

# South Coast Air Quality Management District

## Annual Publication of Emission Reduction Credit Transactions For Calendar Year 2013 (California Health and Safety Code Section 40709.5)

Effective January 1, 1993, Assembly Bill 3785 (AB 3785) amended Health and Safety Code (HSC) Section 40709.5 to require each air pollution control district to publish a report summarizing Emission Reduction Credit (ERC) transactions<sup>1</sup>, and the transaction costs. The South Coast AQMD also presents this information to the California Air Resources Board (CARB), which prepares an annual publication for statewide distribution.

Table 1 is a summary of ERC transactions for Calendar Year 2013. Table 1 totals, by pollutant, the number of ERC transactions, the quantity of ERCs transferred in units of pounds per day and tons per year, and the average price paid for each ERC. Each ERC that is the subject of these transactions was generated from the shutdown of a stationary source.

**Table 1 ERC Transactions – Calendar Year 2013**

<b>Criteria Pollutant</b>	<b>No. of ERC Transfer Transactions<sup>2</sup></b>	<b>Quantity of ERCs Transferred<sup>3</sup> (lb/day)</b>	<b>Annualized Quantity of ERCs Transferred (ton/year)</b>	<b>Average Transaction Cost<sup>4</sup> (\$/ton/year)</b>
<b>CO</b>	5	146	26.65	\$2,303
<b>NOx</b>	28	309	56.39	\$80,144
<b>PM10</b>	20	224	40.88	\$522,920
<b>ROG</b>	62	1,373	250.57	\$19,877
<b>SOx</b>	3	51	9.31	\$404,110

<sup>1</sup> This report does not include RECLAIM Trading Credit (RTC) transactions.

<sup>2</sup> Includes all privately held ERC certificates that transferred ownership regardless of cost (see Table 2). Short Term Emission Reduction Credit (STERC) transactions are counted as a single transaction, which includes the yearly increments and the permanent credit.

<sup>3</sup> Includes the total amount (pounds per day) of ERCs transferred regardless of cost.

<sup>4</sup> Based only on those ERCs transactions that include sales cost (see Table 2).

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Tables 2a through 2e provide details on the amount and cost of each offset transaction for CO, NOx, PM10, ROG, and SOx, respectively. The Average Transaction Cost (\$/ton/year) does not include barter or subsidiary transactions. This information shall remain on file at AQMD for public review and distribution. As specified in HSC Section 40709.5(e), the reported information does not disclose the identity of the transacting parties.

**Table 2a – CO ERCs Transaction Details**

SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-001	CO	77	650	50,050	14.05	3,561.64
SC-13-002	CO	11	650	7,150	2.01	3,561.64
SC-13-003	CO	1	650	650	0.18	3,561.64
SC-13-004	CO	1	650	650	0.18	3,561.64
SC-13-005	CO	56	51	2,856	10.22	279.45
	TOTAL	146			26.65	
TOTAL WITH \$ AMOUNT		146		61,356	26.65	
AVERAGE COST			420.25			2,303

**Table 2b – NOx ERCs Transaction Details**

SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-006	NOX	12	9,000	108,000	2.19	49,315.07
SC-13-007	NOX	9	8,500	76,500	1.64	46,575.34
SC-13-008	NOX	23	11,000	253,000	4.20	60,273.97
SC-13-009	NOX	2	4,000	8,000	0.37	21,917.81
SC-13-010	NOX	12	22,500	270,000	2.19	123,287.67
SC-13-011	NOX	27	18,519	500,000	4.93	101,471.34
SC-13-012	NOX	4	13,500	54,000	0.73	73,972.60
SC-13-013	NOX	4	13,500	54,000	0.73	73,972.60
SC-13-014	NOX	30	13,500	405,000	5.48	73,972.60
SC-13-015	NOX	15	13,500	202,500	2.74	73,972.60
SC-13-016	NOX	7	18,500	129,500	1.28	101,369.86
SC-13-017	NOX	1	15,152	15,152	0.18	83,022.90
SC-13-018	NOX	1	15,152	15,152	0.18	83,021.97
SC-13-019	NOX	2	15,152	30,303	0.37	83,021.97

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SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-020	NOX	2	15,152	30,303	0.37	83,021.97
SC-13-021	NOX	3	15,152	45,455	0.55	83,021.97
SC-13-022	NOX	4	15,152	60,606	0.73	83,021.97
SC-13-023	NOX	4	15,152	60,606	0.73	83,021.97
SC-13-024	NOX	4	15,152	60,606	0.73	83,021.97
SC-13-025	NOX	6	15,152	90,909	1.10	83,021.97
SC-13-026	NOX	6	15,152	90,909	1.10	83,021.97
SC-13-027	NOX	10	20,000	200,000	1.83	109,589.04
SC-13-028	NOX	70	20,000	1,400,00	12.78	109,589.04
SC-13-029	NOX	23	7,000	161,000	4.20	38,356.16
SC-13-030	NOX	23	7,200	165,600	4.20	39,452.05
SC-13-031	NOX	2	7,000	14,000	0.37	38,356.16
SC-13-032	NOX	2	7,200	14,400	0.37	39,452.05
SC-13-033	NOX	1	4,000	4,000	0.18	21,917.81
	<b>TOTAL</b>	309			56.39	
<b>TOTAL WITH \$ AMOUNT</b>		309		4,519,500	56.39	
<b>AVERAGE COST</b>			14,626			80,144

**Table 2c – PM10 ERCs Transaction Details**

SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-034	PM10	2	92,500	185,000	0.37	506,849.32
SC-13-035	PM10	1	92,500	92,500	0.18	506,849.32
SC-13-036	PM10	4	Internal Transfer	Internal Transfer	0.73	Internal Transfer
SC-13-037	PM10	40	75,000	3,000,000	7.30	410,958.90
SC-13-038	PM10	14	102,500	1,435,000	2.56	561,643.84
SC-13-039	PM10	4	102,500	410,000	0.73	561,643.84
SC-13-040	PM10	4	102,500	410,000	0.73	561,643.84
SC-13-041	PM10	4	102,500	410,000	0.73	561,643.84
SC-13-042	PM10	4	102,500	410,000	0.73	561,643.84
SC-13-043	PM10	3	102,500	307,500	0.55	561,643.84
SC-13-044	PM10	1	Internal Transfer	Internal Transfer	0.18	Internal Transfer
SC-13-045	PM10	1	102,500	102,500	0.18	561,643.84

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SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-046	PM10	114	102,500	11,685,000	20.81	561,643.84
SC-13-047	PM10	3	Agent Transaction	Agent Transaction	0.55	Agent Transaction
SC-13-048	PM10	3	20,000	60,000	0.55	109,589.04
SC-13-049	PM10	2	95,000	190,000	0.37	520,547.95
SC-13-050	PM10	4	95,000	380,000	0.73	520,547.95
SC-13-051	PM10	8	92,000	736,000	1.46	504,109.59
SC-13-052	PM10	4	100,000	400,000	0.73	547,945.21
SC-13-053	PM10	4	100,000	400,000	0.73	547,945.21
	TOTAL	224			40.88	
TOTAL WITH \$ AMOUNT		216		20,613,500	39.42	
AVERAGE COST			92,025			522,920

**Table 2d – ROG ERCs Transaction Details**

SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-054	ROG	6	4,600	27,600	1.10	25,205.48
SC-13-055	ROG	3	4,200	12,600	0.55	23,013.70
SC-13-056	ROG	12	4,200	50,400	2.19	23,013.70
SC-13-057	ROG	13	4,200	54,600	2.37	23,013.70
SC-13-058	ROG	16	4,200	67,200	2.92	23,013.70
SC-13-059	ROG	8	4,200	33,600	1.46	23,013.70
SC-13-060	ROG	10	4,450	44,500	1.83	24,383.56
SC-13-061	ROG	7	4,677	32,738	1.28	25,626.96
SC-13-062	ROG	3	5,500	16,500	0.55	30,136.99
SC-13-063	ROG	3	4,600	13,800	0.55	25,205.48
SC-13-064	ROG	25	4,350	108,750	4.56	23,835.62
SC-13-065	ROG	20	4,350	87,000	3.65	23,835.62
SC-13-066	ROG	16	4,350	69,600	2.92	23,835.62
SC-13-067	ROG	6	4,350	26,100	1.10	23,835.62
SC-13-068	ROG	25	4,200	105,000	4.56	23,013.70
SC-13-069	ROG	172	Internal Transfer	Internal Transfer	31.39	Internal Transfer
SC-13-070	ROG	1	4,800	4,800	0.18	26,301.37

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SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-071	ROG	4	4,800	19,200	0.73	26,301.37
SC-13-072	ROG	109	4,800	523,200	19.89	26,301.37
SC-13-073	ROG	6	4,800	28,800	1.10	26,301.37
SC-13-074	ROG	11	4,800	52,800	2.01	26,301.37
SC-13-075	ROG	9	4,800	43,200	1.64	26,301.37
SC-13-076	ROG	172	Internal Transfer	Internal Transfer	31.39	Internal Transfer
SC-13-077	ROG	50	Internal Transfer	Internal Transfer	9.13	Internal Transfer
SC-13-078	ROG	7	Internal Transfer	Internal Transfer	1.28	Internal Transfer
SC-13-079	ROG	3	4,800	14,400	0.55	26,301.37
SC-13-080	ROG	6	Internal Transfer	Internal Transfer	1.10	Internal Transfer
SC-13-081	ROG	13	Agent Transaction	Agent Transaction	2.37	Agent Transaction
SC-13-082	ROG	9	3,950	35,550	1.64	21,643.84
SC-13-083	ROG	3	4,100	12,300	0.55	22,465.75
SC-13-084	ROG	5	Internal Transfer	Internal Transfer	0.91	Internal Transfer
SC-13-085	ROG	5	Internal Transfer	Internal Transfer	0.91	Internal Transfer
SC-13-086	ROG	36	Internal Transfer	Internal Transfer	6.57	Internal Transfer
SC-13-087	ROG	11	Internal Transfer	Internal Transfer	2.01	Internal Transfer
SC-13-088	ROG	9	Internal Transfer	Internal Transfer	1.64	Internal Transfer
SC-13-089	ROG	13	800	10,400	2.37	4,383.56
SC-13-090	ROG	15	1,300	19,500	2.74	7,123.29
SC-13-091	ROG	18	1,300	23,400	3.29	7,123.29
SC-13-092	ROG	9	3,950	35,550	1.64	21,643.84
SC-13-093	ROG	16	Internal Transfer	Internal Transfer	2.92	Internal Transfer
SC-13-094	ROG	2	Internal Transfer	Internal Transfer	0.37	Internal Transfer
SC-13-095	ROG	30	Internal Transfer	Internal Transfer	5.48	Internal Transfer
SC-13-096	ROG	2	2,000	4,000	0.37	10,958.90
SC-13-097	ROG	2	2,000	4,000	0.37	10,958.90
SC-13-098	ROG	7	5,050	35,350	1.28	27,671.23
SC-13-099	ROG	50	4,200	210,000	9.13	23,013.70
SC-13-100	ROG	38	4,200	159,600	6.94	23,013.70
SC-13-101	ROG	32	2,500	80,000	5.84	13,698.63
SC-13-102	ROG	32	3,800	121,600	5.84	20,821.92
SC-13-103	ROG	1	4,677	4,677	0.18	25,626.96
SC-13-104	ROG	13	4,677	60,800	2.37	25,626.96

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SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-105	ROG	5	4,677	23,385	0.91	25,626.96
SC-13-106	ROG	2	4,000	8,000	0.37	21,917.81
SC-13-107	ROG	5	Internal Transfer	Internal Transfer	0.91	Internal Transfer
SC-13-108	ROG	6	2,159	12,953	1.10	11,829.59
SC-13-109	ROG	88	Agent Transaction	Agent Transaction	16.06	Agent Transaction
SC-13-110	ROG	88	800	70,400	16.06	4,383.56
SC-13-111	ROG	12	3,512	42,144	2.19	19,243.84
SC-13-112	ROG	18	3,975	71,550	3.29	21,780.82
SC-13-113	ROG	48	4,100	196,800	8.76	22,465.75
SC-13-114	ROG	4	4,000	16,000	0.73	21,917.81
SC-13-115	ROG	3	3,950	11,850	0.55	21,643.84
	<b>TOTAL</b>	<b>1,373</b>			<b>250.57</b>	
<b>TOTAL WITH \$ AMOUNT</b>		<b>746</b>		<b>2,706,197</b>	<b>136.15</b>	
<b>AVERAGE COST</b>			<b>3,628</b>			<b>19,877</b>

**Table 2e – SOx ERCs Transaction Details**

SCAQMD No.	Pollutant	Amount (lb/day)	Cost (\$/lb/day)	Total Cost (\$)	Amount (ton/yr)	Cost (\$/ton/yr)
SC-13-116	SOX	2	73,750	147,500	0.365	404,109.59
SC-13-117	SOX	45	Agent Transaction	Agent Transaction	8.213	Agent Transaction
SC-13-118	SOX	4	Swap Transfer	Swap Transfer	0.730	Swap Transfer
	<b>TOTAL</b>	<b>51</b>			<b>9.308</b>	
<b>TOTAL WITH \$ AMOUNT</b>		<b>2</b>		<b>147,500</b>	<b>0.365</b>	
<b>AVERAGE COST</b>			<b>73,750</b>			<b>404,110</b>