

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

**IN THE MATTER OF SOUTHWESTERN)
PUBLIC SERVICE COMPANY’S)
ANNUAL 2024 RENEWABLE ENERGY)
PORTFOLIO PROCUREMENT PLAN)
AND REQUESTED APPROVALS)
THEREIN; PROPOSED 2024)
RENEWABLE PORTFOLIO STANDARD)
COST RIDER; TERMINATION OF THE) CASE NO. 23-00__-UT
RECONCILIATION RIDER; AND OTHER)
ASSOCIATED RELIEF,)
)
)
)
)
)
SOUTHWESTERN PUBLIC SERVICE)
COMPANY,)
)
)
APPLICANT.)**

DIRECT TESTIMONY

of

CHRISTOPHER J. WHITESIDE

on behalf of

SOUTHWESTERN PUBLIC SERVICE COMPANY

June 30, 2023

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GLOSSARY OF ACRONYMS AND DEFINED TERMS

<u>Acronym/Defined Term</u>	<u>Meaning</u>
2021 IRP	SPS's 2021 Integrated Resource Plan
Commission	New Mexico Public Regulation Commission
IRP	Integrated Resource Plan
MWh	megawatt-hour
Next Plan Year	SPS's filing for Plan Year 2025
Plan Year	SPS's Filing for Plan Year 2024
REA	Renewable Energy Act
REC	Renewable Energy Certificate
RFP	Request for Proposals
RPS	Renewable Portfolio Standard
Rule 572	Renewable Energy Rule (17.9.572 NMAC)
SPS	Southwestern Public Service Company, a New Mexico corporation
Xcel Energy	Xcel Energy Inc.

LIST OF ATTACHMENTS

<u>Attachment</u>	<u>Description</u>
CJW-1	Forecasted RPS compliance position for the Plan Year and Next Plan Year <i>(Filename: CJW-1.xlsx)</i>
CJW-2	Forecasted RPS compliance position using the Financial Load Forecast: Years 2024 – 2033 <i>(Filename: CJW-2. xlsx)</i>
CJW-3	Forecasted RPS compliance position using the Planning Load Forecast: Years 2024 – 2033 <i>(Filename: CJW-3. xlsx)</i>
CJW-4	Workpapers and Native Files <i>(Folder Name: CJW-4)</i>

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Direct Testimony
of
Christopher J. Whiteside

1 **I. WITNESS IDENTIFICATION AND QUALIFICATIONS**

2 **Q. Please state your name and business address.**

3 A. My name is Christopher J. Whiteside. My business address is 790 South
4 Buchanan Street, Amarillo, Texas 79101.

5 **Q. On whose behalf are you testifying in this proceeding?**

6 A. I am testifying on behalf of Southwestern Public Service Company (“SPS”), a
7 New Mexico corporation and wholly-owned electric utility subsidiary of Xcel
8 Energy Inc. (“Xcel Energy”).

9 **Q. By whom are you employed and in what position?**

10 A. I am employed by Xcel Energy as Analyst II, Resource Planning & Bidding.

11 **Q. Please briefly outline your responsibilities as Analyst II, Resource Planning
12 & Bidding.**

13 A. My responsibilities include developing comprehensive plans to attain new
14 capacity and energy resources in the most cost-effective manner. I support the
15 development, issuance, receiving, processing, and evaluation of Requests for
16 Proposals (“RFPs”) for new generation resources. I interface with regulators,
17 intervenors, as well as political and special interest groups, customers, and power
18 suppliers to obtain consensus, support, and/or regulatory approval of Xcel

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1 Energy's resource acquisitions and plans. I support system modeling of
2 generation resources that incorporate alternatives and a variety of scenarios,
3 which then are assessed based both on quantitative and qualitative risks to
4 develop optimal portfolios of resources.

5 **Q. Please summarize your educational background.**

6 A. I have a Bachelor of Science Degree in Mechanical Engineering from Texas Tech
7 University.

8 **Q. Please describe your professional experience.**

9 A. I began my employment with Xcel Energy in January 2016 as a Project Manager
10 in the Engineering and Construction department within the Energy Supply
11 organization. In 2021, I was selected for a career development assignment as
12 Resource Planning Analyst II in Resource Planning & Bidding.

13 Prior to joining Xcel Energy, I worked for a large industrial engineering,
14 procurement, and construction contractor where I was responsible for various
15 aspects of developing, engineering, and constructing large industrial power plants.
16 These responsibilities included but were not limited to design engineering, field
17 engineering, project execution planning management, project proposal
18 development, and project management. I am a licensed Professional Engineer in

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1 the State of Texas, and I hold a Project Management Professional certification
2 issued by the Project Management Institute.

1 **III. CALCULATION OF RPS REQUIREMENT FOR THE PLAN YEAR AND**
2 **NEXT PLAN YEAR**

3 **Q. What are SPS’s Plan Year and Next Plan Year RPS requirements?**

4 A. The Renewable Energy Act (“REA”) and Renewable Energy Rule (17.9.572
5 NMAC) (“Rule 572”) require SPS to supply no less than 20% of SPS’s New
6 Mexico retail energy sales by renewable energy during the Plan Year and no less
7 than 40% of SPS’s New Mexico retail energy sales by renewable energy during
8 the Next Plan Year. *See* Rule 572.10(B)(2) and (3) respectively; and NMSA
9 § 62-16-4 (A)(2) and (3).¹ Based on SPS’s projected Plan Year and Next Plan
10 Year total retail sales, SPS’s overall RPS requirement for the Plan Year and Next
11 Plan Year will be approximately 2.2 million megawatt-hours (“MWh”) and 4.9
12 million MWh, respectively. Please refer to Attachment ZEL-3 (Appendix A,
13 pages 1 and 2, line 5, for the Plan Year and Next Plan Year, respectively) to the
14 Direct Testimony of Ms. Lees.

¹ Per NMSA § 62-16-7 (B)(2), New Mexico retail energy sales to be reduced by the volume of renewable energy purchased through a voluntary program prior to applying the RPS percentage.

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1 **Q. How did SPS determine its projected Plan Year and Next Plan Year New**
2 **Mexico retail energy sales?**

3 A. As part of its normal course of business, SPS projects monthly energy sales on an
4 annual basis. Xcel Energy Services Inc.'s Sales Forecasting Department provides
5 total billed retail sales, by month, for each New Mexico retail rate class. SPS's
6 sales forecast is developed using industry standard multiple regression modeling
7 techniques and includes appropriate adjustments to account for energy efficiency
8 and load management programs, new load growth, and customers switching
9 between rate classes.

10 **Q. Could SPS's New Mexico Retail *actual* sales be greater than SPS's New**
11 **Mexico Retail sales *forecast*?**

12 A. Yes. Any projection or forecast has inherent uncertainty; this is especially true as
13 projections or forecasts are extended into the future. I describe the potential
14 impact of additional load growth later in my testimony.

15 **Q. Can you summarize SPS's forecasted compliance position for the Plan Year**
16 **and Next Plan Year based on existing resources in SPS's generation**
17 **portfolio?**

18 A. Yes. Using SPS's most current financial load forecast produced in Spring 2023,
19 SPS will comply with the RPS requirement for the Plan Year and Next Plan Year.

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of
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1 Attachment CJW-1 provides SPS's annual projected RPS requirement,
2 generation, and retirement of RECs and SPS's compliance position for the Plan
3 Year and Next Plan Year.

**IV. CALCULATION OF RPS REQUIREMENTS AND COMPLIANCE POSITION
OVER A 10-YEAR PLANNING PERIOD**

1 **Q. Please briefly describe this section of your testimony.**

2 A. Consistent with previous SPS RPS filings, in this section of my testimony, I
3 describe how demonstrating compliance with the Plan Year and Next Plan year is
4 not reflective of the long-term nature of resource planning. In other words,
5 acquiring new, cost-effective renewable generation is often a multi-year process.
6 Thus, for SPS to evaluate all viable options, SPS reviews RPS compliance over
7 the longer planning period of 10 years. In this section, I present a look-ahead of
8 SPS's compliance position through 2033, which takes into account the increased
9 REA RPS requirement in 2025, to 40%, and the next requirement increase to 50%
10 in 2030.

11 **Q. Why is it reasonable to evaluate SPS's RPS requirement over a longer period
12 than the Plan Year and Next Plan Year?**

13 A. Evaluating a 10-year planning horizon provides adequate time for SPS to plan for
14 the acquisition of additional RECs when needed, taking into account the often
15 years-long process associated with acquiring new generation resources, often
16 requiring a new generator interconnection agreement. For clarity, I am not
17 suggesting that SPS needs to demonstrate forecasted compliance throughout this

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1 10-year period for purposes of this 2023 RPS application. However, in order to
2 properly plan for compliance with RPS standards beyond Plan Years 2024 and
3 2025, SPS must necessarily consider a longer-term planning horizon in its current
4 decision making. For example, if SPS's long-term projections were to show a
5 shortfall of RECs to achieve RPS compliance in 5 years, SPS would need to begin
6 planning for acquisition of additional renewable generation in order to ensure it
7 obtains needed RECs in time to maintain its RPS compliance.

8 **Q. Have you prepared Attachments which reflect a 10-year planning horizon?**

9 A. Yes. Attachments CJW-2 and CJW-3 provide SPS's annual projected RPS
10 requirement, generation and retirement of RECs, and SPS's compliance position
11 for the years 2024 through 2033 using a financial load forecast and a planning
12 load forecast, respectively.

13 **Q. Why is SPS presenting compliance projections using two different forecasts,
14 the financial load forecast and planning load forecast?**

15 A. In this case, I am presenting SPS's compliance position using two load forecasts –
16 the “financial load forecast” and the “planning load forecast.” The main
17 difference between these two forecasts is that the planning load forecast
18 represents a projection of SPS's REC need if oil and gas load continues to

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1 increase. The use of a planning load forecast enables SPS to reflect continued
2 growth in oil and gas developments in the New Mexico portion of the Permian
3 basin, largely due to electrification of the industry. As I described earlier, the
4 acquisition of additional renewable resources can be a multi-year process;
5 therefore, it is difficult to quickly react to unplanned oil and gas growth.
6 Presenting two different forecasts ensures SPS can maintain compliance with the
7 RPS, even in the event of higher oil and gas load growth that would result in a
8 greater number of RECs being needed for SPS to continuously achieve RPS
9 compliance.

10 **Q. Please summarize SPS's compliance position using the financial load**
11 **forecast.**

12 A. Using the financial load forecast, SPS is projecting RPS compliance through 2028
13 with our current resource mix. This includes reliance on banked RECs to meet
14 compliance beginning in 2025, when SPS is to supply no less than 40% of SPS's
15 New Mexico retail energy sales by renewable energy.²

² Refer to Attachment CJW-2

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1 **Q. Please summarize SPS's compliance using the planning load forecast.**

2 A. Using the planning load forecast, SPS is projecting compliance through 2027 with
3 our current resource mix. Again, this includes reliance on banked RECs to meet
4 compliance beginning in 2025. In short, under both load forecast assumptions
5 SPS remains in compliance for the next several years, and SPS does not require
6 any new renewable resources to comply with the RPS for the Plan Year or Next
7 Plan Year³.

8 **Q. What is SPS experiencing with respect to the financial and planning load
9 forecasts?**

10 A. As shown in Attachments CJW-2 and CJW-3, SPS is continuing to see a large
11 amount of load growth in New Mexico, driven by oil and gas electrification as I
12 mentioned earlier in my testimony. The current load forecasts are significantly
13 higher than what was forecasted in SPS's last two RPS filings. This is precisely
14 why SPS believes it's reasonable to evaluate RPS positions over a longer period,
15 not only to demonstrate compliance in the Plan Year and Next Plan Year.
16 Summarily, with every increased MWh of load added in New Mexico there will

³ Refer to Attachment CJW-3. In addition, SPS will require additional resources to meet compliance requirements in future years as discussed in Section V of my direct testimony.

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1 be an associated REC needed for RPS compliance. SPS believes these load
2 forecast trends will materialize over the coming years; therefore, SPS will
3 continue to provide forward-looking RPS compliance positions in its RPS filings,
4 with emphasis on the planning load forecast. Furthermore, SPS plans to file its
5 next IRP with the New Mexico Public Regulation Commission (“Commission”)
6 later this year. Pursuant to the new IRP rules, SPS and stakeholders, have started
7 discussions in regard to the 2023 IRP including plans to address SPS’s RPS
8 compliance in future years.

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1 stakeholders, have started discussions in regard to the 2023 IRP including plans to
2 address SPS's RPS compliance in future years.

3 **Q. Does this conclude your pre-filed direct testimony?**

4 A. Yes.

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ANNUAL 2024 RENEWABLE ENERGY)
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THEREIN; PROPOSED 2024)
RENEWABLE PORTFOLIO STANDARD)
COST RIDER; TERMINATION OF THE)
RECONCILIATION RIDER; AND)
OTHER ASSOCIATED RELIEF,)
SOUTHWESTERN PUBLIC SERVICE)
COMPANY,)
APPLICANT.)**

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VERIFICATION

On this day, June 30, 2023, I, Christopher J. Whiteside, swear and affirm under penalty of perjury under the law of the State of New Mexico, that my testimony contained in Direct Testimony of Christopher J. Whiteside is true and correct.

/s/ Christopher J. Whiteside
CHRISTOPHER J. WHITESIDE

Summary RPS Position

Forecasted RPS compliance position for the Plan Year and Next Plan Year

Line No.

1

2023 - RPS Filing

	<u>Unit</u>	<u>2024</u>	<u>2025</u>	
2				
3	Adjusted Load Forecast	GWh	11,006	12,350
4	REC Requirement	%	20%	40%
5	NM - RPS Requirements	GWh	2,201	4,940
6	RECs	GWh	3,778	3,712
7	Total RECs	GWh	3,778	3,712
8	Annual Position - Long (Short)	GWh	1,577	(1,228)
9	Annual Position - Percentage	%	34%	30%
10	<u>Banked Position - Long (Short)</u>			
11	Position Long / (Short)	RECs (000s)	6,551	5,323

RPS Position

Forecasted RPS compliance position for the Plan Year and Next Plan Year

Line No.

1 **REC Requirements**

2	Load and Allocation	Unit	2024	2025
3	Total Retail Sales at the Meter	GWh	26,472	27,825
4	NM Retail Allocation at the Meter	%	41.60%	44.40%
5	NM - Load Forecast	GWh	11,011	12,355
6	Less Voluntary Programs (subscribed)	GWh	5.125	5.093
7	NM - Adjusted Load Forecast	GWh	11,006	12,350

8	RPS Requirement	%	20%	40%
9	NM - RPS Requirements	GWh	2,201	4,940

10 **Current Position**

11	REC Acquisitions	Unit	2024	2025
12	Hale Wind	GWh	845	900
13	Sagamore Wind	GWh	888	949
14	Caprock	GWh	293	-
15	San Juan	GWh	329	337
16	Sun Edison 1-5	GWh	101	100
17	Mesaland	GWh	1	1
18	Palo Duro	GWh	449	476
19	Mammoth	GWh	338	353
20	Bonita II	GWh	259	290
21	Bonita I	GWh	136	154
22	Chaves	GWh	70	77
23	Roswell	GWh	68	75
24	NM DG	GWh	1	1
25	Existing REC Acquisitions	GWh	3,778	3,712

RPS Position

Forecasted RPS compliance position for the Plan Year and Next Plan Year

Line No.

Line No.	Filing Month	Month	7	7
29	Filing Month	Month	7	7
30	Opening Banked Position			
31	RECs less than 1 year old	MWh	3,664,713	1,574,171
32	RECs less than 2 years old	MWh	1,309,109	4,976,441
33	RECs less than 3 years old	MWh	-	-
34	RECs less than 4 years old	MWh	-	-
35	RECs lost this period	MWh	-	-
36	RECs Generated this Period before Filing Date	MWh	2,203,839	2,165,422
37	RECs Generation this Period after Filing Date	MWh	1,574,171	1,546,730
38	RECs Available During this Period			
39	RECs Generated after Filing Date	MWh	1,574,171	1,546,730
40	RECs less than 1 year old	MWh	5,868,552	3,739,593
41	RECs less than 2 years old	MWh	1,309,109	4,976,441
42	RECs less than 3 years old	MWh	-	-
43	RECs less than 4 years old	MWh	-	-
44	RECs to be Retired this Period	MWh	2,201,220	4,939,937
45	Closing Banked Position			
46	RECs Generated after Filing Date	MWh	1,574,171	1,546,730
47	RECs less than 1 year old	MWh	4,976,441	3,739,593
48	RECs less than 2 years old	MWh	-	36,504
49	RECs less than 3 years old	MWh	-	-
50	RECs less than 4 years old	MWh	-	-
51	Final Position	RECs	6,550,611	5,322,827

Southwestern Public Service Company

RPS Position

Forecasted RPS compliance position using
the Financial Load Forecast: Years 2024–2033

Line
No.

1	2023 - RPS Filing											
2		Unit	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
3	Adjusted Load Forecast	GWh	11,006	12,350	13,382	13,843	13,974	14,049	14,104	14,135	14,182	14,254
4	REC Requirement	%	20%	40%	40%	40%	40%	40%	50%	50%	50%	50%
5	NM - RPS Requirements	GWh	2,201	4,940	5,353	5,537	5,589	5,620	7,052	7,067	7,091	7,127
6	RECs	GWh	3,778	3,712	3,708	3,809	3,814	3,809	3,796	3,745	3,656	3,644
7	Total RECs	GWh	3,778	3,712	3,708	3,809	3,814	3,809	3,796	3,745	3,656	3,644
8	Annual Position - Long (Short)	GWh	1,577	(1,228)	(1,645)	(1,728)	(1,776)	(1,811)	(3,255)	(3,322)	(3,435)	(3,483)
9	Annual Position - Percentage	%	34%	30%	28%	28%	27%	27%	27%	26%	26%	26%
10	Banked Position - Long (Short)											
11	Position Long / (Short)	RECs (000s)	6,551	5,323	3,678	1,949	174	(1,637)	(4,893)	(8,215)	(11,650)	(15,132)

Southwestern Public Service Company

RPS Position

Forecasted RPS compliance position using
the Financial Load Forecast: Years 2024–2033

Line
No.

1	REC Requirements											
2	Load and Allocation	Unit	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
3	Total Retail Sales at the Meter	GWh	26,472	27,825	28,422	28,596	28,866	29,022	29,135	29,199	29,295	29,444
4	NM Retail Allocation at the Meter	%	41.60%	44.40%	47.10%	48.43%	48.43%	48.43%	48.43%	48.43%	48.43%	48.43%
5	NM - Load Forecast	GWh	11,011	12,355	13,387	13,848	13,979	14,054	14,109	14,140	14,187	14,259
6	Less Voluntary Programs (subscribed)	GWh	5.125	5.093	5.093	5.093	5.093	5.093	5.093	5.093	5.093	5.093
7	NM - Adjusted Load Forecast	GWh	11,006	12,350	13,382	13,843	13,974	14,049	14,104	14,135	14,182	14,254
8	RPS Requirement	%	20%	40%	40%	40%	40%	40%	50%	50%	50%	50%
9	NM - RPS Requirements	GWh	2,201	4,940	5,353	5,537	5,589	5,620	7,052	7,067	7,091	7,127
10	Current Position											
11	REC Acquisitions	Unit	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
12	Hale Wind	GWh	845	900	988	1,016	1,017	1,016	1,015	1,004	1,005	1,002
13	Sagamore Wind	GWh	888	949	1,038	1,067	1,069	1,067	1,065	1,059	1,057	1,052
14	Caprock	GWh	293	-	-	-	-	-	-	-	-	-
15	San Juan	GWh	329	337	-	-	-	-	-	-	-	-
16	Sun Edison 1-5	GWh	101	100	103	103	104	103	103	87	-	-
17	Mesaland	GWh	1	1	1	1	1	1	1	1	1	1
18	Palo Duro	GWh	449	476	505	519	519	519	519	519	519	519
19	Mammoth	GWh	338	353	400	411	412	411	407	395	394	393
20	Bonita II	GWh	259	290	324	333	333	333	332	326	328	326
21	Bonita I	GWh	136	154	172	177	177	177	175	172	173	172
22	Chaves	GWh	70	77	88	91	91	91	90	90	90	89
23	Roswell	GWh	68	75	88	90	91	90	90	90	89	89
24	NM DG	GWh	1	1	1	1	1	1	1	1	1	1
25	Existing REC Acquisitions	GWh	3,778	3,712	3,708	3,809	3,814	3,809	3,796	3,745	3,656	3,644

Southwestern Public Service Company

RPS Position

Forecasted RPS compliance position using
the Financial Load Forecast: Years 2024–2033

Line No.	Filing Month	Month	7	7	7	7	7	7	7	7	7	7
30	Opening Banked Position											
31	RECs less than 1 year old	MWh	3,664,713	1,574,171	1,546,730	1,544,884	1,587,098	173,594	(1,637,092)	(4,892,502)	(8,214,957)	(11,649,558)
32	RECs less than 2 years old	MWh	1,309,109	4,976,441	3,739,593	2,132,743	362,378	-	-	-	-	-
33	RECs less than 3 years old	MWh	-	-	36,504	-	-	-	-	-	-	-
34	RECs less than 4 years old	MWh	-	-	-	-	-	-	-	-	-	-
35	RECs lost this period	MWh	-	-	-	-	-	-	-	-	-	-
36	RECs Generated this Period before Filing Date	MWh	2,203,839	2,165,422	2,162,837	2,221,938	2,224,607	2,221,938	2,214,608	2,184,575	2,132,791	2,125,714
37	RECs Generation this Period after Filing Date	MWh	1,574,171	1,546,730	1,544,884	1,587,098	1,589,005	1,587,098	1,581,863	1,560,410	1,523,422	1,518,367
38	RECs Available During this Period											
39	RECs Generated after Filing Date	MWh	1,574,171	1,546,730	1,544,884	1,587,098	1,589,005	1,587,098	1,581,863	1,560,410	1,523,422	1,518,367
40	RECs less than 1 year old	MWh	5,868,552	3,739,593	3,709,567	3,766,821	3,811,705	2,395,531	577,516	(2,707,927)	(6,082,166)	(9,523,845)
41	RECs less than 2 years old	MWh	1,309,109	4,976,441	3,739,593	2,132,743	362,378	-	-	-	-	-
42	RECs less than 3 years old	MWh	-	-	36,504	-	-	-	-	-	-	-
43	RECs less than 4 years old	MWh	-	-	-	-	-	-	-	-	-	-
44	RECs to be Retired this Period	MWh	2,201,220	4,939,937	5,352,921	5,537,187	5,589,494	5,619,722	7,051,880	7,067,441	7,090,815	7,126,792
45	Closing Banked Position											
46	RECs Generated after Filing Date	MWh	1,574,171	1,546,730	1,544,884	1,587,098	173,594	(1,637,092)	(4,892,502)	(8,214,957)	(11,649,558)	(15,132,269)
47	RECs less than 1 year old	MWh	4,976,441	3,739,593	2,132,743	362,378	-	-	-	-	-	-
48	RECs less than 2 years old	MWh	-	36,504	-	-	-	-	-	-	-	-
49	RECs less than 3 years old	MWh	-	-	-	-	-	-	-	-	-	-
50	RECs less than 4 years old	MWh	-	-	-	-	-	-	-	-	-	-
51	Final Position	RECs	6,550,611	5,322,827	3,677,627	1,949,476	173,594	(1,637,092)	(4,892,502)	(8,214,957)	(11,649,558)	(15,132,269)

Southwestern Public Service Company

Summary RPS Position

Forecasted RPS compliance position using
the Planning Load Forecast: Years 2024–2033

Line
No.

1	2023 - RPS Filing											
2		Unit	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
3	Adjusted Load Forecast	GWh	11,747	13,394	14,743	15,428	15,744	15,965	16,154	16,331	16,476	16,662
4	REC Requirement	%	20%	40%	40%	40%	40%	40%	50%	50%	50%	50%
5	NM - RPS Requirements	GWh	2,349	5,358	5,897	6,171	6,298	6,386	8,077	8,166	8,238	8,331
6	RECs	GWh	3,778	3,712	3,708	3,809	3,814	3,809	3,796	3,745	3,656	3,644
7	Total RECs	GWh	3,778	3,712	3,708	3,809	3,814	3,809	3,796	3,745	3,656	3,644
8	Annual Position - Long (Short)	GWh	1,429	(1,645)	(2,189)	(2,362)	(2,484)	(2,577)	(4,280)	(4,421)	(4,582)	(4,687)
9	Annual Position - Percentage	%	32%	28%	25%	25%	24%	24%	24%	23%	22%	22%
10	Banked Position - Long (Short)											
11	Position Long / (Short)	RECs (000s)	6,402	4,757	2,568	205	(2,279)	(4,856)	(9,136)	(13,557)	(18,138)	(22,825)

Southwestern Public Service Company

Summary RPS Position

Forecasted RPS compliance position using
the Planning Load Forecast: Years 2024–2033

Line
No.

REC Requirements												
	Unit	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
2	Load and Allocation											
3	Total Retail Sales at the Meter	GWh	28,253	30,177	31,311	31,869	32,521	32,978	33,367	33,734	34,418	
4	NM Retail Allocation at the Meter	%	41.60%	44.40%	47.10%	48.43%	48.43%	48.43%	48.43%	48.43%	48.43%	
5	NM - Load Forecast	GWh	11,752	13,399	14,748	15,433	15,749	15,970	16,159	16,336	16,481	
6	Less Voluntary Programs (subscribed)	GWh	5.125	5.093	5.093	5.093	5.093	5.093	5.093	5.093	5.093	
7	NM - Adjusted Load Forecast	GWh	11,747	13,394	14,743	15,428	15,744	15,965	16,154	16,331	16,476	
8	RPS Requirement	%	20%	40%	40%	40%	40%	40%	50%	50%	50%	
9	NM - RPS Requirements	GWh	2,349	5,358	5,897	6,171	6,298	6,386	8,077	8,166	8,238	
10	Current Position											
11	REC Acquisitions	Unit	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
12	Hale Wind	GWh	845	900	988	1,016	1,017	1,016	1,015	1,004	1,005	1,002
13	Sagamore Wind	GWh	888	949	1,038	1,067	1,069	1,067	1,065	1,059	1,057	1,052
14	Caprock	GWh	293	-	-	-	-	-	-	-	-	-
15	San Juan	GWh	329	337	-	-	-	-	-	-	-	-
16	Sun Edison 1-5	GWh	101	100	103	103	104	103	103	87	-	-
17	Mesaland	GWh	1	1	1	1	1	1	1	1	1	1
18	Palo Duro	GWh	449	476	505	519	519	519	519	519	519	519
19	Mammoth	GWh	338	353	400	411	412	411	407	395	394	393
20	Bonita II	GWh	259	290	324	333	333	333	332	326	328	326
21	Bonita I	GWh	136	154	172	177	177	177	175	172	173	172
22	Chaves	GWh	70	77	88	91	91	91	90	90	90	89
23	Roswell	GWh	68	75	88	90	91	90	90	90	89	89
24	NM DG	GWh	1	1	1	1	1	1	1	1	1	1
25	Existing REC Acquisitions	GWh	3,778	3,712	3,708	3,809	3,814	3,809	3,796	3,745	3,656	3,644

Southwestern Public Service Company

Summary RPS Position
 Forecasted RPS compliance position using
 the Planning Load Forecast: Years 2024–2033

Line No.	Filing Month	Month	7	7	7	7	7	7	7	7	7	7
30	Opening Banked Position											
31	RECs less than 1 year old	MWh	3,664,713	1,574,171	1,546,730	1,544,884	205,306	(2,278,654)	(4,855,688)	(9,135,979)	(13,556,624)	(18,138,320)
32	RECs less than 2 years old	MWh	1,309,109	4,828,297	3,210,274	1,022,646	-	-	-	-	-	-
33	RECs less than 3 years old	MWh	-	-	-	-	-	-	-	-	-	-
34	RECs less than 4 years old	MWh	-	-	-	-	-	-	-	-	-	-
35	RECs lost this period	MWh	-	-	-	-	-	-	-	-	-	-
36	RECs Generated this Period before Filing Date	MWh	2,203,839	2,165,422	2,162,837	2,221,938	2,224,607	2,221,938	2,214,608	2,184,575	2,132,791	2,125,714
37	RECs Generation this Period after Filing Date	MWh	1,574,171	1,546,730	1,544,884	1,587,098	1,589,005	1,587,098	1,581,863	1,560,410	1,523,422	1,518,367
38	RECs Available During this Period											
39	RECs Generated after Filing Date	MWh	1,574,171	1,546,730	1,544,884	1,587,098	1,589,005	1,587,098	1,581,863	1,560,410	1,523,422	1,518,367
40	RECs less than 1 year old	MWh	5,868,552	3,739,593	3,709,567	3,766,821	2,429,913	(56,716)	(2,641,081)	(6,951,405)	(11,423,832)	(16,012,606)
41	RECs less than 2 years old	MWh	1,309,109	4,828,297	3,210,274	1,022,646	-	-	-	-	-	-
42	RECs less than 3 years old	MWh	-	-	-	-	-	-	-	-	-	-
43	RECs less than 4 years old	MWh	-	-	-	-	-	-	-	-	-	-
44	RECs to be Retired this Period	MWh	2,349,364	5,357,615	5,897,196	6,171,259	6,297,572	6,386,071	8,076,762	8,165,630	8,237,910	8,331,099
45	Closing Banked Position											
46	RECs Generated after Filing Date	MWh	1,574,171	1,546,730	1,544,884	205,306	(2,278,654)	(4,855,688)	(9,135,979)	(13,556,624)	(18,138,320)	(22,825,338)
47	RECs less than 1 year old	MWh	4,828,297	3,210,274	1,022,646	-	-	-	-	-	-	-
48	RECs less than 2 years old	MWh	-	-	-	-	-	-	-	-	-	-
49	RECs less than 3 years old	MWh	-	-	-	-	-	-	-	-	-	-
50	RECs less than 4 years old	MWh	-	-	-	-	-	-	-	-	-	-
51	Final Position	RECs	6,402,467	4,757,005	2,567,529	205,306	(2,278,654)	(4,855,688)	(9,135,979)	(13,556,624)	(18,138,320)	(22,825,338)

Workpapers

**Attachment CJW-4 is provided in
native format**

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