

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

IN THE MATTER OF SOUTHWESTERN )  
PUBLIC SERVICE COMPANY'S )  
APPLICATION REQUESTING: (1) )  
ACKNOWLEDGEMENT OF ITS FILING )  
OF THE 2018 ANNUAL RENEWABLE )  
ENERGY PORTFOLIO REPORT; (2) )  
APPROVAL OF ITS ANNUAL )  
RENEWABLE ENERGY PORTFOLIO ) CASE NO. 19-00134-UT  
PROCUREMENT PLAN FOR PLAN YEAR )  
2020; (3) APPROVAL OF THE PROPOSED )  
RATE FOR ITS 2020 RENEWABLE )  
PORTFOLIO STANDARD RIDER; AND )  
(4) OTHER ASSOCIATED RELIEF, )  
)  
)  
)  
)  
SOUTHWESTERN PUBLIC SERVICE )  
COMPANY, )  
)  
)  
APPLICANT. )  
\_\_\_\_\_ )

DIRECT TESTIMONY

*of*

BEN R. ELSEY

*on behalf of*

SOUTHWESTERN PUBLIC SERVICE COMPANY

November 1, 2019

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## **GLOSSARY OF ACRONYMS AND DEFINED TERMS**

<b><u>Acronym/Defined Term</u></b>	<b><u>Meaning</u></b>
2018 IRP	SPS's 2018 Annual Renewable Energy Portfolio Report
Commission	New Mexico Public Regulation Commission
ETA	Energy Transition Act
IRP	Integrated Resource Plan
MWh	megawatt-hour
Next Plan Year	SPS's filing for Plan Year 2021
Plan Year	SPS's Filing for Plan Year 2020
PPA	Purchased Power Agreement
REC	Renewable Energy Certificate
RPS	Renewable Portfolio Standard
Rule 572	Renewable Energy Rule (17.9.572 NMAC)
SPP	Southwest Power Pool Inc.
SPS	Southwestern Public Service Company, a New Mexico corporation
Xcel Energy	Xcel Energy Inc.
XES	Xcel Energy Services Inc.

## LIST OF ATTACHMENTS

<u>Attachment</u>	<u>Description</u>
BRE-1	Forecasted RPS Position

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Direct Testimony  
of  
Ben R. Elsey

1                   **I. WITNESS IDENTIFICATION AND QUALIFICATIONS**

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

3   A.     My name is Ben R. Elsey. My business address is 1800 Larimer, Denver,  
4           Colorado 80202.

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

6   A.     I am filing testimony on behalf of Southwestern Public Service Company, a New  
7           Mexico corporation (“SPS”) 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 Services Inc. (“XES”) as Analyst II, Resource  
11           Planning.

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

13  A.     I am responsible for working with other analysts and planners in the development  
14           of strategic resource plans for SPS including: need assessment, planning,  
15           solicitation and negotiation of long-term purchased power agreements (“PPA”),  
16           and financial analysis of various resource and purchase/sales options.

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1   **Q.   Please describe your educational background.**

2   A.   I graduated from Plymouth College of Further Education in Great Britain with a  
3       Higher National Certificate in Building Studies in 2004. Since relocating to the  
4       United States, I have graduated from Amarillo College with an Associate's  
5       Degree in Business Administration in 2017 and am currently pursuing a  
6       Bachelor's Degree in Accounting from Colorado State University.

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

8   A.   I began employment with Xcel Energy in June 2012 as a Project Control  
9       Specialist in the Engineering and Construction department within Energy Supply.  
10      In 2015, I moved into the role of Construction Estimator within the same  
11      department. In each of these roles, my responsibilities included producing cost  
12      assumptions and estimates to be used in modeling and completing financial  
13      analysis and cost forecasting of capital projects. In 2017, I entered into my  
14      current position as Analyst II, Resource Planning. Prior to joining Xcel Energy, I  
15      worked for various construction companies in Great Britain and the United States  
16      as an estimator, quantity surveyor, and contracts manager.

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- 1   **Q.    Have you testified or filed testimony before any regulatory authorities?**
- 2   A.    Yes. I filed testimony with the New Mexico Public Regulation Commission
- 3        (“Commission”) in SPS’s 2018 RPS filing, Case No. 18-00201-UT.

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1                   **II. PURPOSE AND SUMMARY OF TESTIMONY**

2   **Q.    What is the purpose of your testimony in this proceeding?**

3    A.    My testimony will support SPS's conclusion that it has sufficient resources  
4           (including banked renewable energy certificates ("RECs")) to comply with its  
5           2020 Plan Year and 2021 Next Plan Year Renewable Portfolio Standard ("RPS")  
6           requirements. As part of my testimony, I will:

- 7           • provide an overview of the Resource Planning process;
- 8           • explain external challenges facing Resource Planning when acquiring new  
9           renewable generation;
- 10          • explain how Resource Planning addresses those external challenges;
- 11          • present SPS's RPS requirements in the plan year and next plan year; and
- 12          • demonstrate that the portfolio procurement plan is consistent with the  
13          integrated resource plan ("IRP") and explain any material differences.

14   **Q.    Do you sponsor or co-sponsor any sections of the 2020 RPS Plan presented**  
15           **by SPS witness Ruth M. Sakya?**

16    A.    Yes. I co-sponsor Sections II(A), II(B), and II(E) of the 2020 RPS Plan which is  
17           provided as Attachment RMS-3 to the Direct Testimony of Ms. Sakya.



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- 1   **Q.**    **Was Attachment BRE-1 prepared by you or under your direct supervision**  
2           **and control?**  
3   **A.**    **Yes.**

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1 **III. SPS'S RESOURCE PLANNING PROCESS AND EVALUATION METHODS**

2 **Q. Please generally describe SPS's resource planning process.**

3 A. In its simplest form, electric resource planning is the process of using forecasts of  
4 customer electric demand and energy to determine the appropriate sources of  
5 electric supply that should be developed to meet those customer requirements in a  
6 cost-effective and reliable fashion. In conducting resource planning, SPS  
7 compares its existing firm generating resources, including owned generating  
8 capacity and firm purchased power, to its projected annual peak firm load  
9 obligation over the planning period. Required reserve margins are included to  
10 determine SPS's capacity position.

11 **Q. Please describe the reserve margin requirement.**

12 A. To provide reliable service, all electric utilities must have more capacity available  
13 than the projected peak load to allow for system contingencies, including  
14 generating unit or transmission outages, and potential increases in actual load.  
15 The available capacity in excess of the projected peak load is referred to as the  
16 "reserve margin". Reserve margin requirements are frequently specified by the  
17 group of interconnected utilities to which the utility belongs. SPS is a member of

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1 the Southwest Power Pool (“SPP”), which currently requires each member to  
2 have a planning reserve margin of 12.0% of its peak demand forecast.

3 **Q. What process does SPS use to assess its electric resource needs to serve**  
4 **customer load?**

5 A. SPS’s assessment of electric resource need includes determining both the  
6 magnitude of need as well as the type of resources needed (i.e., peaking,  
7 intermediate, or baseload). Additionally, resource need assessment must,  
8 depending on the jurisdiction, be conducted in accordance with regulatory  
9 requirements specifying resource assessment processes and resource specific  
10 acquisitions (e.g., requirements for integrated resource planning and amounts of  
11 renewable resources in a supply portfolio).

12 The type of resource that the SPS electric supply system needs is  
13 determined through an evaluation of how different resource technologies integrate  
14 with SPS’s existing electric supply to serve the overall system capacity and  
15 energy needs in a least-cost manner. Typical solutions for meeting resource needs  
16 consist of the following: enhancing current resources, demand management,  
17 building new resources, and conducting competitive bid solicitations for new  
18 long-term or short-term energy and capacity. The ultimate decision is made on

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1 economic value of the alternatives, the risks inherent in each alternative, the  
2 ability to get the generation installed in a timely manner, and other factors  
3 affecting a project's value to SPS and its customers.

4 **Q. Do the updated requirements of the RPS change SPS's planning process?**

5 A. No. SPS already incorporates regulatory requirements, such as the RPS, in its  
6 resource planning processes. However, the increase in renewable generation  
7 requirement will likely restrict the type of resources SPS seeks in its future  
8 acquisition plans.

9 **Q. Do the updated requirements of the RPS change SPS's evaluation process?**

10 A. No, SPS's process does not change, but the new RPS requirements must be  
11 considered in that process. Again, SPS already incorporates regulatory  
12 requirements when evaluating resource decisions. However, the updated RPS  
13 requirements will likely increase the amount of renewable generation SPS is  
14 mandated to procure. Therefore, in many future resource planning evaluations,  
15 the ultimate decision will be made based on complying with the requirements of  
16 the RPS and not necessarily the traditional "least-cost, least-risk" option.

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1 **IV. RESOURCE ACQUISITIONS PURSUANT TO THE ENERGY TRANSITION**

2 **ACT (“ETA”)**

3 **Q. In the previous section you state that the updated requirements of the RPS**  
4 **will likely increase the amount of renewable generation SPS is mandated to**  
5 **acquire. Please elaborate.**

6 A. The amendments to the RPS require SPS to include renewable energy in its  
7 portfolio as demonstrated by retirement of RECs; provided that the associated  
8 renewable energy is delivered to SPS and assigned to its New Mexico customers  
9 in amounts equivalent to 20% of retail sales to New Mexico customers by 2020,  
10 40% by 2025, 50% by 2030, and 80% by 2040.

11 **Q. What is SPS’s estimated compliance position based on existing resources in**  
12 **the portfolio and projected load?**

13 A. Based on current high-level projections, SPS will be able to comply with the 20%  
14 requirement through 2024, once the Sagamore Wind facility is commercially  
15 operational, which is expected to be in December 2020. Attachment BRE-1  
16 provides SPS’s annual projected RPS requirement, generation and retirement of  
17 RECs and SPS’s compliance position for the years 2020 – 2025.

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1   **Q.   How will SPS meet the increased RPS requirements?**

2   A.   As Ms. Sakya mentions in her direct testimony, SPS is not proposing additional  
3       resource acquisitions at this time. However, in order to meet future obligations,  
4       SPS will consider options for meeting the increased requirements. These options  
5       may include: (1) acquiring additional RECs associated with existing long-term  
6       renewable purchase power agreements (e.g., Roswell and Chaves solar PPAs and  
7       Roosevelt Wind PPA); (2) purchasing the Texas and/or wholesale share energy  
8       and REC allocations of existing renewable resources (e.g., the Sagamore and/or  
9       Hale wind facilities; Roswell and Chaves solar PPAs); and (3) acquiring new  
10      renewable generation to meet the 40% requirement by 2025. The longer-term  
11      RPS compliance plan will almost certainly involve acquiring new renewable  
12      generation.

13   **Q.   Based on recent history, how long has it typically taken SPS to acquire new**  
14      **renewable generation resources?**

15   A.   In the past, SPS has been able to acquire commercially-operational renewable  
16      generation in as little as 18 months from the date the need was identified.

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1   **Q.   Is this historical timeframe a realistic proxy for future renewable**  
2       **acquisitions?**

3   A.   I do not believe so. Generally speaking, I recommend SPS begin planning for a  
4       new resource three to four years before commercial operation. While this  
5       timeframe is relatively conservative when compared to previous renewable  
6       acquisitions, it is a reasonable amount of time to begin planning when there is not  
7       a need for an expedited acquisition, for example, expiring tax credits.

8   **Q.   Are there any reasons SPS may require additional time to acquire new**  
9       **resources?**

10   Yes. As I described earlier in my testimony, SPS is a member of the SPP. It is  
11   the responsibility of the SPP to manage and study any requests for interconnecting  
12   new generation. In recent years, the SPP interconnection process has been  
13   overwhelmed by numerous requests which have created a backlog in processing  
14   applications with final results not known for 18 to 24 months. While the SPP  
15   implemented changes aimed at resolving the current delays, SPS does not believe  
16   immediate relief is forthcoming and SPS anticipates the approval of new requests  
17   will continue to take an extended period of time.

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1   **Q.   Are there any other schedule problems, or impacts to substantive project**  
2   **viability, caused by the SPP generator interconnection backlog?**

3   A.   Yes. The sheer volume of requests contained in each interconnection study has  
4       often resulted in extremely high transmission upgrade costs being assigned to the  
5       proposed projects. Unfortunately, the network upgrade costs can often make or  
6       break the economic value of a project. This increases the likelihood that  
7       developers will withdraw their projects once the final costs are apparent which  
8       triggers yet another round of analyses to be performed by the SPP. This creates  
9       more uncertainty throughout the process, and means that there could be numerous  
10      projects in development that might not ultimately be viable.

11   **Q.   Aside from the backlogged generator interconnection queue, are there any**  
12   **other reasons that may prolong the acquisition of new resources?**

13   A.   Yes. The ETA requires the utility to demonstrate that new proposed  
14       procurements were the result of a competitive procurement process that included  
15       opportunities for bidders to propose purchased power, facility self-build, or  
16       facility build-transfer projects. It is possible that this new requirement will  
17       increase the time period for issuing and evaluating a request for proposal.



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1   **Q.   Based on your answers to the previous questions, how long would you**  
2       **recommend planning for a new resource?**

3   A.   Once the current issues are factored in, to be conservative I recommend SPS  
4       begin planning for a new resource approximately four to five years before  
5       commercial operation. Again, planning for this timeframe would not restrict SPS  
6       seeking an expedited response if it were deemed necessary or beneficial.

7   **Q.   Do the requirements of the existing RPS Rule support your recommended**  
8       **schedule?**

9   A.   No. The RPS Rule only requires that SPS seek approval for the Plan Year (SPS's  
10      filing for Plan Year 2020). The Next Plan Year (SPS's filing for Plan Year 2021)  
11      data is provided for informational purposes only. This relatively short-term  
12      planning horizon is not reflective of the long-term nature of resource planning.

**V. CALCULATION OF RPS REQUIREMENT FOR THE PLAN YEAR AND NEXT PLAN YEAR**

4 A. The Renewable Energy Act and Renewable Energy Rule (17.9.572 NMAC)  
5 (“Rule 572”) require SPS to supply no less than 20% of SPS’s New Mexico retail  
6 energy sales by renewable energy during the Plan Year and Next Plan Year. *See*  
7 Rule 572.10(B)(3) and NMSA § 62-16-4 (A)(2).<sup>1</sup> Based on SPS’s projected Plan  
8 Year and Next Plan Year total retail sales, SPS’s overall RPS requirement for the  
9 Plan Year and Next Plan Year are 1,880,714 megawatt hour (“MWh”) and  
10 2,179,540 MWh, respectively.

13 A. As part of its normal course of business, SPS projects monthly energy (kWh)  
14 sales on an annual basis. XES's Forecasting Department provides total billed  
15 retail sales, by month, for each New Mexico retail rate class. SPS's sales forecast  
16 is developed using industry standard multiple regression modeling techniques and

14

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1 includes appropriate adjustments to account for energy efficiency and load  
2 management programs, new load growth, and customers switching between rate  
3 classes.

4 **Q. Do the projected Plan Year and Next Plan Year retail energy sales assume**  
5 **normal weather conditions?**

6 A. Yes. Normal daily weather conditions were based on the average of the last 30  
7 years of historical heating-degree days and cooling-degree days.

8 **Q. What are SPS's projected Plan Year and Next Plan Year overall New Mexico**  
9 **retail energy sales?**

10 A. SPS's Plan Year and Next Plan Year New Mexico retail sales, for all customer  
11 classes, are projected to be 9,407,694 MWh and 10,901,410 MWh, respectively.  
12 Please refer to Attachment RMS-3, (Appendix A, pages 1-2, line 1) to the direct  
13 testimony of Ms. Sakya.

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1                   **VI.   2018 INTERGRATED RESOURCE PLAN**

2   **Q.   Is the current RPS filing reflected in SPS's 2018 Annual Renewable Energy**  
3       **Portfolio Report ("2018 IRP")?**

4   A.   No. The updated requirements of the RPS set by the ETA came into effect after  
5       SPS's 2018 IRP received Commission acceptance; therefore, the updated RPS  
6       requirements are not reflected in that filing.

7   **Q.   Would the updated requirements of the RPS change the action plan**  
8       **previously filed in the 2018 IRP?**

9   A.   As shown in Attachment BRE-1, SPS has sufficient resources, including banked  
10       RECs, to comply with the 2020 and 2021 RPS requirements. Therefore, the  
11       updated RPS requirements will not change the action plan for Plan Year 2020 or  
12       Next Plan Year 2021. However, looking beyond those plan years, SPS's next IRP  
13       filing will need to address the increased RPS requirements passed by the ETA.  
14       Public meetings for SPS's next IRP will begin during the summer of 2020.

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1   **Q.    Is the IRP four year action plan reflective of the procurement timeline you**  
2       **describe above?**

3    A.    Yes.  The 2018 IRP was filed on July 16, 2018 and included an action plan  
4       through end of year 2022.  This 4-year planning horizon is more reflective of the  
5       resource acquisition period I describe in Section IV.

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

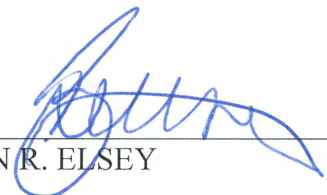
7    A.    Yes.

**VERIFICATION**

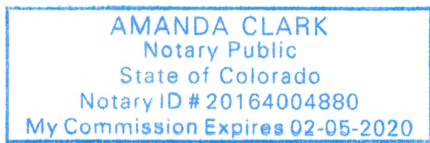
STATE OF COLORADO    )  
  ) ss.  
COUNTY OF DENVER    )

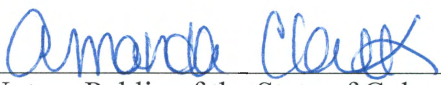
BEN R. ELSEY, first being sworn on his oath, states:

I am the witness identified in the preceding direct testimony. I have read the direct testimony and the accompanying attachment(s) and am familiar with their contents. Based upon my personal knowledge, the facts stated in the testimony are true. In addition, in my judgment and based upon my professional experience, the opinions and conclusions stated in the testimony are true, valid, and accurate.

  
\_\_\_\_\_  
BEN R. ELSEY

SUBSCRIBED AND SWORN TO before me this 23 day of October, 2019 by BEN R. ELSEY.



  
\_\_\_\_\_  
Notary Public of the State of Colorado  
My Commission Expires: 2/5/20

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2019 - RPS Filing

[illegible]

**Line No.**



Southwestern Public Service Company  
RPS Position

Line No.	Existing Agreements + Work in Progress	GWh	1,691	2,728	2,809	2,877	2,899	2,633
26		GWh	(191)	548	441	352	330	(2,542)
27		%	17.97%	25.02%	23.73%	22.78%	22.57%	20.35%
28								
Filing Month	Month	7	7	7	7	7	7	7
29								
30	<b>Opening Banked Position</b>							
31	RECs less than 1 year old	MWh	588,632	704,520	1,136,703	1,170,448	1,198,724	1,208,087
32	RECs less than 2 years old	MWh	596,275	547,212	662,595	1,069,939	1,393,244	1,714,157
33	RECs less than 3 years old	MWh	257,530	-	-	-	-	-
34	RECs less than 4 years old	MWh	-	-	-	-	-	-
35	RECs lost this period	MWh	-	-	-	-	-	-
36	<b>RECs Generated this Period before Filing Date</b>	MWh	986,328	1,591,384	1,638,628	1,678,213	1,691,322	1,535,720
37	<b>RECs Generation this Period after Filing Date</b>	MWh	704,520	1,136,703	1,170,448	1,198,724	1,208,087	1,096,943
38	<b>RECs Available During this Period</b>							
39	RECs Generated after Filing Date	MWh	704,520	1,136,703	1,170,448	1,198,724	1,208,087	1,096,943
40	RECs less than 1 year old	MWh	1,574,960	2,295,904	2,775,330	2,848,662	2,890,045	2,743,807
41	RECs less than 2 years old	MWh	596,275	547,212	662,595	1,069,939	1,393,244	1,714,157
42	RECs less than 3 years old	MWh	257,530	-	-	-	-	-
43	RECs less than 4 years old	MWh	-	-	-	-	-	-
44	<b>RECs to be Retired this Period</b>	MWh	1,881,553	2,180,521	2,367,987	2,525,356	2,569,132	5,174,769
45	<b>Closing Banked Position</b>							
46	RECs Generated after Filing Date	MWh	704,520	1,136,703	1,170,448	1,198,724	1,208,087	380,139
47	RECs less than 1 year old	MWh	547,212	662,595	1,069,939	1,393,244	1,714,157	-
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	<b>Final Position</b>	RECs	1,251,732	1,799,298	2,240,387	2,591,968	2,922,244	380,139