

2011-2022 Results for Pollution Prevention Grants and Source Reduction Assistance Grants

	Annual Grant Results per Fiscal Year	Haz. releases & materials reduced (lbs.)	Gallons of water conserved	MTCO <sub>2</sub> e (GHG emissions) reduced	Dollars savings from P2 actions implemented	P2 Grant funding (\$)	# of P2 Grants	SRA Grant funding (\$)	# of SRA grants	PPIC/PPIN funding	PPIC/PPIN grants
2008	Combined P2/SRA new	127,500,000	1,074,500,000	270,000	\$45,000,000						
2009	P2 grants new	23,217,209	4,056,519,806	313,669	\$99,748,767	\$3,478,262					
	SRA grants new	140,700	6,828,860	1,311	\$562,083			\$893,785			
	PPIN new										
	Combined P2/SRA new	23,357,909	4,063,348,666	314,980	\$100,310,850						
2010	P2 grants new	21,174,088	554,545,653	264,216	\$36,374,482	\$3,507,608					
	SRA grants new	1,961,807	16,738,691	20,233	\$3,889,798			\$961,224			
	PPIN new										
	Combined P2/SRA new	23,135,895	571,284,344	284,449	\$40,264,280						
2011	P2 grants new	8,174,706	999,325,358	933,010	\$83,108,583	\$3,383,779	40				
	SRA grants new	165,087	12,506,901	3,510	\$286,743			\$1,014,721	17		
	PPIN new									\$800,000	8
	Combined P2/SRA new	8,339,793	1,011,832,259	936,520	\$83,395,326						
	P2 new + recurring from '08, '09, '10.	180,066,003	6,684,890,817	1,780,895	\$264,231,832						
	Combined P2/SRA new + recurring from '08, '09, '10.	182,333,597	6,720,965,269	1,805,949	\$268,970,456						
2012	P2 grants new	1,994,139	712,672,169	406,410	\$30,174,023	\$3,601,696	39				
	SRA grants new	371,117	30,831,104	18,482	\$3,116,768			\$974,828	19		
	PPIN new									\$800,000	8
	Combined P2/SRA new	2,365,256	743,503,273	424,892	\$33,290,791						
	P2 new + recurring from '09, '10, '11.	54,560,142	6,323,062,986	1,917,305	\$249,405,855						
	Combined P2/SRA new + recurring from '09, '10, '11.	57,198,853	6,389,968,542	1,960,841	\$257,261,247						
2013	P2 grants new	26,593,662	419,086,271	517,281	\$51,813,634	\$3,473,151	41				
	SRA grants new	7,558,288	15,533,810	30,816	\$12,438,625			\$735,671	13		
	PPIN new									\$800,000	8
	Combined P2/SRA new	34,151,950	434,620,081	548,097	\$64,252,259						
	P2 new + recurring from '10, '11, '12.	57,936,595	2,685,629,451	2,120,917	\$201,470,722						
	Combined P2/SRA new + recurring from '10, '11, '12.	67,992,894	2,761,239,957	2,193,958	\$221,202,656						
2014	P2 grants new	30,178,207	1,075,611,218	387,438	\$29,425,519	\$3,969,461	43				
	SRA grants new	481,372	30,758,683	7,938	\$2,008,137			\$912,902	15		
	PPIN new									\$800,000	8

	Annual Grant Results per Fiscal Year	Haz. releases & materials reduced (lbs.)	Gallons of water conserved	MTCO <sub>2</sub> e (GHG emissions) reduced	Dollars savings from P2 actions implemented	P2 Grant funding (\$)	# of P2 Grants	SRA Grant funding (\$)	# of SRA grants	PPIC/PPIN funding	PPIC/PPIN grants
	Combined P2/SRA new	30,659,579	1,106,369,901	395,376	\$31,433,656						
	P2 new + recurring from '11, '12, '13.	66,940,714	3,206,695,016	2,244,139	\$194,521,759						
	Combined P2/SRA new + recurring from '11, '12, '13.	75,516,578	3,296,325,514	2,304,885	\$212,372,032						
2015	P2 grants new	5,245,912	1,050,503,276	402,078	\$50,126,307	\$3,751,222	38				
	SRA grants new	18,230	57,154,777	22,627	\$10,175,185			\$965,594	15		
	PPIN new									\$680,000	8
	Combined P2/SRA new	5,264,142	1,107,658,053	424,705	\$60,301,492						
	P2 new + recurring from '12, '13, '14.	64,011,920	3,257,872,934	1,713,207	\$161,539,483						
	Combined P2/SRA new + recurring from '12, '13, '14.	72,440,927	3,392,151,308	1,793,070	\$189,278,198						
2016	P2 grants new	3,327,181	796,283,320	309,086	\$42,101,927	\$4,115,043	48				
	SRA grants new	8,251	20,970,819	55,083	\$5,480,426			\$848,854	15		
	PPIN new									\$1,504,000	8
	Combined P2/SRA new	3,335,432	817,254,139	364,169	\$47,582,353						
	P2 new + recurring from '13, '14, '15.	65,344,962	3,341,484,085	1,615,883	\$173,467,387						
	Combined P2/SRA new + recurring from '13, '14, '15.	73,392,873	3,465,902,174	1,732,347	\$203,569,760						
2017	P2 grants new	1,981,843	2,099,088,996	510,044	\$21,030,682	\$4,053,720					
	SRA grants new	5,965,479	583,548	3,866	\$788,521			\$923,481			
	PPIN new										
	Combined P2/SRA new	7,947,322	2,099,672,544	513,910	\$21,819,203						
	P2 new + recurring from '14, '15, '16.	40,733,143	5,021,486,810	1,608,646	\$142,684,435						
	Combined P2/SRA new + recurring from '14, '15, '16.	47,206,475	5,130,954,637	1,698,160	\$161,136,704						
2018	P2 grants new	9,495,988	632,748,013	375,668	\$58,792,859	\$4,657,650	47				
	SRA grants new	389	26,559,231	53,497	\$1,481,903			\$700,007	13		
	PPIN new										
	Combined P2/SRA new	9,496,377	659,307,244	429,165	\$60,274,762						
	P2 new + recurring from '15, '16, '17.	20,050,924	4,578,623,605	1,596,876	\$172,051,775						
	Combined P2/SRA new + recurring from '15, '16, '17.	26,043,273	4,683,891,980	1,731,949	\$189,977,810						

	Annual Grant Results per Fiscal Year	Haz. releases & materials reduced (lbs.)	Gallons of water conserved	MTCO <sub>2</sub> e (GHG emissions) reduced	Dollars savings from P2 actions implemented	P2 Grant funding (\$)	# of P2 Grants	SRA Grant funding (\$)	# of SRA grants	PPIC/PPIN funding	PPIC/PPIN grants
2019	P2 grants new	82,911,266	975,674,778	299,391	\$36,728,360	\$4,657,650					
	SRA grants new	140,953	25,468,106	116,803	\$4,425,927			\$700,008			
	Combined P2/SRA new	83,052,219	1,001,142,884	416,194	\$41,154,287						
	P2 new + recurring from '16, '17, '18.	97,716,278	4,503,795,107	1,494,189	\$158,653,828						
	Combined P2/SRA new + recurring from '16, '17, '18.	103,831,350	4,577,376,811	1,723,438	\$170,830,605						
2020	P2 grants new	7,618,196	1,321,685,711	238,789	\$31,471,165	\$4,583,635	42				
	SRA grants new	12,039	2,574	26,897	\$235,883			\$649,691	11		
	Combined P2/SRA new	7,630,235	1,321,688,285	265,686	\$31,707,048						
	P2 new + recurring from '17, '18, '19.	102,007,293	5,029,197,498	1,423,892	\$148,023,066						
	Combined P2/SRA new + recurring from '17, '18, '19.	108,126,153	5,081,810,957	1,624,955	\$154,955,300						
2021	P2 grants new	3,071,916	577,482,263	152,086	\$13,001,032	\$4,493,646					
	SRA grants new	78,563	788,282	206	\$265,271			\$ 517,295			
	Combined P2/SRA new	3,150,479	578,270,545	152,292	\$13,266,303						
	P2 new + recurring from '18, '19, '20.	103,097,366	3,507,590,765	1,065,934	\$139,993,416						
	Combined P2/SRA new + recurring from '18, '19, '20.	103,329,310	3,560,408,958	1,263,337	\$146,402,400						
2022	P2 grants new	6,633,120	144,672,120	146,572	\$10,963,300	\$4,723,000	32				
	SRA grants new	6,342	340,812	8	\$24,386			1,339,376	13		
	Combined P2/SRA new	6,639,462	145,012,932	146,580	\$10,987,686						
	P2 new + recurring from '19, '20, '21.	100,234,498	3,019,514,872	836,838	\$92,163,857						
	Combined P2/SRA new + recurring from '19, '20, '21.	100,472,395	3,046,114,646	980,752	\$97,115,324						
2011-2022	Combined P2/SRA new TOTAL	202,032,246	11,026,332,140	5,017,586	\$499,465,166	\$49,463,653	370	\$10,282,428	131	\$5,384,000	48
2011-2022	P2 new + recurring TOTAL	952,699,838	51,159,843,946	19,418,721	\$2,098,207,415						
2011-2022	Combined P2/SRA new + recurring TOTAL	1,017,884,678	52,107,110,753	20,813,641	\$2,273,072,492	\$49,463,653	370	\$10,282,428	131	\$5,384,000	48
ROI	<i>The total 2011-2022 federal investment of \$59,746,081 (P2 and SRA) yielded on average a 8.4-fold return as new annual results and a 38.0-fold return as annual new + recurring results in the US economy.</i>										

NOTES:

RECURRING RESULTS are results from prior reporting years that continue to recur. The sum of new and recurring in a year shows an annual view of lifecycle, or "annual recurring," results. Recurring results are counted here for 2011 and forward. Results prior to 2011 are included here only to show the values in 2008, 2009, and 2010 that are being used in the recurring formulas for 2011, 2012, and 2013. Click on a cell to see its formula displayed in the top bar.

ROI (RETURN ON INVESTMENT): Return on investment is a calculation of the cost savings that were achieved (e.g., from buying fewer hazardous inputs, shipping less hazardous waste, reducing regulated air emissions, treating less wastewater, and buying less water, fuel, and energy) divided by the amount of grant funding. In calculating ROI, the grant funding for years 2008, 2009, and 2010 are not included because only the recurring results from those years are being counted toward the annual recurring results for 2011, 2012, and 2013. Taken altogether, this amounts to 1/4 the annual recurring results from 2008, 1/2 the annual recurring results from 2009, and 3/4 the annual recurring results from 2011. These fractions are omitted for simplicity. Note, P2 grants require matching funds from recipients and SRA grants do not.

MTCO<sub>2</sub>e REDUCED expressed as KILOWATT HOURS REDUCED. The vast majority of MTCO<sub>2</sub>e reductions reported from P2/SRA grants were achieved through energy efficiency and reduced use of energy. For simplicity, EPA has converted the entire 2011-2022 combined P2/SRA new and recurring TOTAL for MTCO<sub>2</sub>e reductions to 31.9 Billion Kilowatt Hours (kWh) Reduced (equal to 31.9 Million Megawatt Hours (MWh)) using the P2 Greenhouse Gas Calculator (September 2022 version). Far fewer MTCO<sub>2</sub>e reductions reported from P2/SRA grants were attributable to reduced use of natural gas (measured in BTU/therms, convertible to kWh for equivalency), ancillary work on nonhazardous solid waste avoidance (calculated using EPA's Waste Reduction/WARM Model), and chemical substitutions.

ROI calculations:  $49,463,653 + 10,282,428 = 59,746,081$ .  $449,465,166$  divided by  $59,746,081 = 8.4$ .  $2,273,072,492$  divided by  $59,746,081 = 38.0$ .