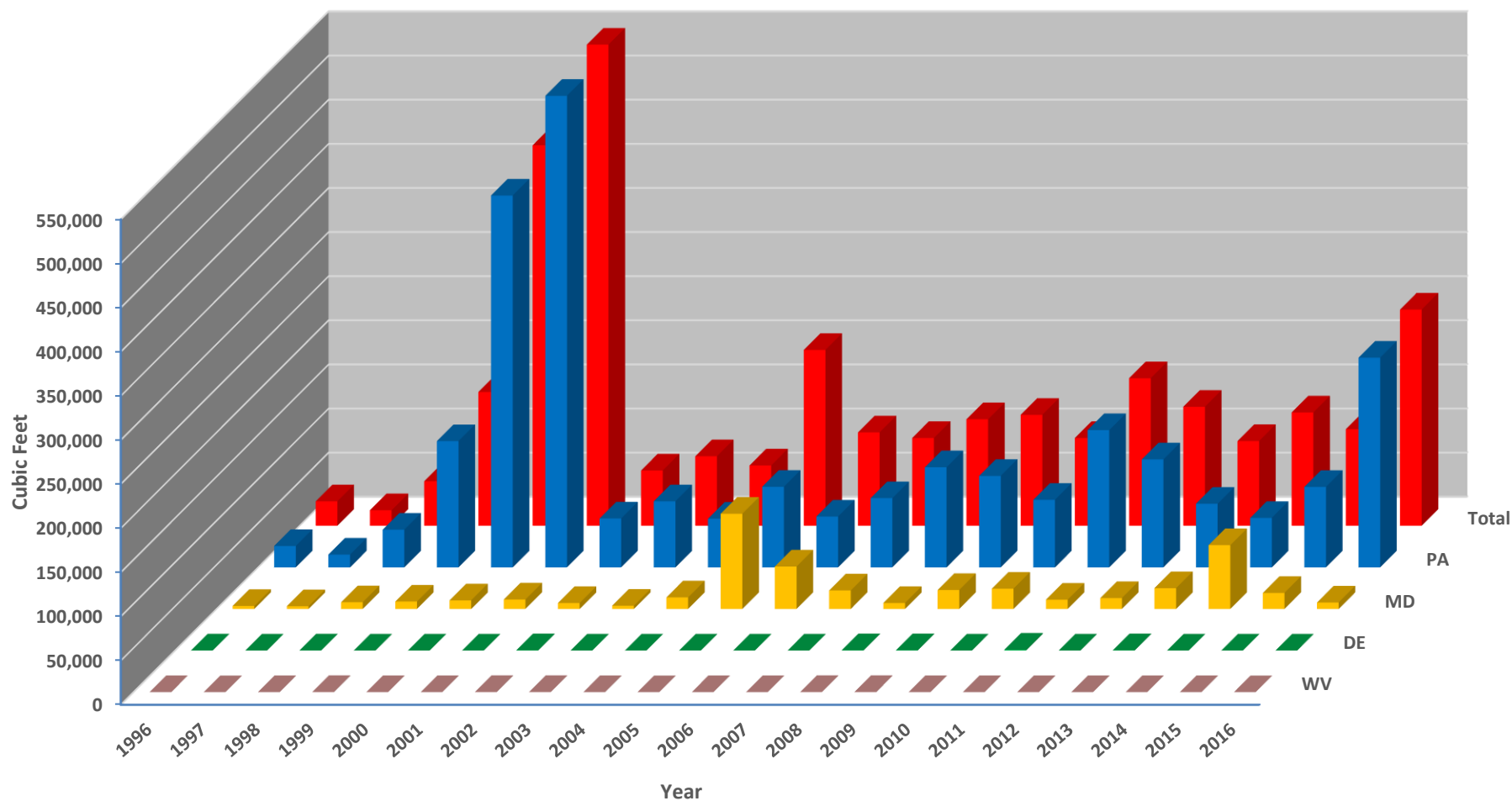


Appalachian Compact Disposed LLRW Volume in Cubic Feet from 1996 to 2016

Year	WV	DE	MD	PA	Total
1996	34.8	127.2	3,391.1	24,203.1	27,756.2
1997	1.8	23.9	3,096.5	14,486.2	17,608.4
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
Total	1,207.9	3,617.6	439,293.0	2,621,610.1	Grand Total
					3,065,728.30

* 2009 to 2013 LLRW volume only includes disposal at EnergySolutions in Clive, Utah. ** 2014 to 2016 includes disposal at EnergySolutions in Clive, Utah, and Waste Control Specialists in Andrews, Texas. Years 1996 to 2008 include disposal at Barnwell, South Carolina, and Energy Solutions, Clive, Utah.

Appalachian Compact Disposed LLRW Volume in Cubic Feet from 1996 to 2016

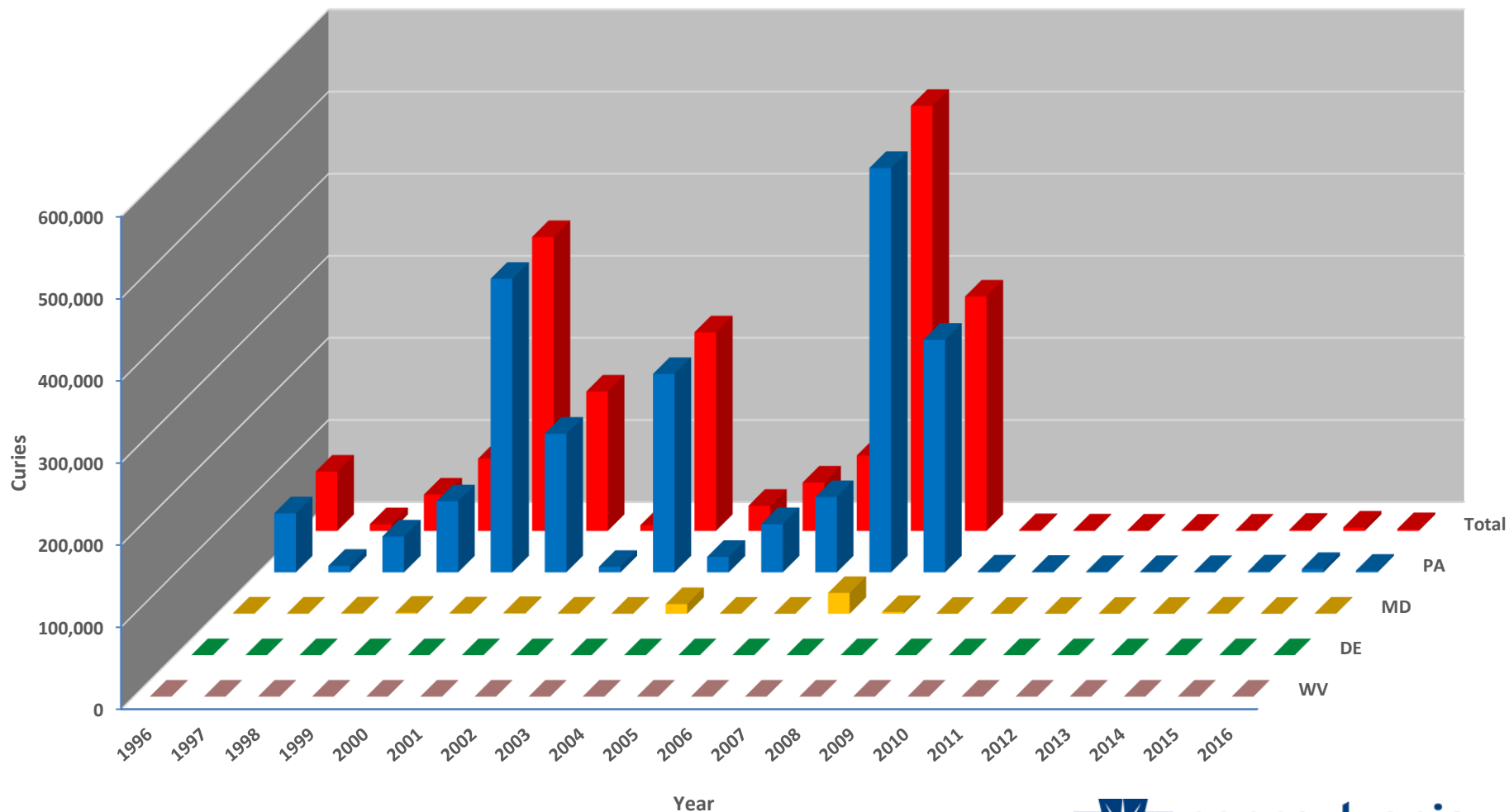


Appalachian Compact Disposed LLRW Activity in Curies from 1996 to 2016

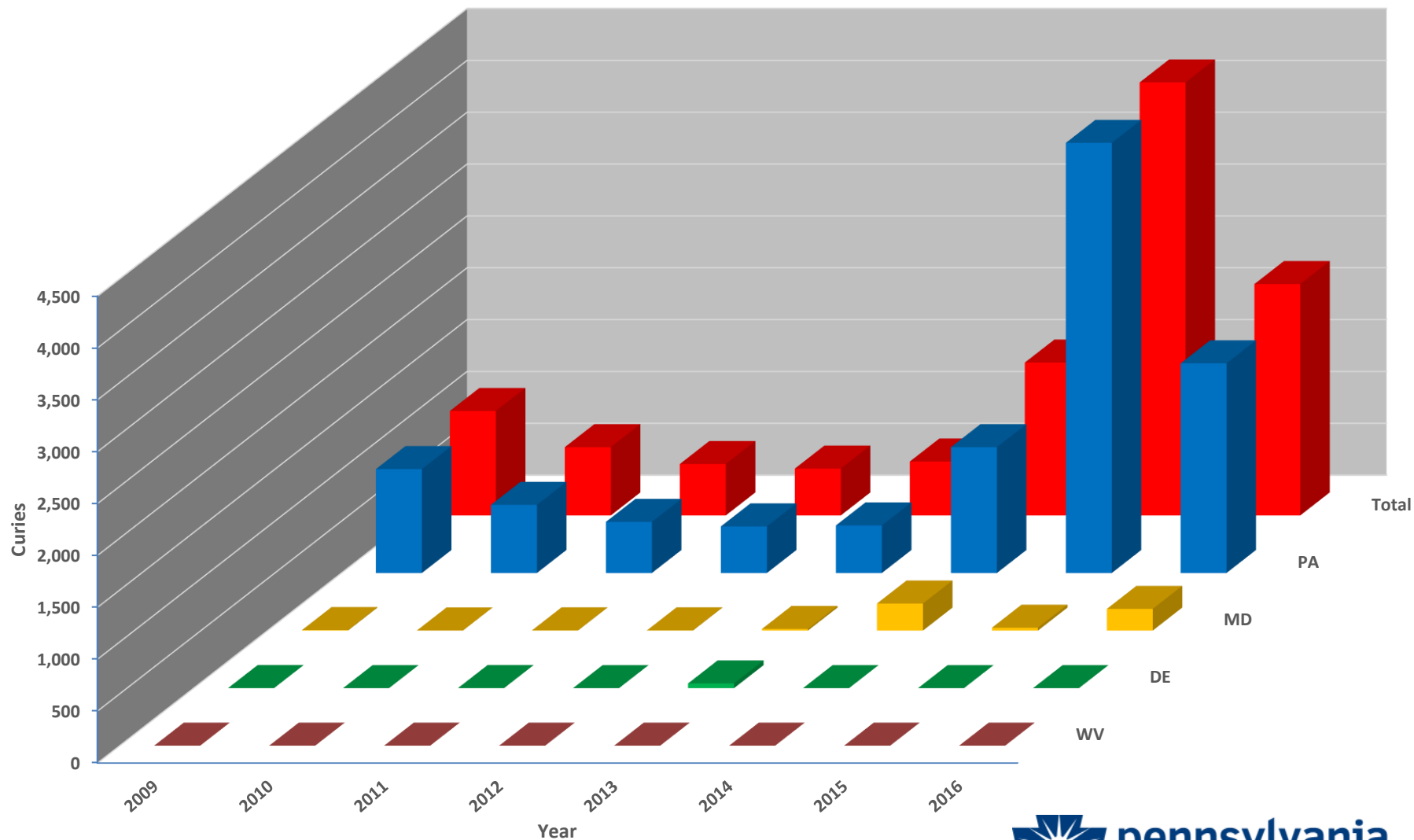
Year	WV	DE	MD	PA	Total
1996	0.1	5.6	349.1	71,900.5	72,255.4
1997	0.03	1.3	198.5	8,017.9	8,217.7
1998	37.3	0.1	531.5	43,691.0	44,259.9
1999	0.5	0.1	1,335.7	86,618.0	87,954.3
2000	2.2	0.02	484.0	357,624.4	358,110.7
2001	0.03	0.03	903.3	168,919.6	169,822.9
2002	0.1	0.5	244.5	6,777.4	7,022.5
2003	0.2	24.7	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
Total	42.725	147.72	44,269.9	1,940,941.93	Grand Total
					1,985,402.09

* 2009 to 2013 LLRW activity only includes disposal at EnergySolutions in Clive, Utah. ** 2014 to 2016 includes disposal at EnergySolutions in Clive, Utah, and Waste Control Specialists in Andrews, Texas. Years 1996 to 2008 include disposal at Barnwell, South Carolina, and EnergySolutions, Clive, Utah.

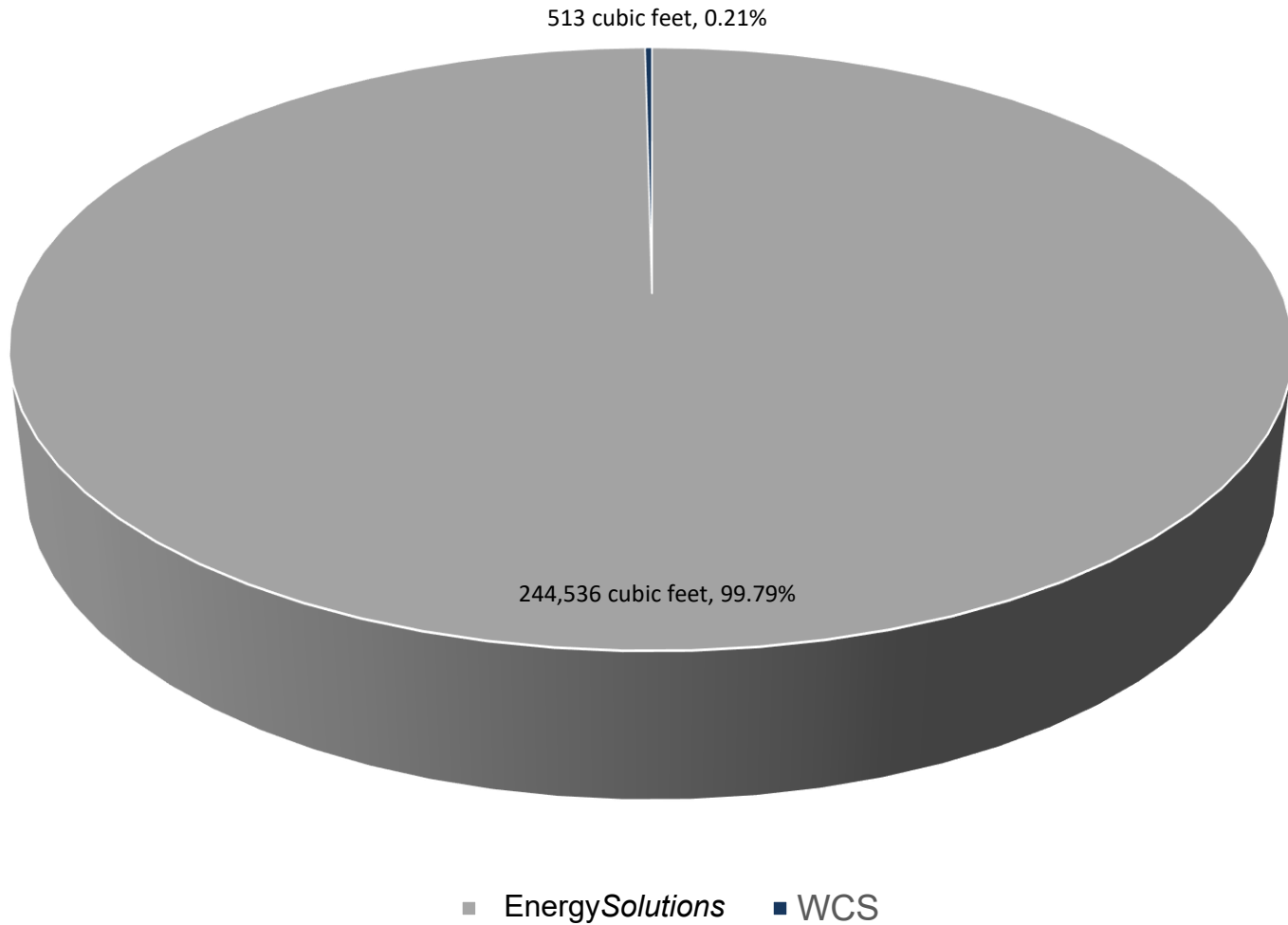
Appalachian Compact Disposed LLRW Activity in Curies from 1996 to 2016



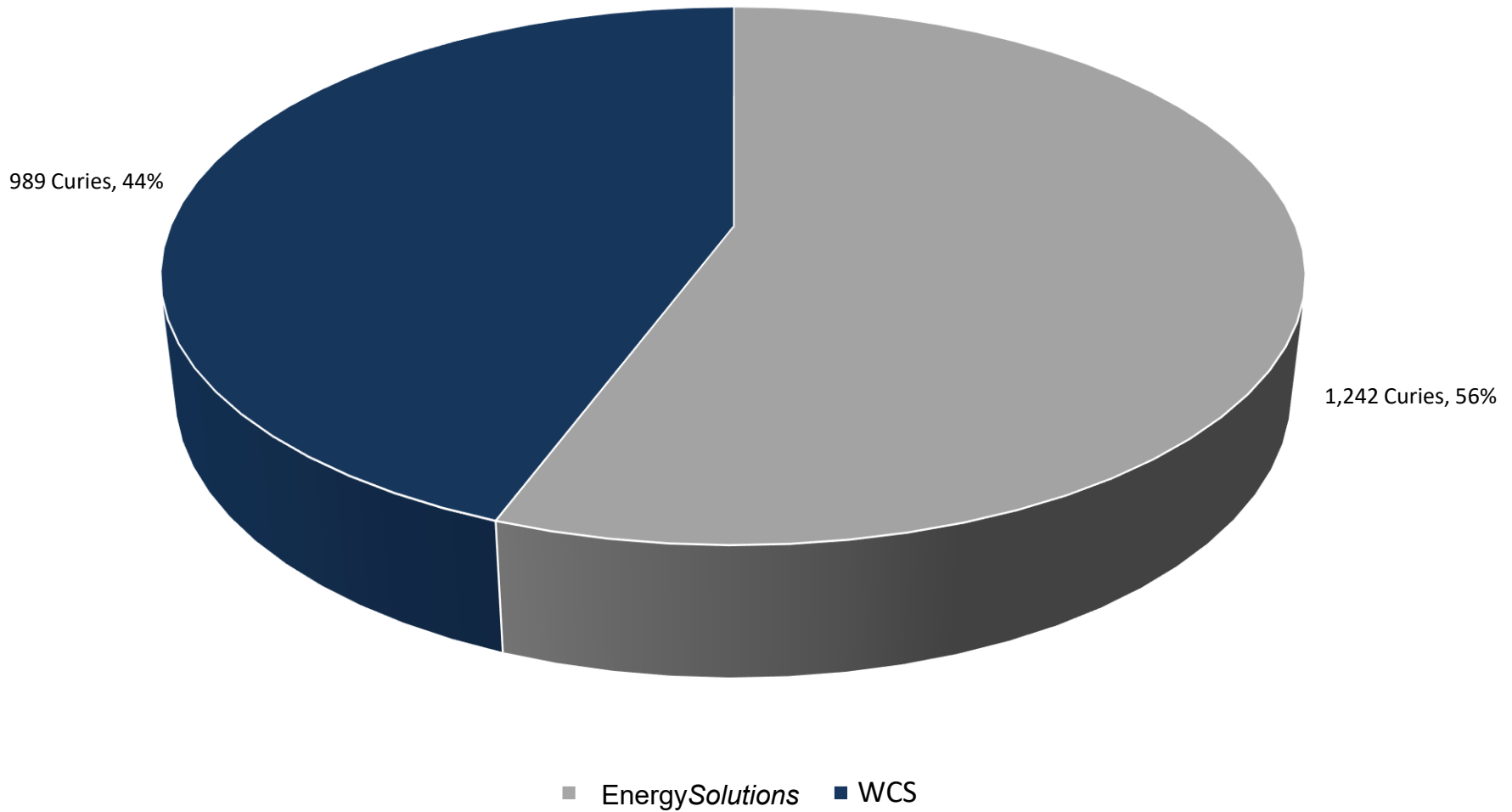
Appalachian Compact Disposed LLRW Activity in Curies from 2009 to 2016



Appalachian Compact Percent Disposed LLRW Volume by Disposal Site - 2016



Appalachian Compact Percent Disposed LLRW Activity by Disposal Site - 2016



Thank you. Questions?

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