2022-2025 RENEWABLE ENERGY STANDARD PLAN

Public Service Company of Colorado

December 2021

Volume 2

Xcel Energy®

Table 4-1 - Renewable Energy Standard (RES) Forecast
Public Service Company of Colorado
2022 Renewable Energy Standard Compliance Plan

Row	Calendar Year	Retail Sales (MWhs)	RES[1] (RECs)	RES DG Requirement (RECs Only)	Retail DG Minimum (RECs Only)	Wholesale DG Minimum (RECs Only)	RES Non-DG Recommendation (RECs)
1	2021	29,078,752	8,723,625	872,363	436,181	436,181	7,851,263
2	2022	28,424,513	8,527,354	852,735	426,368	426,368	7,674,619
3	2023	28,410,492	8,523,148	852,315	426,157	426,157	7,670,833
4	2024	28,785,390	8,635,617	863,562	431,781	431,781	7,772,055
5	2025	28,971,990	8,691,597	869,160	434,580	434,580	7,822,437
6	2026	29,362,701	8,808,810	880,881	440,441	440,441	7,927,929
7	2027	29,787,765	8,936,329	893,633	446,816	446,816	8,042,696
8	2028	30,434,125	9,130,238	913,024	456,512	456,512	8,217,214
9	2029	30,768,183	9,230,455	923,045	461,523	461,523	8,307,409
10	2030	31,281,734	9,384,520	938,452	469,226	469,226	8,446,068
11	2031	31,876,834	9,563,050	956,305	478,153	478,153	8,606,745
12	[1]RES Requirements						
13	Year		RES %	DG%	Retail DG%	Wholesale%	Non-DG%
14	2019						
15	2020			3.00%			
16	2021		30%	3.00%	1.50%	1.50%	27.00%
17	2022		30%	3.00%	1.50%	1.50%	27.00%
18	2023		30%	3.00%	1.50%	1.50%	27.00%
19	2024		30%	3.00%	1.50%	1.50%	27.00%
20	2025		30%	3.00%	1.50%	1.50%	27.00%
21	2026		30%	3.00%	1.50%	1.50%	27.00%
22	2027		30%	3.00%	1.50%	1.50%	27.00%
23	2028		30%	3.00%	1.50%	1.50%	27.00%
24	2029		30%	3.00%	1.50%	1.50%	27.00%
25	2030		30%	3.00%	1.50%	1.50%	27.00%
26	2031		30%	3.00%	1.50%	1.50%	27.00%
27	2032		30%	3.00%	1.50%	1.50%	27.00%
28	2033		30%	3.00%	1.50%	1.50%	27.00%
29	2034		30%	3.00%	1.50%	1.50%	27.00%
30	2035		30%	3.00%	1.50%	1.50%	27.00%
31	2036		30%	3.00%	1.50%	1.50%	27.00%
32	2037		30%	3.00%	1.50%	1.50%	27.00%
				Retail Sales × DG%	50%	50%	

Non-DG Audit
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Retail Sales Forecast from: Jannell Marks & Ralph Pacheco [Sales Energy & Demand Forecast]

Sales (MWh) @Meter

Year	Month	Residential	Small C&I	Large C&I	Street Light	Public Authority	Interdept.	**Total Retail**	Wholesale	**Total Obligation**
2019		9,446,626	12,997,496	6,417,592	184,073	107,569		**29,153,356**	2,053,059	**31,206,415**
2020		9,992,279	12,313,669	6,298,197	144,043	96,345		**28,844,533**	3,449,407	**32,293,941**
2021		10,098,576	12,493,709	6,240,331	156,404	89,732		**29,078,752**	2,101,909	**31,180,660**
2022		9,525,558	12,705,692	5,927,585	153,358	112,320		**28,424,513**	1,995,101	**30,419,614**
2023		9,591,735	12,615,078	5,938,536	152,229	112,914		**28,410,492**	1,919,001	**30,329,493**
2024		9,768,352	12,716,790	6,033,690	153,645	112,914		**28,785,390**	1,767,226	**30,552,616**
2025		9,886,674	12,783,798	6,034,724	153,880	112,914		**28,971,990**	1,879,232	**30,851,222**
2026		10,107,881	12,880,105	6,107,706	154,095	112,914		**29,362,701**	956,943	**30,319,644**
2027		10,354,100	13,018,401	6,148,058	154,293	112,914		**29,787,765**	973,825	**30,761,589**
2028		10,696,176	13,243,002	6,227,617	154,416	112,914		**30,434,125**	956,762	**31,390,887**
2029		10,926,117	13,344,190	6,230,874	154,089	112,914		**30,768,183**	962,749	**31,730,931**
2030		11,242,689	13,505,420	6,266,471	154,241	112,914		**31,281,734**	978,753	**32,260,488**
2031		11,621,481	13,682,125	6,305,934	154,380	112,914		**31,876,834**	970,773	**32,847,607**
2032		-	-	-	-	-		**-**	-	**-**
2033		-	-	-	-	-		**-**	-	**-**
2034		0	(0)	(0)	(0)	0		**0**	(0)	**0**
2035		0	0	0	0	0		**0**	(0)	**(0)**

Table 4-2 - Renewable Energy Credit Compliance Summary
Public Service Company of Colorado
2021 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (4)	RECs Carried Forward After 2020 RES Compliance	CY RECs Available less Transfers 2021	Bonus Credits Available (1) (2)	Additional Community REC Bonus Available	RECs & Bonus Credits Available for 2021 RES Compliance	The Renewable Energy Standard 2021	Lecacy and/or CY RECs Retired For 2021 RES Compliance (3)	Bonus Credits Retired For 2021 RES Compliance (3)	RECs w/o Bonus Carried Forward After 2021 RES Compliance
	Column Reference		a	b	c	d	e	f	g	h	i
1	**Retail DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
2	Total Retail DG	589	996,893	740,083	24,774	1,480	1,763,230	436,181	423,096	13,085	1,313,880
3											
4	**Wholesale DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
5											
6	Total Utility Solar	85		161,563							
7	Total Biomass	3		16,739							
8	Total Small Hydropower	67		162,284							
9	Total Wholesale DG Wind	55		112,073							
10											
11	Total Wholesale DG		1,675,626	452,659	113,166		2,241,451	436,181	327,135	109,046	1,801,150
12											
13	**Non-DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
14	Total Non-DG Wind	4,071		7,670,170							
15	Total Non-DG Solar	1,282		313,548							
16											
17	Total Non-DG		21,512,656	7,983,719	798,372		30,294,747	7,851,263	7,066,137	785,126	22,430,238
18											
19	**Total Non Retail DG Renewable Resources**		23,188,282	8,436,378	911,538	0	32,536,198	8,287,444	7,393,272	894,172	24,231,387
20	**Total Renewable Resources**		24,185,175	9,176,461	936,312	1,480	34,299,428	8,723,625	7,816,368	907,257	25,545,268

Notes:
(1) Includes bonus for Non Retail facilities COD prior to 01/01/2015 (1.25x for all Non-Retail resources in service ≤ 12/31/2014) and bonus for Community Based Solar Garden Projects (1.50x)
(2) Bonus applied to Retail DG based on purchase transactions entered into prior to August 11, 2010
(3) Estimated; final values will be determined in the 2021 RES Compliance Report; Retail DG & Wholesale DG RECs could be retired in excess of RES requirement thereby reducing Non-DG RECs retirement
(4) Retail DG capacity presented in DC; all others in AC

Table 4-2 - Renewable Energy Credit Compliance Summary
Public Service Company of Colorado
2022 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (4)	RECs Carried Forward After 2021 RES Compliance	CY RECs Available less Transfers 2022	Bonus Credits Available (1) (2)	Additional Community REC Bonus Available	RECs & Bonus Credits Available for 2022 RES Compliance	The Renewable Energy Standard 2022	Lecacy and/or CY RECs Retired For 2022 RES Compliance (3)	Bonus Credits Retired For 2022 RES Compliance (3)	RECs w/o Bonus Carried Forward After 2022 RES Compliance
	Column Reference		a	b	c	d	e	f	g	h	i
1	**Retail DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
2	Total Retail DG	669	1,313,880	840,671	24,749	1,681	2,180,981	426,368	413,577	12,791	1,740,975
3											
4	**Wholesale DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
5											
6	Total Utility Solar	85		161,357							
7	Total Biomass	3		16,975							
8	Total Small Hydropower	67		162,209							
9	Total Wholesale DG Wind	55		113,641							
10											
11	Total Wholesale DG		1,801,150	454,183	113,547		2,368,880	426,368	319,775	106,593	1,935,558
12											
13	**Non-DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
14	Total Non-DG Wind	4,071		6,567,596							
15	Total Non-DG Solar	1,282		1,155,644							
16											
17	Total Non-DG		22,430,238	7,723,240	772,324		30,925,801	7,674,619	6,907,157	767,462	23,246,321
18											
19	**Total Non Retail DG Renewable Resources**		24,231,387	8,177,423	885,871	0	33,294,681	8,100,986	7,226,931	874,055	25,181,879
20	**Total Renewable Resources**		25,545,268	9,018,094	910,620	1,681	35,475,662	8,527,354	7,640,508	886,846	26,922,853

Notes:
(1) Includes bonus for Non Retail facilities COD prior to 01/01/2015 (1.25x for all Non-Retail resources in service ≤ 12/31/2014) and bonus for Community Based Solar Garden Projects (1.50x)
(2) Bonus applied to Retail DG based on purchase transactions entered into prior to August 11, 2010
(3) Estimated; final values will be determined in the 2022 RES Compliance Report; Retail DG & Wholesale DG RECs could be retired in excess of RES requirement thereby reducing Non-DG RECs retirement
(4) Retail DG capacity presented in DC; all others in AC

Table 4-2 - Renewable Energy Credit Compliance Summary
Public Service Company of Colorado
2023 Renewable Energy Standard Compliance Plan

Row	**Renewable Resources**	**Capacity (MW) (4)**	**RECs Carried Forward After 2022 RES Compliance**	**CY RECs Available less Transfers 2023**	**Bonus Credits Available (1) (2)**	**Additional Community REC Bonus Available**	**RECs & Bonus Credits Available for 2023 RES Compliance**	**The Renewable Energy Standard 2023**	**Lecacy and/or CY RECs Retired For 2023 RES Compliance (3)**	**Bonus Credits Retired For 2023 RES Compliance (3)**	**RECs w/o Bonus Carried Forward After 2023 RES Compliance**
	Column Reference		a	b	c	d	e	f	g	h	i
1	**Retail DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
2	Total Retail DG	751	1,740,975	942,996	24,724	1,886	2,710,580	426,157	413,372	12,785	2,270,598
3											
4	**Wholesale DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
5											
6	Total Utility Solar	85		162,000							
7	Total Biomass	3		9,821							
8	Total Small Hydropower	67		162,379							
9	Total Wholesale DG Wind	55		58,097							
10											
11	Total Wholesale DG		1,935,558	392,297	98,075		2,425,930	426,157	328,082	98,075	1,999,772
12											
13	**Non-DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
14	Total Non-DG Wind	4,071		6,612,875							
15	Total Non-DG Solar	1,282		3,302,266							
16											
17	Total Non-DG		23,246,321	9,915,140	991,514		34,152,975	7,670,833	6,903,750	767,083	26,257,711
18											
19	**Total Non Retail DG Renewable Resources**		25,181,879	10,307,437	1,089,589	0	36,578,905	8,096,990	7,231,832	865,158	28,257,483
20	**Total Renewable Resources**		26,922,853	11,250,433	1,114,313	1,886	39,289,485	8,523,148	7,645,205	877,943	30,528,081

Notes:
(1) Includes bonus for Non Retail facilities COD prior to 01/01/2015 (1.25x for all Non-Retail resources in service ≤ 12/31/2014) and bonus for Community Based Solar Garden Projects (1.50x)
(2) Bonus applied to Retail DG based on purchase transactions entered into prior to August 11, 2010
(3) Estimated; final values will be determined in the 2023 RES Compliance Report; Retail DG & Wholesale DG RECs could be retired in excess of RES requirement thereby reducing Non-DG RECs retirement
(4) Retail DG capacity presented in DC; all others in AC

Table 4-2 - Renewable Energy Credit Compliance Summary
Public Service Company of Colorado
2024 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (4)	RECs Carried Forward After 2023 RES Compliance	CY RECs Available less Transfers 2024	Bonus Credits Available (1) (2)	Additional Community REC Bonus Available	RECs & Bonus Credits Available for 2024 RES Compliance	The Renewable Energy Standard 2024	Lecacy and/or CY RECs Retired For 2024 RES Compliance (3)	Bonus Credits Retired For 2024 RES Compliance (3)	RECs w/o Bonus Carried Forward After 2024 RES Compliance
	Column Reference		a	b	c	d	e	f	g	h	i
1	**Retail DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
2	Total Retail DG	751	2,270,598	1,030,198	24,699	2,060	3,327,555	431,781	418,828	12,953	2,881,968
3											
4	**Wholesale DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
5											
6	Total Utility Solar	85		160,302							
7	Total Biomass	3		0							
8	Total Small Hydropower	67		162,165							
9	Total Wholesale DG Wind	55		57,994							
10											
11	Total Wholesale DG		1,999,772	380,461	95,116		2,475,350	431,781	336,665	95,116	2,043,569
12											
13	**Non-DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
14	Total Non-DG Wind	4,071		6,936,077							
15	Total Non-DG Solar	1,282		3,215,836							
16											
17	Total Non-DG		26,257,711	10,151,913	1,015,191		37,424,815	7,772,055	6,994,849	777,206	29,414,775
18											
19	**Total Non Retail DG Renewable Resources**		28,257,483	10,532,375	1,110,307	0	39,900,165	8,203,836	7,331,514	872,322	31,458,344
20	**Total Renewable Resources**		30,528,081	11,562,573	1,135,006	2,060	43,227,720	8,635,617	7,750,342	885,275	34,340,312

Notes:
(1) Includes bonus for Non Retail facilities COD prior to 01/01/2015 (1.25x for all Non-Retail resources in service ≤ 12/31/2014) and bonus for Community Based Solar Garden Projects (1.50x)
(2) Bonus applied to Retail DG based on purchase transactions entered into prior to August 11, 2010
(3) Estimated; final values will be determined in the 2024 RES Compliance Report; Retail DG & Wholesale DG RECs could be retired in excess of RES requirement thereby reducing Non-DG RECs retirement
(4) Retail DG capacity presented in DC; all others in AC

Table 4-2 - Renewable Energy Credit Compliance Summary
Public Service Company of Colorado
2025 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (4)	RECs Carried Forward After 2024 RES Compliance	CY RECs Available less Transfers 2025	Bonus Credits Available (1) (2)	Additional Community REC Bonus Available	RECs & Bonus Credits Available for 2025 RES Compliance	The Renewable Energy Standard 2025	Lecacy and/or CY RECs Retired For 2025 RES Compliance (3)	Bonus Credits Retired For 2025 RES Compliance (3)	RECs w/o Bonus Carried Forward After 2025 RES Compliance
	Column Reference		a	b	c	d	e	f	g	h	i
1	**Retail DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
2	Total Retail DG	751	2,881,968	1,091,159	24,674	2,182	3,999,984	434,580	421,543	13,037	3,551,585
3											
4	**Wholesale DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
5											
6	Total Utility Solar	85		155,728							
7	Total Biomass	3		0							
8	Total Small Hydropower	67		158,153							
9	Total Wholesale DG Wind	55		58,180							
10											
11	Total Wholesale DG		2,043,569	372,061	93,016		2,508,645	434,580	341,564	93,016	2,074,066
12											
13	**Non-DG**				c ≤ (b × 25%)		e = (a + b + c+ d)				i = a + b - g
14	Total Non-DG Wind	4,071		6,735,784							
15	Total Non-DG Solar	1,282		3,011,845							
16											
17	Total Non-DG		29,414,775	9,747,629	974,763		40,137,167	7,822,437	7,040,193	782,244	32,122,211
18											
19	**Total Non Retail DG Renewable Resources**		31,458,344	10,119,690	1,067,779	0	42,645,813	8,257,017	7,381,757	875,260	34,196,276
20	**Total Renewable Resources**		34,340,312	11,210,849	1,092,453	2,182	46,645,796	8,691,597	7,803,300	888,297	37,747,861

Notes:
(1) Includes bonus for Non Retail facilities COD prior to 01/01/2015 (1.25x for all Non-Retail resources in service ≤ 12/31/2014) and bonus for Community Based Solar Garden Projects (1.50x)
(2) Bonus applied to Retail DG based on purchase transactions entered into prior to August 11, 2010
(3) Estimated; final values will be determined in the 2025 RES Compliance Report; Retail DG & Wholesale DG RECs could be retired in excess of RES requirement thereby reducing Non-DG RECs retirement
(4) Retail DG capacity presented in DC; all others in AC

Table 4-3 - Renewable Energy Credits Acquired/Transferred
Public Service Company of Colorado
2021 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (1)	RECs Acquired 2021	City of Boulder Transfers 2021	Wholesale REC Allocation 2021 (2)	RECs Retired for Windsource 2021 (3)	RECs Retired for Renewable* Connect 2021	RECs Retired for CRP 2021	RECs Sold 2021 (4)	Total Recycled Energy & RECs Available 2021
	Column Reference	a	b	c	d	e1	e2	e3	f	g
1	**Retail DG**									g = (b - c - d - e - f)
2	Small Net Metered	196.57	172,191							
3	Small Third Party Developer	124.99	153,288							
4	Medium	142.99	162,836							
5	RFP Large* (RecTracker)	6.51	23,395							
6	RFP Large* (WREGIS COSR facilities)	11.70	42,021							
7	REC Only	0.00	0							
8	SR Community (RecTracker)	27.07	47,426							
9	SR Community (WREGIS)	79.30	138,927							
10										
11										
12	**Total Retail DG**	589.12	740,083	0	0	0	0	0	0	740,083
13										
14	**Wholesale DG**									
15										
16	**Wholesale DG Solar**									g = (b - c - d - e - f)
17	Power Purchase w/RECs:									
18	SunE Alamosa	6.20	14,755		1,231			1,352		
19	Cogentrix	30.00	59,053		4,925			5,413		
20	SanLuis Solar	30.00	75,581		6,304			6,928		
21	Greater Sandhill	19.00	46,460		3,875			4,258		
22	SolarTAC	0.25	0		0			0		
23										
24										
25	**Total Wholesale DG Solar**	85.45	195,849	0	16,335	0	0	17,951	0	161,563
26										
27	**Wholesale DG Biomass**									g = (b - c - d - e - f)
28	Power Purchase w/RECs:									
29										
30	Waste Management	3.28	20,291		1,692			1,860		
31	**Total Wholesale DG Biomass**	3.28	20,291	0	1,692	0	0	1,860	0	16,739
32										
33	**Wholesale DG Small Hydropower**									g = (b - c - d - e - f)
34	Company-Owned Generation:									
35	Ames	2.80	6,998		584			641		
36	Georgetown	1.44	4,430		369			406		
37	Salida	0.65	1,712		143			157		
38	Shoshone	14.40	84,969		7,086			7,788		
39	Tacoma	8.00	9,487		791			870		
40	Power Purchase w/RECs:									
41	Betasso/SL/Lakewood	7.50	8,719					872		
42	SilverLake	3.30	8,719	1,318						
43	Dillon Dam	1.90	9,327	1,410						
44	Foothills	2.30	5,332					533		
45	Roberts Tunnel	6.10	11,580	1,751						
46	Strontia Springs	1.20	6,246	944						
47	Hillcrest	2.30	5,745	868						
48	Gross Reservoir	8.10	16,061	2,428						
49	Redlands	1.40	7,592					759		
50	Grand Valley/Orchard Mesa	3.00	0					0		
51	Mt. Elbert	2.50	4,251					425		
52	UTE	0.23	1,400					140		
53										
54	**Total Wholesale DG Small Hydropower**	67.12	192,567	8,719	8,973	0	0	12,591	0	162,284
55										
56	**Wholesale DG Wind**									g = (b - c - d - e - f)
57	Company Owned Generation									
58	Ponnequin II-VI									
59	Power Purchase w/RECs:									
60	Ridgecrest	29.70	66,464		5,543			6,092		
61	Northern Colorado Wind II	22.50	69,392		5,787			6,361		
62	NREL Siemens	2.30	0		0			0		
63										
64	**Total Wholesale DG Wind**	54.50	135,856	0	11,330	0	0	12,453	0	112,073
65										
66	**Total Wholesale DG**	210.35	544,563	8,719	38,330	0	0	44,855	0	452,659
67										
68	**Non-DG**									
69										
70	**Non-DG Wind**									g = (b - c - d - e - f)
71	Company Owned Generation									
72	Rush Creek	600.00	1,944,151			212,862		1,944,151		
73	Cheyenne Ridge	499.00	1,972,118					1,849,592		
74	Power Purchase w/RECs:									
75	Colorado Green	162.00	512,710						512,710	
76	Spring Canyon	60.00	174,142						174,142	
77	Cedar Creek	300.50	783,042						163,147	
78	Twin Buttes	75.00	191,901						0	
79	Logan	201.00	537,829						0	
80	Peetz Table	199.50	620,052						0	
81	Northern Colorado Wind I	151.80	473,255						0	
82	Limon I	200.00	723,527		178,694					
83	Cedar Creek II	250.80	683,873		168,900					
84	Cedar Point	252.00	813,668		200,957					
85	Limon II	200.00	610,872		150,871					
86	Limon III	200.60	794,249		196,161					
87	Multiband Golden West	249.90	828,905					0		
88	Mountain Breeze	169.00	634,856					0		
89	Broncos Plains	300.00	1,123,206							
90										
91	**Total Non-DG Wind**	4,071.10	13,422,358	0	895,583	212,862	0	3,793,743	850,000	7,670,170
92										
93	**Non-DG Solar**									g = (b - c - d - e - f)
94	Comanche Solar	120.00	293,562		72,503					
95	Solar Star III	50.00	122,691		30,302					
96	Hartsel Solar	72.00	0							
97	Neptune Solar	250.00	0							
98	Bighorn Solar	240.00	100							
99	Thunder Wolf	200.00	0							
100	Midway	100.00	0							
101	Sun Mountain Solar	200.00	0							
102	Titan Solar	50.00	118,384				118,384			
103	**Total Non-DG Solar**	1,282.00	534,737	0	102,805	0	118,384	0	0	313,548
104										
105	**Total Non-DG**	5,353.10	13,957,095	0	998,388	212,862	118,384	3,793,743	850,000	7,983,719
106										
107										
108	**Total Non Retail DG Renewables (WDG + NDG)**		14,501,658	8,719	1,036,718	212,862	118,384	3,838,598	850,000	8,436,378
109	**Total Renewable Resources**		15,241,742	8,719	1,036,718	212,862	118,384	3,838,598	850,000	9,176,461
110										

Notes:

(1) Retail DG capacity presented in DC; all others in AC

(2) Wholesale RECs transferred based on projected production and forecast wholesale load ratio share. Actual RECs transferred will be presented in the 2021 RES Report.

(3) Windsource retirement method will use proportional allocation of Wholesale DG and Non-DG plus third-party verified generation.
REC vintages from the last half of the prior year could be used for the Standard Windsource retirement, per Green-e Standards. Actual RECs retired will be presented in the 2021 RES Report.

(4) Currently executed REC sales. Actual REC sales will be sourced from multiple wind generators, but generation from specific generators is unknown at the time of this filing.

Table 4-3 - Renewable Energy Credits Acquired/Transferred
Public Service Company of Colorado
2022 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (1)	RECs Acquired 2022	City of Boulder Transfers 2022	Wholesale REC Allocation 2022 (2)	RECs Retired for Windsource 2022 (3)	RECs Retired for Renewable* Connect 2022	RECs Retired for CRP 2022	RECs Sold 2022 (4)	Total Recycled Energy & RECs Available 2022
	Column Reference	a	b	c	d	e1	e2	e3	f	g
1	**Retail DG**									g = (b - c - d - e - f)
2	Small Net Metered	223.28	195,595							
3	Small Third Party Developer	141.98	174,122							
4	Medium	162.42	184,967							
5	RFP Large* (RecTracker)	7.40	26,574							
6	RFP Large* (WREGIS COSR facilities)	13.29	47,732							
7	REC Only	0.00	0							
8	SR Community (RecTracker)	30.75	53,871							
9	SR Community (WREGIS)	90.07	157,810							
10										
11										
12	**Total Retail DG**	669.19	840,671	0	0	0	0	0	0	840,671
13										
14	**Wholesale DG**									
15										
16	**Wholesale DG Solar**									g = (b - c - d - e - f)
17	Power Purchase w/RECs:									
18	SunE Alamosa	6.20	14,664		1,034			1,363		
19	Cogentrix	30.00	57,919		4,083			5,384		
20	SanLuis Solar	30.00	74,124		5,225			6,890		
21	Greater Sandhill	19.00	46,177		3,255			4,292		
22	SolarTAC	0.25	0		0			0		
23										
24										
25	**Total Wholesale DG Solar**	85.45	192,883	0	13,597	0	0	17,929	0	161,357
26										
27	**Wholesale DG Biomass**									g = (b - c - d - e - f)
28	Power Purchase w/RECs:									
29										
30	Waste Management	3.28	20,291		1,430			1,886		
31	**Total Wholesale DG Biomass**	3.28	20,291	0	1,430	0	0	1,886	0	16,975
32										
33	**Wholesale DG Small Hydropower**									g = (b - c - d - e - f)
34	Company-Owned Generation:									
35	Ames	2.80	6,994		493			650		
36	Georgetown	1.44	4,430		312			412		
37	Salida	0.65	1,712		121			159		
38	Shoshone	14.40	84,906		5,985			7,892		
39	Tacoma	8.00	9,480		668			881		
40	Power Purchase w/RECs:									
41	Betasso/SL/Lakewood	7.50	8,719					872		
42	SilverLake	3.30	8,719	1,318						
43	Dillon Dam	1.90	9,327	1,410						
44	Foothills	2.30	5,332					533		
45	Roberts Tunnel	6.10	11,580	1,751						
46	Strontia Springs	1.20	6,246	944						
47	Hillcrest	2.30	5,745	868						
48	Gross Reservoir	8.10	16,061	2,428						
49	Redlands	1.40	7,588					759		
50	Grand Valley/Orchard Mesa	3.00	0					0		
51	Mt. Elbert	2.50	4,251					425		
52	UTE	0.23	0					0		
53										
54	**Total Wholesale DG Small Hydropower**	67.12	191,090	8,719	7,579	0	0	12,583	0	162,209
55										
56	**Wholesale DG Wind**									g = (b - c - d - e - f)
57	Company Owned Generation									
58	Ponnequin II-VI									
59	Power Purchase w/RECs:									
60	Ridgecrest	29.70	66,451		4,684			6,177		
61	Northern Colorado Wind II	22.50	69,392		4,891			6,450		
62	NREL Siemens	2.30	0		0			0		
63										
64	**Total Wholesale DG Wind**	54.50	135,843	0	9,575	0	0	12,627	0	113,641
65										
66	**Total Wholesale DG**	210.35	540,108	8,719	32,181	0	0	45,025	0	454,183
67										
68	**Non-DG**									
69										
70	**Non-DG Wind**									g = (b - c - d - e - f)
71	Company Owned Generation									
72	Rush Creek	600.00	1,895,101			216,532		1,895,101		
73	Cheyenne Ridge	499.00	1,929,284					1,929,284		
74	Power Purchase w/RECs:									
75	Colorado Green	162.00	503,542						503,542	
76	Spring Canyon	60.00	174,115						174,115	
77	Cedar Creek	300.50	783,154						172,343	
78	Twin Buttes	75.00	190,002						0	
79	Logan	201.00	537,715						0	
80	Peetz Table	199.50	620,052						0	
81	Northern Colorado Wind I	151.80	473,255						0	
82	Limon I	200.00	723,527		159,164					
83	Cedar Creek II	250.80	683,873		150,441					
84	Cedar Point	252.00	813,406		178,936					
85	Limon II	200.00	610,872		134,382					
86	Limon III	200.60	794,249		174,722					
87	Multiband Golden West	249.90	828,905					828,905		
88	Mountain Breeze	169.00	634,856					208,088		
89	Broncos Plains	300.00	1,097,243							
90										
91	**Total Non-DG Wind**	4,071.10	13,293,151	0	797,645	216,532	0	4,861,378	850,000	6,567,596
92										
93	**Non-DG Solar**									g = (b - c - d - e - f)
94	Comanche Solar	120.00	288,013		63,358					
95	Solar Star III	50.00	120,388		26,483					
96	Hartsel Solar	72.00	0							
97	Neptune Solar	250.00	51,434							
98	Bighorn Solar	240.00	593,614							
99	Thunder Wolf	200.00	38,539							
100	Midway	100.00	52,387							
101	Sun Mountain Solar	200.00	101,110							
102	Titan Solar	50.00	116,189				116,189			
103	**Total Non-DG Solar**	1,282.00	1,361,674	0	89,841	0	116,189	0	0	1,155,644
104										
105	**Total Non-DG**	5,353.10	14,654,824	0	887,486	216,532	116,189	4,861,378	850,000	7,723,240
106										
107										
108	**Total Non Retail DG Renewables (WDG + NDG)**		15,194,933	8,719	919,667	216,532	116,189	4,906,403	850,000	8,177,423
109	**Total Renewable Resources**		16,035,604	8,719	919,667	216,532	116,189	4,906,403	850,000	9,018,094
110										

Notes:

(1) Retail DG capacity presented in DC; all others in AC

(2) Wholesale RECs transferred based on projected production and forecast wholesale load ratio share. Actual RECs transferred will be presented in the 2022 RES Report.

(3) Windsource retirement method will use proportional allocation of Wholesale DG and Non-DG plus third-party verified generation.
REC vintages from the last half of the prior year could be used for the Standard Windsource retirement, per Green-e Standards. Actual RECs retired will be presented in the 2022 RES Report.

(4) Currently executed REC sales. Actual REC sales will be sourced from multiple wind generators, but generation from specific generators is unknown at the time of this filing.

Table 4-3 - Renewable Energy Credits Acquired/Transferred
Public Service Company of Colorado
2023 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (1)	RECs Acquired 2023	City of Boulder Transfers 2023	Wholesale REC Allocation 2023 (2)	RECs Retired for Windsource 2023 (3)	RECs Retired for Renewable* Connect 2023	RECs Retired for CRP 2023	RECs Sold 2023 (4)	Total Recycled Energy & RECs Available 2023
	Column Reference	a	b	c	d	e1	e2	e3	f	g
1	**Retail DG**									g = (b - c - d - e - f)
2	Small Net Metered	250.46	219,402							
3	Small Third Party Developer	159.26	195,316							
4	Medium	182.19	207,481							
5	RFP Large* (RecTracker)	8.30	29,809							
6	RFP Large* (WREGIS COSR facilities)	14.91	53,542							
7	REC Only	0.00	0							
8	SR Community (RecTracker)	34.49	60,428							
9	SR Community (WREGIS)	101.04	177,017							
10										
11										
12	**Total Retail DG**	750.65	942,996	0	0	0	0	0	0	942,996
13										
14	**Wholesale DG**									
15										
16	**Wholesale DG Solar**									g = (b - c - d - e - f)
17	Power Purchase w/RECs:									
18	SunE Alamosa	6.20	14,606		1,019			1,359		
19	Cogentrix	30.00	58,284		4,065			5,422		
20	SanLuis Solar	30.00	74,615		5,204			6,941		
21	Greater Sandhill	19.00	45,990		3,208			4,278		
22	SolarTAC	0.25	0		0			0		
23										
24										
25	**Total Wholesale DG Solar**	85.45	193,496	0	13,496	0	0	18,000	0	162,000
26										
27	**Wholesale DG Biomass**									g = (b - c - d - e - f)
28	Power Purchase w/RECs:									
29										
30	Waste Management	3.28	11,730		818			1,091		
31	**Total Wholesale DG Biomass**	3.28	11,730	0	818	0	0	1,091	0	9,821
32										
33	**Wholesale DG Small Hydropower**									g = (b - c - d - e - f)
34	Company-Owned Generation:									
35	Ames	2.80	7,000		488			651		
36	Georgetown	1.44	4,430		309			412		
37	Salida	0.65	1,712		119			159		
38	Shoshone	14.40	85,000		5,929			7,907		
39	Tacoma	8.00	9,491		662			883		
40	Power Purchase w/RECs:									
41	Betasso/SL/Lakewood	7.50	8,719					872		
42	SilverLake	3.30	8,719	1,318						
43	Dillon Dam	1.90	9,327	1,410						
44	Foothills	2.30	5,332					533		
45	Roberts Tunnel	6.10	11,580	1,751						
46	Strontia Springs	1.20	6,246	944						
47	Hillcrest	2.30	5,745	868						
48	Gross Reservoir	8.10	16,061	2,428						
49	Redlands	1.40	7,593					759		
50	Grand Valley/Orchard Mesa	3.00	0					0		
51	Mt. Elbert	2.50	4,251					425		
52	UTE	0.23	0					0		
53										
54	**Total Wholesale DG Small Hydropower**	67.12	191,206	8,719	7,507	0	0	12,601	0	162,379
55										
56	**Wholesale DG Wind**									g = (b - c - d - e - f)
57	Company Owned Generation									
58	Ponnequin II-VI									
59	Power Purchase w/RECs:									
60	Ridgecrest	29.70	0		0			0		
61	Northern Colorado Wind II	22.50	69,392		4,840			6,455		
62	NREL Siemens	2.30	0		0			0		
63										
64	**Total Wholesale DG Wind**	54.50	69,392	0	4,840	0	0	6,455	0	58,097
65										
66	**Total Wholesale DG**	210.35	465,824	8,719	26,661	0	0	38,147	0	392,297
67										
68	**Non-DG**									
69										
70	**Non-DG Wind**									g = (b - c - d - e - f)
71	Company Owned Generation									
72	Rush Creek	600.00	1,952,830			220,270		1,952,830		
73	Cheyenne Ridge	499.00	1,975,060					1,975,060		
74	Power Purchase w/RECs:									
75	Colorado Green	162.00	527,338						350,000	
76	Spring Canyon	60.00	174,560						0	
77	Cedar Creek	300.50	785,092						0	
78	Twin Buttes	75.00	200,049						0	
79	Logan	201.00	539,069						0	
80	Peetz Table	199.50	620,052						0	
81	Northern Colorado Wind I	151.80	473,255						0	
82	Limon I	200.00	723,527		177,463					
83	Cedar Creek II	250.80	683,873		167,737					
84	Cedar Point	252.00	815,437		200,007					
85	Limon II	200.00	610,872		149,832					
86	Limon III	200.60	794,249		194,810					
87	Multiband Golden West	249.90	828,905					828,905		
88	Mountain Breeze	169.00	634,856					634,856		
89	Broncos Plains	300.00	1,125,622							
90										
91	**Total Non-DG Wind**	4,071.10	13,464,646	0	889,849	220,270	0	5,391,652	350,000	6,612,875
92										
93	**Non-DG Solar**									g = (b - c - d - e - f)
94	Comanche Solar	120.00	289,781		71,076					
95	Solar Star III	50.00	121,195		29,726					
96	Hartsel Solar	72.00	172,191							
97	Neptune Solar	250.00	769,593							
98	Bighorn Solar	240.00	597,257							
99	Thunder Wolf	200.00	594,381							
100	Midway	100.00	294,676							
101	Sun Mountain Solar	200.00	563,994							
102	Titan Solar	50.00	116,920				116,920			
103	**Total Non-DG Solar**	1,282.00	3,519,988	0	100,802	0	116,920	0	0	3,302,266
104										
105	**Total Non-DG**	5,353.10	16,984,634	0	990,651	220,270	116,920	5,391,652	350,000	9,915,140
106										
107										
108	**Total Non Retail DG Renewables (WDG + NDG)**		17,450,458	8,719	1,017,312	220,270	116,920	5,429,799	350,000	10,307,437
109	**Total Renewable Resources**		18,393,453	8,719	1,017,312	220,270	116,920	5,429,799	350,000	11,250,433
110										

Notes:

(1) Retail DG capacity presented in DC; all others in AC

(2) Wholesale RECs transferred based on projected production and forecast wholesale load ratio share. Actual RECs transferred will be presented in the 2023 RES Report.

(3) Windsource retirement method will use proportional allocation of Wholesale DG and Non-DG plus third-party verified generation.
REC vintages from the last half of the prior year could be used for the Standard Windsource retirement, per Green-e Standards. Actual RECs retired will be presented in the 2023 RES Report.

(4) Currently executed REC sales. Actual REC sales will be sourced from multiple wind generators, but generation from specific generators is unknown at the time of this filing.

Table 4-3 - Renewable Energy Credits Acquired/Transferred
Public Service Company of Colorado
2024 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (1)	RECs Acquired 2024	City of Boulder Transfers 2024	Wholesale REC Allocation 2024 (2)	RECs Retired for Windsource 2024 (3)	RECs Retired for Renewable* Connect 2024	RECs Retired for CRP 2024	RECs Sold 2024 (4)	Total Recycled Energy & RECs Available 2024
	Column Reference	a	b	c	d	e1	e2	e3	f	g
1	**Retail DG**									g = (b - c - d - e - f)
2	Small Net Metered	273.62	239,691							
3	Small Third Party Developer	173.99	213,377							
4	Medium	199.04	226,668							
5	RFP Large* (RecTracker)	9.07	32,566							
6	RFP Large* (WREGIS COSR facilities)	16.29	58,493							
7	REC Only	0.00	0							
8	SR Community (RecTracker)	37.68	66,017							
9	SR Community (WREGIS)	110.38	193,386							
10										
11										
12	**Total Retail DG**	820.06	1,030,198	0	0	0	0	0	0	1,030,198
13										
14	**Wholesale DG**									
15										
16	**Wholesale DG Solar**									g = (b - c - d - e - f)
17	Power Purchase w/RECs:									
18	SunE Alamosa	6.20	14,576		1,092			1,348		
19	Cogentrix	30.00	57,833		4,333			5,350		
20	SanLuis Solar	30.00	74,225		5,561			6,866		
21	Greater Sandhill	19.00	45,903		3,439			4,246		
22	SolarTAC	0.25	0		0			0		
23										
24										
25	**Total Wholesale DG Solar**	85.45	192,537	0	14,425	0	0	17,810	0	160,302
26										
27	**Wholesale DG Biomass**									g = (b - c - d - e - f)
28	Power Purchase w/RECs:									
29										
30	Waste Management	3.28	0		0			0		
31	**Total Wholesale DG Biomass**	3.28	0	0	0	0	0	0	0	0
32										
33	**Wholesale DG Small Hydropower**									g = (b - c - d - e - f)
34	Company-Owned Generation:									
35	Ames	2.80	7,014		526			649		
36	Georgetown	1.44	4,433		332			410		
37	Salida	0.65	1,714		128			159		
38	Shoshone	14.40	85,167		6,380			7,879		
39	Tacoma	8.00	9,517		713			880		
40	Power Purchase w/RECs:									
41	Betasso/SL/Lakewood	7.50	8,738					874		
42	SilverLake	3.30	8,741	1,322						
43	Dillon Dam	1.90	9,337	1,413						
44	Foothills	2.30	5,333					533		
45	Roberts Tunnel	6.10	11,580	1,752						
46	Strontia Springs	1.20	6,251	946						
47	Hillcrest	2.30	5,748	870						
48	Gross Reservoir	8.10	16,106	2,437						
49	Redlands	1.40	7,625					763		
50	Grand Valley/Orchard Mesa	3.00	0					0		
51	Mt. Elbert	2.50	4,251					425		
52	UTE	0.23	0					0		
53										
54	**Total Wholesale DG Small Hydropower**	67.12	191,556	8,740	8,079	0	0	12,572	0	162,165
55										
56	**Wholesale DG Wind**									g = (b - c - d - e - f)
57	Company Owned Generation									
58	Ponnequin II-VI									
59	Power Purchase w/RECs:									
60	Ridgecrest	29.70	0		0			0		
61	Northern Colorado Wind II	22.50	69,656		5,218			6,444		
62	NREL Siemens	2.30	0		0			0		
63										
64	**Total Wholesale DG Wind**	54.50	69,656	0	5,218	0	0	6,444	0	57,994
65										
66	**Total Wholesale DG**	210.35	453,749	8,740	27,722	0	0	36,826	0	380,461
67										
68	**Non-DG**									
69										
70	**Non-DG Wind**									g = (b - c - d - e - f)
71	Company Owned Generation									
72	Rush Creek	600.00	1,986,946			224,078		1,986,946		
73	Cheyenne Ridge	499.00	2,003,839					2,003,839		
74	Power Purchase w/RECs:									
75	Colorado Green	162.00	528,399						0	
76	Spring Canyon	60.00	175,283						0	
77	Cedar Creek	300.50	788,299						0	
78	Twin Buttes	75.00	200,290						0	
79	Logan	201.00	541,303						0	
80	Peetz Table	199.50	622,585						0	
81	Northern Colorado Wind I	151.80	475,175						0	
82	Limon I	200.00	724,911		189,808					
83	Cedar Creek II	250.80	686,771		179,821					
84	Cedar Point	252.00	818,044		214,193					
85	Limon II	200.00	612,417		160,353					
86	Limon III	200.60	796,194		208,472					
87	Multiband Golden West	249.90	831,704					831,704		
88	Mountain Breeze	169.00	637,032					637,032		
89	Broncos Plains	300.00	1,143,131							
90										
91	**Total Non-DG Wind**	4,071.10	13,572,324	0	952,647	224,078	0	5,459,522	0	6,936,077
92										
93	**Non-DG Solar**									g = (b - c - d - e - f)
94	Comanche Solar	120.00	288,675		75,586					
95	Solar Star III	50.00	120,446		31,537					
96	Hartsel Solar	72.00	171,318							
97	Neptune Solar	250.00	731,405							
98	Bighorn Solar	240.00	594,978							
99	Thunder Wolf	200.00	559,636							
100	Midway	100.00	295,671							
101	Sun Mountain Solar	200.00	560,829							
102	Titan Solar	50.00	116,540				116,540			
103	**Total Non-DG Solar**	1,282.00	3,439,499	0	107,123	0	116,540	0	0	3,215,836
104										
105	**Total Non-DG**	5,353.10	17,011,822	0	1,059,770	224,078	116,540	5,459,522	0	10,151,913
106										
107										
108	**Total Non Retail DG Renewables (WDG + NDG)**		17,465,572	8,740	1,087,492	224,078	116,540	5,496,348	0	10,532,375
109	**Total Renewable Resources**		18,495,770	8,740	1,087,492	224,078	116,540	5,496,348	0	11,562,573
110										

Notes:

(1) Retail DG capacity presented in DC; all others in AC

(2) Wholesale RECs transferred based on projected production and forecast wholesale load ratio share. Actual RECs transferred will be presented in the 2024 RES Report.

(3) Windsource retirement method will use proportional allocation of Wholesale DG and Non-DG plus third-party verified generation.
REC vintages from the last half of the prior year could be used for the Standard Windsource retirement, per Green-e Standards. Actual RECs retired will be presented in the 2024 RES Report.

(4) Currently executed REC sales. Actual REC sales will be sourced from multiple wind generators, but generation from specific generators is unknown at the time of this filing.

Table 4-3 - Renewable Energy Credits Acquired/Transferred
Public Service Company of Colorado
2025 Renewable Energy Standard Compliance Plan

Row	Renewable Resources	Capacity (MW) (1)	RECs Acquired 2025	City of Boulder Transfers 2025	Wholesale REC Allocation 2025 (2)	RECs Retired for Windsource 2025 (3)	RECs Retired for Renewable* Connect 2025	RECs Retired for CRP 2025	RECs Sold 2025 (4)	Total Recycled Energy & RECs Available 2025
	Column Reference	a	b	c	d	e1	e2	e3	f	g
1	**Retail DG**									g = (b - c - d - e - f)
2	Small Net Metered	289.81	253,874							
3	Small Third Party Developer	184.28	226,004							
4	Medium	210.82	240,081							
5	RFP Large* (RecTracker)	9.60	34,493							
6	RFP Large* (WREGIS COSR facilities)	17.25	61,954							
7	REC Only	0.00	0							
8	SR Community (RecTracker)	39.91	69,923							
9	SR Community (WREGIS)	116.91	204,830							
10										
11										
12	**Total Retail DG**	868.59	1,091,159	0	0	0	0	0	0	1,091,159
13										
14	**Wholesale DG**									
15										
16	**Wholesale DG Solar**									g = (b - c - d - e - f)
17	Power Purchase w/RECs:									
18	SunE Alamosa	6.20	14,363		983			1,338		
19	Cogentrix	30.00	55,350		3,786			5,156		
20	SanLuis Solar	30.00	70,785		4,842			6,594		
21	Greater Sandhill	19.00	45,237		3,094			4,214		
22	SolarTAC	0.25	0		0			0		
23										
24										
25	**Total Wholesale DG Solar**	85.45	185,735	0	12,705	0	0	17,302	0	155,728
26										
27	**Wholesale DG Biomass**									g = (b - c - d - e - f)
28	Power Purchase w/RECs:									
29										
30	Waste Management	3.28	0		0			0		
31	**Total Wholesale DG Biomass**	3.28	0	0	0	0	0	0	0	0
32										
33	**Wholesale DG Small Hydropower**									g = (b - c - d - e - f)
34	Company-Owned Generation:									
35	Ames	2.80	7,000		479			652		
36	Georgetown	1.44	4,430		303			413		
37	Salida	0.65	1,712		117			160		
38	Shoshone	14.40	85,000		5,814			7,919		
39	Tacoma	8.00	9,491		649			884		
40	Power Purchase w/RECs:									
41	Betasso/SL/Lakewood	7.50	8,719					872		
42	SilverLake	3.30	8,719	1,318						
43	Dillon Dam	1.90	9,327	1,410						
44	Foothills	2.30	5,332					533		
45	Roberts Tunnel	6.10	11,580	1,751						
46	Strontia Springs	1.20	6,246	944						
47	Hillcrest	2.30	5,745	868						
48	Gross Reservoir	8.10	16,061	2,428						
49	Redlands	1.40	2,756					276		
50	Grand Valley/Orchard Mesa	3.00	0					0		
51	Mt. Elbert	2.50	4,251					425		
52	UTE	0.23	0					0		
53										
54	**Total Wholesale DG Small Hydropower**	67.12	186,368	8,719	7,362	0	0	12,134	0	158,153
55										
56	**Wholesale DG Wind**									g = (b - c - d - e - f)
57	Company Owned Generation									
58	Ponnequin II-VI									
59	Power Purchase w/RECs:									
60	Ridgecrest	29.70	0		0			0		
61	Northern Colorado Wind II	22.50	69,391		4,747			6,464		
62	NREL Siemens	2.30	0		0			0		
63										
64	**Total Wholesale DG Wind**	54.50	69,391	0	4,747	0	0	6,464	0	58,180
65										
66	**Total Wholesale DG**	210.35	441,494	8,719	24,814	0	0	35,900	0	372,061
67										
68	**Non-DG**									
69										
70	**Non-DG Wind**									g = (b - c - d - e - f)
71	Company Owned Generation									
72	Rush Creek	600.00	1,647,980			227,955		1,647,980		
73	Cheyenne Ridge	499.00	1,710,544					1,710,544		
74	Power Purchase w/RECs:									
75	Colorado Green	162.00	456,091						0	
76	Spring Canyon	60.00	171,880						0	
77	Cedar Creek	300.50	773,312						0	
78	Twin Buttes	75.00	173,243						0	
79	Logan	201.00	531,479						0	
80	Peetz Table	199.50	620,029						0	
81	Northern Colorado Wind I	151.80	473,240						0	
82	Limon I	200.00	723,501		163,782					
83	Cedar Creek II	250.80	683,851		154,806					
84	Cedar Point	252.00	803,830		181,966					
85	Limon II	200.00	610,848		138,280					
86	Limon III	200.60	794,224		179,792					
87	Multiband Golden West	249.90	828,876					828,876		
88	Mountain Breeze	169.00	634,839					634,839		
89	Broncos Plains	300.00	966,836							
90										
91	**Total Non-DG Wind**	4,071.10	12,604,604	0	818,626	227,955	0	4,822,239	0	6,735,784
92										
93	**Non-DG Solar**									g = (b - c - d - e - f)
94	Comanche Solar	120.00	274,728		62,191					
95	Solar Star III	50.00	114,873		26,004					
96	Hartsel Solar	72.00	163,159							
97	Neptune Solar	250.00	666,883							
98	Bighorn Solar	240.00	566,232							
99	Thunder Wolf	200.00	511,963							
100	Midway	100.00	266,216							
101	Sun Mountain Solar	200.00	535,986							
102	Titan Solar	50.00	110,920				110,920			
103	**Total Non-DG Solar**	1,282.00	3,210,960	0	88,195	0	110,920	0	0	3,011,845
104										
105	**Total Non-DG**	5,353.10	15,815,564	0	906,821	227,955	110,920	4,822,239	0	9,747,629
106										
107										
108	**Total Non Retail DG Renewables (WDG + NDG)**		16,257,058	8,719	931,635	227,955	110,920	4,858,139	0	10,119,690
109	**Total Renewable Resources**		17,348,217	8,719	931,635	227,955	110,920	4,858,139	0	11,210,849
110										

Notes:

(1) Retail DG capacity presented in DC; all others in AC

(2) Wholesale RECs transferred based on projected production and forecast wholesale load ratio share. Actual RECs transferred will be presented in the 2025 RES Report.

(3) Windsource retirement method will use proportional allocation of Wholesale DG and Non-DG plus third-party verified generation.
REC vintages from the last half of the prior year could be used for the Standard Windsource retirement, per Green-e Standards. Actual RECs retired will be presented in the 2025 RES Report.

(4) Currently executed REC sales. Actual REC sales will be sourced from multiple wind generators, but generation from specific generators is unknown at the time of this filing.

Table 4-4 - Planned Procurement of RECs
Public Service Company of Colorado
2022 Renewable Energy Standard Compliance Plan

Row	Calendar Year	Retail DG RECs (1)	Retail DG RECs Retired for Windsource, R*C, & CRP	Retail DG RECs Sold (2)	Bonus RECs (3)	Community-Based Bonus RECs	Retail DG Total RECs	Wholesale DG RECs (1)	New Wholesale DG RECs (1)	Wholesale DG Retired for Windsource, R*C, & CRP	Wholesale DG RECs Sold (2)	Wholesale DG Bonus RECs (4)	Wholesale DG Total RECs	Existing Non-DG RECs (1)	New Non-DG RECs (1)	Recycled Energy	Non-DG RECs Retired for Windsource, R*C, & CRP	Non-DG RECs Sold (2)	Non-DG Bonus For RECs & Recycled Energy	Non-DG Total RECs
	Column Reference Calculation	a	b	c	d	e	f f = (a - b - c + d + e)	g	h	i	j	k	L L= (g + h - i - j + k)	m	n	o	p	q	r	s (m + n + o - p - q + r)
1	**2021**	740,083	-	-	24,774	1,480	766,337	497,514	-	44,855	-	113,166	565,825	12,958,708	-	-	4,124,989	850,000	1,247,637	9,231,356
2	**2022**	840,671	-	-	24,749	1,681	867,101	499,208	-	45,025	-	113,547	567,730	13,767,337	-	-	5,194,099	850,000	1,246,284	8,969,522
3	**2023**	942,996	-	-	24,724	1,886	969,606	430,443	-	38,147	-	98,075	490,371	15,993,983	-	-	5,728,843	350,000	1,253,862	11,169,002
4	**2024**	1,030,198	-	-	24,699	1,886	1,056,783	417,288	-	31,558	-	96,433	482,163	15,952,053	-	-	8,201,746	-	1,258,422	9,008,729
5	**2025**	1,091,159	-	-	24,674	1,886	1,117,719	407,960	-	27,519	-	95,110	475,551	14,908,742	-	-	7,193,952	-	1,232,118	8,946,908
6	**2026**	1,155,756	-	-	24,649	1,886	1,182,291	416,569	-	29,005	-	96,891	484,455	15,325,909	-	-	7,568,915	-	1,210,766	8,967,761
7	**2027**	1,224,167	-	-	24,624	1,886	1,250,677	366,936	-	25,539	-	85,349	426,746	14,536,146	-	-	6,702,790	-	1,159,597	8,992,953
8	**2028**	1,309,814	-	-	24,599	1,886	1,336,299	327,632	-	19,553	-	77,020	385,099	13,140,481	-	-	5,213,170	-	936,312	8,863,623
9	**2029**	1,425,520	-	-	24,574	1,886	1,451,980	306,026	-	19,359	-	71,667	358,334	13,096,745	-	-	5,166,640	-	938,650	8,868,756
10	**2030**	1,568,739	-	-	24,549	1,886	1,595,174	251,378	-	17,354	-	58,506	292,530	12,641,800	-	-	4,664,900	-	944,970	8,921,869
11	**2031**	1,703,558	-	-	24,524	1,886	1,729,968	209,660	-	16,575	-	48,271	241,356	12,523,831	-	-	4,470,194	-	923,665	8,977,302
12	**2032**	1,818,625	-	-	24,499	1,886	1,845,010	113,189	-	12,451	-	25,185	125,923	11,798,670	-	-	3,441,152	-	804,236	9,161,755
13	**2033**	1,938,884	-	-	24,474	1,886	1,965,244	102,415	-	9,754	-	23,165	115,826	11,103,069	-	-	2,768,224	-	700,245	9,035,090
14	**2034**	2,063,814	-	-	24,449	1,886	2,090,149	102,415	-	8,566	-	23,462	117,311	10,806,160	-	-	2,470,335	-	668,589	9,004,413
15	**2035**	2,193,310	-	-	24,424	1,886	2,219,620	102,415	-	7,284	-	23,783	118,914	10,518,626	-	-	2,151,514	-	616,540	8,983,652
16	**2036**	2,326,890	-	-	24,399	1,886	2,353,175	102,619	-	6,231	-	24,097	120,485	10,314,068	-	-	1,887,650	-	617,373	9,043,791
17	**2037**	2,464,623	-	-	24,374	1,886	2,490,883	98,132	-	1,222	-	24,227	121,137	9,043,608	-	-	635,015	-	445,698	8,854,291

Notes:
(1) RECs presented are net of Wholesale Transfers and City of Boulder transfers (if applicable) and do not include in-state bonus
(2) RECs sold based on executed transactions with Trading/Origination
(3) Bonus applied to Retail DG based on purchase transactions entered into prior to August 11, 2010
(4) Bonus applies to Non Retail facilities COD prior to 01/01/2015; a 1.25 bonus applies for all Non-Retail resources placed in service ≤ 12/31/2014

Table 4-5 - Planned Procurement of RECs Renewable*Connect
Public Service Company of Colorado
2022 Renewable Energy Standard Compliance Plan

Row	Calendar Year	Renewable* Connect RECs	Non-DG RECs Retired for Renewable* Connect (1)	RECS Remaining
	Column Reference	a	b	c
	Calculation			c = a - b
1	**2021**	118,384	118,384	0
2	**2022**	116,189	116,189	0
3	**2023**	116,920	116,920	0
4	**2024**	116,540	116,540	0
5	**2025**	110,920	110,920	0
6	**2026**	111,808	111,808	0
7	**2027**	106,582	106,582	0
8	**2028**	104,660	104,660	0
9	**2029**	103,039	103,039	0
10	**2030**	97,264	97,264	0
11	**2031**	96,636	96,636	0

Table 7-1

Public Service Company of Colorado

Renewable Energy Standard Adjustment Estimate
For the Years 2021-2030

Table 7-1

Renewable Resource Costs
Base Case (NO CARBON)
($000)

	UNLOCKED Renewable Resources			LOCKED Renewable Resources		
Year	**Total** Costs to be Recovered	**Incremental** Costs Recovered by RESA	**Avoided** Costs Recovered by ECA	**Total** Costs to be Recovered	**Incremental** Costs Recovered by RESA	**Avoided** Costs Recovered by ECA
2021	($0)	$0	($0)	$446,736	$39,819	$406,917
2022	$14,748	$12,169	$2,579	$443,267	$29,738	$413,530
2023	$37,708	$31,527	$6,181	$577,075	($57,825)	$634,900
2024	$59,179	$42,968	$16,211	$579,808	($69,813)	$649,621
2025	$175,530	$109,020	$66,510	$574,125	($83,149)	$657,274
2026	$195,237	$130,063	$65,174	$572,775	($104,446)	$677,221
2027	$276,766	$140,354	$136,412	$571,647	($131,147)	$702,794
2028	$393,880	$196,815	$197,065	$588,236	($135,590)	$723,826
2029	$441,524	$219,092	$222,432	$647,021	($99,642)	$746,663
2030	$575,361	$285,405	$289,955	$643,965	($104,415)	$748,381

Table 7-2 (a)

Public Service Company of Colorado

Renewable Energy Standard Adjustment Estimate
For the Years 2021-2030

2022-25 Renewable Energy Plan
UNLOCKED Renewable Resources Incremental and Avoided Costs
Base Case (NO CARBON)

A	B	C	D	E	F	G	H	I	J	K	L	M	
	Unlocked Renewable Resources except On-Site Solar						Unlocked On-Site Solar			Unlocked Totals			
	Central Solar Total Cost	Wind Total Cost	Other Renewable Total Cost	Total Cost (B+C+D)	B, C, D Modeled Incremental Cost [1]	B,C,D Calculated Avoided Cost (E-F) [2]	On-Site Solar Total Cost	Modeled On-Site Solar Avoided Cost (H-J) [2]	Modeled On-Site Solar Incremental Cost [1]	Total Costs (E+H)	Incremental Costs (F+J) [1]	Avoided Costs (G+I) [2]	
2021	0	0	0	0	0	0	(0)	(0)	0	(0)	0	(0)	2021
2022	0	0	0	0	0	0	14,748,090	2,578,785	12,169,305	14,748,090	12,169,305	2,578,785	2022
2023	0	0	0	0	0	0	37,707,900	6,181,305	31,526,595	37,707,900	31,526,595	6,181,305	2023
2024	0	0	0	0	0	0	59,178,950	16,210,795	42,968,155	59,178,950	42,968,155	16,210,795	2024
2025	0	97,268,360	0	97,268,360	44,733,097	52,535,263	78,261,710	13,974,755	64,286,955	175,530,070	109,020,052	66,510,018	2025
2026	0	97,268,360	0	97,268,360	49,769,024	47,499,336	97,968,910	17,674,472	80,294,438	195,237,270	130,063,462	65,173,808	2026
2027	40,775,270	117,298,620	0	158,073,890	46,271,472	111,802,418	118,692,580	24,609,953	94,082,627	276,766,470	140,354,099	136,412,371	2027
2028	47,368,140	205,727,680	0	253,095,820	82,946,763	170,149,057	140,784,510	26,915,941	113,868,569	393,880,330	196,815,332	197,064,998	2028
2029	46,985,750	225,552,180	0	272,537,930	83,857,945	188,679,985	168,985,920	33,752,212	135,233,708	441,523,850	219,091,653	222,432,197	2029
2030	100,353,250	273,772,110	0	374,125,360	126,685,747	247,439,613	201,235,190	42,515,870	158,719,320	575,360,550	285,405,067	289,955,483	2030

[1] Incremental costs of renewable resources are recovered through the RESA.
[2] Avoided costs of renewable resources are recovered through the ECA.

Table 7-2 (b)

Public Service Company of Colorado

Renewable Energy Standard Adjustment Estimate
For the Years 2021-2030

2022-25 Renewable Energy Plan
LOCKED Renewable Resources Incremental and Avoided Costs
Base Case (NO CARBON)

A	B	C	D	E	F	G	H	I	J	K	L	M	
	Locked Renewable Resources except On-Site Solar						Locked On-Site Solar			Locked Totals			
	Central Solar Total Cost	Wind Total Cost	Other Renewable Total Cost	Total Cost (B+C+D)	B, C, D Locked Incremental Cost [1]	B,C,D Calculated Avoided Cost (E-F) [2]	On-Site Solar Total Cost	Locked On-Site Solar Avoided Cost (H-J) [2]	Calculated On-Site Solar Incremental Cost [1]	Total Costs (E+H)	Incremental Costs (F+J) [1]	Avoided Costs (G+I) [2]	
2021	61,528,701	330,577,988	0	392,106,689	36,170,653	355,936,036	54,629,117	50,980,963	3,648,153	446,735,806	39,818,806	406,917,000	2021
2022	62,800,933	320,296,520	0	383,097,453	26,956,809	356,140,644	60,169,950	57,388,978	2,780,972	443,267,402	29,737,780	413,529,622	2022
2023	127,465,440	327,737,700	0	455,203,140	(58,825,422)	514,028,562	121,871,890	120,871,515	1,000,375	577,075,030	(57,825,046)	634,900,076	2023
2024	127,560,970	328,063,750	0	455,624,720	(69,538,017)	525,162,737	124,183,650	124,458,568	(274,918)	579,808,370	(69,812,936)	649,621,306	2024
2025	127,058,180	322,050,630	0	449,108,810	(82,380,656)	531,489,466	125,016,280	125,784,662	(768,382)	574,125,090	(83,149,038)	657,274,128	2025
2026	126,865,980	319,463,040	0	446,329,020	(102,819,403)	549,148,423	126,445,980	128,072,459	(1,626,479)	572,775,000	(104,445,882)	677,220,882	2026
2027	126,680,510	316,950,580	0	443,631,090	(128,912,277)	572,543,367	128,015,870	130,250,764	(2,234,894)	571,646,960	(131,147,171)	702,794,131	2027
2028	123,676,550	336,357,290	0	460,033,840	(134,261,245)	594,295,085	128,202,650	129,531,212	(1,328,562)	588,236,490	(135,589,807)	723,826,297	2028
2029	123,226,590	394,143,010	0	517,369,600	(100,405,217)	617,774,817	129,651,070	128,888,321	762,749	647,020,670	(99,642,467)	746,663,137	2029
2030	122,985,490	389,501,100	0	512,486,590	(104,964,385)	617,450,975	131,478,850	130,929,561	549,289	643,965,440	(104,415,096)	748,380,536	2030

[1] Incremental costs of renewable resources are recovered through the RESA
[2] Avoided costs of renewable resources are recovered through the ECA

Table 7-2 (c)

Public Service Company of Colorado
Renewable Energy Standard Adjustment Estimate
For the Years 2021-2030

Rider Shut Off Year
2030

RESA Revenue %	
2.000%	2016
1.000%	2021

2022-25 Renewable Energy Plan
Estimated RESA Balance
Base Case (NO CARBON)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Renewable Resource Total Costs		RESA Related Costs						RESA Related Revenues/Credits			ECA Related Costs		
	Unlocked Costs (Table 7-2a, Col K)	Locked Costs (Table 7-2b, Col K)	Unlocked Incremental Costs (Table 7-2a, Col L)	Locked Incremental Costs (Table 7-2b, Col L)	RESA II Recovered through CEPR	Upfront REC Incentive and Battery Connect	Wholesale Customer RESA RJA Credit	RESA Program & Admin Costs	RESA Rider Revenue	WindSource Revenue	REC Margin Revenue	Unlocked Avoided Costs (Table 7-2a, Col M)	Locked Avoided Costs (Table 7-2b, Col M)	
2021	0	446,735,806	0	45,818,806		0	(2,289,488)	3,127,000	29,737,807	4,101,815	5,421,518	(0)	406,917,000	2021
2022	14,748,090	443,267,402	12,169,305	29,737,780		4,450,000	(1,751,563)	2,173,000	28,747,011	4,119,783		2,578,785	413,529,622	2022
2023	37,707,900	577,075,030	31,526,595	(57,825,046)		4,450,000	0	1,527,126	28,901,756	4,191,718		6,181,305	634,900,076	2023
2024	59,178,950	579,808,370	42,968,155	(69,812,936)		4,450,000	0	1,572,940	29,659,863	4,264,993		16,210,795	649,621,306	2024
2025	175,530,070	574,125,090	109,020,052	(83,149,038)	21,225,054	4,450,000	0	1,620,128	31,144,872	4,339,629		66,510,018	657,274,128	2025
2026	195,237,270	572,775,000	130,063,462	(104,445,882)	(6,428,369)	0	0	1,668,732	32,257,108	4,415,653		65,173,808	677,220,882	2026
2027	276,766,470	571,646,960	140,354,099	(131,147,171)	20,355,850	0	0	1,718,794	32,902,250	4,492,883		136,412,371	702,794,131	2027
2028	393,880,330	588,236,490	196,815,332	(135,589,807)	(3,113,565)	0	0	1,770,358	33,560,295	4,571,463		197,064,998	723,826,297	2028
2029	441,523,850	647,020,670	219,091,653	(99,642,467)	(19,580,620)	0	0	1,823,468	34,231,501	4,651,418		222,432,197	746,663,137	2029
2030	575,360,550	643,965,440	285,405,067	(104,415,096)	(67,431,220)	0	0	1,878,172	34,916,131	4,732,771		289,955,483	748,380,536	2030

	P	Q	R	S	T	U	V	
	Totals			Calculations				
	Total Renewable Resource Costs (B+C)	Total RESA Costs (D+E+F+G+H+I)	Total RESA Revenue (J+K+L)	Annual Excess/ (Deficiency) (R-Q)	Interest	Annual Excess/ (Deficiency) w/ Interest (S+T)	RESA Rolling Balance (Deferred)	
2020							51,325,651	2020
2021	446,735,806	46,656,319	39,261,140	(7,395,179)	3,110,112	(4,285,067)	47,040,584	2021
2022	458,015,492	46,778,522	32,866,794	(13,911,728)	2,617,532	(11,294,196)	35,746,388	2022
2023	614,782,930	0	33,093,474	33,093,474	3,414,741	36,508,215	72,254,603	2023
2024	638,987,320	0	33,924,856	33,924,856	5,825,872	39,750,728	112,005,331	2024
2025	749,655,160	53,166,196	35,484,501	(17,681,695)	6,736,641	(10,945,055)	101,060,277	2025
2026	768,012,270	20,857,943	36,672,761	15,814,817	7,115,590	22,930,407	123,990,684	2026
2027	848,413,430	31,281,573	37,395,133	6,113,560	8,296,199	14,409,759	138,400,443	2027
2028	982,116,820	59,882,317	38,131,758	(21,750,559)	8,327,393	(13,423,166)	124,977,277	2028
2029	1,088,544,520	101,692,034	38,882,919	(62,809,115)	6,110,299	(56,698,817)	68,278,460	2029
2030	1,219,325,990	115,436,922	39,648,902	(75,788,020)	1,984,105	(73,803,916)	(5,525,455)	2030

Interest Rate	6.530%

Table 7-3 (a)
Public Service Company of Colorado
Renewable Energy Standard Adjustment Estimate
For the Years 2021-2030

Locked Incremental Costs (Transferred from the ECA to the RESA)

	Total Incremental Cost ($000)
	SunE Alamosa [1]
2021	1,846
2022	1,947
2023	1,928
2024	1,837
2025	1,784
2026	1,722
2027	1,660
2028	1,598
2029	0
2030	0

Locked Avoided Costs (Transferred from the RESA to the ECA)

	Total Avoided Cost ($000)
	Solar Rewards Prior to 2009 [1]
2021	3,510
2022	3,273
2023	3,291
2024	3,449
2025	3,534
2026	3,632
2027	3,421
2028	3,373
2029	47
2030	0

[1] Locked down costs in Docket No. 08A-532E were locked on a total dollar basis

Table 7-3 (b)

Public Service Company of Colorado
Renewable Energy Standard Adjustment Estimate
For the Years 2021-2030

Locked Incremental Costs (Transferred from the ECA to the RESA)

Approved Plan	Resource	Description	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2009 RES Plan	SunE Alamosa [1]	Incremental Cost ($000)	$ 1,846	$ 1,947	$ 1,928	$ 1,837	$ 1,784	$ 1,722	$ 1,660	$ 1,598	$ -	$ -
Total Locked Incremental Costs			$ 1,846	$ 1,947	$ 1,928	$ 1,837	$ 1,784	$ 1,722	$ 1,660	$ 1,598	$ -	$ -

Locked Avoided Costs (Transferred from the RESA to the ECA)

Approved Plan	Resource	Description	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2009 RES Plan	On-Site Solar (Pre-2009) [1]	Locked Avoided Cost ($000)	$ 3,510	$ 3,273	$ 3,291	$ 3,449	$ 3,534	$ 3,632	$ 3,421	$ 3,373	$ 47	$ -
Total Locked Avoided Costs			$ 3,510	$ 3,273	$ 3,291	$ 3,449	$ 3,534	$ 3,632	$ 3,421	$ 3,373	$ 47	$ -

[1] Locked down costs in Docket No. 08A-532E were locked on a total dollar basis