

Santee Cooper Integrated Resource Plan 2023

Public Stakeholder Meeting #2 – Meeting Summary

Date: April 29, 2022

Time: 8:54 am – 3:18 pm EST

Location: Virtual Meeting via Zoom, Vanry Hosting

Topic: Santee Cooper 2023 IRP – Discussions around IRP Assumption Methodologies

Referenced attachments are posted as separate documents at SanteeCooper.com/IRP. See the heading **Meeting Presentations & Materials / Meeting 2 – April 29, 2022**.

1. Session 2 Presentation
2. Question and Answer (Q&A) Log
3. Recording of Meeting

In this summary:

- Registration and attendee overview
- Agenda, presenters, and topics
- Q&A summary
- Post-Meeting Survey summary
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 - C: Post-Meeting Survey

Registration and attendees

All who registered for Santee Cooper's first meeting were notified by email sent by Vanry Associates on April 4, 2022, that registration for the second meeting was both required to be able to attend and available online. The email provided a registrant with a direct link to the Zoom platform registration page, as well as directed them to IRP information available on the SanteeCooper.com/IRP webpage. Upon registering, registrants received an immediate confirmation email with meeting information, as well as two reminder emails one week and one day, before the session, respectively.

Santee Cooper also used a variety of means to announce the meeting, in advance, to customers and stakeholders including newspaper advertisements, bill inserts and social media. Additionally, Santee Cooper team members reached out directly to contacts alerting them to the meeting and registration.

Registration for the session opened on April 4, 2022.

- 133 registrations were received up to the start of the meeting on April 29, 2022
- 70 individuals, or 53% of those registered, were online for all, or a portion, of the meeting
- 58 of the 70 attendees represented stakeholders external to Santee Cooper with the remainder being either Santee Cooper employees or IRP consultants
- About 74% of those who attended were identified to be affiliated with an organization

A list of meeting attendees is included in Appendix A. The list excludes Santee Cooper employees and IRP consultants.

Agenda, presenters, and topics

The agenda and associated times were included in the presentation available to the stakeholders in advance of the meeting. The facilitators adjusted timing throughout the day to ensure adequate time was allotted to both presentations, questions, and discussion. Break times were adhered to such that the materials were discussed with the stakeholders during the proposed time slots to accommodate those with limited schedule availability and interest in specific topics.

AGENDA

9:00	Welcome	Stewart Ramsay , Vanry Associates
9:10	Opening Remarks	<p>Charlie Duckworth, Deputy CEO & Chief Planning & Innovation Officer, Santee Cooper</p> <p>Charlie underlined the importance of the IRP process, recognized Central Electric Power and municipal customers for their support, and invited stakeholder engagement as the best path to a strong IRP outcome.</p>
9:20	Introductions	<p>Stewart Ramsay, Vanry Associates</p> <p>Stewart outlined the key topic for Meeting 2, to review major assumption methodologies and to hear from stakeholders; the timing of meetings and IRP filing; introduced the day’s presenters, the IRP team, supporting consultants, and registered stakeholders.</p>
9:35	Stakeholder Feedback	<p>Stewart Ramsay, Vanry Associates</p> <p>Stewart provided attendees with an overview of what was learned and resulting adjustments from the post-meeting survey, as well as input and feedback received during the March 1st meeting. He also introduced the new online Stakeholder Input and Feedback Forum.</p>

10:00	Santee Cooper Resource Position	<p>Eileen Wallace, Senior Manager, Resource Planning, Santee Cooper</p> <p>Eileen provided an update on Santee Cooper’s resource planning position, supply, and demand balance, as well as its resource expansion options.</p>
10:20	Portfolio Evaluation Approach	<p>Bob Davis, Executive Consultant, nFront Consulting</p> <p>Bob restated the goals, purpose and expected outcomes of the IRP process overall. He also outlined the portfolio simulation, cost comparison metrics, resource portfolios that will be studied and the net-zero CO2 approach. Lastly, he touched on the Central Coordination agreement and its impact on the 2023 IRP.</p>
11:00	BREAK	
11:15	Update on Load Forecast	<p>Greg McCormack, Senior Manager, Financial Forecast, Santee Cooper</p> <p>John Hutts, Principal, GDS Associates</p> <p>Greg and John provided an update on Santee Cooper’s 2022 forecast schedule and process. They also provided forecast information related to economic data and SAE results, electric vehicles, rooftop solar and sensitivity scenarios related to these.</p>
12:00	LUNCH BREAK	
1:00	Update on DSM Plans	<p>Patricia Housand, Manager, Program Development, Santee Cooper</p> <p>Patricia provided a detailed review of activities underway to update Santee Cooper’s DSM plans, touching on energy efficiency, demand response and beneficial electrification programs.</p>
1:30	Major Assumptions	<p>Bob Davis, Executive Consultant, nFront Consulting</p> <p>Bob reviewed potential data sources, methodologies and preliminary assumptions being considered for Santee Cooper’s 2023 IRP. These included assumptions around financing and economic parameters, fuel and CO2 pricing, and existing and new resource options.</p>
2:15	BREAK	
2:30	Reserve Margin, ELCC, and Solar Integration Studies	<p>Nick Wintermantel, Principal, Astrapé Consulting</p> <p>Nick discussed the three resource adequacy studies that Astrapé is undertaking on behalf of Santee Cooper. He provided a methodology overview for the Planning Reserve Margin (PRM), ELCC and Solar Integration studies.</p>
3:15	Next Steps & close	<p>Stewart Ramsay, Vanry Associates</p>

Q&A Summary

During the April 29th Meeting, stakeholders were able to ask questions in two ways:

1. Using the Zoom **Q&A** tool they could type and send a question at any time during the session and presentations; and
2. Using the **Raised Hand** functionality, they could be invited to speak by the facilitator at the earliest opening

Stakeholders were able to type questions using the Q&A tool throughout the presentations and these were answered almost real-time by subject matter experts using the same tool. Any follow-on comments or questions, as well as answers would show up as a thread connected to the original question. Some of the written questions were flagged and answered live by the respective presenters. Throughout the day, and particularly at the end of each segment, stakeholders were invited to use the Raised Hand functionality and encouraged to address the group live.

Overall, there were 119 originating typed interactions (live asked/answered and written asked/answered), all of which were addressed during the session. Of these, 10 questions included follow-on comments or questions often coming from more than one stakeholder, indicating that the stakeholders were monitoring and interacting with each other's questions. Thirty questions were answered live by presenters.

A transcript of the Q&A log is included as an attachment and available with other April 29th Meeting documents on the SanteeCooper.com/IRP webpage.

Outside of meetings, stakeholders were encouraged to submit input and feedback using a newly developed online forum that Santee Cooper launched on May 10th (see Appendix B for more information). Emails were sent to Meeting 1 and Meeting 2 registrants notifying them the forum was live and ready to use.

Post-Meeting Survey

Attendees were invited to provide immediate feedback specific to Meeting 2 upon leaving the Zoom session, as well as via a link included in a thank you email sent on May 2, 2022. Vanry Associates received 11 responses to the post-meeting survey, representing about 18% of external stakeholders that attended.

Overall response was positive and useful in informing future meetings. In summary:

- 73% gave a strong indication of value for their time spent at the meeting
- 72% reported they felt the level of presentation detail to be appropriate
- While 36% thought the meeting length appropriate, more than half thought it too long
- 82% felt strongly they were able to provide input; and
- 81% saw the meeting as a productive balance of both Santee Cooper IRP planning ideas and stakeholder Q&A

We also heard interest for more information around new and existing generation, energy storage and fuel security planning. Input also included ideas on meeting structure and timing. One respondent indicated less time might be spent on DSM and EE, since, although important, their benefits are primarily a function of how well these programs are operated internally.

Results of the post-meeting survey are included in Appendix C.

Action items

All commitments made by Santee Cooper, or the facilitators are noted in the Q&A log.

Next Steps:

- Act on any commitments noted in the Q&A log
- Finalize the date and agenda for Meeting #3
- Publish the date and open registration for Meeting #3
- Review stakeholder feedback and refine the meeting process as needed

APPENDIX A

List of External Attendees

Represented in alphabetical order by the original name provided. The list excludes Santee Cooper employees and IRP consultants. Organization names in square brackets were not listed at time of registration and are recognized from Meeting #1.

ATTENDEE	ORGANIZATION
Amy Wallace	GE
Andrew Stone	
Anthony Sandonato	SC Office of Regulatory Staff (ORS)
Ben Pfeffer	[J. Kennedy & Associates, Inc.]
Bill Barnes	Encore Renewable Energy
Charles Allen	Black River Electric Cooperative, Inc
Chris Carnevale	Southern Alliance for Clean Energy (SACE)
Craig Higgins	
Dan Poteet	
Dennis Boyd	Nucor
Donald Zimmerman	Alder Energy Systems, LLC
Dwight Jowdy	Ridge Lake HOA
E. Felt	[Duke Energy]
Ed Robidoux	Homeowner
Eddy Moore	Coastal Conservation League
Eliza Mecaj	SC Department of Consumer Affairs
Emma Clancy	
Findlay Salter	SC Office of Regulatory Staff
Forest Bradley Wright	SACE
Frank Epps	Energy Development Partners
Glenn Stephens	Consultant
Hailey Deres	
Hamilton Davis	[Southern Current LLC]
Jae Scott	
James Wharton	
Jeffrey Gordon	ORS
Joe Miller	J Miller Energy Consulting, LLC
John Brooker	Conservation Voters of South Carolina
John Burns	CCEBA
Jonathan Ly	J. Pollock, Inc.
Julius Horvath	Adapture Renewables, Inc.
Justin Somelofske	Sierra Club

ATTENDEE (cont'd)

Karen Hallenbeck
Karl Winkler
Keith Thomson
Lewis Carter
Lillie Johnson
Marilyn Hemingway
Michael Berry
Michael Early
Mikaela Curry
Mike Frazier
Mike Fried
Mike Lavanga
Mike Smith
Nathan Adams
Philip Hayet
R Taylor Speer
Richard Storm
Russell Weeks
Ryan Deyoe
Sandra Bundy
Sandra Yudice, Ph.D.
Scott Connuck
Scott Whittier
Steve Castracane
Swain Whitfield

ORGANIZATION (cont'd)

The Tiencken Law Firm
Nucor Steel Berkeley

Subscriber

Gullah Geechee Chamber of Commerce
Qcells
Century Aluminum

PMPA
A D Group
SMXB
ECSC
Longroad Energy
ORS
Fox Rothschild LLP on behalf of Alder Energy Systems, LLC
Retired
Wartsila North America Inc.
Telos Energy
B&P, Inc.
City of Georgetown, SC
East Point Energy
City of Georgetown
Messer North America
Swain Whitfield Utility Consulting

APPENDIX B

Stakeholder Input and Feedback Forum

The follow information about the new Stakeholder Input & Feedback Forum was shared with stakeholders during the meeting and in an email sent on May 10, 2022, alerting them that the forum was available online at [SanteeCooper.com/IRP](https://www.santeecooper.com/IRP).

Santee Cooper is introducing a new online forum that stakeholders can use to provide input and feedback on the 2023 IRP. Stakeholders can submit comments, offer feedback, post documents, and ask questions. Information submitted to the forum and any responses from Santee Cooper are searchable and can be viewed by all stakeholders at any time. Any questions or feedback received previously, have been preloaded to the forum.

The forum is intended to improve Santee Cooper's ability to receive and publicly respond to stakeholder input and feedback, and to ensure transparency in the development of the IRP.

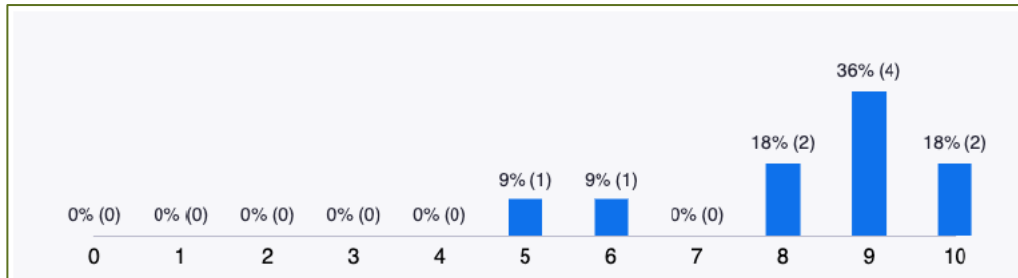
The forum can be accessed under the heading **Stakeholder Input and Feedback Forum** [SanteeCooper.com/IRP](https://www.santeecooper.com/IRP).

Or the forum can be directly accessed from this link: <https://www.santeecooper.com/About/Integrated-Resource-Plan/Feedback/>.

APPENDIX C

Post-Meeting Feedback Survey

1. Overall, how would you rate the value to you of the second Santee Cooper IRP meeting? Was your time spent with us to day worth it?



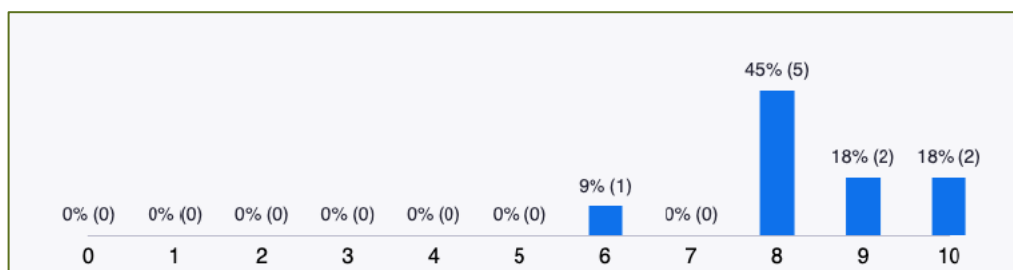
2. How would you rate the presentations for level of detail?

Way too basic	0% (0)
A little too basic	9% (1)
Just right	72% (8)
A bit too technical	0% (0)
Way too technical, complicated	9% (1)

3. How would you rate the meeting length?

Too short given the topics	0% (0)
A bit too short	0% (0)
Just right	36% (4)
A bit too long	45% (5)
Way too long to stay involved	9% (1)

4. How would you rate your ability to provide input to the meeting?



5. Was this meeting a good balance between Santee Cooper IRP planning ideas and stakeholder questions and answers?

Way too much Santee Cooper content	0% (0)
Unbalanced towards Santee Cooper content	9% (1)
A productive balance of both	81% (9)
Unbalanced toward stakeholder content	0% (0)
Way too much stakeholder discussion	0% (0)

6. At the next meeting I would like to see more of...

- Describing procurement plans, retirements, how to implement utility-scale storage. More information on where new generation is most valuable. More info on how you will accurately model additional FTM storage, since it is much harder to study than other resources but very valuable. More forecasting of needs.
- Hard Generation Asset Planning (and potential transmission Plans / Upgrades), so that it will be more clear geographically where Renewables can be added, and How they can be added without harming reliability. Wintermental (last presenter) from Astrape sort of got to this at the end, but that time it was late, and he didn't have much time to go over things that are very important. The slide on all CURRENT Forms / Sources of Generation was great / and Helpful! Need to be clear on any impacts to reliability (presenter mentioned "Flexible violations"....which are not good!).
- Two half day sessions rather than a planned six plus hour meeting. Whether consecutive days or whatever the case may be,
- A wider discussion of the ways in which storage, whether standalone or integrated with solar PV, can benefit the Santee Cooper system, i.e. in supporting transmission and distribution as well as simply eventual load peaks. I'd also like to see a discussion of the place of long-duration storage, including such technologies as compressed and liquid air, in the Santee Cooper system.
- The security of fuels and cost of fuels projected into the future. I feel that too much reliance on renewables will be disastrous. All fuels and a Balanced Portfolio is important, in my experience, to handle fuel cost variances in the long term. I know you do not want news clippings of Europe's experiences, but the costs of renewables have seriously harmed Germany and the UK.
- Community stakeholder input from non-technical individuals. Having this meeting at 9am excludes many stakeholders who may be impacted by the possible natural gas pipeline. Technical activities explained in laymen terms for non-engineers and non-techies can understand the process, production of energy, etc.

7. At the next meeting I would like to see less of...

- DSM and EE. DSM and EE are important and need to be included (but BRIEFLY) as Most external stakeholders have little impact on that. While DSM and EE are important and can benefit Santee Cooper and ratepayers, they are mainly functions of how well Santee Cooper operates these programs internally.
- Discussion of models and fantasies such as models provide to reinforce predetermined outcomes.