

Integrated System Plan Summer Stakeholder Series Summary

SUMMER 2021

Summary Compiled by Kearns & West

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Context & Background

The purpose of this summary is to provide a high-level overview of topics and feedback from the Salt River Project Agricultural Improvement and Power District (SRP) Integrated System Plan Summer Stakeholder Series. The summary begins by providing context for the Summer Stakeholder Series followed by descriptions of each of the four meetings in the series and a discussion of major themes. It concludes by describing next steps for stakeholder engagement. Attendee lists from each meeting can be found in the appendix.

SRP is responding to transformations in the electric power industry brought on by changing customer expectations and desires, technological innovations and a focus on the environment. SRP is a community-based, not-for-profit public power utility and the largest provider of electricity in the greater Phoenix metropolitan area, serving more than 1 million customers. SRP is also the metropolitan area's largest supplier of water, delivering about 750,000 acre-feet annually to municipal, urban and agricultural water users. For over a century SRP has met the needs of its customers through innovation, planning and a focus on doing what's right for the region.

Within this context, and with specific focus on achieving its 2035 Corporate and Sustainability Goals, SRP is transitioning from a traditional Integrated Resource Plan to a more holistic and comprehensive Integrated System Plan. Evolving considerations in planning include increasing integration of low-carbon and variable resources in transmission systems, growing customer demand, increasing electrification and enhancement of distribution for a changing grid. Because an Integrated System Plan integrates planning for generation, transmission, distribution and customer programs in a data-driven process it will allow SRP to adapt to the changes in the industry while maintaining reliability and affordability for its customers and achieving its 2035 Corporate and Sustainability Goals.

SRP's 2017-18 Integrated Resource Plan process considered different energy resources, scenarios and business environments to determine strategic directions for SRP to plan for reliability, affordability and sustainability. Stakeholder engagement from a broad range of interests, including customers, schools and universities, consumer and environmental advocacy groups, energy developers, governmental organizations and other organizations informed development of the Integrated Resource Plan. The objective was to develop a flexible resource plan for the future.

Similar to the Integrated Resource Plan, development of the Integrated System Plan will have a robust stakeholder engagement process, and SRP has organized this engagement into a series of stages. The initial stage of engagement – *Align* – was the Summer Stakeholder Series, the purpose of which was to update, educate and engage stakeholders about the transition from the Integrated Resource Plan to the Integrated System Plan. See Appendix A for a list of invited stakeholders. Subsequent stages will occur in Fall 2021 (*Prepare*) and in 2022 (*Analyze* and *Synthesize*).

Summer Stakeholder Series Overview

Each meeting in the Summer Stakeholder Series had a specific focus for engagement (see Diagram 1) and was conducted virtually. Meeting #1, held on June 16, 2021, focused on updating stakeholders and introducing the Integrated System Plan. Meeting #2, on July 22, 2021, focused on educating stakeholders about near-term planning considerations and collecting perspectives. Meeting #3, on August 16, 2021, focused on engaging stakeholders in early development of the Integrated System Plan.

Initially planned as a three-meeting series, a fourth meeting was added to allow for expanded coverage of topics related to near-term planning and was held on August 23, 2021. The meeting agendas and presentations are available on SRP's Integrated System Plan: Summer Series <u>website</u>.

Diagram 1: Integrated System Plan Summer Series Overview



Meeting #1: Since We Last Met

The first meeting of the Summer Stakeholder Series was held on June 16, 2021, and focused on providing updates to the 2017-2018 Integrated Resource Plan, which had established biennial progress reporting periods within the five-year planning cycle, and introducing SRP's shift to the more comprehensive Integrated System Plan. The two meeting objectives were to update stakeholders on actions related to the Strategic Resource Directions from the 2017-18 Integrated Resource Plan and educate about the transition to the Integrated System Plan. Attendance included 75 stakeholders from 60 organizations. The meeting included presentations, Q&A with SRP subject matter experts and polling exercises.

Angie Bond-Simpson, Director of Integrated System Planning & Support, provided a refresher on the Integrated Resource Plan including SRP's current resources, prior stakeholder engagement and the Strategic Resource Directions. After a polling exercise, SRP subject matter experts presented updates for the eight Strategic Resource Directions (see Diagram 2). Each update included a summary of feedback from stakeholders in 2019, progress to date and near-term actions. SRP subject matter experts then presented on transmission and distribution planning, load growth and next steps in system planning.

Diagram 2: Integrated Resource Plan Strategic Resource Directions



Grow renewables



Seek battery alternatives



Reduce coal



Develop flexible natural gas



Preserve option for new nuclear



Expand participation in regional transmission markets



Develop and promote customer programs



Focus research on new technologies for generation, load management, storage and electrification

Stakeholders had opportunities throughout the meeting to participate in polling exercises and pose questions using the chat function of the virtual platform. Examples of topics raised by stakeholders included research and development for long-term energy storage, outages due to natural disasters and planning for resiliency, and the effect of temperature trends in the western United States on resource retirement plans. When asked "Given the Strategic Directions, on a scale of one to five, how satisfied are you with SRP's overall progress?" 44 stakeholders responded to the poll with a mean of 4.4 on a 5.0 scale, indicating they were mostly to strongly satisfied.

After Meeting #1, 23 of the attendees responded to a request for feedback. In addition to indicating satisfaction with Meeting #1 (4.75 on a 5.0 scale), some stakeholders requested expanded discussion of topics and additional context for the Integrated Resource Plan to Integrated System Plan transition with more opportunities for Q&A. This feedback was used in planning subsequent meetings in the Summer Stakeholder Series.

Meeting #2: Near-Term Planning

Meeting #2 of the Summer Stakeholder Series was held on July 22, 2021, and focused on near-term planning. The objectives were to educate stakeholders about SRP's mission considerations for near-term growth in the 2021-2024 timeframe, provide opportunities for Q&A related to near-term planning efforts, collect perspectives to ensure important considerations were not missed and inform SRP's stakeholder engagement program for the longer-term Integrated System Plan. Attendance included 56 stakeholders representing 47 organizations. The meeting included a presentation, Q&A with SRP subject matter experts, a polling exercise, discussion in breakout groups and reporting out from those discussions.

Bond-Simpson presented on the rapid economic and population growth in Maricopa County and the increased demand for power. She described how SRP was planning for its mission considerations of sustainability, reliability and affordability though an all-of-the-above or "AND" approach to adding resources to meet near-term growth needs. She explained how SRP plans for extremes, not just average conditions, and how the shift to the Integrated System Plan will enable SRP to plan for the system more holistically.

Bond-Simpson provided more detail about using multiple pathways for near-term resources, noting the need for firm resources to provide reliability for intermittent resources given summer peaking and continued load growth. She explained that SRP is doubling solar capacity, expanding customer programs, adding firm resources such as quick start natural gas to meet peak demand and building more storage. She added that SRP remains committed to sustainability by meeting its carbon targets through 2050 as it optimizes cost and maintains reliability.

Subject matter experts from SRP responded to stakeholder questions and comments about projected load growth and reserve margins, the effects of drought and extreme weather events, climate change, customer programs, regional coordination and consideration of other low-carbon resources. Some stakeholders questioned the addition of natural gas resources and the viability of low-carbon, intermittent resources like wind and solar, with a few mentioning firm sources such as nuclear power from Palo Verde and programs for carbon offsets.

Stakeholders participated in a polling exercise, selecting two answers in response to the question "From your perspective, what are the most important considerations for SRP's near-term planning efforts?" As shown in Diagram 3, polling indicated that attendees viewed reliability, climate change and sustainability commitments as the three most important considerations.

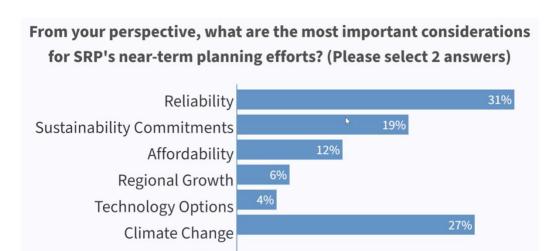


Diagram 3: Polling Results

Facilitated breakout rooms provided stakeholders an opportunity for deeper discussion, with facilitators subsequently reporting out on major themes to the whole group. Themes included the interplay of affordability, sustainability and reliability; the paramount importance of reliability; how planning for climate change relates to planning for reliability; SRP's role as an industry leader; the need to use a variety of approaches; and recognition of the challenges posed by rapid growth and economic development.

Other

Meeting #3: Where We Want to Go "Long-Term"

Meeting #3 of the Summer Stakeholder Series was held on August 16, 2021, and focused on early development of the Integrated System Plan. The first objective was to address feedback and answer questions from Meeting #2. The second was to increase SRP's understanding of stakeholders' interests to inform the stakeholder engagement plan for the Integrated System Plan. Attendance included 71 stakeholders representing 58 organizations (see Appendix C for returning and new stakeholders). The meeting included presentations with multiple opportunities for Q&A with SRP subject matter experts.

Bond-Simpson presented the Integrated System Plan Roadmap (see Diagram 4) and described the four stages for opportunities for stakeholder engagement. She explained that the Summer Stakeholder Series represented stage 1 – *Align* – with the *Prepare* stage set for fall 2021, the *Analyze* stage happening at the beginning of 2022 and the *Synthesize* stage occurring in summer 2022. She also introduced the Integrated System Plan Vision with its focus on innovation and creativity, collaboration and achieving the 2035 Corporate and Sustainability Goals. When asked what excited them about the Integrated System Plan Vision, stakeholders shared their perspectives on the strategic location of resources, grid reliability and equity, new technology investments, storage potential, customer greenhouse gas reductions and collaboration with customers. A stakeholder commented on the importance of local grids for resiliency and empowering customers to add storage. During subsequent Q&A, stakeholders posed questions about transportation electrification, growth in SRP's service area, renewable sources, two-way powerflow enablement, energy efficiency and other customer programs.

Diagram 4: Integrated System Plan Roadmap



Additional presentations during Meeting #3 provided information on analytical considerations of the Integrated System Plan, solar hosting and integration of solar resources, battery storage, reliability analyses and planning, and customer and grid enablement with opportunities for Q&A with SRP subject matter experts throughout the meeting. During pauses for Q&A, SRP subject matter experts responded

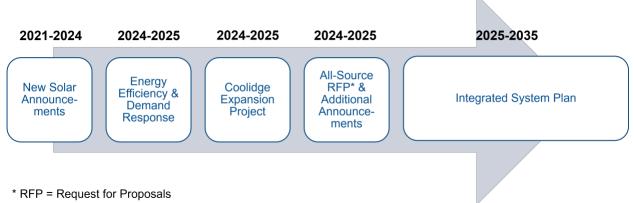
to stakeholder questions and comments on topics including the shift to the Integrated System Plan, load/demand, electric vehicle charging, solar and hydropower resources, modeling and simulations, regional partnerships, customer participation in programs such as demand response, and industrial participation in load management and battery storage. In response to a stakeholder question about how an Integrated System Plan changes the approach to problems, Bond-Simpson explained that an Integrated System Plan broadens the perspective on system stability and allows for taking a more holistic view.

Meeting #4: Near-Term Planning: Part 2

To provide additional engagement opportunities, a fourth meeting was added to the Summer Series to continue discussion of important topics. Meeting #4 of the Summer Stakeholder Series was held on August 23, 2021, and focused on informing stakeholders about the next decisions in SRP's near-term resource plan. The objective of this fourth meeting was to allow more time for Q&A from stakeholders on topics including customer programs, the links between near-term and long-term planning and clarification on transmission constraints. Attendance included 39 stakeholders representing 36 organizations. The meeting included presentations on near-term resource updates and announcements with multiple opportunities for Q&A with SRP subject matter experts.

Grant Smedley, Director of Resource Planning, Acquisition & Development, described how unprecedented growth in SRP's service area is driving near-term needs for added resource capacity, explaining how SRP is planning for sustainability, reliability and affordability though an "AND" approach. He described how SRP would meet needs through summer 2025 leading into the launch of the Integrated System Plan (see Diagram 5). Other SRP subject matter experts gave presentations on customer programs and the Coolidge Expansion Project.

Diagram 5: Addressing Near-Term Needs – AND Strategy



During their presentations and the opportunities for Q&A, the SRP subject matter experts responded to stakeholder questions and comments about integration and reserve capacity of renewables, thermal storage, battery storage duration, addition of wind resources and carbon impacts of the Coolidge Expansion Project. A few stakeholders also commented on affordability concerns with regard to public health during extreme weather and the need for firm resources to back up intermittent sources for reliability.

More specifically on the Coolidge Expansion Project, stakeholders posed questions and made comments on transmission capacity, meeting additional needs with non-carbon generation sources, potential conversion to hydrogen operation, the lifetime and capacity factor of the addition, sources of water to operate the plant, sources of natural gas and the impact of the project on future solar and battery storage additions.

At the close of Meeting #4, Bond-Simpson outlined the next steps for stakeholder engagement and invited participants to reach out to their SRP liaison for one-on-one meetings between August and November 2021 when the next stage of the Integrated System Plan (*Prepare*) will begin.

Overarching Themes

During the Summer Stakeholder Series, recurring themes emerged from comments and questions posed by stakeholders. The topic of reliability was raised at each meeting as participants discussed planning for growth, climate change and extreme weather, and in three out of the four meetings, participants posed specific questions about load growth in SRP's service area. Other topics raised in multiple meetings included the role of renewable sources in SRP's portfolio, especially solar, battery storage and hydropower. Affordability also emerged as a theme with stakeholders. Some participants posed questions about zero-carbon sources with repeated inquiries about how SRP plans to integrate intermittent resources on the grid.

Participants also asked about the reserves needed for operation, potential for regional coordination, the role of customer programs like demand response, and how climate change and drought are affecting SRP's planning. Coupled with these topics were queries about reducing reliance on fossil fuels, with many of these being posed during Meeting #4 where specific plans for the Coolidge Expansion Project were presented.

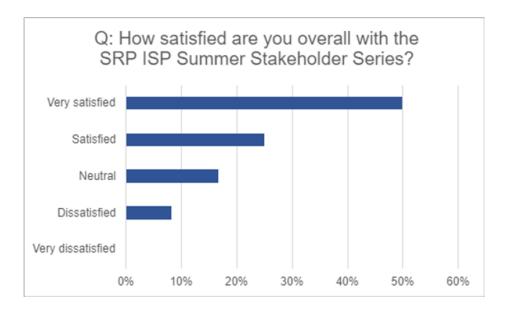
Throughout the Summer Stakeholder Series stakeholders expressed a desire for opportunities to learn more about the technical aspects and context for both the Integrated System Plan and near-term planning.

Post-meeting Survey Feedback

After each meeting in the Summer Stakeholder Series, a post-meeting survey opportunity was sent out to allow for additional feedback from the participants. Here this feedback is synthesized.

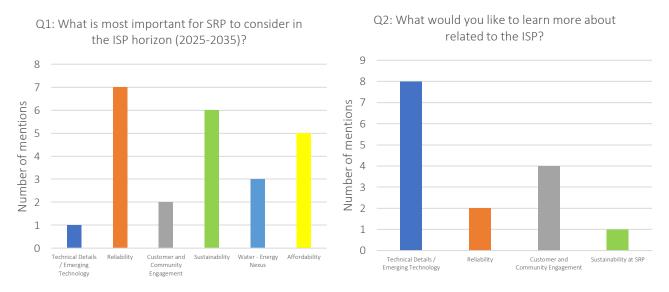
Overall, the feedback suggests that stakeholders appreciated the scope, format and intent of the meetings. After the final meeting of the series, participants were asked how satisfied they were overall with the series (Diagram 6). Seventy-five percent of respondents stated that they were "satisfied" or "very satisfied" with the series overall, and only 8% were "dissatisfied." More specifically, stakeholders appreciated the quality of the presentations and the ability to ask questions. However, some stakeholders indicated areas where the Summer Stakeholder Series could have been improved, including allowing for more engagement and direct input from stakeholders and increasing the perception of transparency in SRP's decision-making process. This feedback will be incorporated into the planning of future Integrated System Plan stakeholder and customer engagement efforts.

Diagram 6: Overall Satisfaction with the Summer Stakeholder Series (post-meeting #4, N=12)



In terms of the topics presented, stakeholders had the opportunity to indicate their area(s) of primary interest in the post-Meeting #3 survey (Diagram 7). Stakeholder planning priorities align with the three pillars of SRP planning in that reliability, sustainability and affordability were the most often mentioned planning aspects. Secondary aspects mentioned include the role of customers in the energy transition, technical details of emerging technologies and the interrelation between energy and water needs both at the societal level and the level of power plant operation. In terms of stakeholder interest for future planning-related topics, technical details of power system operation, emerging technologies, and customer and community roles in the energy system were the most mentioned aspects. Future Integrated System Plan outreach will offer more information on these topics to stakeholders.

Diagram 7: Topics of Interest to Stakeholders (post-Meeting #3, N=13)



Moving Forward

The four meetings of the Summer Stakeholder Series represented the first of four stages in SRP's stakeholder and public engagement for the Integrated System Plan. As the process moves forward, SRP will be consulting with stakeholders to provide input on pathways for the Integrated System Plan analysis; listening to stakeholder preferences on metrics for affordability, sustainability and reliability; and working with stakeholders and customers to collaboratively interpret the results of this industry-leading integrated system analysis.

Stakeholders have been invited to participate in on-on-one phone calls with their Integrated System Plan liaison to discuss Integrated System Plan goals and encouraged to watch for announcements about upcoming engagement opportunities. More information is available on SRP's Integrated System Plan: Summer Series website.

Appendix

Meeting #1 Attendance



Meeting #2 Attendance

ISP Summer Series Stakeholders

1. AARP	27. Arizona State Lands Department	58. Florence	85. Phoenix Chamber of Commerce
2. AEPCO	28. ASU	59. Forest Service U.S. Department of	86. Pinal County
3. AES	Avangrid Renewables (Iberdrola)	Agriculture	87. Queen Creek
Air Products	30. AZ Thrives	60. Fort McDowell Yavapai Nation	88. Roosevelt Water Conservation District
5. Amazon	31. AZ PIRG	61. Freeport McMoRan Copper and Gold	89. Salt River Pima-Maricopa Indian
6. AMPUA	32. AZ Strategies	62. Gamage & Burnham Attorneys at Law	Community
7. AMWUA	33. AZ Sustainability Alliance	63. General Electric	90. Scottsdale
8. Apache County	34. Basha's	64. Gila Bend	91. Scottsdale School District
9. Apache Junction	35. Beatitudes Campus	65. Gilbert	92. Seguro Energy
10. Apex Clean Energy	36. Boeing	66. Glendale	93. Sierra Club
11. Apple Inc	37. Bureau of Land Management	67. Google	Southwest Energy Efficiency Project
12. APS	38. Casa Grande	Greater Phoenix Economic Council	95. Springerville
Arizona Cattle Growers Association	Candela Renewables	Greater Phoenix Leadership	96. SRP Customer Utility Panel (CUP)
Arizona Center for Law in the Public	40. Chandler	70. Greenlots	97. St. Johns
Interest	41. Chicanos Por La Causa	 Home Builders Association of Central 	98. Strata Solar
Arizona Chamber of Commerce	42. City of Mesa	Arizona	Sustainable Energy Power Alliance
16. Arizona Commerce Authority	43. City of Phoenix	72. Intel	100. TEP
17. Arizona Competitive Power Alliance	44. City of Tempe	 Interwest Energy Alliance 	101. The Nature Conservancy
18. Arizona Cotton Growers Association	45. CMC Steel	74. Leeward Energy	102. U of Arizona
19. Arizona Energy Policy Group	46. Coolidge	Local First Arizona	103. United Dairymen of Arizona
20. Arizona Farm Bureau	47. Copper State Consulting Group	Kyl Center for Water Policy	104. Valle Del Sol Strategic Initiatives: The
21. Arizona Hispanic Chamber of	48. Cushman & Wakefield	 Mercy Gilbert Medical Center/Dignity 	Real Arizona Coalition
Commerce	49. Cyrus One	Health	105. Valley Partnership
22. Arizona Lodging and Tourism	50. Digital Realty	78. Mitsubishi Hitachi Power Systems	106. Walmart
Association	51. DMB	Americas, Inc.	107. West Marc
23. Arizona Power Authority	52. East Valley Chamber of Commerce	79. NAU	108. Western Grid Group
24. Arizona Residential Utility Consumer	53. East Valley Partnership	80. Navajo County	109. Western Resource Advocates
Office	54. Environment America	81. New Leaf/ Mesa-CAN	110. WildFire
25. Arizona Solar Deployment Alliance	55. Environmental Defense Fund	82. NextEra Energy Resources	
Arizona Solar Energy Industries	56. EPRI	83. NREL	
Association	57. First Solar	84. Page	

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 Arizona Farm Bureau 46. Coolidge 47. Copper State Consulting Group 103. United Dairymen of Arizona 76. Kyl Center for Water Policy
77. Mercy Gilbert Medical Center/Dignity 104. Valle Del Sol Strategic Initiatives: The Real Arizona Coalition 21. Arizona Hispanic Chamber of 48. Cushman & Wakefield 49. Cyrus One 50. Digital Realty 51. DMB 52. East Valley Chamber of Commerce Commerce
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Meeting #4 Attendance

26. Arizona Solar Energy Industries

Association

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