

**Emission Reduction Credits
Costs - Santa Barbara County**

7/23/2020

Year	Notes	Pollutant	Total ERCs	Total Cost (\$)	Unit Cost	ARB Code #	Certificate	Purchased By
			(tons/year)		(\$/ton)	SB-yr-xxx		
1999	PN	ROC	1.000	10,000	10,000	99-002	11	Nuevo Energy
1999	PS	ROC	1.000	7,500	7,500	99-001	14	Point Arguello Cos.
1999	PS	ROC	3.200	24,000	7,500	99-003	17	MF Strange & Assoc.
1999	PS	ROC	3.200	59,200	18,500	99-004	21	ENTRIX, Inc.
1999	PS	ROC	3.200	62,160	19,425	99-006	23	POPCO
1999	PN	NOx	4.000	20,000	5,000	99-011	24	POPCO
1999	PN	ROC	11.000	55,000	5,000	99-010	24	POPCO
1999	PN	SOx	11.000	55,000	5,000	99-009	24	POPCO
1999	PN	PM-10	0.500	2,500	5,000	99-008	24	POPCO
1999	PN	PM	0.500	2,500	5,000	99-007	24	POPCO
1999	PN	SOx	2.000	14,000	7,000	99-012	27	Arguello, Inc.
2000	PN	SOx	3.800	19,750	5,000	00-004	31	Arguello, Inc.
2000	PN	ROC	0.200	1,000	5,000	00-003	31	Arguello, Inc.
2000	PN	ROC	13.800	69,000	5,000	00-002	31	Nuevo Energy
2000	PN	NOx	7.200	36,000	5,000	00-001	31	Nuevo Energy
2000	PN	NOx	9.000	90,000	10,000	00-006	34	Nuevo Energy
2000	PN	ROC	5.000	50,000	10,000	00-005	34	Nuevo Energy
2000	CSE	NOx	0.400	16,033	40,083	00-007	44	Arguello, Inc.
2001	PS	SOx	0.560	2,800	5,000	01-002	30	ExxonMobil Production Co.
2001	CSE	ROC	0.060	2,245	37,411	01-001	45	Arguello, Inc.
2001	PSE	ROC	0.530	2,650	5,000	01-004	47	ExxonMobil Production Co.
2001	CSE	ROC	0.400	2,000	5,000	01-003	47	POPCO
2001	PSE	NOx	1.840	9,200	5,000	01-005	50	ExxonMobil Production Co.
2002	PN	ROC	20.000	150,00	7,500	02-001	56	US Air Force
2002	PN	NOx	4.080	61,200	15,000	02-003	59	Boeing
2002	PN	ROC	1.000	10,000	10,000	02-002	59	Boeing
2002	PN	PM10	1.500	15,000	10,000	02-005	62	Boeing
2002	PN	PM	1.500	15,000	10,000	02-004	62	Boeing
2002	PN	NOx	7.200	86,400	12,000	02-007	64	Boeing
2002	PN	ROC	4.000	40,000	10,000	02-006	64	Boeing
2002	PN	ROC	2.269	17,018	7,500	02-010	67	Arguello
2002	PN	SOx	0.051	250	4,901	02-009	67	Arguello
2002	PN	NOx	0.389	7,892	20,521	02-008	67	Arguello
2002	PN	ROC	6.560	88,560	13,500	02-011	73	Arguello
2003	PS	ROC	1.114	11,586	10,400	03-003	46	ExxonMobil Production Co.
2003	PS	ROC	1.323	13,759	10,400	03-004	53	ExxonMobil Production Co.
2003	PN	ROC	2.560	26,880	10,500	03-006	63	ExxonMobil Production Co.
2003	PN	ROC	28.949	251,825	8,750	03-002	76	Arguello
2003	PN	SOx	0.543	2,905	8,750	03-001	76	Arguello
2003	PS	ROC	2.626	27,310	10,400	03-005	78	ExxonMobil Production Co.
2004	PN	ROC	2.000	60,000	30,000	04-001	104	Space Exploration
2004	PS	NOx	2.084	73,465	35,268	04-004	113	Lockheed Martin
2004	PS	ROC	2.916	131,265	45,000	04-003	113	Lockheed Martin
2004	PS	PM	0.016	135	7,500	04-002	113	Lockheed Martin
2006	CSE	NOx	0.868	36,268	41,783	06-006	132	ExxonMobil Production Co.
2006	CSE	PM10	0.032	1,337	41,783	06-007	132	ExxonMobil Production Co.
2006	PS	NOx	0.717	39,435	55,000	06-001	134	Arguello
2006	PS	ROC	2.784	153,120	55,000	06-004	134	Arguello
2006	PS	CO	1.068	0	0	06-003	134	Arguello
2006	PS	SOx	0.051	2,805	55,000	06-002	134	Arguello
2006	PS	PM10	0.046	2,530	55,000	06-005	134	Arguello
2007	CSE	NOx	12.196	187,831	15,401	07-001	149	Point Arguello Cos.

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2008	CSE	NOx	1.860	77,716	41,783	08-001	136	ExxonMobil
2008	PN	ROC	0.200	1,000	5,000	08-003	141	PXP
2008	PN	ROC	1.120	8,400	7,500	08-004	153	PXP
2008	PS	ROC	0.280	15,400	55,000	08-002	169	PXP
2008	PN	ROC	0.300	2,250	7,500	08-005	170	PXP
2009	PN	NOx	9.140	456,900	50,000	09-004	164	The Okonite Company
2009	PN	PM10	0.108	0	0	09-003	164	The Okonite Company
2009	CNE	NOx	7.904	316,160	40,000	09-006	172	BreitBurn Energy
2009	CNE	ROC	2.620	104,800	40,000	09-005	172	BreitBurn Energy
2009	PN	NOx	14.544	727,200	50,000	09-002	180	BKS Energy
2009	PN	ROC	0.284	14,200	50,000	09-001	180	BKS Energy
2010	PN	NOx	12.000	600,000	50,000	10-002	222	The Okonite Company
2010	PN	NOx	5.168	258,400	50,000	10-001	222	BKS Energy
2010	PN	NOx	14.544	756,288	52,000	10-005	230	Aera Energy
2010	PN	ROC	0.284	14,768	52,000	10-004	230	Aera Energy
2010	PN	NOx	5.168	268,736	52,000	10-003	231	Aera Energy
2011	PN	NOx	3.772	226,320	60,000	11-002	239	ERG Operating Company
2011	PN	NOx	6.964	417,840	60,000	11-001	240	ERG Operating Company
2011	PN	NOx	10.000	750,000	75,000	11-004	244	ERG Operating Company
2011	PN	NOx	4.024	255,840	60,000	11-003	244	ERG Operating Company
2011	PN	NOx	4.000	240,000	60,000	11-005	245	United Launch Alliance
2011	PN	PM10	0.008	150	20,000	11-007	246	Space Exploration
2011	PN	NOx	0.540	48,438	89,700	11-006	246	Space Exploration
2012	PN	NOx	1.000	100,000	100,000	12-001	203	Space Exploration
2012	PN	ROC	25.000	1,200,000	48,000	12-002	265	ERG Operating Company
2012	PN	NOx	1.636	188,510	115,000	12-005	288	ERG Operating Company
2012	PN	ROC	0.088	10,222	115,000	12-004	288	ERG Operating Company
2012	PN	CO	0.852	4,255	5,000	12-003	288	ERG Operating Company
2013	PN	NOx	7.816	898,755	115,000	13-001	294	ERG Operating Company
2014	PN	NOx	0.556	69,675	125,000	14-003	341	SpaceX
2014	PN	ROC	0.056	6,825	125,000	14-002	341	SpaceX
2014	PN	CO	0.588	2,933	5,000	14-001	341	SpaceX
2016	PN	NOx	18.120	2,101,920	116,000	16-001	383	ERG Operating Company
2016	PN	NOx	0.531	61,596	116,000	16-002	391	ERG Operating Company
2017	P	NOx	3.126	234,450	75,000	17-002	385	University of California
2017	P	ROC	0.360	27,000	75,000	17-001	385	University of California
2018	P	NOx	12.552	1,506,240	120,000	18-002	345	Ashworth Leininger Group
2018	P	ROC	2.448	281,520	115,000	18-001	443	Ashworth Leininger Group
2018	P	NOx	12.552	1,506,240	120,000	18-004	458	ExxonMobil Production Co.
2018	P	ROC	2.448	281,520	115,000	18-003	459	ExxonMobil Production Co.
2019	P	ROC	5.478	629,970	115,000	19-001	350	Terracore Operating Company
2019	P	ROC	2.220	255,300	115,000	19-002	367	Terracore Operating Company
2019	P	NOx	2.670	320,640	120,000	19-003	368	Terracore Operating Company
2019	P	ROC	0.472	54,280	115,000	19-004	379	Terracore Operating Company
2019	P	NOx	18.120	2,174,400	120,000	19-005	394	Terracore Operating Company
2019	P	ROC	0.584	67,160	115,000	19-006	397	Terracore Operating Company
2019	P	NOx	0.531	63,720	120,000	19-007	410	Terracore Operating Company
2019	P	NOx	1.712	205,440	120,000	19-008	416	Terracore Operating Company
2019	P	ROC	0.300	34,500	115,000	19-009	429	Terracore Operating Company
2019	P	NOx	0.180	21,600	120,000	19-010	430	Terracore Operating Company

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2019	P	ROC	0.448	51,520	115,000	19-011	432	Terracore Operating Company
2019	P	NOx	1.636	196,320	120,000	19-012	448	Terracore Operating Company
2019	P	ROC	0.088	10,120	115,000	19-013	448	Terracore Operating Company
2019	P	CO	0.852	4,260	5,000	19-014	448	Terracore Operating Company
2019	P	ROC	0.574	65,895	115,000	19-015	468	Terracore Operating Company
2019	P	NOx	7.817	938,040	120,000	19-016	470	Terracore Operating Company
2019	P	ROC	0.226	25,990	115,000	19-017	502	Terracore Operating Company
2019	P	NOx	5.792	695,040	120,000	19-018	503	Terracore Operating Company
2019	P	ROC	1.868	214,820	115,000	19-019	503	Terracore Operating Company
2019	P	CO	10.148	50,740	5,000	19-020	503	Terracore Operating Company
2019	P	PM10	0.032	640	20,000	19-021	503	Terracore Operating Company
2020	P	ROC	1.625	81,250	50,000	20-001	446	Sentinel Peak Resources California LLC
2020	P	ROC	2.157	161,775	75,000	20-002	494	Sentinel Peak Resources California LLC

NOTES:

Codes: P = purchase; C = created; E= costs estimated by APCD; S =south county; N = north county