COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

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ELECTRONIC 2023 INTEGRATED RESOURCE)	CASE NO.
PLAN OF BIG RIVERS ELECTRIC)	2023-00310
CORPORATION)	

NOTICE OF FILING

Notice is given to all parties that the following materials have been filed into the record of this proceeding:

- The digital video recording of the evidentiary hearing conducted on May 22, 2024 in this proceeding;
- Certification of the accuracy and correctness of the digital video recording;
- All exhibits introduced at the evidentiary hearing conducted on May 22, 2024 in this proceeding;
- A written log listing, inter alia, the date and time of where each witness' testimony begins and ends on the digital video recording of the evidentiary hearing conducted on May 22, 2024.

A copy of this Notice, the certification of the digital video record, and the hearing log have been served upon all persons listed at the end of this Notice. Parties may view the digital video recording of the hearing at https://youtu.be/TthiePWhog.

Parties may request a copy of the annotated digital video recording of the hearing by submitting a written request by electronic mail to pscfilings@ky.gov. A minimal fee will be assessed for a copy of this recording.

Done at Frankfort, Kentucky, this 29th day of August 2024.

Linda C. Bridwell, PE

Executive Director

Public Service Commission of Kentucky

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

2			4.2	_
In	the	M	atter	of

ELECTRONIC 2023 INTEGRATED RESOURCE)	CASE NO.
PLAN OF BIG RIVERS ELECTRIC)	2023-00310
CORPORATION	ì	

CERTIFICATION

- I, Candace H. Sacre, hereby certify that:
- 1. The attached flash drive contains a digital recording of the Formal Hearing conducted in the above-styled proceeding on May 22, 2024. The Formal Hearing Log (portions of hearing log are unavailable due to technical difficulties), Exhibits, and Exhibit List are included with the recording on May 22, 2024;
 - 2. I am responsible for the preparation of the digital recording;
- The digital recording accurately and correctly depicts the Formal Hearing of May 22, 2024, and;
- 4. The Formal Hearing Log attached to this Certificate accurately and correctly states the events that occurred at the Formal Hearing of May 22, 2024, and the time at which each occurred.

Signed this 22 day of luquet, 2024.

Candace H. Sacre

Administrative Specialist III

Stephanie Schweighardt

Kentucky State at Large ID# KYNP 64180 Commission Expires: January 14, 2027



Session Report - Detail

2023-00310 22May2024 A

Big Rivers Electric Corporation (BREC)

Date:	Туре:	Location:	Department:
5/22/2024	Public Hearing\Public Comments	Hearing Room 1	Hearing Room 1 (HR 1)

Witness: Christopher Bradley; Jason Burden; John Christensen; Brittaney Johnson; Talina Mathews; Michael Mizell; Vicky

Payne; Christopher Warren; Terry Wright Jr.

Judge: Kent Chandler; Angie Hatton

Clerk: Candace Sacre

Event Time	Log Event	
9:07:58 AM	Session Started	
9:07:59 AM	DUE TO TECHNICAL DIFFICULTIE	ES, HEARING LOG IS UNAVAILABLE.
9:08:08 AM	Chairman Chandler	
	Note: Sacre, Candace	On the record.
9:08:16 AM	Chairman Chandler	
	Note: Sacre, Candace	Preliminary remarks.
9:08:36 AM	Chairman Chandler	
	Note: Sacre, Candace	Entry of appearance.
9:08:40 AM	Atty Depp BREC	
	Note: Sacre, Candace	Edward Depp, Evan Buckley, and John Lavanga, BREC has Tyson Kamuf and Senthia Santana.
9:08:53 AM	Asst Atty General Cook	
	Note: Sacre, Candace	Lawrence Cook.
9:09:04 AM	Atty Childers Sierra Club	
	Note: Sacre, Candace	Joe Childers, Kate Huddleston, and Nihal Shrinath.
9:09:23 AM	Atty Cohn KIUC	
	Note: Sacre, Candace	Jody Kyler Cohn.
9:09:30 AM	Atty Gary Joint Intervenors	
	Note: Sacre, Candace	Byron Gary, Shannon Fisk, Thomas Cmar, and Mychal Ozaeta.
9:09:41 AM	Staff Atty Colyer PSC	
	Note: Sacre, Candace	Jason Colyer and Ashley Hatcher.
9:09:45 AM	Chairman Chandler	
	Note: Sacre, Candace	Public notice.
9:10:00 AM	Chairman Chandler	
	Note: Sacre, Candace	Outstanding motions.
9:11:43 AM	Chairman Chandler	
	Note: Sacre, Candace	Any other issues need to take up? (Click on link for further comments.)
9:13:02 AM	Chairman Chandler	
	Note: Sacre, Candace	Mr. Depp?
9:13:04 AM	Atty Depp BREC	
	Note: Sacre, Candace	Vicky Payne.
9:13:26 AM	Chairman Chandler	
	Note: Sacre, Candace	Witness is sworn.
9:13:32 AM	Chairman Chandler - witness Payı	ne
	Note: Sacre, Candace	Examination. Name and address?
9:13:43 AM	Atty Depp BREC - witness Payne	
	Note: Sacre, Candace	Direct Examination. Title?
9:13:48 AM	Atty Depp BREC - witness Payne	
	Note: Sacre, Candace	Sponsor data request responses?

9:13:52 AM	Atty Depp BREC - witness Payne	
	•	Updates or amendment?
9:13:54 AM	Atty Depp BREC - witness Payne	
	Note: Sacre, Candace	If asked same requests today, answers remain same?
9:13:59 AM	Atty Depp BREC - witness Payne	
	Note: Sacre, Candace	Adopt as testimony today?
9:14:03 AM	Atty Depp BREC - witness Payne	
	Note: Sacre, Candace	Have any materials on stand?
9:14:08 AM	Chairman Chandler	
	Note: Sacre, Candace	Questions?
9:14:30 AM	Staff Atty Colyer PSC - witness Pay	/ne
	Note: Sacre, Candace	Cross Examination. Are witness today knows most about gas
		purchases?
9:14:46 AM	Staff Atty Colyer PSC - witness Pay	/ne
		Gas purchasing for Green and Reid units?
9:14:56 AM	Staff Atty Colyer PSC - witness Pay	/ne
	Note: Sacre, Candace	Who procures it?
9:15:03 AM	Staff Atty Colyer PSC - witness Pay	/ne
	Note: Sacre, Candace	Other witnesses here involved with gas purchase process?
9:15:29 AM	Staff Atty Colyer PSC - witness Pay	/ne
	Note: Sacre, Candace	For Green and Reid units, gas purchases day ahead purchases for
		longer contracts?
9:15:49 AM	Staff Atty Colyer PSC - witness Pay	
		Involved in modeling process for IRP?
9:15:56 AM	Staff Atty Colyer PSC - witness Pay	
		Know whether model used day ahead pricing?
9:16:11 AM	Staff Atty Colyer PSC - witness Pay	
		Gas transportation for Green and Reid, use firm or interruptible
0.46.05.444		capacity?
9:16:25 AM	Staff Atty Colyer PSC - witness Pay	
	·	Tell me witnesses who know most about plans for building an NGCC
0.16.57 AM	Chairman Chandler	unit?
9:16:57 AM		Redirect?
9:17:00 AM	•	Redilect:
9:17:00 AM	Atty Depp BREC - witness Payne	Dedirect Eveningtian At Dig Divers who would know the most
	•	Redirect Examination. At Big Rivers who would know the most about NGCC?
9:17:23 AM	Chairman Chandler	about NGCC:
3.17.23 AM		Mr. Depp?
9:17:27 AM	Atty Buckley BREC	тт. Берр:
3.17.27 AM	•	Brittaney Johnson.
9:17:38 AM	Chairman Chandler	brittaney Johnson.
9.17.30 AM		Witness is sworn.
9:17:47 AM	Chairman Chandler - witness Johns	
3.17.77 AN		Examination. Name and address?
9:17:56 AM	Atty Buckley BREC - witness Johns	
9.17.30 AM	•	Direct Examination. By whom employed?
9:17:59 AM	Atty Buckley BREC - witness Johns	· · · · · · · · · · · · · · · · · · ·
7.17.J3 AN	•	Title?
9:18:04 AM	Atty Buckley BREC - witness Johns	
J. IU.UT AII	•	Sponsor data request responses?
9:18:08 AM	Atty Buckley BREC - witness Johns	· · · · · · · · · · · · · · · · · · ·
7.10.00 AII		Additions or changes?
	Note: Jacie, Candace	Additions of Changes:

	11 11
9:18:12 AM	Atty Buckley BREC - witness Johnson
	Note: Sacre, Candace If asked questions again, responses be same?
9:18:18 AM	Atty Buckley BREC - witness Johnson
0.40.04.444	Note: Sacre, Candace Adopt responses as testimony?
9:18:24 AM	Chairman Chandler
0.40.26.444	Note: Sacre, Candace Questions?
9:18:36 AM	Staff Atty Colyer PSC - witness Johnson
0 10 12 114	Note: Sacre, Candace Cross Examination. Familiar with PACE program?
9:18:42 AM	Atty Buckley BREC - witness Johnson
0.10.52 444	Note: Sacre, Candace Know which witness know most?
9:18:52 AM	Chairman Chandler - witness Johnson
0.10.10 AM	Note: Sacre, Candace Examination. How long in current position?
9:19:18 AM	Atty Depp BREC
0.10.2F AM	Note: Sacre, Candace Jason Burden. Chairman Chandler
9:19:35 AM	
9:19:40 AM	Note: Sacre, Candace Witness is sworn. Chairman Chandler - witness Burden
9.19.40 AM	Note: Sacre, Candace Examination. Name and address?
9:19:51 AM	Atty Depp BREC - witness Burden
9.19.31 AM	Note: Sacre, Candace Direct Examination. Title?
9:19:56 AM	Atty Depp BREC - witness Burden
3.13.30 / 11	Note: Sacre, Candace Sponsor responses?
9:19:59 AM	Atty Depp BREC - witness Burden
31231337	Note: Sacre, Candace Updates or amendments?
9:20:02 AM	Atty Depp BREC - witness Burden
J.=0.0=7	Note: Sacre, Candace If asked same requests, answers remain same?
9:20:05 AM	Atty Depp BREC - witness Burden
	Note: Sacre, Candace Adopt as testimony?
9:20:08 AM	Atty Depp BREC - witness Burden
	Note: Sacre, Candace Have materials at stand?
9:20:15 AM	Chairman Chandler
	Note: Sacre, Candace Questions?
9:20:44 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Cross Examination. Role in preparation of IRP?
9:21:06 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Any other role?
9:21:14 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace What sort of inputs?
9:21:24 AM	Atty Fisk Joint Intervenors - witness Burden
0.04.00.444	Note: Sacre, Candace Any other?
9:21:32 AM	Atty Fisk Joint Intervenors - witness Burden
0.21.20 AM	Note: Sacre, Candace Reviewed comments?
9:21:39 AM	Atty Fisk Joint Intervenors - witness Burden
0.21.4E AM	Note: Sacre, Candace Specifically ones provided by joint intervenors?
9:21:45 AM	Atty Fisk Joint Intervenors - witness Burden Note: Sacre, Candace Have any role in preparation of response to intervenor comments?
9:21:50 AM	Note: Sacre, Candace Have any role in preparation of response to intervenor comments? Atty Fisk Joint Intervenors - witness Burden
J.21.30 AM	Note: Sacre, Candace Seen the response?
9:22:00 AM	Atty Fisk Joint Intervenors - witness Burden
3.22.00 / 11	Note: Sacre, Candace Have adopted Berry responses regarding IRP issued 2022?
9:22:11 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Have role in preparation of RFP?
9:22:21 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Know who here today have role in that preparation?
	,

9:22:31 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Mike Poland somebody internal to BREC?
9:22:47 AM	Atty Fisk Joint Intervenors - witness Burden
0.22.40.414	Note: Sacre, Candace Role in evaluating responses to RFP?
9:23:10 AM	Atty Fisk Joint Intervenors - witness Burden
0.22.20.444	Note: Sacre, Candace Adopted response to JI Request 1-9?
9:23:38 AM	Atty Fisk Joint Intervenors - witness Burden
0.25.22 AM	Note: Sacre, Candace Have document including supplemental response?
9:25:32 AM	Atty Fisk Joint Intervenors - witness Burden
0.25.41 AM	Note: Sacre, Candace Have that document now?
9:25:41 AM	Atty Fisk Joint Intervenors - witness Burden Note: Sacre, Candace Adopt entire response?
9:25:49 AM	Note: Sacre, Candace Adopt entire response? Atty Fisk Joint Intervenors - witness Burden
9.23.49 AM	Note: Sacre, Candace Only adopted which portions?
9:26:06 AM	Atty Fisk Joint Intervenors - witness Burden
3.20.00 AM	Note: Sacre, Candace Christensen remains respondent for C and B?
9:26:20 AM	Atty Fisk Joint Intervenors - witness Burden
7.20.20 AM	Note: Sacre, Candace Subpart B, explanation why BREC issued IRP, say facilitate entry into
	MISO interconnection queue for 2022?
9:26:38 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Why looking enter into MISO queue in 2022?
9:27:25 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace The NGCC plant that entered into queue in 2022?
9:27:34 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Is 635 MW gas plant propose build at Sebree?
9:27:44 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Some other size figure should use?
9:28:06 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Built as 635 MW, not something larger?
9:28:18 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Before IRP filed, already submitted request to generation queue for
	gas plant?
9:28:34 AM	Atty Fisk Joint Intervenors - witness Burden
0.20 50 414	Note: Sacre, Candace Know when in 2022 submitted into queue?
9:28:50 AM	Atty Fisk Joint Intervenors - witness Burden
0.20.22 AM	Note: Sacre, Candace How all-source IRP facilitate entry into queue?
9:29:33 AM	Atty Fisk Joint Intervenors - witness Burden
9:29:41 AM	Note: Sacre, Candace Gas plant identified in 2020 IRP? Atty Fisk Joint Intervenors - witness Burden
3.23.71 AN	Note: Sacre, Candace A new gas plant had not?
9:29:57 AM	Atty Fisk Joint Intervenors - witness Burden
J.23.37 711 1	Note: Sacre, Candace Company determined in 2020 IRP process wanted to build new
	combined cycle gas plant?
9:30:40 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace That IRP found BREC only own 90 MW of new CC gas plant?
9:30:54 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Today's IRP saying BREC build entire 635 MW CC gas plant for
	itself?
9:31:08 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Back to RFP, respondents required to submit proposals by end of
0.04.00.00	May 2022?
9:31:22 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Prior to adoption of Inflation Reduction Act?

9:31:29 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Went into effect Aug 16 2022?
9:31:38 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Bids received not reflect impact of Inflation Reduction Act?
9:31:48 AM	Atty Fisk Joint Intervenors - witness Burden
0.00.40.444	Note: Sacre, Candace Bidders provided opportunity update bids?
9:32:10 AM	Atty Fisk Joint Intervenors - witness Burden
0.22.24 AM	Note: Sacre, Candace Ran that process?
9:32:24 AM	Atty Fisk Joint Intervenors - witness Burden Note: Sagre Candage - Christopsen baye knowledge about process?
9:32:32 AM	Note: Sacre, Candace Christensen have knowledge about process? Atty Fisk Joint Intervenors - witness Burden
9.32.32 AM	Note: Sacre, Candace Know if any bidders provided updated bids after IRA passed?
9:32:58 AM	Atty Fisk Joint Intervenors - witness Burden
3.32.30 AM	Note: Sacre, Candace Company provided confidential summary of short-listed bids in
	supplemental response?
9:33:55 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Christensen sponsors exhibit?
9:34:04 AM	Atty Fisk Joint Intervenors - witness Burden
0-24-10 AM	Note: Sacre, Candace Submitted self-build into this process?
9:34:18 AM	Atty Fisk Joint Intervenors - witness Burden
9:39:03 AM	Note: Sacre, Candace Bid reflected in exhibit?
9.39.03 AM	Atty Fisk Joint Intervenors - witness Burden Note: Sacre, Candace Have response to Staff Request 2-32?
9:39:32 AM	Note: Sacre, Candace Have response to Staff Request 2-32? Atty Fisk Joint Intervenors - witness Burden
9.39.32 AM	Note: Sacre, Candace In part B talks about all-source RFP and last sentence says, reading
	(click on link for further comments), see that?
9:39:58 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Do evaluation to compare solar storage and hybrid resources to NGCC?
9:40:08 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace What is basis for statement are adopting?
9:40:28 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Any written evaluation comparing solar storage and hybrid resources to NGCC?
9:40:40 AM	Atty Fisk Joint Intervenors - witness Burden
3. 10. 10 7 11 1	Note: Sacre, Candace That would be his?
9:40:47 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Even though adopted, questions better directed to Christensen?
9:41:04 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Turn to response to JI 2-64, adopted response?
9:41:29 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace This question deals with consideration of partners/co-owners for NGCC plant?
9:41:45 AM	Atty Fisk Joint Intervenors - witness Burden
3.11.137.11	Note: Sacre, Candace Response says, reading (click on link for further comments), is that
	right?
9:42:06 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Regards output, goal is have some energy or capacity of NGCC to go to other parties?
9:42:45 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Because BREC not need full 635 MW to serve customers?
9:43:05 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Looking for other co-owners would suggest not need full amount?

9:43:17 AM	Atty Fisk Joint Intervenors - witness Burden
0 40 07 414	Note: Sacre, Candace Certain level of partnership before decide proceed?
9:43:37 AM	Atty Fisk Joint Intervenors - witness Burden
0 40 54 414	Note: Sacre, Candace Know who would know?
9:43:54 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Ones involved in discussions around how much co-ownership be needed?
9:44:05 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Anybody else involved in discussions?
9:44:16 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Had role in trying to identify partners or co-owners?
9:44:40 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Know who has direct role in efforts?
9:44:59 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Ones reaching out to partners or co-owners?
9:45:04 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace No one who is witness today involved in outreach?
9:45:18 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Know why asked to sponsor if not involved?
9:45:38 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Response says no formal discussions have happened?
9:45:47 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Know if informal discussions happened?
9:45:53 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Know with who?
9:45:56 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Who would know that?
9:46:22 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Agree could be beneficial site new resource on site BREC owns?
9:46:49 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Because if site new project site of existing can minimize chance of siting challenges?
9:47:33 AM	Atty Fisk Joint Intervenors - witness Burden
7.77.33 AM	Note: Sacre, Candace Know if siting clean energy projects at existing BREC power
	generation site make eligible for tax credits or financial assistance?
9:48:00 AM	Atty Fisk Joint Intervenors - witness Burden
31 10100 711 1	Note: Sacre, Candace Response JI Request 2-54, have adopted response?
9:48:20 AM	Atty Fisk Joint Intervenors - witness Burden
31 10120 711 1	Note: Sacre, Candace Request talks about whether BREC evaluated potential self-build
	solar on own site?
9:48:42 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Say BREC has not formally evaluated such self-build at own site?
9:48:54 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Last sentence, you note, reading (click on link for further
	comments), see that?
9:49:13 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Why be imprudent to build at Coleman site before legacy pond rule
	finalized?
9:49:47 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Have concerns about legacy coal ash ponds at Coleman?
9:50:00 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Any involvement in coal ash?
9:50:05 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Know anything about legacy ponds?

9:50:16 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace Know whether leaking, causing contamination?
9:50:30 AM	Atty Fisk Joint Intervenors - witness Burden
	Note: Sacre, Candace CCR rule related to legacy ponds finalized?
9:51:14 AM	Chairman Chandler
	Note: Sacre, Candace Ms. Huddleston?
9:51:16 AM	Chairman Chandler
	Note: Sacre, Candace Procedural discussion. (Click on link for further comments.)
9:52:47 AM	Chairman Chandler
	Note: Sacre, Candace Recess until 10:05.
9:53:09 AM	Session Paused
10:08:40 AM	Session Resumed
10:08:46 AM	Session Paused
10:08:56 AM	Session Resumed
10:09:01 AM	Chairman Chandler
	Note: Sacre, Candace Ms. Huddleston?
10:09:05 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Cross Examination. GADS data D B Wilson, SC 2-10 attachment,
	adopted testimony?
10:09:19 AM	Via Presentation Activated
10:09:56 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Walk us through, on Dec 22 2022 line 107 from 11:21 pm Dec 22 to
	Dec 23 at 1:56 pm all 417 MW D B Wilson offline?
10:11:23 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace What does that mean #2 IDF out of service?
10:11:38 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Why is that important?
10:11:43 AM	Atty Huddleston Sierra Club - witness Burden
101111107111	Note: Sacre, Candace What happens when becomes positive?
10:11:49 AM	Atty Huddleston Sierra Club - witness Burden
101111111111111	Note: Sacre, Candace That would be a problem?
10:12:23 AM	Atty Huddleston Sierra Club - witness Burden
10112120 7 11 1	Note: Sacre, Candace Two and half hours Wilson entirely offline?
10:12:28 AM	Atty Huddleston Sierra Club - witness Burden
10.12.20 / 11 1	Note: Sacre, Candace Prior, for 81 hours, Wilson half offline?
10:12:41 AM	Atty Huddleston Sierra Club - witness Burden
10.12.71 AM	Note: Sacre, Candace What original cause for 81 hours, know IDF, why out of service?
10:12:59 AM	Atty Huddleston Sierra Club - witness Burden
10.12.33 AI1	Note: Sacre, Candace Why did it go to ground?
10:13:20 AM	Atty Huddleston Sierra Club - witness Burden
10.13.20 AM	Note: Sacre, Candace Scrolling up seems lot of problems with IDFs, line 68, above and
	below issues related to induced draft fans?
10:14:13 AM	Atty Huddleston Sierra Club - witness Burden
10.17.13 AM	Note: Sacre, Candace Reviewed GADS data for 2022?
10,14,2E AM	Atty Huddleston Sierra Club - witness Burden
10:14:25 AM	•
10.15.07 AM	Note: Sacre, Candace Find problems could not discern pattern among them?
10:15:07 AM	Atty Huddleston Sierra Club - witness Burden
10-15-10 AM	Note: Sacre, Candace Other issues noticed or pattern of issues?
10:15:19 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Someone in company review data to look for causes of outages or
10.15.20 444	derates?
10:15:30 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Have other witnesses here from that group?

10:15:40 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace What happens next after group does that review?
10:16:02 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Keep track of expenses related to problems identified in GADS data or identified by group?
10:16:18 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Anyone in BREC keep track of expenses?
10:16:32 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace In post-hearing data request, get information on 2022 all remedial measures related to forced outages from GADS data?
10:16:33 AM	POST-HEARING DATA REQUEST
	Note: Sacre, Candace ATTY HUDDLESTON SIERRA CLUB - WITNESS BURDEN
	Note: Sacre, Candace AMOUNT SPENT TO REMEDIATE ISSUES FROM A PARTICULAR YEAR
10:17:05 AM	Atty Depp BREC
10.17.057111	Note: Sacre, Candace Unclear what scope of request is. (Click on link for further
	comments.)
10:18:01 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Seems to me want to know if BREC not functioning and needing to
	fix how much costing fix D B Wilson any given year, keep track of
	XYZ and this and had that, repair X dollars, adding all up or
	individually?
10:19:38 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Do not do that?
10:19:42 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Do track for maintenance overall?
10:19:48 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Anything in record related to maintenance costs for a given year?
10:20:07 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Just be general maintenance and not separate routine maintenance
40.00.04.444	from maintenance due to specific problems?
10:20:24 AM	Atty Huddleston Sierra Club - witness Burden
10 20 10 111	Note: Sacre, Candace Dec 19 on, during Elliott?
10:20:40 AM	Atty Huddleston Sierra Club - witness Burden
10 20 52 414	Note: Sacre, Candace Dec 22 on is during Winter Storm Elliott?
10:20:53 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Two hours and 35 minutes of outage, D B Wilson unavailable, Kentuckians really looking for power?
10:21:16 AM	Atty Huddleston Sierra Club - witness Burden
···	Note: Sacre, Candace Dec 23 1:56 AM to 7:53 PM, 204 MW of D B Wilson offline?
10:21:55 AM	Atty Huddleston Sierra Club - witness Burden
···	Note: Sacre, Candace Next outage line 109 Dec 28 additional 86 hours?
10:22:40 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Still had 200 MW offline?
10:22:56 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Means had plant operating at 50 percent capacity between Dec 19
	and Jan 1 for more than half of that time?
10:23:34 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace When say this is reliable generation Dec 19 to Jan 1?
10:24:02 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Only asking Dec 19 to Jan 1, during that time, is reliable generation?
10:24:15 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Half unit being unavailable, would say reliable generation?
10:24:31 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Response to Sierra Club 1-18A, Attachment 1A, response adopted?

10:25:25 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Page is titled Big Rivers Electric Corp Winter Storm Elliott Generator
	Outages?
10:25:38 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Where data from, what is source?
10:25:47 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Data says on Dec 22 at 11:21 PM to Dec 23 at 1:56 AM there was forced outage at D B Wilson?
10:26:09 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Discussed difference derate and outage, explain what difference is?
10:26:24 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace If look at next line, says, reading (click on link for further comments), correct?
10:26:47 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Where this line of data come from?
10:27:05 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Look at SC-1 Wilson GADS data, where reflect forced outage?
10:27:46 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Contradiction between these two pieces of discovery, which is correct?
10:28:06 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace GADS data later produced in discovery, how is there line in first that is not in second?
10:28:28 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Second question was all of the GADS data?
10:29:09 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Clarify that in post-hearing data request?
10:29:10 AM	POST-HEARING DATA REQUEST
	Note: Sacre, Candace ATTY HUDDLESTON SIERRA CLUB - WITNESS BURDEN
	Note: Sacre, Candace CLARIFY CONTRADICTION BETWEEN GADS INFORMATION IN DATA REQUEST RESPONSES
10:29:12 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Cross Examination (cont'd). Did BREC do a post-Winter Storm Elliott evaluation?
10:29:52 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Who responsible for doing that?
10:30:13 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Saying don't remember whether Wilson offline for two-and-a-half or six-and-a-half hours?
10:30:46 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Agree seems odd there is a very specific line first data request that does not appear in second data request?
10:31:33 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Examination. On 1-18 when derate/outage start not show up here?
10:32:02 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace What time?
10:32:06 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Synonymous with 19:53?
10:32:09 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace When line 108 end?
10:33:11 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Term a lot used, instances induced draft fans occurred, agree out of 109 incidents that 71 of 109 being IDFs would be a lot?

10:33:44 AM	Chairman Chandler - witness Burden
10.33.44 AM	
	Note: Sacre, Candace Know power plant, know what Wilson is, given size complexity and number of parts ordinary that IDF be primary as relates to machine
	of that complexity?
10:34:18 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Sixty percent, normal 60 percent GADS incidents outages or derates
	related to IDF seem odd to you?
10:34:45 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Question asking, induced draft fan normally cause GADS outage or
	derate, 60+ percent reports through GADS, agree that not normal?
10:35:04 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace But FGD replacement occurred when?
10:35:17 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace IDF issues early on in year, relative to Dec or first half of 2022?
10:35:36 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Early on, outages related to IDF were related to installation of FGD,
	preinstallation issues?
10:36:00 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Talking about amp issues?
10:36:04 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Post-September, why IDF still having problems post-October not
10:36:31 AM	related to preinstallation of FGD? Chairman Chandler - witness Burden
10.30.31 AM	Note: Sacre, Candace A number of incidents through Nov and Dec of IDF, chalk those up
	as post-FGD installation issues?
10:37:50 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Fixed the induced draft fans?
10:37:55 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace In 2023, IDFs did these continue?
10:38:00 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Vibration stops, so get stuff happened later Nov and into Dec?
10:38:46 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Cross Examination (cont'd). Is bearing failure what happening line
10 20 00 414	47-49 where cost code is 1400 or just different?
10:39:00 AM	Atty Huddleston Sierra Club - witness Burden
10:39:30 AM	Note: Sacre, Candace Why those fans fail?
10:39:30 AM	Atty Huddleston Sierra Club - witness Burden Note: Sacre, Candace Back to 2022, last calendar year before 2023 IRP?
10:39:45 AM	Note: Sacre, Candace Back to 2022, last calendar year before 2023 IRP? Atty Huddleston Sierra Club - witness Burden
10.39.43 AM	Note: Sacre, Candace Last full year of data would have had?
10:39:52 AM	Atty Huddleston Sierra Club - witness Burden
10.33.32 AM	Note: Sacre, Candace Look at few more outages from 2022, line 5, 55-hour 417 MW
	forced outage?
10:40:23 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Means all of D B Wilson unavailable?
10:40:28 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Due to tube leak in reheater?
10:40:33 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace What that mean?
10:40:49 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Skipping to line 6 and line 7, 22-hour-and-24-minute forced derate?
10:41:11 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace In March?

10:41:15 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Electrostatic precipitator field out of service?
10:41:20 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace What that mean?
10:41:27 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Different from tube leak and reheater, different from IDF?
10:41:38 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Nine hours unit offline?
10:41:47 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Total of 31 hours significant derate or outage?
10:42:24 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace How much of Wilson available, 31 hours half unavailable?
10:42:41 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Row 7 what mean when says boiler tripped when closing 12A3
	feeder breaker?
10:43:01 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Different issue than three previous discussed?
10:43:10 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace May 15 to May 17, line 10, almost 46-hour-57-minute forced outage
	offline?
10:43:27 AM	Atty Huddleston Sierra Club - witness Burden
40.40.00.44	Note: Sacre, Candace Due to Economizer tube leak near penthouse floor?
10:43:33 AM	Atty Huddleston Sierra Club - witness Burden
10 10 11 111	Note: Sacre, Candace What that mean?
10:43:41 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Different issue than any discussed?
10:43:57 AM	Atty Huddleston Sierra Club - witness Burden
10 11 16 11	Note: Sacre, Candace Line 11, another forced outage 417 MW for 84 hours?
10:44:16 AM	Atty Huddleston Sierra Club - witness Burden
10.44.26 AM	Note: Sacre, Candace Due to different cause code 1050?
10:44:26 AM	Atty Huddleston Sierra Club - witness Burden Note: Sacre, Candace Different from other issues?
10:44:32 AM	Note: Sacre, Candace Different from other issues? Atty Huddleston Sierra Club - witness Burden
10.44.32 AM	Note: Sacre, Candace Jun 17 to Jun 20, Line 13, 417 MW outage?
10:44:49 AM	Atty Huddleston Sierra Club - witness Burden
ויוא כד.דד.טו	Note: Sacre, Candace Forced - Immediate outage, what mean?
10:44:58 AM	Atty Huddleston Sierra Club - witness Burden
10.77.30 AM	Note: Sacre, Candace Offline 72 hours 54 minutes?
10:45:05 AM	Atty Huddleston Sierra Club - witness Burden
10.45.05 AM	Note: Sacre, Candace Says 8823, loss of SCR flow path?
10:45:11 AM	Atty Huddleston Sierra Club - witness Burden
10. 15.11 7.11	Note: Sacre, Candace What that mean?
10:45:28 AM	Atty Huddleston Sierra Club - witness Burden
10. 15.20 / 11 /	Note: Sacre, Candace What is an HMI?
10:46:04 AM	Atty Huddleston Sierra Club - witness Burden
101.010.17	Note: Sacre, Candace During summer?
10:46:07 AM	Atty Huddleston Sierra Club - witness Burden
200.07 / 11	Note: Sacre, Candace Line 15, Jul 6 to Jul 11?
10:46:26 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace 108 hours and 45 minutes, full outage 417 MW?
10:46:32 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Says 1040 - First superheater, tube leak in platen SH?
10:46:39 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace What that mean?

10:46:49 AM	Atty Huddleston Sierra Club - witness Burden
40 40 44	Note: Sacre, Candace Different set of tubes from talked about?
10:46:57 AM	Atty Huddleston Sierra Club - witness Burden Note: Sacre, Candace Also in middle of summer?
10:47:07 AM	·
10:47:07 AM	Atty Huddleston Sierra Club - witness Burden
10.47.12 AM	Note: Sacre, Candace Agree was summer?
10:47:12 AM	Atty Huddleston Sierra Club - witness Burden Note: Sacre, Candace Row 17, looking at 36-hour-11-minute forced derate of 262 MW?
10:47:31 AM	Atty Huddleston Sierra Club - witness Burden
10. 17.51 711 1	Note: Sacre, Candace Due to induced draft fans?
10:47:39 AM	Atty Huddleston Sierra Club - witness Burden
10. 17.33 711 1	Note: Sacre, Candace Issue discussed with Commissioner?
10:47:46 AM	Atty Huddleston Sierra Club - witness Burden
10.171107111	Note: Sacre, Candace Aug 21 to 22, and looks like 24-hour derate of 67 MW?
10:48:03 AM	Atty Huddleston Sierra Club - witness Burden
10. 10.05 / 11 1	Note: Sacre, Candace Also due to induced draft fans?
10:48:16 AM	Atty Huddleston Sierra Club - witness Burden
10. 10.10 AI1	Note: Sacre, Candace Aug 24 to 26, line 44?
10:48:26 AM	Atty Huddleston Sierra Club - witness Burden
10.40.20 AM	Note: Sacre, Candace 43 hours and 29 minutes?
10:48:33 AM	Atty Huddleston Sierra Club - witness Burden
10.40.33 AM	Note: Sacre, Candace Aug 24 from 2:00 to 2:07, 65 MW derate?
10:48:54 AM	Atty Huddleston Sierra Club - witness Burden
10. 10.5 1 Al-1	Note: Sacre, Candace Line 43, 65 MW, 3410 - Feedwater pump #2 BFP?
10:49:05 AM	Atty Huddleston Sierra Club - witness Burden
10. 15.05 / 11 1	Note: Sacre, Candace What that mean?
10:49:31 AM	Atty Huddleston Sierra Club - witness Burden
101151517111	Note: Sacre, Candace Why offline for repairs?
10:49:38 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Someone who looks at that?
10:49:44 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace So would have that information?
10:49:49 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Derated for 7 hours and 40 minutes, and, from that, goes into 417
	MW forced outage?
10:50:06 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace What is cause for that?
10:50:18 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace No. 1 PAH not turning?
10:50:25 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace What that mean?
10:50:31 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Why not turning?
10:50:49 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Is different from all other issues in 2022 D B Wilson, new issue?
10:51:10 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Sept 9 to 11, Sept 8 24 hours 19.43 MW derate?
10:51:37 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Sept 9 24-hour 92.73 MW derate?
10:51:54 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Cost code 8100?
10:51:58 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Says cleaning and repairs?

10:52:02 AM	Atty Huddleston Sierra Club - witness Burden
10.E2.1E AM	Note: Sacre, Candace What that mean?
10:52:15 AM	Atty Huddleston Sierra Club - witness Burden Note: Sacre, Candace Looks like two 24-hour periods for that?
10:52:35 AM	Atty Huddleston Sierra Club - witness Burden
10.32.33 AM	Note: Sacre, Candace Soon after, on Sept 11, line 63 73-hour 417 MW forced outage?
10:52:53 AM	Atty Huddleston Sierra Club - witness Burden
10.32.33 / 11	Note: Sacre, Candace And this is platen superheater, tube leak B platen SH?
10:53:00 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace This is issue discussed before with respect D B Wilson?
10:53:12 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Recurring issue?
10:53:23 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Another 417 MW forced complete outage?
10:53:30 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace For 30 hours 25 minutes?
10:53:34 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace 1080 Economizer, tube leak econ inlet header?
10:53:39 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Issue discussed previously with D B Wilson?
10:53:48 AM	Atty Huddleston Sierra Club - witness Burden
10 50 54 444	Note: Sacre, Candace Another recurring issue?
10:53:54 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Last one, Nov 25 to 26 another 37-hour-and-49-minute induced draft fan outage?
10:54:20 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace 417 MW offline?
10:54:26 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Small 10 MW derate?
10:54:37 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace If look through different outages or derate reflective of reliable generation in 2022?
10:55:12 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace All events went through at least 50 MW derates and some were 417 MW forced outages?
10:55:41 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Agree this is a lot of events?
10:55:49 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Are a lot of different causes?
10:56:02 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Recall reading or contributing to BREC IRP document?
10:56:12 AM	Atty Huddleston Sierra Club - witness Burden
10 56 17 114	Note: Sacre, Candace Recall document stating Wilson highly reliable?
10:56:17 AM	Atty Huddleston Sierra Club - witness Burden
10:56:55 AM	Note: Sacre, Candace Think in 2022 Wilson highly reliable?
10.30.33 AM	Atty Huddleston Sierra Club - witness Burden Note: Sacre, Candace 2022 alone, if had only 2022 data in isolation, say highly reliable?
10:57:33 AM	Atty Huddleston Sierra Club - witness Burden
10137 133 AIT	Note: Sacre, Candace Done that for 2022?
10:57:38 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace What was conclusion for 2022?
10:57:44 AM	Atty Huddleston Sierra Club - witness Burden
	Note: Sacre, Candace Not recall conclusion?

10:57:50 AM	Atty Huddleston Sierra Club - witr	
	Note: Sacre, Candace	Ask your conclusion in post-hearing data request?
10:58:01 AM	Atty Huddleston Sierra Club - witr	
	Note: Sacre, Candace	My understanding performed an analysis based on data from 2022?
10:58:25 AM	Atty Huddleston Sierra Club - witr	
	Note: Sacre, Candace	Done that for 2022?
10:58:28 AM	Atty Huddleston Sierra Club - witr	
	Note: Sacre, Candace	Have information available for post-hearing data request?
10:58:29 AM	POST-HEARING DATA REQUEST	
	Note: Sacre, Candace	ATTY HUDDLESTON SIERRA CLUB - WITNESS BURDEN
	Note: Sacre, Candace	EQUIVALENT AVAILABILITY FACTOR IN 2022
10:58:39 AM	Chairman Chandler	
	Note: Sacre, Candace	Staff?
10:58:42 AM	Staff Atty Colyer PSC - witness Bu	
	Note: Sacre, Candace	Cross Examination. Direct back to RFP proposal summary, identify bids by spreadsheet row number, Row 6, thermal generation, tell me what type of thermal generation bid was for?
10:58:58 AM	Via Presentation Deactivated	
11:00:25 AM	Staff Atty Colyer PSC - witness Bu	ırden
	Note: Sacre, Candace	Information someone at BREC provide in post-hearing data request?
11:01:00 AM	Staff Atty Colyer PSC - witness Bu	· · · · · · · · · · · · · · · · · · ·
	Note: Sacre, Candace	Testified decision on 635 MW NGCC decision made above level by
	•	executives?
11:01:10 AM	Staff Atty Colyer PSC - witness Bu	ırden
	Note: Sacre, Candace	Believe decision made contingent on finding partnerships with other
		utilities?
11:01:42 AM	Staff Atty Colyer PSC - witness Bu	ırden
	Note: Sacre, Candace	If no partners found, expect BREC to seek to build something with
		less capacity?
11:02:10 AM	Chairman Chandler - witness Burd	
	Note: Sacre, Candace	Examination. Not right person or cannot answer because too remote?
11:02:16 AM	Chairman Chandler - witness Burd	
44 00 40 414	Note: Sacre, Candace	Christensen not either?
11:02:19 AM	Chairman Chandler - witness Burd	
	Note: Sacre, Candace	Who is?
11:02:41 AM	Staff Atty Colyer PSC - witness Bu	
	Note: Sacre, Candace	Cross Examination (cont'd). Any price/cost information, O&M or
11,02,47 AM	Staff Atty Colver DCC witness Pu	capital cost information in spreadsheet used for modeling purposes?
11:03:47 AM	Staff Atty Colyer PSC - witness Bu	Document put together in response to bids after Inflation Reduction
	Note: Sacre, Candace	Act passed?
11:04:05 AM	Staff Atty Colyer PSC - witness Bu	·
11.07.03 AM	Note: Sacre, Candace	This RFP proposal summary spreadsheet reflects bids made after
	Note: Sacre, Caridace	passage of Inflation Reduction Act?
11:04:53 AM	Chairman Chandler - witness Burd	•
11.01.55 AI1	Note: Sacre, Candace	Examination. BREC converted Green units from coal to natural gas?
11:05:04 AM	Chairman Chandler - witness Burd	-
	Note: Sacre, Candace	Sought Commission approval to do so?
11:05:12 AM	Chairman Chandler - witness Burd	
	Note: Sacre, Candace	Aware of case in which Commission approved that?
11:05:40 AM	Chairman Chandler - witness Burd	· ·
	Note: Sacre, Candace	Asked question and answer was utility position on importance of
		2029, remember answering question about expectation of Green
		through 2029?

11:06:10 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace What BREC position regarding Green units before during after 2029?
11:07:12 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Capacity not keep lights on, energy does?
11:07:19 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Capacity just ability to produce energy?
11:07:28 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace What good capacity if not run?
11:07:38 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Reading from Order in 2021-00079 case, reading (click on link for further comments), understanding facilities used for Green sufficient
11,00,26 AM	for NGC unit?
11:08:26 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Order goes on to say, restatement of BREC position, reading (click on link for further comments), agree somewhat in contradiction to what Commission restatement of BREC position in 2021-00079, Green could still be capacity unit?
11:09:26 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Just saying also be energy source?
11:09:42 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace When say depend on it, as a financial or operational hedge against energy prices?
11:10:13 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Asking about your understanding of what assertion is, when say use or depend on, what talking about?
11:10:26 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Goes on to say, reading (click on link for further comments), when all source RFP go out?
11:10:53 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace As respondent to all source RFP, envision capacity additions prior to 2029?
11:11:21 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Not say expectation respondents be available/online by X date?
11:11:56 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace In providing response, have projected in service date NGCC?
11:12:04 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace What was projected in service date?
11:12:53 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Proposal in response to RFT premised on joint ownership or purchase or sharing capacity with other entity other than BREC?
11:13:53 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Discussing in last IRP was partnership related to NGCC?
11:14:18 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Does 90 MW share of 592 MW NGCC sound right?
11:14:29 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Footnote 12, just a small piece of sub 600 MW combined cycle?
11:14:49 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Your proposal entirety of sub 700 MW combined cycle?
11:15:03 AM	Chairman Chandler - witness Burden
	Note: Sacre, Candace Talked about assertion CC use infrastructure and metering from
11:15:40 AM	Green station just not the case? Chairman Chandler - witness Burden
11.13.40 AM	
	Note: Sacre, Candace Benefit of NGCC as opposed to Green converted unit far more efficient?

11:15:55 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	What envisioned in IRP is CC depending on producing significant portion of BREC energy?
11:16:10 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	Know if significant upgrades required of current infrastructure or new contracts or agreements required provide service and infrastructure to run CC more often than Green is requiring?
11:16:50 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	Know whether provided information necessary in IRP taken into account incremental expense to accommodate NGCC?
11:17:12 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	Both infrastructure cost and incremental cost?
11:17:30 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	Other item in finding of Order page 11, Commission says, reading (click on link for further comments), remember one alternative?
11:18:00 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	Reading (click on link for further comments), who here today best positioned discuss additional discussions about partner for NGCC?
11:19:03 AM	Chairman Chandler - witness Burd	
	Note: Sacre, Candace	Not like be too detail oriented, IRP requires, reading (click on link for further comments), be involved in those discussions?
11:20:22 AM	Chairman Chandler - witness Burd	
	Note: Sacre, Candace	On other side of businesspeople doing RFP?
11:20:34 AM	Chairman Chandler - witness Burd	
	Note: Sacre, Candace	Have you last five years discussions other utilities about coordinating constructing and operating new units?
11:20:59 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	If going to build it, be necessarily involved in that conversation?
11:21:10 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	And you've not been directed to or asked come in to, not had conversations with other utilities?
11:21:51 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	General discussions about CCs?
11:22:02 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	Not in furtherance of joining up with them, general conversations about technology?
11:22:11 AM	Chairman Chandler - witness Burd	den
	Note: Sacre, Candace	Peers about prevailing things occurring?
11:22:36 AM	Chairman Chandler	
	Note: Sacre, Candace	Counsel?
11:22:42 AM	Atty Depp BREC - witness Burden	
	Note: Sacre, Candace	Redirect Examination. Coal fired generating plant require ongoing maintenance?
11:22:57 AM	Atty Depp BREC - witness Burden	
	Note: Sacre, Candace	Conceivable maintence costs associated with Wilson included in modeling?
11:23:06 AM	Atty Depp BREC - witness Burden	
	Note: Sacre, Candace	Mean modeling decisions accounted for anticipated maintenance costs?
11:23:20 AM	Atty Depp BREC - witness Burden	
	Note: Sacre, Candace	Elliott cause interruption in delivery of power to BREC members?
11:23:32 AM	Atty Depp BREC - witness Burden	
	Note: Sacre, Candace	Know whether BREC hedged against any market exposure buy power from market?

11:23:45 AM	Atty Depp BREC - witness Burden
	Note: Sacre, Candace Know whether BREC performs analysis of resource mix in addition to
11-24-00 444	IRP process?
11:24:00 AM	Atty Depp BREC - witness Burden
	Note: Sacre, Candace BREC have internal processes apart from IRP involve ongoing assessment what generated resource mix should be?
11:24:24 AM	Atty Depp BREC - witness Burden
	Note: Sacre, Candace BREC looks at how should plan generating resources on an ongoing
	basis?
11:24:40 AM	Atty Depp BREC - witness Burden
	Note: Sacre, Candace Typical for utility assess plant reliability on one-year or two-year
44 25 22 414	timeframe?
11:25:23 AM	Chairman Chandler
11:25:28 AM	Note: Sacre, Candace Mr. Depp? Atty Depp BREC
11.25.26 AM	Note: Sacre, Candace Talina Mathews.
11:25:49 AM	Chairman Chandler
111231137111	Note: Sacre, Candace Witness is sworn.
11:25:57 AM	Chairman Chandler - witness Mathews
	Note: Sacre, Candace Examination. Name and address?
11:26:08 AM	Atty Depp BREC - witness Mathews
	Note: Sacre, Candace Direct Examination. Title?
11:26:12 AM	Atty Depp BREC - witness Mathews
	Note: Sacre, Candace Sponsor data request responses?
11:26:16 AM	Atty Depp BREC - witness Mathews
44.26.20.414	Note: Sacre, Candace Updates or amendments?
11:26:20 AM	Atty Depp BREC - witness Mathews
11:26:23 AM	Note: Sacre, Candace If asked same questions, answers remain same?
11.20.23 AM	Atty Depp BREC - witness Mathews Note: Sacre, Candace Adopt as testimony?
11:26:26 AM	Atty Depp BREC - witness Mathews
111201207411	Note: Sacre, Candace Have materials on stand?
11:26:36 AM	Chairman Chandler
	Note: Sacre, Candace Questions?
11:26:53 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Cross Examination. CFO of BREC?
11:26:59 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Role in IRP?
11:27:21 AM	Atty Fisk Joint Intervenors - witness Mathews
11.27.41 AM	Note: Sacre, Candace When say financial modeling, which modeling is that?
11:27:41 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Any other modeling oversaw?
11:27:46 AM	Atty Fisk Joint Intervenors - witness Mathews
11.27.40 AM	Note: Sacre, Candace Anyone else here today report to you?
11:27:58 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Involved in strategy sessions, what were those?
11:28:17 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Involved strategy sessions around NGCC plant proposed?
11:28:48 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace When arrive BREC?
11:29:03 AM	Atty Fisk Joint Intervenors - witness Mathews
11.70-10 444	Note: Sacre, Candace When said decisions NGCC made before arrival, what referring to?
11:29:18 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Before Aug 16 2022 decisions pursuing NGCC plans already made?

11:29:47 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace What mean by shared resource?
11:30:00 AM	Atty Fisk Joint Intervenors - witness Mathews
44 20 44 444	Note: Sacre, Candace Review comments filed by intervenors?
11:30:11 AM	Atty Fisk Joint Intervenors - witness Mathews
11-20-14 AM	Note: Sacre, Candace All of them?
11:30:14 AM	Atty Fisk Joint Intervenors - witness Mathews
11.20.26 AM	Note: Sacre, Candace Have any role drafting of BREC response to comments?
11:30:26 AM	Atty Fisk Joint Intervenors - witness Mathews
11.20.26 AM	Note: Sacre, Candace Provide inputs to that?
11:30:36 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Have role in deciding what opportunities under Inflation Reduction Act BREC pursue?
11:30:58 AM	Atty Fisk Joint Intervenors - witness Mathews
11.50.50741	Note: Sacre, Candace Who else involved in decisions?
11:31:08 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Any of those folks witnesses here today?
11:31:33 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace In strategy discussions regarding Wilson plant operating until 2045?
11:31:50 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Who else involved?
11:31:55 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Anyone else?
11:32:03 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Decision made after came to BREC?
11:32:27 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Decision made before arrival?
11:32:43 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Means that modeling not test economics of continuing to run Wilson
11.22.01 AM	until 2045 versus retiring earlier?
11:33:01 AM	Atty Fisk Joint Intervenors - witness Mathews
11.22.15 AM	Note: Sacre, Candace No information in record that would provide economics of choice?
11:33:15 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Not presented in any previous IRP?
11:33:26 AM	Note: Sacre, Candace Not presented in any previous IRP? Atty Fisk Joint Intervenors - witness Mathews
11.55.20 AM	Note: Sacre, Candace When said previous IRPs used assumption?
11:33:41 AM	Atty Fisk Joint Intervenors - witness Mathews
11.55.11 /11	Note: Sacre, Candace Turning to NGCC, understanding is that 2020 IRP assumed be
	partners/co-owners for new NGCC plant BREC part of?
11:34:18 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Results said BREC have 90 MW share?
11:34:28 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Current IRP proposes 635 MW NGCC owned and operated by BREC?
11:34:40 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Been involved in conversations regarding efforts locate partners/co-
	owners for NGCC?
11:35:13 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Not reached out to any?
11:35:18 AM	Atty Fisk Joint Intervenors - witness Mathews
44.05.04	Note: Sacre, Candace About NGCC partnership/co-ownership?
11:35:24 AM	Atty Fisk Joint Intervenors - witness Mathews
11,25,24 44	Note: Sacre, Candace Who reported had conversations?
11:35:34 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Anyone else?
	Note: Sacre, Candace Anyone else?

11:35:42 AM	Atty Fick Joint Intervenors witness Mathews
11:35:42 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Asked anyone at BREC about efforts to get partners or co-owners for
	Note: Sacre, Candace Asked anyone at BREC about efforts to get partners or co-owners for NGCC?
11:36:00 AM	Atty Fisk Joint Intervenors - witness Mathews
11.50.00 AM	Note: Sacre, Candace What Berry report to you regarding efforts get partners/co-owners?
11:36:11 AM	Atty Fisk Joint Intervenors - witness Mathews
11.50.11 AM	Note: Sacre, Candace Identify entities?
11:36:18 AM	Atty Fisk Joint Intervenors - witness Mathews
11.50.10 AM	Note: Sacre, Candace Know if he worked with anybody at BREC on this effort?
11:36:30 AM	Atty Fisk Joint Intervenors - witness Mathews
11.50.50 AM	Note: Sacre, Candace Know who could?
11:36:41 AM	Atty Fisk Joint Intervenors - witness Mathews
11.50.11741	Note: Sacre, Candace Burden mistaken when suggested have information about co-owners
	or partners?
11:36:47 AM	Atty Depp BREC
	Note: Sacre, Candace Objection. (Click on link for further comments.)
11:37:20 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Cross Examination (cont'd). Do you know if certain level of co-
	ownership/partnership needed before BREC proceed?
11:37:35 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Know who would know that?
11:38:05 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Does this strategic plan have a 635 MW NGCC in it?
11:38:27 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Strategic plan do modeling?
11:38:50 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Process informed by this IRP?
11:39:17 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Everything in this IRP being looked at fresh?
11:40:00 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Already started strategic process?
11:40:08 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Update to former plan?
11:40:14 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace When that strategic plan issued?
11:40:25 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace So last one was in 2023?
11:41:05 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Undertaking new strategic plan will inform next IRP?
11:41:15 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Will plan be disclosed to Commission?
11:41:45 AM	Atty Fisk Joint Intervenors - witness Mathews
44 42 00 414	Note: Sacre, Candace NGCC, not know if certain level of co-ownership needed?
11:42:00 AM	Atty Fisk Joint Intervenors - witness Mathews
44 42 22 414	Note: Sacre, Candace Know who would know that?
11:42:23 AM	Atty Fisk Joint Intervenors - witness Mathews
11 12 26 114	Note: Sacre, Candace Page 55 of IRP, section top of page, regulatory climate?
11:43:26 AM	Atty Fisk Joint Intervenors - witness Mathews
11.42.25 444	Note: Sacre, Candace Next page says opportunities?
11:43:35 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Listed is Inflation Reduction Act and Infrastructure Investment in
	Jobs Act?

11:43:49 AM	Atty Fisk Joint Intervenors - witness Mathews
111.01.157.11	Note: Sacre, Candace Both apps provide various opportunities obtain financial support for
	clean energy projects?
11:44:07 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace In IRP BREC discusses two opportunities, PACE program and New
	ERA program?
11:44:25 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace These are opportunities because obtain financial support reduce
11,44,40 AM	costs owners/customers pay?
11:44:48 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Agree pursuing opportunities way to protect customers?
11:45:10 AM	Atty Fisk Joint Intervenors - witness Mathews
11.45.10 AN	Note: Sacre, Candace Said involved in discussions regarding pursuit of federal financial
	opportunities?
11:45:18 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Know who decider what opportunities be pursued?
11:45:42 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Two opportunities BREC pursued PACE and New ERA programs,
	board approved?
11:46:00 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace In future decided to pursue they would be board?
11:46:15 AM	Atty Fisk Joint Intervenors - witness Mathews
11.4C.20 AM	Note: Sacre, Candace Recommendation made to CEO made by who?
11:46:28 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Have you recommended pursuit of specific federal financial support?
11:46:50 AM	Atty Fisk Joint Intervenors - witness Mathews
11. 10.30 AM	Note: Sacre, Candace What program applying for?
11:47:05 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Any other programs?
11:47:32 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Accurate to date prioritized grant low-interest loan opportunities
	managed through PACE and New ERA programs?
11:47:49 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace BREC completed written evaluation of opportunities under IRA and infrastructure law?
11:48:04 AM	Atty Fisk Joint Intervenors - witness Mathews
11. 10.0 1 AP	Note: Sacre, Candace Why not?
11:48:16 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace That is only reason?
11:48:36 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Realize some funding opportunities may have closed already?
11:48:46 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Not because not have time evaluate, may have missed some?
11:49:04 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace In Responses JI 1-14 and 15, say are, last two lines, reading (click
11:49:33 AM	on link for further comments), see that?
11.49.33 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Who involved in reviewing this?
11:49:55 AM	Atty Fisk Joint Intervenors - witness Mathews
111 13133 711 1	Note: Sacre, Candace Who is responsible for keeping up with programs?
11:50:28 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace For RUS programs, your responsibility decide to apply?
11:50:40 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Other IRA programs, other people responsible?

11:51:10 AM	Atty Fisk Joint Intervenors - witness Mathews
44 54 26 414	Note: Sacre, Candace How about funding for energy efficiency and demand response?
11:51:26 AM	Atty Fisk Joint Intervenors - witness Mathews
11.51.41 AM	Note: Sacre, Candace Any written documentation of review of federal opportunities?
11:51:41 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Turning to New ERA program, grants and loans available clean energy projects?
11:52:02 AM	Atty Fisk Joint Intervenors - witness Mathews
11.52.02 / 11	Note: Sacre, Candace Pull up JI 1-13, attachment, letter of intent BREC submitted to RUS?
11:52:52 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Sept 2023 BREC submitted letter of intent applying under New ERA
	program?
11:53:04 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Opening paragraph letter of intent refers to notice of funding
	published in Federal Register?
11:53:12 AM	Atty Depp BREC
11.52.22 AM	Note: Sacre, Candace Confidential document. (Click on link for further comments.)
11:53:22 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Cross Examination (cont'd). Put on screen Federal Register, look at
	page 6, top left says eligibility information, see that?
11:53:51 AM	Via Presentation Activated
11:54:03 AM	Atty Fisk Joint Intervenors - witness Mathews?
	Note: Sacre, Candace Long list, first part eligible entities, scrolling to middle of left column
	says eligible project, see that?
11:54:26 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Long list of eligible projects and types of projects?
11:54:32 AM	Atty Fisk Joint Intervenors - witness Mathews
11.54.42 AM	Note: Sacre, Candace Out of long list, selected carbon capture sequestration at Wilson?
11:54:42 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Look down bottom left column, number 4, modifying/refinancing existing loans from RUS?
11:55:01 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace BREC have existing loans from RUS?
11:55:05 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Any consideration applying to New ERA program for modification or
	refinancing?
11:55:16 AM	Atty Fisk Joint Intervenors - witness Mathews
44 55 20 414	Note: Sacre, Candace Why not?
11:55:30 AM	Atty Fisk Joint Intervenors - witness Mathews
11:55:46 AM	Note: Sacre, Candace When say too early, what basing that on?
11.55.40 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace What was that window?
11:55:53 AM	Atty Fisk Joint Intervenors - witness Mathews
11.55.557111	Note: Sacre, Candace That discussion with RUS?
11:56:00 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Documentation from RUS saying plants not qualify?
11:56:21 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Know who would know what that date is?
11:56:35 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Page 3 to 4 of letter of intent, capital estimate for CCS project is
11.57.10.44	\$2.52 billion?
11:57:18 AM	Via Presentation Deactivated
11:57:43 AM	Atty Fisk Joint Intervenors - witness Mathews Note: Sacra, Candaca — Top of page 4 shows a 25% project grant of \$630 million?
	Note: Sacre, Candace Top of page 4 shows a 25% project grant of \$630 million?

11:57:55 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace And zero percent project loan of \$1.89 billion?
11:58:01 AM	Atty Fisk Joint Intervenors - witness Mathews
11.50.00 AM	Note: Sacre, Candace Involved in identifying those figures?
11:58:06 AM	Atty Fisk Joint Intervenors - witness Mathews
11.50.10 AM	Note: Sacre, Candace Know who was?
11:58:19 AM	Atty Fisk Joint Intervenors - witness Mathews
11,E0,22 AM	Note: Sacre, Candace Don't believe to be incorrect?
11:58:23 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Back to Federal Register, page 4, right side, award amounts, total amount single applicant receive \$970 million?
11:58:40 AM	Via Presentation Activated
11:58:55 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Combination of grants and loans?
11:59:01 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Grant counts towards amount dollar for dollar basis?
11:59:08 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Zero percent loan counts at 40 percent rate?
11:59:13 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Amount requested letter of intent exceed \$970 million cap?
11:59:25 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Would agree exceeds?
11:59:35 AM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Disagree does count 40 percent?
11:59:38 AM	Atty Depp BREC
	Note: Sacre, Candace Object. (Click on link for further comments.)
12:00:17 PM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Cross Examination (cont'd). Have read this Federal Register, right?
12:01:10 PM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Put up document frequently asked questions, seen this document before?
12:02:18 PM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace See maximum limit \$970 million?
12:02:36 PM	Atty Fisk Joint Intervenors - witness Mathews
12.02.00	Note: Sacre, Candace First line talks about subsidy rates expected be 42.23 percent?
12:02:43 PM	Atty Fisk Joint Intervenors - witness Mathews
12.02.10.11	Note: Sacre, Candace Figure just talking about, 40 percent?
12:02:48 PM	Atty Fisk Joint Intervenors - witness Mathews
12.02.101.1	Note: Sacre, Candace Letter of intent amount requesting be over cap, is that right?
12:03:04 PM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Know why BREC submit letter of intent that on face exceeded
12-02-10 DM	program limit?
12:03:18 PM	Atty Fisk Joint Intervenors - witness Mathews
12.02.22 DM	Note: Sacre, Candace Decision made by, know who made by?
12:03:32 PM	Atty Fisk Joint Intervenors - witness Mathews
12.04.2E DM	Note: Sacre, Candace BREC believe CCS technologically feasible?
12:04:25 PM	Atty Fisk Joint Intervenors - witness Mathews
	Note: Sacre, Candace Going back to my question, BREC believe CCS technologically feasible?
12:04:47 PM	
14.07.7/ 11	Atty Fisk Joint Intervenors - witness Mathews Note: Sacre, Candace Know who at BREC know whether company believes CCS feasible?
12:05:04 PM	Atty Fisk Joint Intervenors - witness Mathews
12.03.07 [11	Note: Sacre, Candace Reasonable assume Wilson plant able capture and sequester 90
	percent of emissions by 2032?
	percent of emissions by 2002:

12:05:38 PM	Atty Fisk Joint Intervenors - witness	
	•	s because not reasonable assume Wilson could?
12:05:54 PM	Atty Fisk Joint Intervenors - witness	
12.06.14.004	•	Think get to it by 2032?
12:06:14 PM	Atty Fisk Joint Intervenors - witness	
12.07.07 DM		BREC believe carbon capture available from vendors?
12:07:07 PM 12:07:16 PM	Via Presentation Deactivated Atty Fisk Joint Intervenors - witness	Mathaus
12.07.10 PM	•	n letter of intent, decided pursue funding for technology believe not
		ivailable?
12:07:43 PM	Atty Fisk Joint Intervenors - witness	
12.071.01.1	•	New ERA provided \$970 million in funding, why company decide
	•	apply for technology believed not obtain?
12:08:18 PM	Atty Fisk Joint Intervenors - witness	Mathews
	Note: Sacre, Candace K	Know of Energy Infrastructure Reinvestment Program?
12:08:34 PM	Atty Fisk Joint Intervenors - witness	s Mathews
	Note: Sacre, Candace K	(now who would be?
12:08:57 PM	Atty Fisk Joint Intervenors - witness	
	•	f look at JI 1-14, have adopted response?
12:09:20 PM	Atty Fisk Joint Intervenors - witness	
12.00.20.014		Did not know what program was when provided answer?
12:09:30 PM	Atty Fisk Joint Intervenors - witness	
		And have not looked opportunities under program for reducing costs or customers?
12:10:20 PM	Atty Fisk Joint Intervenors	or customers:
12.10.20 111	•	Mark Federal Register notice as Joint Intervenors Hearing Exhibit 1.
	•	Click on link for further comments.)
12:11:58 PM	Chairman Chandler	
	,	Recess until 12:55.
12:12:13 PM	Session Paused	
1:00:54 PM	Session Resumed	
1:00:54 PM	Camera Lock Deactivated	
1:01:13 PM	Session Pagement	
1:01:26 PM 1:01:44 PM	Session Resumed Chairman Chandler	
ויוז דד.וטו.		Back on the record.
1:01:48 PM	Chairman Chandler	ack off the record.
1.01.10111		Cross examination?
1:01:53 PM	Atty Shrinath Sierra Club - witness N	
	•	Cross Examination. Adopting many of Berry discovery responses?
1:02:10 PM	Atty Shrinath Sierra Club - witness N	
	Note: Sacre, Candace R	Right person address questions with regard IRP requirements, or
		Varren?
1:03:00 PM	Atty Shrinath Sierra Club - witness N	
		Also adopting many Murphy discovery responses?
1:03:06 PM	Atty Shrinath Sierra Club - witness N	
1.02.10 DM		Address questions regarding federal programs?
1:03:19 PM	Atty Shrinath Sierra Club - witness N	
		Response to Sierra Club 1-20, there said, reading (click on link for urther comments), see that?
1:03:50 PM	Atty Shrinath Sierra Club - witness N	• · · · · · · · · · · · · · · · · · · ·
_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	RA only mentioned three times in IRP, sound right?
1:04:00 PM	Atty Shrinath Sierra Club - witness N	· · · · · · · · · · · · · · · · · · ·
	•	
	Note: Sacre, Candace A	Assuming true, why is that, said to Fisk not have time?

1:04:09 PM	Atty Depp BREC
	Note: Sacre, Candace Asking why has not counted? (Click on link for further comments.)
1:04:42 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace Cross Examination (cont'd). When you say not have resources, mean capacity?
1:04:58 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace How IRA programs and clean energy tax credits considered in
	resource planning?
1:05:18 PM	Atty Shrinath Sierra Club - witness Mathews
1 OF 20 DM	Note: Sacre, Candace IRA tax credits lower cost of wind solar and storage?
1:05:30 PM	Atty Shrinath Sierra Club - witness Mathews
1:05:39 PM	Note: Sacre, Candace IRP requires consideration of costs selecting resource mix?
1.05.39 PM	Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace How IRA reduces cost important for assessing resource mix in IRP?
1:06:02 PM	Atty Shrinath Sierra Club - witness Mathews
1.00.02 114	Note: Sacre, Candace Presumed IRA reduces cost utility scale, important in IRP process
	where cost important consideration?
1:06:28 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace BREC model procurement of sources take advantage tax credits?
1:06:46 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace Know if BREC compared investments in coal and gas to investments in resources lower cost due to IRA tax credits?
1:07:15 PM	Atty Shrinath Sierra Club - witness Mathews
1107113 111	Note: Sacre, Candace Responsible resource planning requires investigating all avenues for
	least cost resources?
1:07:35 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace Exploring multiple avenues change what least cost pathway be is
1 07 55 514	important?
1:07:55 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace Given in IRP and through RFPs, should not BREC favor procurement resource types and locations?
1:08:15 PM	Atty Shrinath Sierra Club - witness Mathews
1100110 111	Note: Sacre, Candace Agree not doing so leaving money on table for members?
1:08:33 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace BREC maximizing use of IRA tax credits?
1:08:55 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace Not sure answered question, has BREC maximized tax credits for
	benefit of members?
1:09:20 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace But can build resources that replace existing resources with tax credits?
1:09:40 PM	Atty Shrinath Sierra Club - witness Mathews
11031 10 1 11	Note: Sacre, Candace BREC not evaluated whether take advantage of wind investments to
	maximize production tax credit?
1:09:59 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace BREC not evaluated whether take advantage of solar investments to
	maximize production and investment tax credit?
1:10:11 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace In IRP?
1:10:42 PM	Atty Shrinath Sierra Club - witness Mathews
	Note: Sacre, Candace Outside PACE program, BREC not evaluated whether take advantage
1:11:01 PM	of energy storage investment maximize investment tax credits? Atty Shrinath Sierra Club - witness Mathews
1.11.U1 FIVI	Note: Sacre, Candace BREC not evaluated whether take advantage of investments in
	energy communities to maximize production tax credits?
	5 5,

Note: Sacre, Candace 1:11:23 PM Note: Sacre, Candace Note: Sacre, Candac
1:11:41 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Examining criteria, communities near coal plants that would qualify as energy communities under Inflation Reduction Act? Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Looking at map on next page, energy communities in BREC service territory? 1:13:31 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Aware IRA includes 10 percent step-up production tax credits for projects in energy communities? 1:13:43 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Aware projects qualify are projects with greenhouse emissions not greater than zero? 1:14:20 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Given all this, could BREC save costs targeting energy procurement in coal communities near Green, Reid, Coleman, and others? 1:14:44 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace When will that new look happen? 1:14:50 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace How new look be manifested? 1:15:17 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Spoke to Fisk about criteria, planning issue new all-source IRP subject to new information? 1:15:32 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace So are no plans to do so? 1:15:43 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace So are no plans to do so? 1:15:43 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Remember loan guarantee program passed part of Bipartisan Infrastructure Act? 1:16:18 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace BREC could qualify for this program? 1:16:30 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace BREC could qualify for this program?
1:12:22 PM Note: Sacre, Candace Examining criteria, communities near coal plants that would qualify as energy communities under Inflation Reduction Act? 1:12:40 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Looking at map on next page, energy communities in BREC service territory? 1:13:31 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Aware IRA includes 10 percent step-up production tax credits for projects in energy communities? 1:13:43 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Aware projects qualify are projects with greenhouse emissions not greater than zero? 1:14:20 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Given all this, could BREC save costs targeting energy procurement in coal communities near Green, Reid, Coleman, and others? 1:14:44 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace When will that new look happen? 1:14:50 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace How new look be manifested? 1:15:17 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Sope to Fisk about criteria, planning issue new all-source IRP subject to new information? 1:15:32 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace So are no plans to do so? 1:15:43 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Remember loan guarantee program passed part of Bipartisan Infrastructure Act? 1:16:18 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace Remember loan guarantee program passed part of Bipartisan Infrastructure Act? 1:16:30 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace BREC states not considered availability of Low-Income Communities Bonus Credit Program? 1:16:30 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace BREC could qualify for this program?
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Bonus Credit Program? 1:16:30 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacre, Candace BREC could qualify for this program?
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Note: Sacre, Candace BREC could qualify for this program?
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Note: Sacre, Candace Not taken look at criteria?
1:16:48 PM Atty Shrinath Sierra Club - witness Mathews
Note: Sacre, Candace Anyone within company?
1:16:58 PM Atty Shrinath Sierra Club - witness Mathews
Note: Sacre, Candace Possible BREC leaving money on table not taking advantage of
funds?
1:17:09 PM Atty Shrinath Sierra Club - witness Mathews
Note: Sacre, Candace Is not IRP place to model cost savings through alternative resources
and federal programs?
1:17:25 PM Atty Shrinath Sierra Club - witness Mathews Note: Sacra Candaca Without modeling, how ratenavers he assured receiving just and
Note: Sacre, Candace Without modeling, how ratepayers be assured receiving just and reasonable rates?
1:17:45 PM Atty Shrinath Sierra Club - witness Mathews
Note: Sacre, Candace BREC not sought financing through Rural Energy for America
Program?
1:17:59 PM Atty Shrinath Sierra Club - witness Mathews
Note: Sacre, Candace Know whether BREC qualify for this program?

1:18:17 PM	Atty Chrinath Siorra Club	
1.10.17 PM	Atty Shrinath Sierra Club Note: Sacre, Candace	Take administrative notice of SC 2 (Click on link for further
	Note: Sacre, Candace	Take administrative notice of SC-2. (Click on link for further comments.)
1:20:00 PM	Atty Shrinath Sierra Club	connents.)
1.20.00 111	Note: Sacre, Candace	Move to introduce. (Click on link for further comments.)
1:20:41 PM	Chairman Chandler	Prove to introduce: (click of link for further comments.)
1.20.11111	Note: Sacre, Candace	Admit as Sierra Club Hearing Exhibit 2. (Click on link for further
	Hotel Sacrey Carradee	comments.)
1:20:42 PM	SIERRA CLUB HEARING EXHIBIT	
	Note: Sacre, Candace	ATTY SHRINATH SIERRA CLUB - WITNESS MATHEWS
	Note: Sacre, Candace	ENERGY COMMUNITY TAX CREDIT BONUS
1:21:23 PM	Chairman Chandler	
	Note: Sacre, Candace	Anything else, counsel?
1:21:28 PM	Chairman Chandler	
	Note: Sacre, Candace	Questions?
1:21:39 PM	Via Presentation Deactivated	
1:21:41 PM	Staff Atty Colyer PSC - witness M	athews
	Note: Sacre, Candace	Cross Examination. Climax of IRP, 600+ MW NGCC operational by
		2029 and Green being retired, when expect BREC file CPCN
		application for new generation in 2029?
1:23:26 PM	Staff Atty Colyer PSC - witness M	
	Note: Sacre, Candace	Talked about a new round of modeling, be part of decision-making
		process as far as assumptions regards modeling what resources and retirements be considered?
1:24:09 PM	Staff Atty Colyer PSC - witness M	
1.24.03 FM	Note: Sacre, Candace	Considering fact have to file CPCN soon, planning on building new
	Note: Sacre, Caridace	generation in 2029, expect partnership with another utility regarding
		constructing NGCC?
1:25:03 PM	Staff Atty Colyer PSC - witness M	
	Note: Sacre, Candace	Fair to say options for resource assumptions much broader than
		when IRP filed?
1:25:48 PM	Staff Atty Colyer PSC - witness M	athews
	Note: Sacre, Candace	Burden testified earlier mentioned self-build as option chosen over
	-	RFPs, still preference?
1:26:30 PM	Staff Atty Colyer PSC - witness M	
	Note: Sacre, Candace	Self-build option does give broader range, only limited by nameplate
1.27.00 DM	Chaff Atta Calvar DCC witness M	constraints what available technologically?
1:27:08 PM	Staff Atty Colyer PSC - witness M	
	Note: Sacre, Candace	Mentioned leadership decided not opt for carbon capture due to cost?
1:27:51 PM	Staff Atty Colyer PSC - witness M	
1.27.31111	Note: Sacre, Candace	Assuming carbon capture survives to a point ten years from now,
	Note: Sacre, cariadee	include retirement of Wilson in modeling?
1:28:36 PM	Staff Atty Colyer PSC - witness M	<u> </u>
	Note: Sacre, Candace	Modeling doing now and for next IRP, treat Wilson Station
	, constant	differently than in this IRP?
1:29:28 PM	Staff Atty Colyer PSC - witness M	athews
	Note: Sacre, Candace	IRP, page 56, RUS forgiving 40 percent loans for renewable energy,
		what are conditions for achieving maximum loan?
1:30:10 PM	Staff Atty Colyer PSC - witness M	
	Note: Sacre, Candace	What is that based on?
1:30:42 PM	Staff Atty Colyer PSC - witness M	
	Note: Sacre, Candace	Things can change quickly, certain assumptions change, besides
		things talked about any other assumptions think be changed for
		modeling plan to do?

	0. 55 4.11 0.1 0.00 11 14	
1:32:33 PM	Staff Atty Colyer PSC - witness Ma	
4 22 22 214	Note: Sacre, Candace	Expect solar PPAs part of planning?
1:33:03 PM	Staff Atty Colyer PSC - witness Ma	
	Note: Sacre, Candace	When wind power selected under resource selections despite no bids
1.24.10 DM	Chairman Chandlar	made, think wind still be considered option in next modeling?
1:34:10 PM	Chairman Chandler	Ougations?
1.24.10 DM	Note: Sacre, Candace Chairman Chandler - witness Matl	Questions?
1:34:18 PM		
1,24,24 DM	Note: Sacre, Candace	Examination. Generally aware of Green conversion?
1:34:34 PM	Chairman Chandler - witness Matl	
1:34:51 PM	Note: Sacre, Candace Chairman Chandler - witness Matl	Aware dismissed as pathway in 2020 IRP?
1.34.31 PM		Aware Green conversion not identified as appropriate pathway in
	Note: Sacre, Candace	2020 IRP?
1:35:14 PM	Chairman Chandler - witness Matl	
1.55.17111	Note: Sacre, Candace	Surprise you to know 2021-00079 Order said, reading (click on link
	Note: Sacre, Candace	for further comments), sounds like something Commission might
		say?
1:35:39 PM	Chairman Chandler - witness Matl	·
	Note: Sacre, Candace	Commission went on to say, reading (click on link for further
	•	comments), sound familiar, take my word for it?
1:36:30 PM	Chairman Chandler - witness Matl	hews
	Note: Sacre, Candace	Jun 11 2021 Order in 2021-00079, in that case alternatives
		proposed to Green conversion, CPCN application include alternatives
		to proposal?
1:37:37 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	Commission notes BREC evaluated four options, reading (click on
4 20 46 214		link for further comments), sound familiar?
1:38:16 PM	Chairman Chandler - witness Matl	
1-20-2E DM	Note: Sacre, Candace	Utility propose idling Green and purchasing capacity from MISO?
1:38:35 PM	Chairman Chandler - witness Matl	
1,20,20 DM	Note: Sacre, Candace	The third one, option three?
1:38:38 PM	Chairman Chandler - witness Matl	
1:38:41 PM	Note: Sacre, Candace Chairman Chandler - witness Matl	No firm gas there now?
1.30.41 PM	Note: Sacre, Candace	Nonfirm, holding that, retaining Green station to comply with CCR
	Note. Sacre, Caridace	rule, Green conversion least cost option?
1:39:26 PM	Chairman Chandler - witness Matl	·
1.33.20111	Note: Sacre, Candace	Reason to believe possible upgrading for CCR would have been
	Hotel Sacrey Carladee	cheaper than anticipated?
1:39:49 PM	Chairman Chandler - witness Matl	·
	Note: Sacre, Candace	Conversations with people who have made that assertion?
1:40:10 PM	Chairman Chandler - witness Matl	·
	Note: Sacre, Candace	Agree that in this IRP BREC analysis conducted in IRPs materially
	•	different than analysis utility would conduct in preparation and filing
		of CPCN?
1:40:45 PM	Chairman Chandler - witness Mat	hews
	Note: Sacre, Candace	Based on familiarity with this IRP and experience in CPCNs, analyses
		conducted in this IRP sufficient to support application for CPCN?
1:41:23 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	As a starting point or sufficient in entirety?
1:41:29 PM	Chairman Chandler - witness Matl	
	Note: Sacre, Candace	Position BREC running and planning system for benefit of owner
		members?

1:41:52 PM	Chairman Chandler - witness Mat	hews
1111102111	Note: Sacre, Candace	Pose risk if type or breadth of analyses different in IRP than in
	,	CPCN?
1:42:14 PM	Chairman Chandler - witness Mat	hews
	Note: Sacre, Candace	Risk to consumers in doing one thing in IRP that is inconsistent with type of analysis utility actually conduct in furtherance of CPCN?
1:43:31 PM	Chairman Chandler - witness Mat	hews
	Note: Sacre, Candace	In this case, know whether folks conduct IRP allowed models choose economic retirement and additions or hard coded?
1:43:58 PM	Chairman Chandler - witness Mat	hews
	Note: Sacre, Candace	Was Green allowed to do anything prior to 2029?
1:44:12 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	That be type of differences between CPCN analysis and IRP hard coding determinations of economics, kind of thing be different?
1:44:57 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	At its base, determination to retire something comparison of stay open costs current generation verse replacement capacity cost alternative generation?
1:45:12 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	That is economic analyses at base these models conduct?
1:45:25 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	Not hard coded, if allowed to choose to retire, comparison model makes?
1:45:35 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	Least cost, most reasonable, that's what would want to know, whether made sense invest in this verse other thing?
1:45:54 PM	Chairman Chandler - witness Mat	hews
	Note: Sacre, Candace	That is not modeling run in this case, as relates to Wilson and as relates to Green station vis-a-vis 2029?
1:46:27 PM	Chairman Chandler - witness Mat	hews
	Note: Sacre, Candace	If somebody bring to you this IRP, type of additional studies would want to conduct?
1:46:51 PM	Chairman Chandler - witness Mat	hews
	Note: Sacre, Candace	In light of recent strategic priorities, open-ended outcome?
1:47:17 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	Indication of what BREC intends to do as relates to 696 MW queue request for NGCC for in-service date of Apr 30 2029?
1:48:06 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	Should take fact CC still in queue indication BREC continue with it or status quo and not changed?
1:48:22 PM	Chairman Chandler - witness Mat	
4 40 04 014	Note: Sacre, Candace	Why 696 MW facility and not megawatt discussed in IRP?
1:48:34 PM	Chairman Chandler - witness Mat	
1:48:37 PM	Note: Sacre, Candace Chairman Chandler - witness Mat	Know who would know that?
1.40.37 PM	Note: Sacre, Candace	Anybody here today know answer to question?
1:49:25 PM	Chairman Chandler - witness Mat	
1113123111	Note: Sacre, Candace	Asked Burden question, discussion of all options, having reviewed IRP cannot find discussion of that, in practice have personal knowledge whether discussions with other utilities regarding expansion, construction or operating units?
1:50:32 PM	Chairman Chandler - witness Mat	• •
	Note: Sacre, Candace	Ask post-hearing, who discussions with and who include, there is existence of information?

1:50:33 PM	POST-HEARING DATA REQUEST	-
	Note: Sacre, Candace	CHAIRMAN CHANDLER - WITNESS MATHEWS
	Note: Sacre, Candace	IDENTIFY DISCUSSIONS AND WITH WHOM REGARDING
		EXPANSION OF GENERATING FACILITIES AND ASSESSMENTS OF ECONOMIC OPPORTUNITIES OF COORDINATION IN
		CONSTRUCTING OR OPERATING NEW UNITS
1:51:20 PM	Chairman Chandler - witness Ma	athews
	Note: Sacre, Candace	Quote read from Green conversion order, building CC would put
1:51:42 PM	Chairman Chandler - witness Ma	utility over needs, remember?
1.31.72 FM	Note: Sacre, Candace	Think that would have assumed keep Wilson on, have need in future
	Note: Sacrey cariadee	for 696 MW with or without retirement of Green?
1:52:26 PM	Chairman Chandler - witness Ma	
	Note: Sacre, Candace	Response change if question is if not have Green and not have Wilson?
1:53:10 PM	Chairman Chandler - witness Ma	
4 50 44 514	Note: Sacre, Candace	Somewhere between 800 and 850 MW?
1:53:44 PM	Chairman Chandler - witness Ma	ITNEWS IRP regulation requires utility provide historical information relating
	Note: Sacre, Candace	to energy cells and CP of retail and wholesale customers firm commitments, same other nonfirm basis, sound familiar?
1:54:30 PM	Chairman Chandler - witness Ma	
	Note: Sacre, Candace	One other reference to wholesale customers and utility has to inform
		Commission committed capacity sales coincident with peak, as
		relates to resource planning, is there distinction way think about planning for retail verse wholesale, nonnative customers?
		planning for retain verse viriolesale, normative castomers.
1:55:35 PM	Chairman Chandler - witness Ma	athews
1:55:35 PM	Chairman Chandler - witness Ma Note: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale
	Note: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale sales?
1:55:35 PM 1:55:55 PM	Note: Sacre, Candace Chairman Chandler - witness Ma	Sales, want to say wholesale and retail but only have wholesale sales?
	Note: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner
	Note: Sacre, Candace Chairman Chandler - witness Ma	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently?
1:55:55 PM	Note: Sacre, Candace Chairman Chandler - witness Ma Note: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about
1:55:55 PM	Note: Sacre, Candace Chairman Chandler - witness Ma Note: Sacre, Candace Chairman Chandler - witness Ma	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve
1:55:55 PM 1:56:12 PM	Note: Sacre, Candace Chairman Chandler - witness Ma Note: Sacre, Candace Chairman Chandler - witness Ma Note: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers?
1:55:55 PM	Note: Sacre, Candace Chairman Chandler - witness Manager - Witnes	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers?
1:55:55 PM 1:56:12 PM	Note: Sacre, Candace Chairman Chandler - witness Ma Note: Sacre, Candace Chairman Chandler - witness Ma Note: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members?
1:55:55 PM 1:56:12 PM 1:57:02 PM	Note: Sacre, Candace Chairman Chandler - witness Manager - Witnes	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members?
1:55:55 PM 1:56:12 PM 1:57:02 PM	Note: Sacre, Candace Chairman Chandler - witness Man Note: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews
1:55:55 PM 1:56:12 PM 1:57:02 PM 1:57:11 PM	Note: Sacre, Candace Chairman Chandler - witness Manager - witness - witness Manager - witness Manager - witness Manager - witness - wi	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews Contracts have with three owner members beyond 15-year planning
1:55:55 PM 1:56:12 PM 1:57:02 PM 1:57:11 PM 1:57:20 PM	Note: Sacre, Candace Chairman Chandler - witness Manage Note: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews Contracts have with three owner members beyond 15-year planning horizon next IRP 2026?
1:55:55 PM 1:56:12 PM 1:57:02 PM 1:57:11 PM	Note: Sacre, Candace Chairman Chandler - witness Manager - Witnes	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews Contracts have with three owner members beyond 15-year planning horizon next IRP 2026?
1:55:55 PM 1:56:12 PM 1:57:02 PM 1:57:11 PM 1:57:20 PM 1:57:41 PM	Note: Sacre, Candace Chairman Chandler - witness Mandace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews Contracts have with three owner members beyond 15-year planning horizon next IRP 2026? athews Contracts have everyone else shorter or within 15-year planning horizon for next IRP?
1:55:55 PM 1:56:12 PM 1:57:02 PM 1:57:11 PM 1:57:20 PM	Note: Sacre, Candace Chairman Chandler - witness Mandace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews Contracts have with three owner members beyond 15-year planning horizon next IRP 2026? athews Contracts have everyone else shorter or within 15-year planning horizon for next IRP?
1:55:55 PM 1:56:12 PM 1:57:02 PM 1:57:11 PM 1:57:20 PM 1:57:41 PM 1:58:08 PM	Note: Sacre, Candace Chairman Chandler - witness Mandace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews Contracts have with three owner members beyond 15-year planning horizon next IRP 2026? athews Contracts have everyone else shorter or within 15-year planning horizon for next IRP? athews Shorter than 2043?
1:55:55 PM 1:56:12 PM 1:57:02 PM 1:57:11 PM 1:57:20 PM 1:57:41 PM	Note: Sacre, Candace Chairman Chandler - witness Mande: Sacre, Candace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews Contracts have with three owner members beyond 15-year planning horizon next IRP 2026? athews Contracts have everyone else shorter or within 15-year planning horizon for next IRP? athews Shorter than 2043?
1:55:55 PM 1:56:12 PM 1:57:02 PM 1:57:11 PM 1:57:20 PM 1:57:41 PM 1:58:08 PM	Note: Sacre, Candace Chairman Chandler - witness Mandace	Sales, want to say wholesale and retail but only have wholesale sales? athews Sales to folks who are not your three owner members or their owner members, think about differently? athews In next IRP, have anticipation call out difference in thinking about capacity serves own retail owner members verse capacity serve other wholesale customers? athews BREC has wholesale contracts with three owner members? athews Other contracts with other entities also provide services to? athews Contracts have with three owner members beyond 15-year planning horizon next IRP 2026? athews Contracts have everyone else shorter or within 15-year planning horizon for next IRP? athews Shorter than 2043?

1:59:38 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	Heard Burden testimony about post-2029 needing energy not just
		capacity, FAC hearings, idea of how operationally BREC buying
		selling producing and hedging, talk about practices employs
		accurately taken into account way utility modeling interaction energy
2-02-02 DM	Chairman Charallan with a A Mat	and capacity?
2:02:02 PM	Chairman Chandler - witness Mat	
2 02 10 011	Note: Sacre, Candace	Have copy of IRP?
2:02:10 PM	Chairman Chandler - witness Mat	
	Note: Sacre, Candace	Turn to 104, 7.1 power and planning model, last paragraph before
		7.11, starts EnCompass, says, reading (click on link for further
		comments), does utility merely economically dispatch generation and all it does on energy front?
2:04:15 PM	Chairman Chandler - witness Mat	- <i>,</i>
2.07.13 FI	Note: Sacre, Candace	Asking you, ever written check for other than LMP paying to MISO,
	Note: Sacre, Caridace	pay to hedge energy?
2:04:36 PM	Chairman Chandler - witness Mat	, , , , , , , , , , , , , , , , , , , ,
2.04.50114	Note: Sacre, Candace	Agree not simply not how participate in producing energy for owner
	Note: Sacre, Caridace	members?
2:05:00 PM	Chairman Chandler - witness Mat	
2.03.00 111	Note: Sacre, Candace	Only cost BREC employs not merely associated with least cost
	Note: Sacre, Caridace	dispatch of existing generation?
2:05:27 PM	Chairman Chandler - witness Mat	, , , , , , , , , , , , , , , , , , , ,
2.03.27 111	Note: Sacre, Candace	Agree likely judgment employed in hedging strategy?
2:05:53 PM	Chairman Chandler	rigide likely judgitient employed in fledging strategy.
2.03.33 111	Note: Sacre, Candace	Recess until 2:15.
2:06:14 PM	Session Paused	NGGGSS GIREN ETTST
2:17:24 PM	Session Resumed	
2:17:49 PM	Chairman Chandler	
2.17.113.111	Note: Sacre, Candace	Redirect?
2:17:55 PM	Chairman Chandler	redirect.
2.17.100 111	Note: Sacre, Candace	Objection to admitting Sierra Club Hearing Exhibit 2. (Click on link
	Note: Sacre, carrace	for further comments.)
2:17:56 PM	SIERRA CLUB HEARING EXHIBIT	
	Note: Sacre, Candace	ATTY SHRINATH SIERRA CLUB - WITNESS MATHEWS
	Note: Sacre, Candace	ENERGY COMMUNITY TAX CREDIT BONUS
2:18:45 PM	Chairman Chandler	
	Note: Sacre, Candace	Next witness?
2:18:49 PM	Atty Depp BREC	
	Note: Sacre, Candace	Christopher Warren.
2:18:56 PM	Chairman Chandler	
	Note: Sacre, Candace	Witness is sworn.
2:19:03 PM	Chairman Chandler - witness War	
	Note: Sacre, Candace	Examination. Name and address?
2:19:13 PM	Atty Depp BREC - witness Warrer	1
	Note: Sacre, Candace	Direct Examination. Title?
2:19:18 PM	Atty Depp BREC - witness Warrer	
	Note: Sacre, Candace	Sponsor responses?
2:19:22 PM	Atty Depp BREC - witness Warrer	·
	Note: Sacre, Candace	Updates or amendments?
2:19:26 PM	Atty Depp BREC - witness Warrer	·
	Note: Sacre, Candace	If asked same requests, answers be same?
2:19:30 PM	Atty Depp BREC - witness Warrer	·
	Note: Sacre, Candace	Adopt as testimony?
		1 1

2:19:33 PM	Atty Depp BREC - witness Warre	n
	Note: Sacre, Candace	Have materials on stand?
2:19:41 PM	Chairman Chandler	
	Note: Sacre, Candace	Questions?
2:19:51 PM	Atty Ozaeta Joint Intervenors - w	vitness Warren
	Note: Sacre, Candace	Cross Examination. Describe role at BREC?
2:20:05 PM	Atty Ozaeta Joint Intervenors - w	vitness Warren
	Note: Sacre, Candace	Explain involvement in IRP process?
2:20:16 PM	Atty Ozaeta Joint Intervenors - w	
	Note: Sacre, Candace	Direct attention to BREC response to comments, familiar with the
2 22 26 24		document?
2:20:26 PM	Atty Ozaeta Joint Intervenors - w	
	Note: Sacre, Candace	Direct attention to page 15, familiar with quote, build and hold
2:21:33 PM	Atty Ozaota Joint Intervenors w	approach, that's mentioned?
2.21.33 PM	Atty Ozaeta Joint Intervenors - w Note: Sacre, Candace	Section C, last sentence of first paragraph?
2:21:56 PM	Atty Ozaeta Joint Intervenors - w	, , ,
2.21.30 114	Note: Sacre, Candace	Appears approach BREC plan build excess capacity and maintain
	Note: Sacre, cariadee	that, sound right?
2:22:18 PM	Atty Ozaeta Joint Intervenors - w	·
	Note: Sacre, Candace	In light of Mathews statements fresh new look, BREC planning
	•	reevaluate plan?
2:23:01 PM	Atty Ozaeta Joint Intervenors - w	vitness Warren
	Note: Sacre, Candace	Also include 635 MW CC?
2:23:14 PM	Atty Ozaeta Joint Intervenors - w	vitness Warren
	Note: Sacre, Candace	Nonmember energy sales, page A-45 Appendix A to IRP, states
		BREC engages in selling to nonmembers where transactions, quote,
2 24 06 814		derive value for members, correct?
2:24:06 PM	Atty Ozaeta Joint Intervenors - w	
	Note: Sacre, Candace	Determine whether nonmember sales derive value BREC need to
2:24:20 PM	Atty Ozaeta Joint Intervenors - w	determine total revenue sales provide?
2.24.20 FM	Note: Sacre, Candace	Company also need determine cost of providing energy sales?
2:24:31 PM	Atty Ozaeta Joint Intervenors - w	· · ·
2.21.31111	Note: Sacre, Candace	Profit/value of sales difference between total revenue and total
	Note: Sacre, canadec	costs?
2:24:40 PM	Atty Ozaeta Joint Intervenors - w	
	Note: Sacre, Candace	Turn attention to Attachment 1 to JI Request 1-23, provides actual
	•	gross margin analysis nonmember contracts 2018 through 2023,
		correct?
2:25:44 PM	Atty Ozaeta Joint Intervenors - w	
	Note: Sacre, Candace	Just the actual from 2018 to 2013, believe forecasted for years after
		that?
2:25:55 PM	Atty Ozaeta Joint Intervenors - w	
2 26 04 514	Note: Sacre, Candace	At least the actual for 2018 through 2022?
2:26:01 PM	Atty Ozaeta Joint Intervenors - w	
	Note: Sacre, Candace	Bottom this Public Attachment 1, Nebraska revenues and expenses
2:26:14 PM	Atty Ozaeta Joint Intervenors - w	reported on a net basis?
2.20.17 FM	Note: Sacre, Candace	BREC not conduct net margin analysis for other nonmember
	Note: Sacre, Carluace	customer contracts?
2:27:14 PM	Atty Ozaeta Joint Intervenors - w	
=	Note: Sacre, Candace	Be in reference to also OMU contracts and KyMEA member
		contracts?

2:27:22 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
		But for Nebraska contract revenues and expenses, those are
		eported on net basis?
2:27:34 PM	Atty Ozaeta Joint Intervenors - witn	
		Explain why Nebraska contract revenues and expenses reported on net basis but KyMEA and OMU are not?
2:28:08 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
	b	Mentioned sometimes apply nonmember contracts to models to better understand net revenues, how determined contracts derive value for members?
2:29:09 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
	-	ooking forward, consideration evaluating net costs of nonmember ontracts?
2:29:50 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
		Direct to Response to JI 1-24(d), BREC in discussions with OMU ibout contract renewal?
2:31:01 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
		or KyMEA, BREC have discussions closer to end of contract?
2:31:15 PM	Atty Ozaeta Joint Intervenors - witn	
		Company analyzed renewal of nonmember contracts and whether provide value to members?
2:31:48 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
	-	lot presented in IRP?
2:32:01 PM	Atty Ozaeta Joint Intervenors - witn	
0.00.40.014	-	let margin analysis of nonmember contracts not presented in IRP?
2:32:13 PM	Atty Ozaeta Joint Intervenors - with	
2-22-2E DM	-	Specifically, renewal of nonmember contracts?
2:32:25 PM	Atty Ozaeta Joint Intervenors - with	
2:32:56 PM	Note: Sacre, Candace P Atty Ozaeta Joint Intervenors - witn	Provided gross margin cost basis?
2.32.30 PM	•	Gaid as part of position questions related to direct serve forecast,
	•	pest suited for you or someone else?
2:33:12 PM	Atty Ozaeta Joint Intervenors - with	·
	•	oad for direct serve contracts, had sponsored responses?
2:33:51 PM	Atty Ozaeta Joint Intervenors - witn	
	Note: Sacre, Candace R	Response to JI Request 1-24(d), in discussions with OMU and plan is o have discussions with KyMEA, if not renewed BREC considered now address loss of OMU if contract not renewed?
2:35:00 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
2:35:00 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
	Note: Sacre, Candace I	n the model for this IRP?
2:35:09 PM	Atty Ozaeta Joint Intervenors - witn	ess Warren
	Note: Sacre, Candace S	Same answer for KyMEA if BREC loss of contract?
2:35:28 PM	Chairman Chandler Note: Sacre, Candace M	1s. Huddleston?
2:35:55 PM	Atty Huddleston Sierra Club - witnes	
	•	Cross Examination. Director of Budgeting Planning and Forecasting?
2:36:07 PM	Atty Huddleston Sierra Club - witnes	
	Note: Sacre, Candace H	lear Mathews reference regulatory requirements for IRP?
2:36:16 PM	Atty Huddleston Sierra Club - witnes	ss Warren
		ware Kentucky law requires utilities furnish adequate efficient and easonable service?
2:36:22 PM	Atty Depp BREC	
	Note: Sacre, Candace C	Object. (Click on link for further comments.)

2:36:31 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Aware Kentucky regulation requires utilities to file IRPs and outline
	specifications?
2:36:40 PM	Atty Depp BREC
	Note: Sacre, Candace Same objection. (Click on link for further comments.)
2:36:50 PM	Atty Huddleston Sierra Club - witness Warren
2.30.30 FM	·
2-27-12 DM	,
2:37:13 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Aware as to requirements what utility must show if retires fossil fuel-
	fired generating unit?
2:37:26 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Someone at company aware of that?
2:37:32 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Aware anyone involved in IRP process aware of requirements of new
	laws?
2:37:50 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Involved in conversations about IRP and planning process?
2:37:59 PM	Atty Huddleston Sierra Club - witness Warren
2.37.33 111	Note: Sacre, Candace New retirement laws and impact discussed?
2:38:13 PM	Atty Huddleston Sierra Club - witness Warren
2.30.13 PM	·
2.20.20 DM	, ,
2:38:20 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Not aware of conversations that involved analysis of laws?
2:38:31 PM	Atty Depp BREC
	Note: Sacre, Candace Object. (Click on link for further comments.)
2:38:45 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Aware conversations involving IRP planning process as to how
	intersected with new retirement laws?
2:39:00 PM	Chairman Chandler
	Note: Sacre, Candace Overrule objection. (Click on link for further comments.)
2:39:14 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Having replacement capacity requires advance planning?
2:39:35 PM	Atty Huddleston Sierra Club - witness Warren
2.55.55 111	Note: Sacre, Candace How have thought about planning process, aware of requirement
	that BREC provide resource assessment and acquisition plan for
	providing adequate and reliable supply of electricity at lowest cost?
2:40:09 PM	Atty Huddleston Sierra Club - witness Warren
2.70.03 FM	,
2.40.2C DM	, , , , , , , , , , , , , , , , , , ,
2:40:36 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Aware whether plan must describe and discuss all options
2 42 42 214	considered?
2:40:40 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Aware as to whether plan must include description and discussion
	key assumptions and judgments?
2:40:53 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace When in middle school, teacher tell you to show your work?
2:41:05 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Familiar with instruction?
2:41:11 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace BREC IRP process involves requirement to show work?
2:41:24 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Adopted Berry Response to PSC 2-24?
2:41:32 PM	Atty Huddleston Sierra Club - witness Warren
と・コエ・プと ドバ	,
	Note: Sacre, Candace Turn to that response, specifically 2-24(c)?

2:41:52 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Response states, reading (click on link for further comments),
	correct?
2:42:03 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Response states, reading (click on link for further comments),
	correct?
2:42:16 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Substance of discussions reflected in IRP?
2:42:36 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Question about substance is represented in IRP?
2:43:00 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Considerations went into choice to do X, all considerations led to
	choice reflected in IRP?
2:44:11 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Part of discussion about moving retirement date of Wilson, shifting
	retirement date?
2:44:28 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Know why were not discussions about retirement date?
2:44:44 PM	Atty Depp BREC
	Note: Sacre, Candace Objection. (Click on link for further comments.)
2:44:50 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace No discussions are aware of?
2:44:57 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Know why no discussions other than what aware of?
2:45:06 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Aware anyone considered in IRP process modifying retirement date
	of Wilson?
2:45:41 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Know if IRP provides retirement date for Wilson?
2:45:57 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Turn back to response to 2-24C, response states requested
	additional modeling from Commission would, quote, reading (click
	on link for further comments), correct?
2:46:28 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Believe BREC need replace Wilson coal unit?
2:46:55 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Why is that?
2:47:01 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Why say think become part of conversation?
2:47:22 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Been discussion or any analysis of lifespan of BREC?
2:47:40 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Are Director of Budgeting Planning and Forecasting, who be better
	person to ask?
2:47:55 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace Of witnesses today, not sure?
2:48:17 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace And you are not aware of any such discussions or analysis?
2:48:24 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace In response, additional modeling require, 2-24C, would require,
	quote, reading (click on link for further comments), correct?
2:49:04 PM	Atty Huddleston Sierra Club - witness Warren
	Note: Sacre, Candace In response, point to two paragraphs where assumptions described?

2:49:25 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Nothing discusses retirement date for Wilson?	
2:49:50 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Where in IRP describe multiple fundamental baseline assumptions with respect Wilson?	
2:50:48 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Any more information as to how date chosen?	
2:51:01 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Does IRP process require consideration of uncertainties?	
2:51:15 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Who be right person?	
2:51:22 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Who in charge finalizing IRP?	
2:51:36 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Does IRP discuss actions BREC undertake in next 15 years to meet Clean Air Act and how affect resource assessment?	t
2:51:58 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Who be best person?	
2:52:01 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Maybe Wright, we can give it a try?	
2:52:15 PM	Atty Huddleston Sierra Club - witness Warren	
	Note: Sacre, Candace Generation mix, picked date for retirement or not consider multiple	e
	dates retirement of Wilson?	
2:52:53 PM	Chairman Chandler	
	Note: Sacre, Candace Questions?	
2:52:59 PM	Chairman Chandler	
	Note: Sacre, Candace Redirect?	
2:53:07 PM	Chairman Chandler	
	Note: Sacre, Candace Next witness?	
2:53:13 PM	Atty Depp BREC	
	Note: Sacre, Candace Michael Mizell.	
2:53:51 PM	Chairman Chandler	
	Note: Sacre, Candace Witness is sworn.	
2:53:58 PM	Chairman Chandler - witness Mizell	
	Note: Sacre, Candace Examination. Name and address?	
2:54:09 PM	Atty Depp BREC - witness Mizell	
	Note: Sacre, Candace Direct Examination. Title?	
2:54:14 PM	Atty Depp BREC - witness Mizell	
	Note: Sacre, Candace Sponsor responses?	
2:54:17 PM	Atty Depp BREC - witness Mizell	
	Note: Sacre, Candace Amendments or updates?	
2:54:20 PM	Atty Depp BREC - witness Mizell	
	Note: Sacre, Candace If asked those, answers remain same?	
2:54:23 PM	Atty Depp BREC - witness Mizell	
2 54 25 514	Note: Sacre, Candace Adopt as testimony?	
2:54:25 PM	Atty Depp BREC - witness Mizell	
2 54 22 514	Note: Sacre, Candace Have any materials?	
2:54:32 PM	Chairman Chandler	
2.54.40.514	Note: Sacre, Candace Questions?	
2:54:40 PM	Atty Cmar Joint Intervenors - witness Mizell	
2.54.54.584	Note: Sacre, Candace Cross Examination. What is position?	
2:54:54 PM	Atty Cmar Joint Intervenors - witness Mizell	
	Note: Sacre, Candace Involve keeping track of environmental regulations?	

2:55:07 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace As part of job, follow announcements from U S EPA?
2:55:17 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Familiar with announcements EPA made on April 25?
2:55:32 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Familiar with rule EPA finalized mercury and air toxic standards?
2:55:43 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Familiar with expression MATS?
2:55:48 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace MATS is mercury and air toxic standards?
2:55:51 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Reviewed final updated MATS rule?
2:55:57 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Aware EPA identified Wilson be affected by MATS rule?
2:56:15 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace BREC reviewed updated MATS rule assess whether Wilson affected?
2:56:37 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Know what specific changes EPA made to MATS rule might affect
	Wilson plant?
2:57:14 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Familiar change EPA made to limits Wilson need comply for filterable
	particulate matter?
2:57:31 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace What was change?
2:57:50 PM	Atty Cmar Joint Intervenors - witness Mizell
2 50 00 014	Note: Sacre, Candace Know what current limits are for Wilson?
2:58:00 PM	Atty Cmar Joint Intervenors - witness Mizell
2 50 42 514	Note: Sacre, Candace Have available responses to Sierra Club discovery requests?
2:58:12 PM	Atty Cmar Joint Intervenors - witness Mizell
2.E0.27 DM	Note: Sacre, Candace Response to SC 1-13?
2:58:27 PM	Atty Cmar Joint Intervenors - witness Mizell
2.E0.41 DM	Note: Sacre, Candace Was one of attachments current Title V permit for Wilson?
2:58:41 PM	Atty Cmar Joint Intervenors - witness Mizell
2.E0.44 DM	Note: Sacre, Candace And that attached to response?
2:58:44 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Looking at Attachment 1, Response to SC1-13, permit, turn to page 9 of 80, emission limits for particulate matter?
2:59:14 PM	Atty Cmar Joint Intervenors - witness Mizell
2.33.17111	Note: Sacre, Candace See permit limit of .030 lbs per MMBtu?
3:00:17 PM	Atty Cmar Joint Intervenors - witness Mizell
5.00.17 114	Note: Sacre, Candace Familiar with limit adopted by EPA in new MATS rules?
3:00:34 PM	Atty Cmar Joint Intervenors - witness Mizell
3.00.54111	Note: Sacre, Candace Exhibit on screen, recognize?
3:00:59 PM	Via Presentation Activated
3:01:02 PM	Atty Cmar Joint Intervenors - witness Mizell
3.01.02 114	Note: Sacre, Candace Reviewed materials EPA made available when announced update to
	MATS rule?
3:01:11 PM	Atty Cmar Joint Intervenors - witness Mizell
2.22.22.11	Note: Sacre, Candace Aware one was technical memo how affect certain power plants?
3:01:29 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Aware Wilson mentioned in this memo?
3:01:42 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Turn to page 5, discussion of Wilson plants?
	, , , , , , , , , , , , , , , , , , , ,

3:02:24 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Last three lines on bottom, see that sentence?
3:02:41 PM	Atty Cmar Joint Intervenors - witness Mizell
2-02-EC DM	Note: Sacre, Candace Continues, reading (click on link for further comments), see that?
3:02:56 PM	Atty Cmar Joint Intervenors - witness Mizell
3:03:05 PM	Note: Sacre, Candace Refresh recollection, limit adopted by EPA in final rule? Atty Cmar Joint Intervenors - witness Mizell
3.03.03 FM	Note: Sacre, Candace Memo goes on to say, reading (click on link for further comments)?
3:03:19 PM	Atty Cmar Joint Intervenors - witness Mizell
0.00.20	Note: Sacre, Candace At bottom there, continues next page, reading (click on link for
	further comments), see that?
3:03:44 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace EPA goes on to say, reading (click on link for further comments), see
	that?
3:04:02 PM	Atty Cmar Joint Intervenors - witness Mizell
2-04-12 DM	Note: Sacre, Candace Reviewed before?
3:04:12 PM	Atty Cmar Joint Intervenors - witness Mizell
3:04:32 PM	Note: Sacre, Candace Part of what discussing, something accessing reviewing final rule? Atty Cmar Joint Intervenors - witness Mizell
3.04.32 FM	Note: Sacre, Candace Timeframe for evaluating final rule require at Wilson?
3:05:12 PM	Atty Cmar Joint Intervenors - witness Mizell
0.00.12	Note: Sacre, Candace Explanation why EPA found average rate in excess of limit?
3:06:12 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Familiar with section included in BREC IRP about environmental
	requirements?
3:06:24 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Involved in drafting that section?
3:06:30 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Mercury and air toxic standards update rulemaking included in section of IRP?
3:06:46 PM	Atty Cmar Joint Intervenors - witness Mizell
3.00.10111	Note: Sacre, Candace Surprise to learn not mentioned?
3:06:50 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Why is that?
3:07:12 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Not think as part of possible future compliance costs rulemaking
	might require additional investment?
3:07:36 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Just discussing EPA found limit they set does require additional
3:08:02 PM	investment? Atty Cmar Joint Intervenors - witness Mizell
5.00.02 FM	Note: Sacre, Candace Not think possibility this could have affected Wilson been mentioned
	in IRP?
3:08:28 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace One of other rules EPA announced in April new greenhouse gas
	regulations under Section 111?
3:08:46 PM	Via Presentation Deactivated
3:08:47 PM	Atty Cmar Joint Intervenors - witness Mizell
2.00.00 084	Note: Sacre, Candace Reviewed that new rule?
3:09:00 PM	Chairman Chandler Note: Sacra Candaca Procedural discussion (Click on link for further comments.)
3:09:18 PM	Note: Sacre, Candace Procedural discussion. (Click on link for further comments.) Chairman Chandler
3.03.10 FM	Note: Sacre, Candace Mark as JI Hearing Exhibit 2, document titled BSER At-A-Glance.
	Hotel oders, candide Hark as stricting Exhibit 2, document didea both At A chance.

3:09:19 PM	JOINT INTERVENORS HEARING EXHIBIT 2 Note: Sacre, Candace ATTY CMAR JOINT INTERVENORS - WITNESS MIZELL
	Note: Sacre, Candace BSER AT-A-GLANCE
3:10:02 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Cross Examination (cont'd). Have what been marked JI Exhibit 2?
3:10:10 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Recognize this document?
3:10:18 PM	Atty Cmar Joint Intervenors - witness Mizell
2 40 25 514	Note: Sacre, Candace What is BSER?
3:10:25 PM	Atty Cmar Joint Intervenors - witness Mizell
3:10:40 PM	Note: Sacre, Candace Standard EPA implementing in new greenhouse gas rule?
3:10:40 PM	Atty Cmar Joint Intervenors - witness Mizell Note: Sacre, Candace Reviewed table before?
3:11:04 PM	Note: Sacre, Candace Reviewed table before? Atty Cmar Joint Intervenors - witness Mizell
3.11.07 FM	Note: Sacre, Candace Table posted on EPA website time of final rule, should reflect what
	EPA put in final rule, useful as illustrative exhibit, on this table are four columns?
3:12:10 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Two represent standards existing steam generators, and two represent standards new sources and reconstructed stationary combustion turbines?
3:12:20 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Far left column coal-fired boilers, see that?
3:12:35 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Under column, see where says existing coal long-term subcategory for units seeking operate beyond Jan 1 2039?
3:12:45 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Familiar what new rule requires under subcategory?
3:12:52 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace What does it require?
3:13:04 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace What is date by which?
3:13:14 PM	Atty Cmar Joint Intervenors - witness Mizell
2 42 20 214	Note: Sacre, Candace Earlier discussion with Mathews BREC views on CCS?
3:13:28 PM	Atty Cmar Joint Intervenors - witness Mizell
2.12.20 DM	Note: Sacre, Candace Mathews referenced technical people be involved in answering that?
3:13:30 PM	Atty Cmar Joint Intervenors - witness Mizell
3:13:37 PM	Note: Sacre, Candace Why not? Atty Cmar Joint Intervenors - witness Mizell
3.13.37 FM	Note: Sacre, Candace Are you one of those technical people?
3:13:44 PM	Atty Cmar Joint Intervenors - witness Mizell
3.13.77 TM	Note: Sacre, Candace BREC have view whether CCS with 90 percent capture feasible have
	installed and operating on Wilson?
3:14:25 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace BREC looked into amount of energy required to run CCS at Wilson site?
3:14:36 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Looked at it in a different context?
3:14:54 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Recall what projections be?
3:15:28 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace For IRP BREC modeled aggressive carbon reduction scenario?
3:15:43 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Involved in providing inputs?

3:15:52 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Have input into what modeled?
3:15:57 PM	Atty Cmar Joint Intervenors - witness Mizell
2-16-00 DM	Note: Sacre, Candace Parasitic load included what modeled?
3:16:08 PM	Atty Cmar Joint Intervenors - witness Mizell
2,17,12 DM	Note: Sacre, Candace Why not?
3:17:12 PM	Atty Cmar Joint Intervenors - witness Mizell Note: Sacre, Candace Back to table, long-term subcategory, also discusses medium-term?
3:17:31 PM	Atty Cmar Joint Intervenors - witness Mizell
5.17.51111	Note: Sacre, Candace Be requirements units seeking to operate beyond Jan 1 2032 but
	retire before Jan 1 2039?
3:17:48 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Familiar with requirements?
3:17:52 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace What are they?
3:18:12 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace BREC looked into what be required comply if were opt in to medium-
	term category?
3:18:28 PM	Atty Cmar Joint Intervenors - witness Mizell
2 40 24 24	Note: Sacre, Candace Why is that?
3:18:34 PM	Atty Cmar Joint Intervenors - witness Mizell
2.10.E0 DM	Note: Sacre, Candace In general?
3:18:58 PM	Atty Cmar Joint Intervenors - witness Mizell
3:19:38 PM	Note: Sacre, Candace Estimated those costs? Atty Cmar Joint Intervenors - witness Mizell
3:19:30 PM	Note: Sacre, Candace Know if someone else aware?
3:19:53 PM	Atty Cmar Joint Intervenors - witness Mizell
3.13.33 114	Note: Sacre, Candace Estimate provided in response to post-hearing data request if
	document exists, know if it exists?
3:19:54 PM	POST-HEARING DATA REQUESTS
	Note: Sacre, Candace ATTY CMAR JOINT INTERVENORS - WITNESS MIZELL
	Note: Sacre, Candace COST ESTIMATE FOR RUNNING GAS TO WILSON TO COMPLY IF
	BREC OPT IN, IF DOCUMENT EXISTS
3:21:20 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace This table, requirements for new sources, new stationary CTs,
2-22-00 PM	discussion about status of BREC plans to seek approval of NGCC?
3:22:00 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Have understanding whether BREC plan for NGCC constructed as baseload plant?
3:22:38 PM	Atty Cmar Joint Intervenors - witness Mizell
3.22.30 111	Note: Sacre, Candace New EPA rule and table, familiar with requirements if NGCC required
	to operate new EPA rule, what be requirements operate baseload
	plant?
3:23:30 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Just read portion under Phase 1?
3:23:50 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Understanding under new rule for new NGCC operate at capacity
	greater than 40 percent comply with requirement?
3:24:24 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace If wanted comply running as intermediate generator, limiting
2,24,50 014	capacity factor to less than 40 percent?
3:24:58 PM	Atty Cmar Joint Intervenors Note: Sacre, Candace Move admission of JI 2. (Click on link for further comments.)
3:26:26 PM	Note: Sacre, Candace Move admission of JI 2. (Click on link for further comments.) JOINT INTERVENORS HEARING EXHIBIT 2
J.20.20 FIVI	Note: Sacre, Candace ATTY CMAR JOINT INTERVENORS - WITNESS MIZELL
	HOLE, SUCIE, CHIMICE ATTT CHIMIC SOLITI THE ENGLISHED WITHLESS MILELLE

2 26 20 24	Note: Sacre, Candace BSER AT-A-GLANCE
3:26:38 PM	Atty Cmar Joint Intervenors - witness Mizell Note: Sacre, Candace Cross Examination (cont'd). Sponsored response to SC 1-7?
3:27:01 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace If reading response correctly, saying for 2023 Wilson emitted 497 tons of NOx during ozone season granted allowances for 609 tons emissions?
3:27:32 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Correct Good Neighbor plan reduce allowances granted to BREC over time?
3:27:46 PM	Atty Cmar Joint Intervenors - witness Mizell Note: Sacre, Candace BREC calculated what reductions would be?
3:28:40 PM	Atty Cmar Joint Intervenors - witness Mizell
3.20.40114	Note: Sacre, Candace Good Neighbor Plan also has daily backstop emissions rate?
3:28:48 PM	Atty Cmar Joint Intervenors - witness Mizell
31201 10 111	Note: Sacre, Candace Able achieve daily backstop limit running SCR at Wilson?
3:28:58 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Currently run SCR at Wilson 100 percent of the time?
3:29:18 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Times where BREC runs Wilson without SCR?
3:29:29 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace For IRP in this case, know assumptions BREC incorporated cost of running SCR at Wilson?
3:29:47 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Provide any information like that in modeling?
3:30:11 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace In terms of operational costs of running SCR, included in what was modeled?
3:30:20 PM	Atty Cmar Joint Intervenors - witness Mizell
2 20 20 214	Note: Sacre, Candace Something Christensen would know?
3:30:38 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Another recently announced rules new rule affecting CCR regulations?
3:30:48 PM	Atty Cmar Joint Intervenors - witness Mizell
2 24 02 014	Note: Sacre, Candace Referred to as Legacy Rule?
3:31:02 PM	Atty Cmar Joint Intervenors - witness Mizell
3:31:13 PM	Note: Sacre, Candace Burden when asked about JI 2-54 referenced name, remember?
3.31.13 PM	Atty Cmar Joint Intervenors - witness Mizell Note: Sacre, Candace Have that response?
3:31:16 PM	Atty Cmar Joint Intervenors
3.31.10111	Note: Sacre, Candace Could that be provided? (Click on link for further comments.)
3:32:00 PM	Atty Cmar Joint Intervenors - witness Mizell
3.02.00	Note: Sacre, Candace Reference speak to was in subpart B, reading (click on link for
	further comments), see that?
3:32:24 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Can explain why BREC believes that?
3:33:12 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Rule now been finalized?
3:33:19 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Know what require at Coleman?
3:34:06 PM	Atty Cmar Joint Intervenors - witness Mizell
2.24.45 514	Note: Sacre, Candace Know if Coleman has such areas?
3:34:15 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Have legacy pond at Coleman?

3:35:41 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Know if timeframe associated with conducting analysis?
3:35:49 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace One just referenced from 2020 ECR docket?
3:35:56 PM	Atty Cmar Joint Intervenors - witness Mizell
	Note: Sacre, Candace Know if BREC internally has timeframe for that?
3:36:53 PM	Chairman Chandler
	Note: Sacre, Candace Procedural discussion. (Click on link for further comments.)
3:37:12 PM	Chairman Chandler
	Note: Sacre, Candace Recess until 3:50.
3:37:35 PM	Session Paused
3:59:12 PM	Session Resumed
3:59:49 PM	Chairman Chandler
	Note: Sacre, Candace Back on the record.
3:59:52 PM	Chairman Chandler
	Note: Sacre, Candace Counsel, questions?
3:59:54 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Cross Examination. Questions on environmental compliance, BREC
	stated, reading (click on link for further comments), familiar?
4:00:32 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Asked in discovery BREC evaluation of proposed Section 111(d)
	greenhouse gas emissions rule, correct?
4:00:42 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace In response, stated, reading (click on link for further comments),
	correct?
4:01:01 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Refer BREC Response to SC-5?
4:01:18 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace As confirmed, Section 111(d) rule no longer proposed but been
	finalized, correct?
4:01:32 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Environmental compliance costs associated with rule not
	speculative?
4:01:42 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace By that measure, cost complying with any regulation is unknown,
	right?
4:01:53 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Explain?
4:02:40 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Alternative methods of complying with rule?
4:02:48 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Have there been changes to greenhouse gas rule as relates to
	Wilson?
4:03:09 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Changes materially affect regulations on coal plants?
4:03:25 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Yet, BREC not incorporate planning for 111(d) into IRP?
4:03:31 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Not even as alternate scenario?
4:04:22 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Model costs due to carbon regulations but not planning for 111(d)?
4:05:19 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace When conduct studies, dealing with variables and uncertainties?

4:05:28 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Familiar with compliance time lines?
4:05:34 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC analyzed cost retiring Wilson in 2032 and replacing?
4:05:42 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC analyzed cost retiring Wilson in 2035 by co-firing with 20
4:05:55 PM	percent gas after 2030 and replacing 2035? Atty Shrinath Sierra Club - witness Mizell
4.05.55 PM	Note: Sacre, Candace BREC analyzed cost retiring Wilson in 2040 by co-firing with 40
	percent gas after 2030 and replacing in 2040?
4:06:06 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace To operate Wilson past 2032, only analyzed installing CTS?
4:06:18 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Said today CCS not commercially available, not economically viable?
4:06:25 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace And quite expensive?
4:06:50 PM	Atty Shrinath Sierra Club - witness Mizell
4 07 42 514	Note: Sacre, Candace Given that, why BREC not analyzed earlier retirement scenarios?
4:07:13 PM	Atty Shrinath Sierra Club - witness Mizell
4:07:25 PM	Note: Sacre, Candace Not all scenarios require CTS?
4:07:25 PM	Atty Shrinath Sierra Club - witness Mizell Note: Sacre, Candace But BREC analyze cost of pursuing co-firing and natural gas at site?
4:07:40 PM	Atty Shrinath Sierra Club - witness Mizell
1.07.10111	Note: Sacre, Candace Those not analogous, are they?
4:07:55 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC intends replace Wilson in 2045?
4:08:19 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Yet, BREC not modeled what replacement resources might look like?
4:08:35 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Know what levelized cost of electricity is for Wilson?
4:08:51 PM	Atty Shrinath Sierra Club
	Note: Sacre, Candace Project SC-3 EPA CCS cost estimates. (Click on link for further
4:09:04 PM	comments.) Atty Shrinath Sierra Club - witness Mizell
7.05.07 FM	Note: Sacre, Candace Seen this analysis before?
4:09:07 PM	Via Presentation Activated
4:09:18 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace EPA spreadsheet analyzing cost of CCS?
4:09:30 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace D B Wilson, scroll over total costs, CCS estimated add \$24 per
	megawatt hour marginal operating cost?
4:09:46 PM	Atty Shrinath Sierra Club - witness Mizell
4 40 42 514	Note: Sacre, Candace Cost of CCS could be even higher?
4:10:13 PM	Atty Depp BREC
	Note: Sacre, Candace Do not believe have a copy of this. (Click on link for further comments.)
4:11:40 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC not incorporate costs into IRP analysis?
4:11:49 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Why is that?
4:12:07 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Sounds like final GHG rule would be in interest of members to see
	what costs retire BREC and replace?

4:13:08 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Time to do that analysis right now?
4:13:21 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Resource planning?
4:13:52 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Capacity derated, familiar?
4:14:10 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Shows 200 MW derating from retrofitting Wilson with CCS, correct?
4:14:40 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Reflects energy penalty from running CCS, lower capacity of Wilson?
4:15:04 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace CCS not enable Wilson to serve as capacity resource?
4:15:36 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC intend modify IRP to incorporate GHG rule?
4:15:46 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace IRP, page 95, says, reading (click on link for future comments), what does that mean?
4:16:29 PM	Atty Shrinath Sierra Club - witness Mizell
1.10.25114	Note: Sacre, Candace And finalization of rule not necessitate modification of IRP?
4:16:40 PM	Atty Shrinath Sierra Club - witness Mizell
1110110111	Note: Sacre, Candace Sierra Club also asked about BREC planning regarding EPA proposed
	mercury and air toxics rule?
4:16:50 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Finalized in Federal Register?
4:17:00 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Environmental costs not speculative any more?
4:17:10 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Been changes to rule as relates to Wilson?
4:17:37 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC not analyzed costs complying with MATS rule?
4:17:42 PM	Via Presentation Deactivated
4:18:03 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC objected on grounds, reading (click on link for further
	comments), could answer Sierra Club data request?
4:19:45 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Respond to that in post-hearing data request, update data request?
4:19:46 PM	POST-HEARING DATA REQUEST
	Note: Sacre, Candace ATTY SHRINATH SIERRA CLUB - WITNESS MIZELL
	Note: Sacre, Candace RESPONSE TO SIERRA CLUB DATA REQUEST 1-11 NOW THAT
4 40 52 514	MATS RULE FINALIZED
4:19:53 PM	Atty Shrinath Sierra Club - witness Mizell
4-20-04 DM	Note: Sacre, Candace Know what are fine particulate matter emissions at Wilson?
4:20:04 PM	Atty Shrinath Sierra Club - witness Mizell
4.20.22 DM	Note: Sacre, Candace In compliance with final MATS rule?
4:20:22 PM	Atty Shrinath Sierra Club - witness Mizell
4.21.00 DM	Note: Sacre, Candace Refer to SC-6, aware EPA published technical memo? Video Conference Activated
4:21:09 PM	Camera Lock Wireless Mic Cam Activated
4:21:11 PM 4:21:14 PM	Camera Lock Wireless Mic Cam Activated Camera Lock Deactivated
4:21:14 PM 4:21:22 PM	Via Presentation Activated
4:21:22 PM 4:21:25 PM	Atty Shrinath Sierra Club - witness Mizell
7.21.23 FM	Note: Sacre, Candace Published spreadsheet detailing compliance costs?
	Note: Jacie, Candace rubiished spreadsheet detailing compliance costs:

4:21:47 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace EPA estimates Wilson reduce emissions by 72 tons comply with
	limit?
4:22:10 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace EPA estimates cost ratepayers \$88,162 annually to comply with this
4 22 22 24	rule?
4:22:30 PM	Video Conference Deactivated
4:22:39 PM	Atty Shrinath Sierra Club - witness Mizell
4.22.42 DM	Note: Sacre, Candace Likely these what costs be to comply?
4:22:43 PM	Atty Shrinath Sierra Club - witness Mizell Note: Sacre, Candace But said no costs associated with rule?
4:23:03 PM	Note: Sacre, Candace But said no costs associated with rule? Atty Shrinath Sierra Club - witness Mizell
T.23.03 FM	Note: Sacre, Candace Operated below 0.06 standard?
4:23:15 PM	Atty Shrinath Sierra Club - witness Mizell
7.23.13 114	Note: Sacre, Candace Aware also 0.06 standard for fine particulate matter?
4:23:22 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace EPA estimates Wilson have to reduce FPM emissions by 192 tons to
	comply with MATS rule?
4:23:48 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace EPA estimates cost ratepayers \$10.776 million annually to comply?
4:24:06 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Explain again what is data that disputes this?
4:24:26 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Why EPA publish this data just last month?
4:24:57 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Aware EPA published in Jan 2023 tactical memo outlining compliance costs by unit for draft MATS rule?
4:25:12 PM	Atty Shrinath Sierra Club - witness Mizell
7.23.12 114	Note: Sacre, Candace And those not included in IRP?
4:25:16 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Aware costs actually higher than these costs?
4:25:34 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace In post-hearing data request, explain why costs not actual and why
	Wilson in compliance with MATS rule?
4:25:35 PM	POST-HEARING DATA REQUEST
	Note: Sacre, Candace ATTY SHRINATH SIERRA CLUB - WITNESS MIZELL
	Note: Sacre, Candace EXPLAIN WHY COSTS NOT ACTUAL AND WHY WILSON IN
4:26:04 PM	COMPLIANCE WITH MATS RULE
4.20.04 PM	Atty Shrinath Sierra Club - witness Mizell Note: Sacre, Candace If costs are real, be incurred by BREC members?
4:26:27 PM	Atty Shrinath Sierra Club - witness Mizell
1.20.27 111	Note: Sacre, Candace IRP requires resources lowest cost?
4:26:34 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Yet, BREC not projecting building into the IRP likely costs?
4:26:47 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace By actual cost, actual compliance costs with out-of-date rule?
4:27:03 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Data in IRP, shared with intervenors?
4:27:15 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Sierra Club asked about EPA effluent limitations guidelines?
4:27:29 PM	Atty Shrinath Sierra Club - witness Mizell
4 07 07 5	Note: Sacre, Candace Been changes to rule as relates to Wilson?
4:27:37 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC analyzed cost of complying with LG rule?

4:28:02 PM	Via Presentation Deactivated	
4:28:05 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	BREC intend modify IRP to incorporate analysis?
4:28:12 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	Even if are anticipated costs?
4:28:51 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	Sierra Club also asked about EPA coal ash rule?
4:28:58 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	Rule has been finalized?
4:29:08 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	Changes to rule as relates to Wilson?
4:30:10 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	Any information in IRP cost cleaning up coal ash pond?
4:30:19 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	BREC part of efforts to challenge rule?
4:30:34 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	BREC part of efforts?
4:30:38 PM	Atty Shrinath Sierra Club - witness	
	Note: Sacre, Candace	If look at IRP, page 100, it says, reading (click on link for further
4 00 54 54		comments)?
4:30:51 PM	Atty Shrinath Sierra Club - witness	
4-21-00 DM	Note: Sacre, Candace	Challenges failed?
4:31:00 PM	Atty Shrinath Sierra Club - witness	
4.21.10 DM	Note: Sacre, Candace	When said met challenges, meant ongoing challenges?
4:31:18 PM	Atty Shrinath Sierra Club - witness	
4:31:36 PM	Note: Sacre, Candace	So if rule challenged, BREC not analyze cost?
4.31.30 PM	Atty Shrinath Sierra Club - witness Note: Sacre, Candace	Projection to IRP zero cost because of challenge?
4:31:46 PM	Atty Shrinath Sierra Club - witness	
T.31.70 FM	Note: Sacre, Candace	The coal ash rule?
4:31:52 PM	Atty Shrinath Sierra Club - witness	
1.51.52 111	Note: Sacre, Candace	For anybody?
4:32:44 PM	Atty Shrinath Sierra Club - witness	· · ·
	Note: Sacre, Candace	For IRP, BREC not include projected costs related any of proposed
	, commence	rules, four rules discussed?
4:33:14 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	All four rules finalized and adopted last month?
4:33:21 PM	Atty Shrinath Sierra Club - witness	s Mizell
	Note: Sacre, Candace	SC-4, aware BREC website demonstrating compliance coal
		combustion residuals been down?
4:33:30 PM	Via Presentation Activated	
4:33:50 PM	Atty Shrinath Sierra Club - witness	
	Note: Sacre, Candace	2015 CCR rule requires BREC maintain site up to date?
4:34:13 PM	Atty Shrinath Sierra Club - witness	
	Note: Sacre, Candace	BREC not consider cost of complying with Good Neighbor plan,
4 2 4 2 2 2 2 4	V. B	implementation plan in litigation?
4:34:29 PM	Via Presentation Deactivated	A.C. II
4:34:58 PM	Atty Shrinath Sierra Club - witness	
	Note: Sacre, Candace	BREC notes Wilson emitted 497 tons of NOx emissions 2023 ozone season?
4:35:17 PM	Atty Shrinath Sierra Club - witness	
T.JJ.1/ [1]	Note: Sacre, Candace	Wilson received 609 NOx ozone season allowances from EPA to
	ration Sucre, Canadace	cover actual emissions?

4:35:20 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace But BREC not receive 609 NOx ozone season allowances under
	federal implementation plan if litigation concluded?
4:35:37 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Refer to SC-5, underlying data for proposed rule, seen this before?
4:36:06 PM	Via Presentation Activated
4:36:45 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Aware of this spreadsheet?
4:37:08 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Shows estimated NOx allowances under FIPs under Good Neighbor
	plan, make sense to you?
4:37:29 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace If look illustrative 2026 NOx OS allocation, see lower allocations, if
	look at top name of document, Good Neighbor plan unit level
	allocations and underlying data?
4:37:53 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Subject to check?
4:38:43 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Wilson may have to reduce NOx emissions substantially?
4:39:03 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Is incorrect?
4:40:16 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Should not analysis be in IRP if analyzing potential costs?
4:40:35 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Published in 2022?
4:40:41 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace BREC not model core uncertainty Wilson costs in IRP?
4:40:50 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Point me to where that analysis is in IRP?
4:41:03 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Kentuckians have to take word for it instead of IRP?
4:41:23 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Not included in IRP?
4:41:33 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace IRP regulations require BREC, quote, reading (click on link for
	further comments), correct?
4:41:53 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Retrofitting Wilson with CCS meeting electricity requirements lowest
	possible cost?
4:42:02 PM	Via Presentation Deactivated
4:42:08 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Compared that cost to other scenarios?
4:42:14 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Retiring Wilson and compare that to costs of CCS?
4:42:34 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Provide analysis difference in cost keep Wilson online and alternative
	resources?
4:43:20 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace How possibly know what lowest cost scenario is?
4:44:16 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace Not show in IRP that analysis?
4:44:24 PM	Atty Shrinath Sierra Club - witness Mizell
	Note: Sacre, Candace What percentage BREC capacity provided or energy provided by
	Wilson?

4:44:33 PM	Atty Shrinath Sierra Club - witnes	
	Note: Sacre, Candace	Say Wilson is a driver of repair costs?
4:44:46 PM	Atty Shrinath Sierra Club - witnes	
	Note: Sacre, Candace	Based on position, BREC no obligation analyze more cost-effective resource mixes?
4:44:56 PM	Atty Shrinath Sierra Club - witness	
	Note: Sacre, Candace	Where BREC analyze cost keeping resources online against alternative resources?
4.45.12 DM	Atty Chrinath Ciarra Club witnes	
4:45:13 PM	Atty Shrinath Sierra Club - witnes Note: Sacre, Candace	Do analysis at all?
4:45:38 PM	Atty Shrinath Sierra Club - witnes	·
1. 15.50 1 14	Note: Sacre, Candace	Given language in regulations, appropriate place do analysis the
4.45.56 DM	Att. Chrisath Ciarra Club witness	IRP?
4:45:56 PM	Atty Shrinath Sierra Club - witnes	
	Note: Sacre, Candace	IRP regulations require BREC include actual and projected costs in model?
4:46:12 PM	Atty Shrinath Sierra Club - witnes	
	Note: Sacre, Candace	Project costs based on EPA proposed rules?
4:46:26 PM	Atty Shrinath Sierra Club - witnes	
4.46.55.514	Note: Sacre, Candace	All costs projected in IRP a hundred percent airtight?
4:46:55 PM	Atty Shrinath Sierra Club - witnes	
4.47.07 DM	Note: Sacre, Candace	If it was \$24 per megawatt hour?
4:47:07 PM	Atty Shrinath Sierra Club - witnes	
	Note: Sacre, Candace	Contention EPA numbers and costs so unreliable they should not be included in IRPs at all?
4:47:38 PM	Atty Shrinath Sierra Club - witnes	s Mizell
	Note: Sacre, Candace	BREC could do projections, could project costs based on proposed
		rules?
4:48:11 PM	Atty Shrinath Sierra Club - witnes	
	Note: Sacre, Candace	None of this analysis in IRP, in IRP BREC not include any compliance costs?
4:48:33 PM	Atty Shrinath Sierra Club - witnes	
	Note: Sacre, Candace	Not specific to any of five rules discussed?
4:48:42 PM	Chairman Chandler	
4-40-00 DM	Note: Sacre, Candace	Ms. Cohn?
4:49:00 PM	Atty Cohn KIUC - witness Mizell	Current Francisco teles tells about FDA 111 miles are discussed 111
	Note: Sacre, Candace	Cross Examination. Also talk about EPA 111 rules, as discussed, 111 rules established CCS with 90% capture as the BSER for new natural
4:49:15 PM	Atty Cohn KIUC - witness Mizell	gas-fired baseload units by 2032?
ייוז כנו.פדוד	Note: Sacre, Candace	New natural gas-fired units defined as those with capacity factor
	Note. Sacre, Candace	greater than 40 percent?
4:49:22 PM	Atty Cohn KIUC - witness Mizell	
	Note: Sacre, Candace	Testified technology not commercially available?
4:49:37 PM	Atty Cohn KIUC - witness Mizell	
	Note: Sacre, Candace	No utility using technology now?
4:49:49 PM	Atty Cohn KIUC - witness Mizell	
	Note: Sacre, Candace	Have estimate as to capital costs new natural gas-fired unit 90% CCS?
4:50:52 PM	Atty Cohn KIUC	
	Note: Sacre, Candace	Mark as KIUC Hearing Exhibit 1?
4:50:53 PM	KIUC HEARING EXHIBIT 1	
	Note: Sacre, Candace	ATTY COHN KIUC - WITNESS MIZELL

	Note: Sacre, Candace	U.S. ENERGY INFORMATION ADMINISTRATION MARCH 2023 COST AND PERFORMANCE CHARACTERISTICS OF NEW GENERATING TECHNOLOGIES
4:51:03 PM	Atty Cohn KIUC - witness Mizell Note: Sacre, Candace	Familiar with these types of reports from EIA?
4:51:13 PM	Atty Cohn KIUC - witness Mizell	ranillar with these types of reports from LIA:
4:51:20 PM	Note: Sacre, Candace Atty Cohn KIUC - witness Mizell	Snippet of Annual Energy Outlook from 2023?
4.51.20 PM	Note: Sacre, Candace	Turn to page 2, total overnight cost column, down list combined cycle with 90% CCS on here, see it?
4:51:50 PM	Atty Cohn KIUC - witness Mizell Note: Sacre, Candace	Reflects total overnight cost is \$3,140 per kilowatt?
4:52:08 PM	Atty Cohn KIUC - witness Mizell	Reflects total overlight cost is \$5,1 to per knowate:
1132100111	Note: Sacre, Candace	Above there, combined cycle with multi-shaft, says cost is \$1,176 per kilowatt?
4:52:24 PM	Atty Cohn KIUC - witness Mizell	
	Note: Sacre, Candace	Could it be less costly option if BREC constructed two combined- cycle multi-shafts and operated below baseload threshold rather than combined cycle at 90% CCS?
4:52:53 PM	Atty Cohn KIUC - witness Mizell	,
	Note: Sacre, Candace	Heard say BREC still evaluating impact April rules, conclusions now how rules change IRP, or is too soon?
4:53:46 PM	Atty Cohn KIUC - witness Mizell	
4.E4.14 DM	Note: Sacre, Candace	Expect any rules regarding existing natural gas units be issued?
4:54:14 PM	Atty Cohn KIUC - witness Mizell	Affect recourse planning part IDD2
4:54:23 PM	Note: Sacre, Candace Chairman Chandler	Affect resource planning next IRP?
T.JT.ZJ FI1	Note: Sacre, Candace	Questions?
4:54:30 PM	Staff Atty Colyer PSC - witness M	•
	Note: Sacre, Candace	Cross Examination. When it comes to use of low/medium, high carbon scenarios, decided at BREC level or decided by 1898?
4:54:50 PM	Staff Atty Colyer PSC - witness M	izell
	Note: Sacre, Candace	How decide on percentages?
4:55:02 PM	Staff Atty Colyer PSC - witness M	izell
	Note: Sacre, Candace	Dollars?
4:55:58 PM	Staff Atty Colyer PSC - witness M	
4 56 24 014	Note: Sacre, Candace	Just for informational purposes, impact on selection of preferred portfolio?
4:56:21 PM	Staff Atty Colyer PSC - witness M	
4:56:25 PM	Note: Sacre, Candace Staff Atty Colyer PSC - witness M	Outcome for base portfolio?
4.30.23 PM	Note: Sacre, Candace	Somewhere in modeling carbon pricing applied before looking at
	Note: Sacre, canade	low/mid/high CO2 sensitivities?
4:56:44 PM	Staff Atty Colyer PSC - witness M	izell
	Note: Sacre, Candace	Turning to IRP page 162, table, unredacted version?
4:57:09 PM	Staff Atty Colyer PSC - witness M	
4 57 55 50	Note: Sacre, Candace	For base portfolio and alternative portfolio low/mid/ high CO2 sensitivities, which way costs go, up or down?
4:57:55 PM	Staff Atty Colyer PSC - witness M	
4.E0.02 DM	Note: Sacre, Candace	And for alternative scenario?
4:58:03 PM	Staff Atty Colyer PSC - witness M Note: Sacre, Candace	ızeıi And for aggressive carbon reduction portfolio?
4:58:32 PM	Staff Atty Colyer PSC - witness M	·
1130132 1 11	Note: Sacre, Candace	Which one more expensive?
	,	•

4:58:37 PM	Staff Atty Colyer PSC - witness Mizell
4.F0.41 DM	Note: Sacre, Candace Which one least expensive?
4:58:41 PM	Staff Atty Colyer PSC - witness Mizell
4:59:00 PM	Note: Sacre, Candace Explain why higher CO2 sensitivity result in lower cost? Staff Atty Colyer PSC - witness Mizell
4.59.00 PM	Note: Sacre, Candace Table, page 146, Sierra Club asked about parasitic load, not familiar
	with term, know why significantly different percentage for NGCC versus Wilson being coal fired?
5:00:51 PM	Staff Atty Colyer PSC - witness Mizell
	Note: Sacre, Candace Modeling with carbon capture include costs for disposing CO2 after carbon capture?
5:01:31 PM	Staff Atty Colyer PSC - witness Mizell
	Note: Sacre, Candace Part of job analyzing effect of 278.264 change to standard for retiring fossil fuel powered plants?
5:02:03 PM	Staff Atty Colyer PSC - witness Mizell
	Note: Sacre, Candace Give me an overview how statute affected IRP process?
5:02:18 PM	Staff Atty Colyer PSC - witness Mizell
	Note: Sacre, Candace Passed in March of 2023, filed in September, did all planning by then?
5:02:34 PM	Staff Atty Colyer PSC - witness Mizell
	Note: Sacre, Candace How think statute affect that modeling and future IRP modeling?
5:03:13 PM	Staff Atty Colyer PSC - witness Mizell
	Note: Sacre, Candace My understanding based on BREC response PSC 1-47(c), Christensen responded decisions regarding retirement of Wilson made at beginning of process, new statute played role in decision, accurate?
5:04:35 PM	Chairman Chandler
	Note: Sacre, Candace Commissioner?
5:04:37 PM	Chairman Chandler - witness Mizell
5:04:37 PM	Chairman Chandler - witness Mizell Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make?
5:04:37 PM 5:05:25 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell
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	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Agree environmental compliance cost one of most significant capital
5:05:25 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Agree environmental compliance cost one of most significant capital costs considered whether retire or replace generator? Chairman Chandler - witness Mizell Note: Sacre, Candace Talking about environmental compliance cost tens of millions of dollars per unit?
5:05:25 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Agree environmental compliance cost one of most significant capital costs considered whether retire or replace generator? Chairman Chandler - witness Mizell Note: Sacre, Candace Talking about environmental compliance cost tens of millions of dollars per unit? Chairman Chandler - witness Mizell
5:05:25 PM 5:05:38 PM 5:05:54 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Agree environmental compliance cost one of most significant capital costs considered whether retire or replace generator? Chairman Chandler - witness Mizell Note: Sacre, Candace Talking about environmental compliance cost tens of millions of dollars per unit? Chairman Chandler - witness Mizell Note: Sacre, Candace Be unreasonable assume no environmental compliance costs on going forward capital basis like Wilson?
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5:05:25 PM 5:05:38 PM 5:05:54 PM 5:06:15 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Agree environmental compliance cost one of most significant capital costs considered whether retire or replace generator? Chairman Chandler - witness Mizell Note: Sacre, Candace Talking about environmental compliance cost tens of millions of dollars per unit? Chairman Chandler - witness Mizell Note: Sacre, Candace Be unreasonable assume no environmental compliance costs on going forward capital basis like Wilson? Chairman Chandler - witness Mizell Note: Sacre, Candace What recommend to modeler, in light of know what environmental compliance schemes are, on recurring cycles of review by EPA?
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5:05:25 PM 5:05:38 PM 5:05:54 PM 5:06:15 PM 5:06:56 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Is it reasonable assumption assume portion of past costs what incur in past proxy for future, expected but unknown?
5:05:25 PM 5:05:38 PM 5:05:54 PM 5:06:15 PM 5:06:56 PM 5:07:28 PM 5:12:03 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Agree environmental compliance cost one of most significant capital costs considered whether retire or replace generator? Chairman Chandler - witness Mizell Note: Sacre, Candace Talking about environmental compliance cost tens of millions of dollars per unit? Chairman Chandler - witness Mizell Note: Sacre, Candace Be unreasonable assume no environmental compliance costs on going forward capital basis like Wilson? Chairman Chandler - witness Mizell Note: Sacre, Candace What recommend to modeler, in light of know what environmental compliance schemes are, on recurring cycles of review by EPA? Chairman Chandler - witness Mizell Note: Sacre, Candace Not a new endangerment finding, know suite of applicable rules, just not know what allowable level is or emissions reduction? Chairman Chandler - witness Mizell Note: Sacre, Candace Is it reasonable assumption assume portion of past costs what incur in past proxy for future, expected but unknown? Session Paused
5:05:25 PM 5:05:38 PM 5:05:54 PM 5:06:15 PM 5:06:56 PM 5:07:28 PM 5:12:03 PM 5:23:49 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Agree environmental compliance cost one of most significant capital costs considered whether retire or replace generator? Chairman Chandler - witness Mizell Note: Sacre, Candace Talking about environmental compliance cost tens of millions of dollars per unit? Chairman Chandler - witness Mizell Note: Sacre, Candace Be unreasonable assume no environmental compliance costs on going forward capital basis like Wilson? Chairman Chandler - witness Mizell Note: Sacre, Candace What recommend to modeler, in light of know what environmental compliance schemes are, on recurring cycles of review by EPA? Chairman Chandler - witness Mizell Note: Sacre, Candace Not a new endangerment finding, know suite of applicable rules, just not know what allowable level is or emissions reduction? Chairman Chandler - witness Mizell Note: Sacre, Candace Is it reasonable assumption assume portion of past costs what incur in past proxy for future, expected but unknown? Session Paused Session Resumed
5:05:25 PM 5:05:38 PM 5:05:54 PM 5:06:15 PM 5:06:56 PM 5:07:28 PM 5:12:03 PM	Note: Sacre, Candace Examination. If Wilson modeled without environmental compliance costs post-2026, reasonable assumption to make? Chairman Chandler - witness Mizell Note: Sacre, Candace Agree environmental compliance cost one of most significant capital costs considered whether retire or replace generator? Chairman Chandler - witness Mizell Note: Sacre, Candace Talking about environmental compliance cost tens of millions of dollars per unit? Chairman Chandler - witness Mizell Note: Sacre, Candace Be unreasonable assume no environmental compliance costs on going forward capital basis like Wilson? Chairman Chandler - witness Mizell Note: Sacre, Candace What recommend to modeler, in light of know what environmental compliance schemes are, on recurring cycles of review by EPA? Chairman Chandler - witness Mizell Note: Sacre, Candace Not a new endangerment finding, know suite of applicable rules, just not know what allowable level is or emissions reduction? Chairman Chandler - witness Mizell Note: Sacre, Candace Is it reasonable assumption assume portion of past costs what incur in past proxy for future, expected but unknown? Session Paused

5:24:50 PM	Chairman Chandler - witness Miz	zell
	Note: Sacre, Candace	What position been?
5:25:42 PM	Chairman Chandler - witness Miz	zell
	Note: Sacre, Candace	Either best available information or proxy expected but unknown costs?
5:25:50 PM	Chairman Chandler - witness Miz	
	Note: Sacre, Candace	Unreasonable to assume no costs?
5:26:00 PM	Chairman Chandler	
0.20.00	Note: Sacre, Candace	Redirect?
5:26:06 PM	Chairman Chandler	real est.
5120100111	Note: Sacre, Candace	Next witness?
5:26:19 PM	Atty Buckley BREC	TOXE METEOST
3120113111	Note: Sacre, Candace	Christopher Bradley.
5:26:30 PM	Atty Cohn KIUC	amstopher studie,
3.20.30 111	Note: Sacre, Candace	Move for admission now? (Click on link for further comments.)
5:27:21 PM	Atty Cohn KIUC	Tiove for duffission flow. (Click of link for farther comments.)
3.27.21111	Note: Sacre, Candace	Move for admission of KIUC 1. (Click on link for further comments.)
5:27:22 PM	KIUC HEARING EXHIBIT 1	Prove for duffission of Rice 1. (Click of link for further comments.)
J.27.22 TM	Note: Sacre, Candace	ATTY COHN KIUC - WITNESS MIZELL
	Note: Sacre, Candace	U.S. ENERGY INFORMATION ADMINISTRATION MARCH 2023 COST
	Note: Sacre, Candace	AND PERFORMANCE CHARACTERISTICS OF NEW GENERATING
		TECHNOLOGIES, ANNUAL ENERGY OUTLOOK 2023
5:27:32 PM	Atty Shrinath Sierra Club	
0.27.02	Note: Sacre, Candace	Move admission SC 3, 4, 5, 6. (Click on link for further comments.)
5:28:36 PM	Chairman Chandler	
5120130111	Note: Sacre, Candace	Objections? (Click on link for further comments.)
5:28:49 PM	Chairman Chandler	especialist (ellectrimitation refusion commence)
51201.15111	Note: Sacre, Candace	Grant SC 3, 4, 5, and 6.
5:28:50 PM	SIERRA CLUB HEARING EXHIBIT	
3120130 111	Note: Sacre, Candace	ATTY SHRINATH SIERRA CLUB - WITNESS MIZELL
	Note: Sacre, Candace	EPA CCS COST ESTIMATES
5:28:51 PM	SIERRA CLUB HEARING EXHIBIT	
3.20.31 111	Note: Sacre, Candace	ATTY SHRINATH SIERRA CLUB - WITNESS MIZELL
	Note: Sacre, Candace	BIG RIVERS CCR COMPLIANCE WEBSITE
5:28:52 PM	SIERRA CLUB HEARING EXHIBIT	
3120132 111	Note: Sacre, Candace	ATTY SHRINATH SIERRA CLUB - WITNESS MIZELL
	Note: Sacre, Candace	EPA 2022 GOOD NEIGHBOR PLAN UNIT LEVEL ALLOCATIONS
5:28:53 PM	SIERRA CLUB HEARING EXHIBIT	
3120133 111	Note: Sacre, Candace	ATTY SHRINATH SIERRA CLUB - WITNESS MIZELL
	Note: Sacre, Candace	COMPLIANCE COST DETAILS
5:29:36 PM	Chairman Chandler	301 II EN INGE 3301 DE 171223
3123130111	Note: Sacre, Candace	Witness is sworn.
5:29:44 PM	Chairman Chandler - witness Bra	
3.23.11111	Note: Sacre, Candace	Examination. Name and address?
5:29:56 PM	Atty Buckley BREC - witness Brad	
3.23.30 111	Note: Sacre, Candace	Direct Examination. By whom employed?
5:30:01 PM	Atty Buckley BREC - witness Brad	· · · · · · · · · · · · · · · · · · ·
3.30.01111	Note: Sacre, Candace	Title?
5:30:05 PM	Atty Buckley BREC - witness Brad	
5.50.05 111	Note: Sacre, Candace	Sponsor responses?
5:30:09 PM	Atty Buckley BREC - witness Brad	·
3.30.03 111	Note: Sacre, Candace	Changes or additions?
5:30:13 PM	Atty Buckley BREC - witness Brad	-
3.30.13 111	Note: Sacre, Candace	If asked same questions, responses be same?
	riote: Jacie, Carluace	in danca sume questions, responses be suffic:

Note: Sacre, Candace Note: Sac	5:30:17 PM	Atty Buckley BREC - witness Bradley
Chairman Chandler Note: Sacre, Candace Ouestions?	3.30.17 114	, , , , , , , , , , , , , , , , , , ,
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5:31:38 PM Note: Sacre, Candace Note: Sacre, Candac	5:31:13 PM	
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5:32:30 PM	5:32:23 PM	· · ·
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require either?		· · · · · · · · · · · · · · · · · · ·
		require either?

5:36:36 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Currently studying whether transmission upgrades necessary?
5:36:45 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Come to any preliminary conclusions?
5:37:03 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Fair to say would be costs?
5:37:30 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Indicated as person responded to JI Supplemental Request 2-61?
5:37:49 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace You and Berry responded different parts?
5:37:58 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Was filing prior to hearing indicating adoption of responses?
5:38:17 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Your response Part A?
5:38:22 PM	Atty Gary Joint Intervenors - witness Bradley
E 20 20 PM	Note: Sacre, Candace Question references Question 1-8 Attorney General?
5:38:38 PM	Atty Gary Joint Intervenors - witness Bradley
E 20 E0 DM	Note: Sacre, Candace Review that in preparation for response to this question?
5:38:59 PM	Atty Gary Joint Intervenors - witness Bradley
E-20-02 DM	Note: Sacre, Candace Not have with you right now?
5:39:02 PM	Atty Gary Joint Intervenors
	Note: Sacre, Candace Be provided with copy of AG 1-8. (Click on link for further
5:39:32 PM	comments.) Atty Gary Joint Intervenors - witness Bradley
J.J9.J2 FI1	Note: Sacre, Candace Verifying what says request from AG asked about, reading (click on
	link for further comments), is that right?
5:39:49 PM	Atty Gary Joint Intervenors - witness Bradley
0.001.0	Note: Sacre, Candace Berry responded that, reading (click on link for further comments), is
	that right?
5:40:05 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Indicated in response JI 2-61 not evaluated what excess of inverter-
	based resources constitute?
5:40:19 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Said were following developments at FERC and NERC?
5:40:44 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Falls within your responsibility?
5:40:54 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace In footnote, cited two documents?
5:41:01 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Say what those are?
5:41:21 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Read both?
5:41:25 PM	Atty Gary Joint Intervenors - witness Bradley
- 44 00 04	Note: Sacre, Candace Ask questions be able answer?
5:41:32 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Recall discussed or shared findings from FERC or NERC with
F. 42.12 DM	anybody else at BREC?
5:42:12 PM	Atty Gary Joint Intervenors - witness Bradley
5:42:15 PM	Note: Sacre, Candace Had discussions at BREC reliability updates from other agencies? Atty Gary Joint Intervenors - witness Bradley
7.42.12 FIV	Note: Sacre, Candace Borrowing from FERC order, material impact on operation bulk
	power system in order not have to do with intermittent nature of
	inverter-based resources?

5:42:46 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Has to do how respond to grid?
5:42:52 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Not have to do with intermittency?
5:43:11 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace FERC order not deal with that?
5:43:19 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Agree FERC order and NERC reports recognize potential inverter-based resources?
5:43:29 PM	Atty Gary Joint Intervenors - witness Bradley
J.7J.29 FIN	Note: Sacre, Candace NERC report specifically said, reading (click on link for further
	comments), sound familiar?
5:43:40 PM	Atty Gary Joint Intervenors - witness Bradley
3. 13. 10 1 1 1	Note: Sacre, Candace Would you agree with that?
5:43:45 PM	Atty Gary Joint Intervenors - witness Bradley
3. 13. 13 1 1 1	Note: Sacre, Candace FERC order said, reading (click on link for further comments), sound
	familiar?
5:43:51 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Would you agree with that, too?
5:44:04 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Potential advantage inverter-based resources, track grid down to
	millisecond level, right?
5:44:19 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Overall purpose of FERC order updated reliability standards?
5:44:27 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Not set limits on inverter-based resources integrated as part reliability standards?
5:44:38 PM	Atty Gary Joint Intervenors - witness Bradley
3.11.30111	Note: Sacre, Candace Specifically ordered data sharing model validation planning and
	operational study and performance requirements?
5:44:55 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace FERC order expressed concern high penetration of IBRs?
5:45:00 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Say within BREC territory high penetration of IBRs?
5:45:15 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Would say right now there is?
5:45:26 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Responded to questions about PACE project?
5:45:34 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Indicated PACE not submitted into MISO interconnection queue?
5:45:44 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Been submitted to queue now?
5:45:47 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Why is that?
5:45:53 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Not have specific site owned or within control?
5:46:06 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Pause from MISO on queue not only reason not submitted?
5:46:16 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace BREC participates in MISO transmission expansion plan or MTEP?
5:46:26 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Submit projects into plan?

5:46:32 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Submitted or contributed to transmission expansion projects within BREC territory?
5:46:42 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Say how many?
5:46:56 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Comments on projects and modeling submitted to INTEP?
5:47:06 PM	Atty Gary Joint Intervenors - witness Bradley
3117100111	Note: Sacre, Candace But not track BREC comments?
5:47:30 PM	Atty Gary Joint Intervenors - witness Bradley
3.17.30111	Note: Sacre, Candace Keep log of any communication with MISO?
5:47:58 PM	Atty Gary Joint Intervenors - witness Bradley
3117130111	Note: Sacre, Candace Recall what comments on?
5:48:06 PM	Atty Gary Joint Intervenors - witness Bradley
3. 10.00 111	Note: Sacre, Candace Describe what is?
5:48:27 PM	Atty Gary Joint Intervenors - witness Bradley
3.10.27 111	Note: Sacre, Candace If were to ask for comments, able disclosed?
5:48:35 PM	Atty Gary Joint Intervenors
3. 10.33 111	Note: Sacre, Candace Post-hearing data request on tranche 2. (Click on link for further
	comments.)
5:48:36 PM	POST-HEARING DATA REQUEST
51 10156 1 1 1	Note: Sacre, Candace ATTY GARY JOINT INTERVENORS - WITNESS BRADLEY
	Note: Sacre, Candace TRANCHE 2, MISO LONG-RANGE TRANSMISSION EXPANSION PLAN
	INCLUDING INITIAL SET OF TRANSMISSION PROJECTS
5:48:44 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Refer to response to JI 1-66, previous comments provided not
	tracked or logged, correct?
5:49:12 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Response to question, studies or analysis participation in MISO
	transmission planning process, stated, reading (click on link for
	further comments), is that right?
5:49:35 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace But not apply to comments just talking about?
5:49:50 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Participated in MISO summer coordinated seasonal assessment or
	CSA, is that right?
5:49:58 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Is also considered CII?
5:50:03 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Across all studies talked about found no need increase net import
	capability?
5:50:11 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Outline scenarios evaluated as part of that?
5:50:43 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Include new generation as well?
5:50:58 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Not a hypothetical in case of new generation?
5:51:13 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Not have included acquiring low-cost resources available outside
	territory as way meet load?
5:51:40 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace When say outages, temporary derates, not long-term
	decommissioning?
5:51:50 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Not studied whether that be possibility?

5:52:40 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Indicated have examined possibility of MISO PJM interconnection?
5:52:50 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Through EKPC?
5:53:08 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Not warrant further investigation?
5:53:25 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Not done deep dive since 2010?
5:53:44 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace What be referring to PJM and MISO announced collaborate on informational interregional transfer capability study?
5:54:01 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace So familiar with that?
5:54:07 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace BREC have role to play in study?
5:54:25 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Aware of timeline for that?
5:54:30 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Read announcement PJM MISO?
5:54:38 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Aware organizations stated they believe that, reading (click on link
	for further comments)?
5:54:50 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Familiar with the interregional planning stakeholder advisory
	committee?
5:54:57 PM	Atty Gary Joint Intervenors - witness Bradley
	Note: Sacre, Candace Something you follow?
5:55:10 PM	Chairman Chandler
	Note: Sacre, Candace Questions?
5:56:00 PM	Staff Atty Colyer PSC - witness Bradley
	Note: Sacre, Candace Cross Examination. To your knowledge, merchant solar facilities
	seeking interconnection in BREC territory?
5:56:20 PM	Chairman Chandler
	Note: Sacre, Candace Redirect?
5:56:27 PM	Chairman Chandler
	Note: Sacre, Candace Next witness?
5:56:30 PM	Atty Buckley BREC
	Note: Sacre, Candace Terry Wright, Jr.
5:56:35 PM	Chairman Chandler
	Note: Sacre, Candace Procedural discussion. (Click on link for further comments.)
5:57:30 PM	Chairman Chandler
	Note: Sacre, Candace Witness is sworn.
5:57:36 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace Examination. Name and address?
5:58:04 PM	Atty Buckley BREC - witness Wright
	Note: Sacre, Candace Direct Examination. By whom employed?
5:58:08 PM	Atty Buckley BREC - witness Wright
	Note: Sacre, Candace Title?
5:58:11 PM	Atty Buckley BREC - witness Wright
	Note: Sacre, Candace Sponsor responses?
5:58:15 PM	Atty Buckley BREC - witness Wright
	Note: Sacre, Candace Are materials brought with you?
5:58:22 PM	Atty Buckley BREC - witness Wright
	Note: Sacre, Candace Clarifications or additions?

5:58:58 PM	Atty Buckley BREC - witness Wright
	Note: Sacre, Candace Any other changes or additions?
5:59:07 PM	Atty Buckley BREC - witness Wright
	Note: Sacre, Candace If asked same questions, give same answers?
5:59:25 PM	Chairman Chandler
	Note: Sacre, Candace Questions?
5:59:35 PM	Atty Ozaeta Joint Intervenors - witness Wright
E EO EO DM	Note: Sacre, Candace Cross Examination. Describe role at BREC?
5:59:52 PM	Atty Ozaeta Joint Intervenors - witness Wright
C-00-00 DM	Note: Sacre, Candace Was role during development of IRP?
6:00:08 PM	Atty Ozaeta Joint Intervenors - witness Wright
C.00.24 DM	Note: Sacre, Candace Explain involvement in IRP process?
6:00:34 PM	Atty Ozaeta Joint Intervenors - witness Wright
6.00.E4 DM	Note: Sacre, Candace Who back up?
6:00:54 PM	Atty Ozaeta Joint Intervenors - witness Wright
6:01:00 PM	Note: Sacre, Candace Have responses?
0.01.00 PM	Atty Ozaeta Joint Intervenors - witness Wright Note: Sacre, Candace Responses to JI 1-19C, directs to response to JI 1-19B?
6:01:47 PM	Atty Ozaeta Joint Intervenors - witness Wright
0.01. 1 7 FM	Note: Sacre, Candace Believe response directed, said please see?
6:01:54 PM	Atty Ozaeta Joint Intervenors - witness Wright
0.01.54114	Note: Sacre, Candace Yeah, 19B, correct?
6:01:58 PM	Atty Ozaeta Joint Intervenors - witness Wright
0.01.30 111	Note: Sacre, Candace Response to JI 1-19B sponsored by Sekeres and Fenrick of
	Clearspring, familiar with it?
6:02:20 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace Direct to response to JI Request 1-19B?
6:02:36 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace It states, reading (click on link for further comments), familiar with
	approach?
6:02:57 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace Response to 1-20C, familiar also applied to direct serve class as
	well?
6:03:15 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace Direct to response to JI Request 1-21, familiar with their response?
6:03:55 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace According to response, direct serve customer sales projected 48.1
6:04:10 PM	percent native system sales by 2024?
0:04:10 PM	Atty Ozaeta Joint Intervenors - witness Wright Note: Sacre, Candace IRP at page A-43, Appendix A, chart on this page shows BREC direct
	serve customer sales were 28.8 percent in 2022?
6:05:06 PM	Atty Ozaeta Joint Intervenors - witness Wright
0.05.00 114	Note: Sacre, Candace Appendix A, at A-33, first paragraph, states, reading (click on link for
	further comments)?
6:05:50 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace Fair to assume two additional direct serve customers be increasing
	direct serve portion native system sales 28.8 percent to 48.1
	percent?
6:06:17 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace Significant increase due to one if not both?
6:06:26 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace Customer expected added in 2023 or the one in 2024?
6:06:45 PM	Atty Ozaeta Joint Intervenors - witness Wright
	Note: Sacre, Candace Statement made of addition one consumer in 2023, would be it?

6:06:58 PM	Atty Ozaeta Joint Intervenors - witr	ness Wright
	Note: Sacre, Candace	Came on as direct serve customer as expected?
6:07:20 PM	Atty Ozaeta Joint Intervenors - witr	ness Wright
		When say bit lower than expected, explain how much lower?
6:07:48 PM	Chairman Chandler - witness Wrigh	
	·	Examination. Clarification, mean further in sense demand be
		higher?
6:07:55 PM	Chairman Chandler - witness Wrigh	
C 00 12 DM		Or start increasing ramp faster?
6:08:12 PM	Chairman Chandler - witness Wrigh	
C.00.24 DM		Expected demand in excess what previously anticipated in this IRP?
6:08:24 PM	Atty Ozaeta Joint Intervenors - witr Note: Sacre, Candace	Cross Examination (cont'd). Of two new consumers, this consumer
		come with more significant load?
6:08:38 PM	Atty Ozaeta Joint Intervenors - witr	-
0.00.50111		Was significant delay?
6:08:49 PM	Atty Ozaeta Joint Intervenors - witr	.
	•	Did say significant delay though?
6:09:03 PM	Atty Ozaeta Joint Intervenors - witr	, -
	•	Is that common?
6:09:37 PM	Atty Ozaeta Joint Intervenors - witr	ness Wright
	Note: Sacre, Candace	Since do contribute, contributions to overall load and demand
	•	significant?
6:09:55 PM	Atty Ozaeta Joint Intervenors - witr	ness Wright
	Note: Sacre, Candace	As for customer expected added 2024, come online?
6:10:08 PM	Atty Ozaeta Joint Intervenors - witr	ness Wright
	·	Occur as expected?
6:10:22 PM	Atty Buckley BREC	
		Want to be careful about confidentiality. (Click on link for further
C 11 00 DM		comments.)
6:11:00 PM	Atty Ozaeta Joint Intervenors - witr	
		In 2013 and 2014, BREC experienced how significant affect and reduce overall load when lost smelters in service area?
6:11:27 PM	Atty Ozaeta Joint Intervenors - witr	
0.11.27 114	•	Reviewed BREC response to intervenor comments, have those?
6:12:10 PM	Atty Ozaeta Joint Intervenors - witr	·
0112110 111	•	Response comments, page 9, last paragraph, states, reading, (click
	•	on link for further comments), correct?
6:13:00 PM	Atty Ozaeta Joint Intervenors - witr	
		Beneficial learn from past experiences and evaluate alternative
	9	scenario when direct serve sales not remain steady?
6:13:52 PM	Atty Ozaeta Joint Intervenors - witr	-
	•	Agree still have significant impact?
6:14:10 PM	Atty Ozaeta Joint Intervenors - witr	_
	·	Confirm way direct serve forecasted remain steady 2029 through
C 14 46 DM		2042?
6:14:46 PM	Atty Ozaeta Joint Intervenors - witr	-
C.15.00 DM		As far as managing risk, more risk?
6:15:09 PM	Atty Ozaeta Joint Intervenors - witr	_
		Response intervenor comments, page 15, along same lines, states, reading (click on link for further comments), correct?
6:16:16 PM	Atty Ozaeta Joint Intervenors - witr	
0.10.10 11	•	IRP page A-34, Appendix A, shows that from 2024 through 2042 18
	•	direct serve customers?
	·	

6 47 67 514	AU 0 1 7 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
6:17:07 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Do direct serve customers have sales agreements with expiration		
	terms?		
6:17:40 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Not need to renew agreement to remain in class?		
6:17:55 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Expiration of terms as direct serve customers affect load for class?		
6:18:27 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Still considered direct serve class?		
6:18:43 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Was information expiration terms factored in to forecast direct serve		
	class?		
6:19:44 PM	Chairman Chandler		
	Note: Sacre, Candace Recess until 6:50.		
6:20:15 PM	Session Paused		
6:59:01 PM	Session Resumed		
6:59:42 PM	Chairman Chandler		
	Note: Sacre, Candace Back on the record.		
6:59:47 PM	Chairman Chandler		
	Note: Sacre, Candace Counsel, continue?		
6:59:55 PM	Atty Depp BREC		
	Note: Sacre, Candace May I make one suggestion? (Click on link for further comments.)		
7:00:17 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Cross Examination (cont'd). Terms of direct serve customer		
	required to stay in service area until terms expire??		
7:01:00 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace For customers who have specific terms, although expire stay in		
	class, contract terms indicative when might leave service area?		
7:01:29 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace BREC conduct risk analysis considers whether conditions or events		
	occur would affect multiple customers?		
7:02:05 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Familiar with percent differences?		
7:02:19 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Outside IRP process BREC conduct risk analysis?		
7:02:38 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace As part of fresh look, BREC consider conducting risk analysis direct		
= 00 40 5 14	serve class leave area/operations ending?		
7:03:18 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace DSM programs, adopted a few of Berry responses?		
7:03:37 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Explain why adopted responses related to DSM?		
7:04:09 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Felt might be appropriate person to answer?		
7:04:24 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace BREC have plans to develop new DSM programs?		
7:05:08 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Apply to residential customers as well?		
7:06:04 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace BREC not have plans make DSM filings next few years?		
7:06:27 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace BREC has DSM potential study on file?		

7.06.2F DM	Att. Ornata Jaint Intonianara, witness Weight		
7:06:35 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace That study shows increased spending on DSM benefit BREC customers?		
7:06:50 PM	Atty Ozaeta Joint Intervenors - witness Wright		
7.00.50 114	Note: Sacre, Candace Agree maximizing amount cost effective energy efficiency company		
	pursues is benefit?		
7:07:20 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace IRP only modeled one-million-dollar budget?		
7:07:30 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Consider other alternatives to budget?		
7:07:41 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Just to confirm, no alternatives, correct?		
7:07:45 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Agree important goal avoid need spend money on new generation in		
	future?		
7:07:57 PM	Atty Ozaeta Joint Intervenors - witness Wright		
	Note: Sacre, Candace Agree avoided costs new generation in future are benefits save		
7.00.14 DM	customers money?		
7:08:14 PM	Atty Ozaeta Joint Intervenors - witness Wright		
7,00,22 DM	Note: Sacre, Candace Something should be evaluated future IRPs?		
7:08:23 PM	Atty Ozaeta Joint Intervenors - witness Wright Note: Sacre, Candace Just that one option?		
7:08:31 PM	Chairman Chandler		
7.00.51 114	Note: Sacre, Candace Ms. Huddleston?		
7:08:47 PM	Atty Huddleston Sierra Club - witness Wright		
7.00.17 111	Note: Sacre, Candace Cross Examination. Were back-up IRP planner?		
7:09:03 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace By end of IRP, primary?		
7:09:21 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace When was that?		
7:09:28 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Familiar with Kentucky requirements utilities furnish adequate		
	efficient and reasonable service?		
7:09:42 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Familiar with requirements that utilities provide fair just and		
7 00 FF DM	reasonable rates?		
7:09:55 PM	Atty Huddleston Sierra Club - witness Wright		
7,10,12 DM	Note: Sacre, Candace Familiar with KRS 278.262 and 278.264?		
7:10:12 PM	Atty Huddleston Sierra Club - witness Wright Note: Sacre, Candace Familiar with requirements what utility must show to retire fossil fuel		
	generating unit?		
7:10:26 PM	Atty Huddleston Sierra Club - witness Wright		
7110120111	Note: Sacre, Candace State what BREC need to show to retire Wilson?		
7:11:00 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Having capacity requires advance planning?		
7:11:07 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace BREC begun advanced planning for Wilson?		
7:11:18 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Planned retirement date?		
7:11:34 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Why is that?		
7:11:50 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Here for Burden questioning about GADS data?		

7:11:58 PM	Atty Huddloston Ciarra Club witness Wright		
7.11.30 PM	Atty Huddleston Sierra Club - witness Wright Note: Sacre, Candace Say a plant with that profile in 2022 consistently ran every day in		
	2022?		
7:12:24 PM			
7.12.21111	Note: Sacre, Candace Would a year be sufficient to evaluate reliability?		
7:12:32 PM	Atty Huddleston Sierra Club - witness Wright		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Note: Sacre, Candace If a plant exhibited profile saw 2022 for Wilson, say plant reliable?		
7:13:08 PM	Atty Huddleston Sierra Club - witness Wright		
7.120.00	Note: Sacre, Candace What level derate make unreliable?		
7:13:20 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace What equivalent availability factor make it unreliable?		
7:13:44 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Post-hearing data request if asked about factor, able provide?		
7:13:45 PM	POST-HEARING DATA REQUEST		
	Note: Sacre, Candace ATTY HUDDLESTON SIERRA CLUB - WITNESS WRIGHT		
	Note: Sacre, Candace EQUIVALENT AVAILABILITY FACTOR		
7:14:08 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace IRP stated Wilson highly reliable, know what factors used to reach		
	determination?		
7:14:25 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Know of analysis or study done by company?		
7:14:36 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace In IRP process, assessment of factor determining that Wilson highly		
7.14.F4 DM	reliable?		
7:14:54 PM	Atty Huddleston Sierra Club - witness Wright Note: Sacre, Candace Who is they?		
7:15:04 PM	Note: Sacre, Candace Who is they? Atty Huddleston Sierra Club - witness Wright		
7.13.0 1 FM	Note: Sacre, Candace In IRP process, aware of regulations require BREC provide resource		
	assessment acquisition plan?		
7:15:31 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Aware before today?		
7:15:40 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Guiding factor in IRP process?		
7:15:49 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Aware IRP consider impacts of selected key uncertainties and		
	include options?		
7:16:06 PM	Atty Huddleston Sierra Club - witness Wright		
7-16-21 DM	Note: Sacre, Candace Was requirement guiding part of creation of IRP?		
7:16:21 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Where in IRP discuss actions 15 years meet Clean Air Act amendments and how affect resource assessment?		
7:16:48 PM	Atty Huddleston Sierra Club - witness Wright		
7.10.10111	Note: Sacre, Candace Reviewed IRP?		
7:16:53 PM	Atty Huddleston Sierra Club - witness Wright		
7110100	Note: Sacre, Candace But not review IRP for compliance with requirements?		
7:17:01 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Not identify where in IRP?		
7:17:20 PM	Atty Huddleston Sierra Club - witness Wright		
	Note: Sacre, Candace Questions?		
7:17:30 PM	Staff Atty Hatcher PSC - witness Wright		
	Note: Sacre, Candace Cross Examination. Response first request, Item 9, PSC 1-9, Table		
	7.4.1A, confirm member peak CP used in last column BREC CP to		
	MISO CP factor using table in Item 9?		

7:19:33 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Confirm member peak CP used in 7.1.6A derived by subtracting
	BREC CP to MISO CP factor?
7:20:02 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Explain whether base case member peak from 7.1.6A same peak used when calculating table in 7.4.1A?
7:20:28 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Ask that a post-hearing data request?
7:20:29 PM	POST-HEARING DATA REQUEST
	Note: Sacre, Candace STAFF ATTY HATCHER PSC - WITNESS WRIGHT
	Note: Sacre, Candace EXPLAIN WHETHER BASE CASE MEMBER PEAK FROM 7.1.6a SAME PEAK USED WHEN CALCULATING FIGURES IN 7.4.1A
7:20:40 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Last Staff Report, Practice Manual Resource Adequacy No. 11, states, reading (click on link for further comments), how account for nonmember sales, other contracted demand, and demand and energy forecasts?
7:22:07 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Any difference wholesale customer and nonmember customer?
7:22:25 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace What does it mean for BREC?
7:22:55 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace Examination. By non-native, mean in-use customers not owner members of your owner members?
7:23:13 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Cross Examination (cont'd). Confirm nonmember sales not included in PRMR?
7:23:27 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Next, refer to BREC Response to Staff First, Item 47-C and will read it, reading (click on link for further comments), also refer to Staff Second, Item 27, where states, reading (click on link for further comments), how reconcile differences?
7:24:03 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace How reconcile difference between extensions not modeled as probability of extension unknown with statement nonmember contracts renewed?
7:25:10 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace But plan from BREC renew them?
7:25:32 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace BREC run hypothetical scenarios that include contract renewals?
7:25:42 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Why not?
7:25:57 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Explain how ZRC transfer works?
7:26:20 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Said not model for IRP, modeled it in other situations?
7:26:46 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace BREC use same forecast in IRP as provides to MISO?
7:27:15 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Similar analysis for each load forecast?
7:27:54 PM	Staff Atty Hatcher PSC - witness Wright
7-20 50 514	Note: Sacre, Candace For what purpose MISO use forecasts?
7:28:50 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Where capacity for ZRC transfer come?

7:29:39 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace Confirm sack value comes from units and no MISO in general?
7:29:53 PM	Staff Atty Hatcher PSC - witness Wright
7 20 14 514	Note: Sacre, Candace How often BREC file updated load forecast with RUS?
7:30:14 PM	Staff Atty Hatcher PSC - witness Wright
7-21-02 DM	Note: Sacre, Candace BREC know whether RUS interested in resource selections for IRP?
7:31:02 PM	Staff Atty Hatcher PSC - witness Wright
	Note: Sacre, Candace DSM programming, what discussions had regarding cost-effective
7,22,17 DM	DSM programs presented in study? Chairman Chandler - witness Wright
7:32:17 PM	<u> </u>
7:32:39 PM	Note: Sacre, Candace Examination. Each year annual capacity auction within MISO? Chairman Chandler - witness Wright
7.32.39 FIVI	Note: Sacre, Candace What PRA stand for?
7:32:47 PM	Chairman Chandler - witness Wright
7.32. 1 7 FII	Note: Sacre, Candace Have residual auction, satisfy own plan, residual sell it, need some
	buy somebody's residual amount?
7:33:24 PM	Chairman Chandler - witness Wright
7.55.21111	Note: Sacre, Candace But tell you load forecast no good and should have done other way?
7:33:30 PM	Chairman Chandler - witness Wright
7.55.50 111	Note: Sacre, Candace Grossed up for losses and again for reserve margin?
7:33:36 PM	Chairman Chandler - witness Wright
7.55.50 111	Note: Sacre, Candace Required amount, other side resources, form of zonal resource
	credits?
7:33:50 PM	Chairman Chandler - witness Wright
7.00.00	Note: Sacre, Candace Resources have SAC values, have to meet required ZRCs?
7:34:10 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace What ZRC?
7:34:37 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace ZRC denominated megawatt basis?
7:34:48 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace A credit equal is to accredited megawatt?
7:34:54 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace Non-derated megawatt?
7:35:07 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace Megawatts assigned to unit equivalent to ZRC transferable?
7:35:28 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace Basically identifying portion of units to be wheeled into SVP?
7:36:10 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace Procuring capacity somewhere else why affect your capacity?
7:36:18 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace Reduced amount megawatts own units, just an amount?
7:36:39 PM	Chairman Chandler - witness Wright
	Note: Sacre, Candace Just for non-native wholesale customers within MISO footprint?
7:37:04 PM	Chairman Chandler - witness Wright
7:37:07 PM	Note: Sacre, Candace In different balancing area?
	Chairman Chandler - witness Wright
	Chairman Chandler - witness Wright Note: Sacre, Candace In LG&E/KU balancing area?
7:37:30 PM	Chairman Chandler - witness Wright Note: Sacre, Candace In LG&E/KU balancing area? Chairman Chandler - witness Wright
	Chairman Chandler - witness Wright Note: Sacre, Candace In LG&E/KU balancing area? Chairman Chandler - witness Wright Note: Sacre, Candace Prove to them?
7:37:30 PM 7:37:42 PM	Chairman Chandler - witness Wright Note: Sacre, Candace In LG&E/KU balancing area? Chairman Chandler - witness Wright Note: Sacre, Candace Prove to them? Chairman Chandler - witness Wright
	Chairman Chandler - witness Wright Note: Sacre, Candace In LG&E/KU balancing area? Chairman Chandler - witness Wright Note: Sacre, Candace Prove to them? Chairman Chandler - witness Wright Note: Sacre, Candace Heard questions with Mathews about robust conversations about
7:37:42 PM	Chairman Chandler - witness Wright Note: Sacre, Candace In LG&E/KU balancing area? Chairman Chandler - witness Wright Note: Sacre, Candace Prove to them? Chairman Chandler - witness Wright Note: Sacre, Candace Heard questions with Mathews about robust conversations about hedging utility conducts in buying forward energy?
	Chairman Chandler - witness Wright Note: Sacre, Candace In LG&E/KU balancing area? Chairman Chandler - witness Wright Note: Sacre, Candace Prove to them? Chairman Chandler - witness Wright Note: Sacre, Candace Heard questions with Mathews about robust conversations about

7:38:34 PM	Chairman Chandler - witness Wright		
7.20.20 DM	Note: Sacre, Candace How be energy deficient if not capacity inefficient?		
7:39:29 PM	Chairman Chandler - witness Wright Note: Sacre, Candace Say energy efficient, not necessarily generating all energy market price?		
7:40:05 PM	Chairman Chandler - witness Wright		
7.40.03 114	Note: Sacre, Candace Have conversation with Christensen practices are when how use model?		
7:40:39 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Not buying forward energy when energy deficient, buys whatever at time of delivery?		
7:41:08 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Did you tell him what we do in terms of buying energy week-long or month-long strips going out in X megawatts?		
7:42:02 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Whether important disconnect operating system and way model assumes operating system?		
7:42:34 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Conversion of Green cheap capacity not helpful serving energy needs?		
7:42:50 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Firm gas unavailable with current infrastructure?		
7:43:04 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Not have firm gas for any units?		
7:43:08 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Break even, how often dispatched and what heat rate make sense?		
7:43:26 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Until something like NGCC make sense?		
7:43:38 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace DSM includes calculations of economic and what you said earlier not choose because not least cost, who made decision use forward curves by ACES for cost data?		
7:44:20 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace All I can find in entire record, know can point me?		
7:44:32 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Who made decision depend on forward curves by ACES for cost data?		
7:44:42 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace For DSM, avoided costs are avoided costs, who made decision?		
7:45:04 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace Actual costs strip of energy buying a good use of avoided energy costs for DSM programs?		
7:45:30 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace If member owners implement DSM programs, does that reduce expected future purchases of energy?		
7:46:38 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace What energy cost on random day buying forward?		
7:46:54 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace If buy for \$30 instead of \$60, take that?		
7:47:05 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace If considering costs avoiding for every dollar get two back, make sense reduce every hour reduce system costs?		
7:47:42 PM	Chairman Chandler - witness Wright		
	Note: Sacre, Candace All questions heard today, believe that is reasonable takeaway building CC is least cost most reasonable option?		

7:49:02 PM	Chairman Chandler - witness Wri	ght	
	Note: Sacre, Candace	What resource eventually build, if DSM provide two for one, real	
- 40 04 04	savings to utility?		
7:49:31 PM	Chairman Chandler - witness Wri		
	Note: Sacre, Candace	Talking about TRC scores for DSM getting return cost be avoided, if can avoid two three or four times costs of investment, real cost	
7 50 47 514		savings, agree?	
7:50:17 PM	Chairman Chandler - witness Wri		
7:50:20 PM	Note: Sacre, Candace Chairman Chandler - witness Wri	Have faith in this model?	
7.30.20 PM	Note: Sacre, Candace	This IRP, recommending build 696 MW CC based off this study?	
7:50:48 PM	Chairman Chandler - witness Wri	,	
7.30. 10 111	Note: Sacre, Candace	Do you know who makes determination to spend one million a year	
	Note: Sacre, carradee	as cap on DSM programs?	
7:51:08 PM	Chairman Chandler - witness Wri	, , , ,	
	Note: Sacre, Candace	Not know who dictates million dollars being cap?	
7:51:14 PM	Chairman Chandler - witness Wri	- · · · · · · · · · · · · · · · · · · ·	
	Note: Sacre, Candace	Know who said show me model at one million dollars?	
7:51:24 PM	Chairman Chandler - witness Wri	ght	
	Note: Sacre, Candace	Question for Parsley?	
7:51:32 PM	Chairman Chandler		
	Note: Sacre, Candace	Counsel?	
7:51:43 PM	Atty Buckley BREC - witness Wrig		
	Note: Sacre, Candace	Redirect Examination. For clarity, current hedging practices BREC	
7:52:01 PM	Atty Buckley BREC - witness Wrig	employs consequence of energy deficiency?	
7.J2.UI FM	Note: Sacre, Candace	Modeling designed reduce or eliminate energy deficiency?	
7:52:12 PM	Atty Buckley BREC - witness Wrig	• • •	
,	Note: Sacre, Candace	Expect continue in hedging practices if had sufficient energy in	
	·	future?	
7:53:01 PM	Atty Buckley BREC - witness Wrig	ght	
	Note: Sacre, Candace	Fair statement DSM part of what being evaluated in terms of Fresh	
7 50 44 514	B. II. BBEG. ''	Start?	
7:53:14 PM	Atty Buckley BREC - witness Wrig		
	Note: Sacre, Candace	BREC continues evaluate DSM program may be implemented in future?	
7:53:55 PM	Chairman Chandler	ruture:	
7.55.55 111	Note: Sacre, Candace	Mr. Depp, call witness?	
7:53:58 PM	Atty Depp BREC	The Beppy can makess.	
	Note: Sacre, Candace	John Christensen.	
7:54:35 PM	Chairman Chandler		
	Note: Sacre, Candace	Witness is sworn.	
7:54:42 PM	Chairman Chandler - witness Chr	istensen	
	Note: Sacre, Candace	Examination. Name and address?	
7:54:54 PM	Atty Depp BREC - witness Christe		
	Note: Sacre, Candace	Direct Examination. Who employer?	
7:55:04 PM	Atty Depp BREC - witness Christe		
7.FF.00 DM	Note: Sacre, Candace	Title?	
7:55:09 PM	Atty Depp BREC - witness Christe		
7:55:12 PM	Note: Sacre, Candace Atty Depp BREC - witness Christe	Sponsor responses?	
/ .JJ.12 FII	Note: Sacre, Candace	Updates or amendments?	
7:55:15 PM	Atty Depp BREC - witness Christe	·	
	Note: Sacre, Candace	Asked same data requests, answers remain same?	
	•	• • •	

7:55:20 PM	Atty Depp BREC - witness Christensen		
	Note: Sacre, Candace Adopt as testimony?		
7:55:23 PM	Atty Depp BREC - witness Christensen		
	Note: Sacre, Candace Have materials with you?		
7:55:32 PM	Chairman Chandler		
40 514	Note: Sacre, Candace Questions?		
7:55:49 PM	Atty Fisk Joint Intervenors - witness Christensen		
7 56 12 514	Note: Sacre, Candace Cross Examination. Role was to be in charge of modeling?		
7:56:12 PM	Atty Fisk Joint Intervenors - witness Christensen		
7.FC.24 DM	Note: Sacre, Candace Who work with at BREC?		
7:56:24 PM	Atty Fisk Joint Intervenors - witness Christensen		
7.F6.40 DM	Note: Sacre, Candace Have a primary contact?		
7:56:40 PM	Atty Fisk Joint Intervenors - witness Christensen		
7.FC.F1 DM	Note: Sacre, Candace Reviewed comments provided by Intervenors?		
7:56:51 PM	Atty Fisk Joint Intervenors - witness Christensen		
7,57,07 DM	Note: Sacre, Candace Have role preparation of response to comments?		
7:57:07 PM	Atty Fisk Joint Intervenors - witness Christensen Note: Sacre, Candace Have Chapter 7 of IRP?		
7:57:17 PM	Note: Sacre, Candace Have Chapter 7 of IRP? Atty Fisk Joint Intervenors - witness Christensen		
7.37.17 FIN	Note: Sacre, Candace Involved in drafting section?		
7:57:24 PM	Atty Fisk Joint Intervenors - witness Christensen		
7.37.27 FIN	Note: Sacre, Candace Also involved in 2022 all-source RFP?		
7:57:47 PM	Atty Fisk Joint Intervenors - witness Christensen		
7.37.17 111	Note: Sacre, Candace Somebody else at 1898 in charge?		
7:57:52 PM	Atty Fisk Joint Intervenors - witness Christensen		
,10,102111	Note: Sacre, Candace Who was that?		
7:57:57 PM	Atty Fisk Joint Intervenors - witness Christensen		
, 10, 10, 111	Note: Sacre, Candace Still at 1898?		
7:58:09 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Under RFP, respondents required submit proposals by end of May		
	2022, right?		
7:58:29 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Deadline before Inflation Reduction Act, correct?		
7:58:39 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Outreach to short-listed bidders provide opportunity update bids?		
7:59:20 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Only few months later, not significant inflation in three months?		
7:59:55 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Cost impacts experienced by gas generators?		
8:00:43 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Including gas line?		
8:00:50 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.04.40.044	Note: Sacre, Candace Receive any updated pricing?		
8:01:19 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.04.07.04	Note: Sacre, Candace Discussed confidential summary of bidders provided, here for that?		
8:01:37 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.02.12.014	Note: Sacre, Candace Identified as sponsor for that?		
8:02:12 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.02.20 04	Note: Sacre, Candace Primary question, document provides summary of bids?		
8:02:29 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.04.10 DM	Note: Sacre, Candace Reflect post-IRA pricing?		
8:04:19 PM	Atty Fisk Joint Intervenors - witness Christensen Note: Sacre, Candace Have similar summary pre-IRA?		
	Note: Sacre, Candace Have similar summary pre-IRA?		

8:04:33 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Data not compiled?		
8:04:52 PM	Atty Fisk Joint Intervenors - witness Christensen		
Note: Sacre, Candace What was process for evaluating bids?			
8:05:33 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Is that a written document?		
8:05:51 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Process occur both original bids and updated post-IRA bids?		
8:06:27 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Any other evaluation done by your firm which projects most		
0-07-25 DM	economic or best choices?		
8:07:35 PM	Atty Fisk Joint Intervenors - witness Christensen		
8:07:45 PM	Note: Sacre, Candace That's what short list represents?		
0107145 PM	Atty Fisk Joint Intervenors - witness Christensen		
8:09:02 PM	Note: Sacre, Candace Significant number of projects eliminated? Atty Fisk Joint Intervenors		
0:09:02 PM	Note: Sacre, Candace Post-hearing data request bids received.		
8:09:03 PM	POST-HEARING DATA REQUEST		
0.09.03 FM	Note: Sacre, Candace ATTY FISK JOINT INTERVENORS - WITNESS CHRISTENSEN		
	Note: Sacre, Candace SCORING OF RFP BIDS RECEIVED		
8:09:34 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.05.51111	Note: Sacre, Candace Recall Mathews testimony?		
8:09:48 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.031.10.111	Note: Sacre, Candace Has been discussions with you or firm working on Fresh Start?		
8:10:07 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Not have any involvement on Fresh Start?		
8:10:23 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Made recommendations if were to be Fresh Start another RFP		
	process initiated?		
8:10:53 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Utility doing Fresh Start in 2024 make sense do new RFP?		
8:11:47 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace If do RFP first, resource planning actual data?		
8:12:34 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace One of issues whether BREC should have modeled potential		
0.40.50.514	retirement dates for Wilson?		
8:12:53 PM	Atty Fisk Joint Intervenors - witness Christensen		
0-12-00 DM	Note: Sacre, Candace Modeling not do that?		
8:13:00 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.12.20 DM	Note: Sacre, Candace Look at Response to Staff 2-30, sponsor of subpart B?		
8:13:38 PM	Atty Fisk Joint Intervenors - witness Christensen Note: Sacre, Candace Question EnCompass able to model BREC units cost retiring any		
	year, see that?		
8:13:51 PM	Atty Fisk Joint Intervenors - witness Christensen		
0.15.51 111	Note: Sacre, Candace Response is, reading (click on link for further comments), that right?		
8:14:01 PM	Atty Fisk Joint Intervenors - witness Christensen		
011 1101 111	Note: Sacre, Candace Modeling retirements, agree feasible model discrete retirement		
	dates for generating unit?		
8:14:53 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Utility do so when shift in cost of unit?		
8:15:05 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace Deadlines under 111 rule qualify as regulatory changes appropriate		
	model retirement dates around?		

8:16:01 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace	Aware of finalized 111 rule?	
8:16:19 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace	Aware for coal units projected run past 2039, 111 rule require CTS?	
8:16:42 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace	If doing resource planning, date CCS required be appropriate date retire unit rather than CCS?	
8:17:37 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace	Cannot model CCS?	
8:17:51 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace	Agree installation of CCS significant shift in cost profile of Wilson?	
8:18:12 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace	If had to install CCS in 2032, appropriate time to evaluate?	
8:18:13 PM	DUE TO TECHNICAL DIFFICULTI	ES, HEARING LOG IS UNAVAILABLE.	



Session Report - Detail

2023-00310 22May2024 B

Big Rivers Electric Corporation (BREC)

Date:	Туре:	Location:	Department:
5/22/2024	Public Hearing\Public Comments	Hearing Room 1	Hearing Room 1 (HR 1)

Witness: Christopher Bradley; Jason Burden; John Christensen; Brittaney Johnson; Talina Mathews; Michael Mizell; Vicky

Payne; Christopher Warren; Terry Wright Jr.

Judge: Kent Chandler; Angie Hatton

Clerk: Candace Sacre

Event Time	Log Event		
8:48:17 PM	Session Started		
8:48:18 PM	DUE TO TECHNICAL DIFFICULTIES, HEARING LOG IS UNAVAILABLE		
8:48:57 PM	Chairman Chandler		
	Note: Sacre, Candace	Back on the record.	
8:49:04 PM	Chairman Chandler		
	Note: Sacre, Candace	Procedural discussion. (Click on link for further comments.)	
8:49:28 PM	Chairman Chandler		
	Note: Sacre, Candace	Counsel, continue?	
8:49:39 PM	Atty Fisk Joint Intervenors - w	itness Christensen	
	Note: Sacre, Candace	Cross Examination (cont'd). Page 138 of IRP, figure 7.2.2 (a), reflects base case conditions modeled through sensitivities?	
8:50:38 PM	Atty Fisk Joint Intervenors - w	itness Christensen	
	Note: Sacre, Candace	And analysis led to base portfolio?	
8:51:12 PM	Atty Fisk Joint Intervenors - w	itness Christensen	
	Note: Sacre, Candace	Recall conversation about carbon adder?	
8:51:18 PM	Atty Fisk Joint Intervenors - w	itness Christensen	
	Note: Sacre, Candace	Carbon adder designed reflect impacts of carbon regulations?	
8:51:31 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace	Stage of modeling reflected in figure, not see reference to carbon adder?	
8:51:47 PM	Atty Fisk Joint Intervenors - w	itness Christensen	
	Note: Sacre, Candace	Carbon adder not into play until after portfolios identified?	
8:52:27 PM	Atty Fisk Joint Intervenors - w	itness Christensen	
	Note: Sacre, Candace	Portfolios developed and modeled without consideration of carbon adder?	
8:52:49 PM	Atty Fisk Joint Intervenors - w	itness Christensen	
	Note: Sacre, Candace	Also discussion needing operate SCR pollution control on Wilson year round?	
8:53:08 PM	Atty Fisk Joint Intervenors - witness Christensen		
	Note: Sacre, Candace	Know if cost of operating SCR reflected in modeling?	
8:53:17 PM	Atty Fisk Joint Intervenors		
	Note: Sacre, Candace	Post-hearing data request? (Click on link for further comments.)	
8:53:18 PM	POST-HEARING DATA REQUES	ST	
	Note: Sacre, Candace	ATTY FISK JOINT INTERVENORS - WITNESS CHRISTENSEN	
	Note: Sacre, Candace	COST OF OPERATING SCR AT WILSON REFLECTED IN MODELING	
8:53:45 PM	Atty Fisk Joint Intervenors - w		
	Note: Sacre, Candace	Turn to 142 and 143 of IRP, table 7.3.1, shows base portfolio and other two talking about?	
8:54:10 PM	Atty Fisk Joint Intervenors - w	itness Christensen	
	Note: Sacre, Candace	Resource decisions reflected input into model?	

8:55:13 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Aggressive carbon reduction portfolio shows 2032 adding CCS to Wilson and NGCC plan?
8:55:26 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace
8:56:02 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace This aggressive carbon reduction portfolio not mean model determined CCS lowest cost option scenario?
8:56:39 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace To be clear, when said no to my question, was correct, aggressive carbon reduction portfolio not showing CCS lowest cost option?
8:57:08 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Carbon adder used in modeling these thrree portfolios?
8:57:38 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace But carbon adder in modeling would not have led to different resource portfolio?
8:57:57 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Scenarios not say anything about whether carbon adder have shown Wilson uneconomic?
8:58:15 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Modeling of three portfolios with adder results show cost of portfolio?
8:58:39 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Turn to page 145 and 146, section about assumptions carbon capture/sequestration, see that?
8:58:54 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Are costs that are confidential, not say on records, are various costs identified here?
8:59:06 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Summarized in 7.3.2(a) on page 146?
8:59:18 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace A few reported in text on 145?
8:59:24 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Are costs you developed?
9:00:45 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Capital cost?
9:00:53 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Wilson data in 7.3.2, all came from BREC?
9:01:06 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Page 145 reference to Wilson costs qualify for New ERA financing?
9:01:21 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Capital cost in table 7.3.2(a) for Wilson inclusive of 25 percent grant and zero interest loan under IRA?
9:02:03 PM	Atty Fisk Joint Intervenors
	Note: Sacre, Candace Request post-hearing data request. (Click on link for further comments.)
9:02:04 PM	POST-HEARING DATA REQUEST
	Note: Sacre, Candace ATTY FISK JOINT INTERVENORS - WITNESS CHRISTENSEN
	Note: Sacre, Candace CAPITAL COST IN TABLE 7.3.2(a) FOR WILSON INCLUSIVE OF 25 PERCENT GRANT AND ZERO INTEREST LOAN UNDER IRA
9:02:14 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Your modeling, one of the resources evaluated battery storage?
9:02:32 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Agree battery storage important tool integrating intermittent resources into energy system?

9:02:50 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace But can help integrate?
9:03:00 PM	Atty Fisk Joint Intervenors - witness Christensen
0.02.10 DM	Note: Sacre, Candace Capabilities of battery storage help intermittency of renewables?
9:03:10 PM	Atty Fisk Joint Intervenors - witness Christensen
O.O.S.EO DM	Note: Sacre, Candace When say within reason, percentage of renewables in system?
9:03:58 PM	Atty Fisk Joint Intervenors - witness Christensen Note: Sacre, Candace That does help integrate renewables if can do shift?
9:04:11 PM	Atty Fisk Joint Intervenors - witness Christensen
5.01.11111	Note: Sacre, Candace Battery storage provide ancillary services?
9:04:32 PM	Atty Fisk Joint Intervenors - witness Christensen
510 1152 111	Note: Sacre, Candace Modeling of storage account ancillary service benefits storage
	provide?
9:05:05 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace But not evaluate whether be ancillary service benefits of increasing
	storage?
9:05:12 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Battery storage provide black-start services?
9:05:33 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Black-start service benefits of storage not factored into analysis?
9:05:54 PM	Atty Fisk Joint Intervenors - witness Christensen
0-06-02 PM	Note: Sacre, Candace Battery storage also provide energy arbitrage services?
9:06:02 PM	Atty Fisk Joint Intervenors - witness Christensen
0.06.09 DM	Note: Sacre, Candace Potential benefit of storage not reflected in modeling?
9:06:08 PM	Atty Fisk Joint Intervenors - witness Christensen Note: Sacre, Candace Is reflected?
9:06:55 PM	Note: Sacre, Candace Is reflected? Atty Fisk Joint Intervenors - witness Christensen
J.00.JJ 114	Note: Sacre, Candace Model monetize that?
9:07:07 PM	Atty Fisk Joint Intervenors - witness Christensen
3107107111	Note: Sacre, Candace Battery storage help defer need for transmission/distribution
	upgrades?
9:07:58 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Why that not help defer need for distribution upgrade?
9:08:56 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace Which be distributed generation battery?
9:08:58 PM	Atty Fisk Joint Intervenors - witness Christensen
	Note: Sacre, Candace That not modeled here?
9:09:07 PM	Atty Fisk Joint Intervenors - witness Christensen
0.00.40.514	Note: Sacre, Candace But not actually run analysis?
9:09:18 PM	Atty Fisk Joint Intervenors - witness Christensen
0.00.42 DM	Note: Sacre, Candace Unless was receive financial assistance programs under IRA? Chairman Chandler
9:09:43 PM	
9:10:05 PM	Note: Sacre, Candace Questions? Atty Shrinath Sierra Club - witness Christensen
9.10.03 FM	Note: Sacre, Candace Cross Examination. Lot talked about need for fresh start, ideally
	mean drafting and development of new IRP?
9:10:24 PM	Atty Shrinath Sierra Club - witness Christensen
	Note: Sacre, Candace Spoke from experience, can speak from professional experience
	address that?
9:11:03 PM	Atty Shrinath Sierra Club - witness Christensen
	Note: Sacre, Candace Deficiencies current IRP, new 2024 IRP or RFP necessary ensure
	lowest cost reliable resources?
9:11:35 PM	Atty Shrinath Sierra Club - witness Christensen
	Note: Sacre, Candace Spoke to experience laying out new IRP or RFP, remember that?

9:11:49 PM	Atty Shrinath Sierra Club - witness Christensen Note: Sacre, Candace New IRP or new RFP?
9:12:03 PM	Atty Shrinath Sierra Club - witness Christensen
0.12.20 DM	Note: Sacre, Candace Maximizing low cost include new IRP and RFP?
9:12:28 PM	Atty Shrinath Sierra Club - witness Christensen Note: Sacre, Candace How stagger those?
9:12:49 PM	Chairman Chandler
	Note: Sacre, Candace Questions?
9:13:01 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Cross Examination. Green Station retirement, how 2029 selected as retirement?
9:13:36 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Cost additional time/money run model Green Station able retired any year?
9:14:10 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Talking hours days weeks?
9:14:20 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Be true anything treated as changeable compared to hardcoded?
9:15:08 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Be difference between binary change versus dynamic change?
9:15:27 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Talking earlier about first modeling phase, expansion planning, and portfolio selection applying production costs, characterize correctly?
9:16:09 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Explain ways cost of different resources used each of stages?
9:16:43 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace In order select resources and options, for model to pick, have to have cost information?
9:17:05 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace That cost information derived where?
9:17:54 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Any of sources include all-source RFP data?
9:18:10 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace The self-build?
9:18:44 PM	Staff Atty Colyer PSC - witness Christensen
0.40.00.04	Note: Sacre, Candace No what?
9:19:08 PM	Staff Atty Colyer PSC - witness Christensen
0-10-25 DM	Note: Sacre, Candace Just matter of sample size?
9:19:25 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Back to costs been input, run model, model provides least cost reasonable alternative meet capacity?
9:20:06 PM	Staff Atty Colyer PSC - witness Christensen
0.00.10.004	Note: Sacre, Candace Explain how get from that to selecting base portfolio?
9:22:10 PM	Staff Atty Colyer PSC - witness Christensen
	Note: Sacre, Candace Table on page 143, three columns include PACE program but not selected by model in table 7.2.3, correct that, under high load PACE selected, other ones not?
9:23:10 PM	Staff Atty Colyer PSC - witness Christensen
J. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Note: Sacre, Candace Would have expected, taking into account up to 20 percent foregiveness PACE projecct, model pick that ahead of solar/wind every time, shoud it not?
9:23:47 PM	Staff Atty Colyer PSC - witness Christensen
51251 17 1111	Note: Sacre, Candace Without application of PACE, like comparing to solar PPAs, PACE
	always solar and storage?

9:24:12 PM	Ctaff Att. Calvar DCC witness Christ	oncon
9.24.12 PM	Staff Atty Colyer PSC - witness Christo	
	•	CE not as cost effective according to model except under high ad sensitivity?
9:24:39 PM	Staff Atty Colyer PSC - witness Christo	•
J.2 1.33 111		ck to table page 143, what purpose aggressive cardon reduction
		rtfolio in IRP, what do planning wise?
9:26:44 PM	Staff Atty Colyer PSC - witness Christo	
		ge 121 IRP, effective load-carrying capability table 7.1.4(h), why
		CC solar decrease while wind increases?
9:29:18 PM	Staff Atty Colyer PSC - witness Christo	ensen
	Note: Sacre, Candace Mc	odel allow BREC-built solar or purchased solar or PPAs, all three
	op	tions?
9:29:55 PM	Staff Atty Colyer PSC - witness Christo	ensen
		nen said purchased, purchased facilities not power or capacity?
9:30:54 PM	Staff Atty Colyer PSC - witness Christo	
	· · · · · · · · · · · · · · · · · · ·	If-build cost more predictable but could find somebody selling
		cility?
9:31:20 PM	Staff Atty Colyer PSC - witness Christo	
		lk about capacity, page 152 IRP, table 7.4.1, seasonal capacity
		ative to reserve margin, sponsored response, PSC 147(C), factors w decided capacity needed, some calculation how determined
		pacity BREC wanted beyond reserve margin?
9:33:22 PM	Staff Atty Colyer PSC - witness Christo	• •
J.JJ.ZZ 111		wrong tell me, appears from 2030 on, bit of extra capacity beyond
	· · · · · · · · · · · · · · · · · · ·	serve margin?
9:34:05 PM	Staff Atty Colyer PSC - witness Christo	
		d fine job explaining in DR why excess capacity might be needed,
		nere actual capacity number came from, process not start with
		tting need capacity level?
9:39:00 PM	Staff Atty Colyer PSC	
	· · · · · · · · · · · · · · · · · · ·	ink it does, ask post-hearing data request documentation solidifies
		at. (Click on link for further comments.)
9:39:01 PM	POST-HEARING DATA REQUEST	
	,	AFF ATTY COLYER PSC - WITNESS CHRISTENSEN
		OCUMENTATION OF FROM WHERE ACTUAL CAPACITY NUMBER
9:39:35 PM	Staff Atty Colyer PSC - witness Christo	RIVED AND WHY EXCESS CAPACITY NEEDED
3.33.33 FIN		yone from BREC talk about any planning change would occur
	· · · · · · · · · · · · · · · · · · ·	nmember contracts not renewed?
9:40:32 PM	Staff Atty Colyer PSC - witness Christo	
31.10132.111		sume nonmember contracts not renew and BREC have significant
	•	cess capacity, anything modeled whether excess capacity be net
		in to sell?
9:42:12 PM	Staff Atty Colyer PSC - witness Christo	ensen
	•	sk outliers, at end of first expansion planning portion, whatever
		odel spit out, that stage or porfolio selection stage, anything
		count extreme cost outliers, model choose X plus one under base
0.42.50 554		enario, or will it not?
9:43:59 PM	Staff Atty Colyer PSC - witness Christo	
0.44.21 014		pansion planning?
9:44:21 PM	Staff Atty Colyer PSC - witness Christo	
	Note: Sacre, Candace Wh	nat was last part?

9:44:35 PM	Staff Atty Colyer PSC - witness Cl	hristensen
	Note: Sacre, Candace	Would it select X or X plus one under base scenario regardless cost
		of sensitivities, does expansion planning phase take scenarios into
		account, if not does portfolio selection portion consider?
9:46:55 PM	Staff Atty Colyer PSC - witness Cl	
	Note: Sacre, Candace	Answers my question, modeling going to give least cost reasonable
		alternative under each one of sensitivities including base conditions,
		portfolio selection, pick one best address risk outliers, qualitative
0.40.2F DM	Chaff Atha Calvan DCC with acc Cl	and not quantitative?
9:48:25 PM	Staff Atty Colyer PSC - witness Cl	
	Note: Sacre, Candace	BREC tell why resources were choosing availability modeling limited to 635 MW NGCC and 230 SC, know where capacity numbers came
		from and why limited that way?
9:49:10 PM	Staff Atty Colyer PSC - witness Cl	·
J. 13.10 T M	Note: Sacre, Candace	Remember in IRP list, says here's the four thermal options?
9:49:27 PM	Staff Atty Colyer PSC - witness Cl	
J. 13.27 114	Note: Sacre, Candace	Not have to read, just tell me why told you limited using those
	Note: Sacre, Canadee	options?
9:50:53 PM	Staff Atty Colyer PSC - witness Cl	•
	Note: Sacre, Candace	Mathews testified in self-build situation build whatever capacity
		wanted, Wright also testified bigger make it the more capacity, the
		more efficiency, something discussed?
9:52:31 PM	Staff Atty Colyer PSC - witness Cl	· · · · · · · · · · · · · · · · · · ·
	Note: Sacre, Candace	Model permit use whatever capacity requested?
9:53:18 PM	Staff Atty Colyer PSC - witness Cl	hristensen
	Note: Sacre, Candace	Someone from BREC tell you 635 MW NGCC conditioned on obtain
		partnership with another utility?
9:54:43 PM	Chairman Chandler - witness Chr	
	Note: Sacre, Candace	Examination. Staff Counsel asking about ELCC, said an
		extrapolation, you extrapolate MISO data, or MISO data an
0 55 35 514		extrapolation?
9:55:25 PM	Chairman Chandler - witness Chr	
0.FF.42 DM	Note: Sacre, Candace	Was MISO data indicative?
9:55:42 PM	Chairman Chandler - witness Chr	
0.FF.F7 DM	Note: Sacre, Candace Chairman Chandler - witness Chr	Trying to saying, indicative and not telling that will be the ELCC?
9:55:57 PM	Note: Sacre, Candace	What wanted make clear, no way know demand look like or what
	Note. Sacre, Caridace	resource makeup be of entire grid?
9:56:12 PM	Chairman Chandler - witness Chr	•
J.30.12 TM	Note: Sacre, Candace	Both inputs into ELCC?
9:56:33 PM	Chairman Chandler - witness Chr	·
J.50.55 T M	Note: Sacre, Candace	Nobody says projected solar be 30 percent in 2029, now give us 30
	Note: Sacre, Canadee	percent capacit credit?
9:56:53 PM	Chairman Chandler - witness Chr	·
	Note: Sacre, Candace	Just be lying about relative reliability of resources that year, no way
	Trouble Guerra, Carragado	of knowing that?
9:57:05 PM	Chairman Chandler - witness Chr	
	Note: Sacre, Candace	Extrapolation, saying MISO provided outer year indicative, drew line
	,	two data points and said this what wind solar worth those years?
9:57:32 PM	Chairman Chandler - witness Chr	istensen
	Note: Sacre, Candace	Environmental compliance costs, how model capital environmental
		costs for thermal resources?
9:58:32 PM	Chairman Chandler - witness Chr	
	Note: Sacre, Candace	Heard questioning with Mizell using proxy future envinronmental
		compliance capital costs?

9:58:43 PM	Chairman Chandler - witness Chr	istensen
	Note: Sacre, Candace	So where going, what model assume as proxy future costs capital
0.E0.12 DM	Chairman Chardlar with as Chri	related, whatever utility gave you?
9:59:12 PM	Chairman Chandler - witness Chr	
9:59:13 PM	Note: Sacre, Candace POST-HEARING DATA REQUEST	Ask as post-hearing data request?
3133113	Note: Sacre, Candace	CHAIRMAN CHANDLER - WITNESS CHRISTENSEN
	Note: Sacre, Candace	PROVIDE WHAT MODEL ASSUME AS PROXY FOR FUTURE
		ENVIRONMENTAL COMPLIANCE COSTS THAT ARE CAPITAL RELATED
9:59:17 PM	Chairman Chandler - witness Chr	
	Note: Sacre, Candace	Agree with Mizell assuming as proxy zero dollars future environmental capital cost unreasonable assumption?
9:59:39 PM	Chairman Chandler - witness Chr	·
	Note: Sacre, Candace	But, also, if model not economically picking and choosing
		retirements, whatever capital costs are not matter for choosing future of Wilson?
10:00:00 PM	Chairman Chandler - witness Chr	istensen
	Note: Sacre, Candace	If model says Wilson not retire, not matter if incurring \$100 million incremental capital cost every year, not going to retire?
10:00:08 PM	Chairman Chandler - witness Chr	istensen
	Note: Sacre, Candace	Included in least cost most reasonable resource selection?
10:00:24 PM	Chairman Chandler - witness Chr	
	Note: Sacre, Candace	Wright discussing current system today, discussion about benefit
		Green has as capacity resource, not square that with statement
		made in IRP on page 144, paragraph starting economic retirement of Green Units 1 and 2?
10:01:28 PM	Chairman Chandler - witness Chr	
	Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly?
10:01:28 PM 10:02:11 PM	Note: Sacre, Candace Chairman Chandler - witness Chr	Says, reading (click on link for further comments), read correctly? istensen
	Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly?
	Note: Sacre, Candace Chairman Chandler - witness Chr	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times?
10:02:11 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times?
10:02:11 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times?
10:02:11 PM 10:02:32 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times?
10:02:11 PM 10:02:32 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen
10:02:11 PM 10:02:32 PM 10:02:42 PM	Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM	Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit?
10:02:11 PM 10:02:32 PM 10:02:42 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM 10:03:45 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen But utility not believe has availability firm gas supply, assume CTs modeled not modeled alongside firm gas supply?
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM	Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace Chairman Chandler - witness Chri Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen But utility not believe has availability firm gas supply, assume CTs modeled not modeled alongside firm gas supply? istensen
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM 10:03:45 PM 10:04:19 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen But utility not believe has availability firm gas supply, assume CTs modeled not modeled alongside firm gas supply? istensen Is a qualitative risk, what I am hearing here since model not envision it, clearly operational risk currently experiencing?
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM 10:03:45 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen But utility not believe has availability firm gas supply, assume CTs modeled not modeled alongside firm gas supply? istensen Is a qualitative risk, what I am hearing here since model not envision it, clearly operational risk currently experiencing? istensen
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM 10:03:45 PM 10:04:19 PM 10:04:33 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen But utility not believe has availability firm gas supply, assume CTs modeled not modeled alongside firm gas supply? istensen Is a qualitative risk, what I am hearing here since model not envision it, clearly operational risk currently experiencing? istensen How taken into account when conducting IRP?
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM 10:03:45 PM 10:04:19 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen But utility not believe has availability firm gas supply, assume CTs modeled not modeled alongside firm gas supply? istensen Is a qualitative risk, what I am hearing here since model not envision it, clearly operational risk currently experiencing? istensen How taken into account when conducting IRP? istensen
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM 10:03:45 PM 10:04:19 PM 10:04:33 PM 10:05:10 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen But utility not believe has availability firm gas supply, assume CTs modeled not modeled alongside firm gas supply? istensen Is a qualitative risk, what I am hearing here since model not envision it, clearly operational risk currently experiencing? istensen How taken into account when conducting IRP? istensen Additional risk analysis reasonable step?
10:02:11 PM 10:02:32 PM 10:02:42 PM 10:03:25 PM 10:03:45 PM 10:04:19 PM 10:04:33 PM	Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace Chairman Chandler - witness Chr Note: Sacre, Candace	Says, reading (click on link for further comments), read correctly? istensen When something determined/concluded, not for creating energy economic basis throughout year but for availability most extreme times? istensen If all hedges have nonfirm gas supply, impossible get gas, how good is it in those extreme times? istensen Model take into account at all? istensen LMP being at whatever price cap is not mean supply constraints for commodity or transportation to gas unit? istensen But utility not believe has availability firm gas supply, assume CTs modeled not modeled alongside firm gas supply? istensen Is a qualitative risk, what I am hearing here since model not envision it, clearly operational risk currently experiencing? istensen How taken into account when conducting IRP? istensen Additional risk analysis reasonable step?

10:06:56 PM	Chairman Chandler - witness Christer	nsen
		ot requesting number of capacitator connection rights seeking?
10:07:10 PM	Chairman Chandler - witness Christer	nsen
	•	odel 635 MW unit, or did you model 635 MW output net of station wer?
10:07:30 PM	Chairman Chandler - witness Christer	nsen
	· · · · · · · · · · · · · · · · · · ·	ame with 21 MW reciprocating engines, station power netted ready?
10:07:36 PM	Chairman Chandler - witness Christer	nsen
	The state of the s	0-plus megawatt GE Vernova that is net amount?
10:08:02 PM	Chairman Chandler - witness Christer	
		ow many megawatts CT?
10:08:14 PM	Chairman Chandler - witness Christer	
10.00.47 DM		ot know how big CT when was chosen?
10:08:47 PM	Chairman Chandler - witness Christer Note: Sacre, Candace Cla	
	inf	rified but make sure, understanding from comment would be rastructure upgrade necessary place combined cycle at or near cation and reuse infrastructure at Geen 1 and 2?
10:09:17 PM	Chairman Chandler - witness Christer	nsen
	rig	out current metering and infrastructure be used, and size of pipe that size, are other upgrades necessary accommodate combined cle?
10:09:30 PM	Chairman Chandler - witness Christer	nsen
	pu	ow whether provided necessary capital cost upgrades required t in infrastructure necessary, included in overnight kW or capital sts for combined cycle?
10:10:33 PM	Chairman Chandler - witness Christer	•
	red fui red en	st issue, assume for question, Commission previously quired/stated in Order the following, reading (click on link for other comments), earilier discussing taking what MISO quirement is by season and adding PRM, modeling in IRP meet tirety peak demands regardless MISO rules and separately MISO les?
10:11:35 PM	Chairman Chandler - witness Christer	nsen
		state question, did models run seek meet utility's requirements der MISO rules?
10:11:48 PM	Chairman Chandler - witness Christer	
	wh	bes it also attempt serve to meet entirety BREC entire retail and nolesale obligations as if was stand-alone utility?
10:12:41 PM	Chairman Chandler - witness Christer	
	ve	noring things like contingency reserve requirements, agree rtically integrated utility plans to meet own needs?
10:13:02 PM	Chairman Chandler - witness Christer	
10-12-42 DM	ne	It, here, vertically integrated utility this IRP not seek to meet BREC eds, instead is to meet MISO rules applicable to BREC?
10:13:43 PM	Chairman Chandler - witness Christer	
10:13:49 PM	Note: Sacre, Candace Ma Chairman Chandler - witness Christer	aybe MISO moving to seasonal capacity construct helps?
10.13.49 FM		nual product, winter peaking utility and summer peaking RTO, run
10:14:18 PM		k of being short for own native demands?
10.17.10 FM		: Depp?
10:14:23 PM	Chairman Chandler	. Берр.
1011 1120 1111		ything else this witness?

10:14:28 PM	Chairman Chandler	
		ocedural discussion. (Click on link for further discussion.)
10:16:00 PM	Chairman Chandler	
	Note: Sacre, Candace Lea	ave it to you.
10:16:03 PM	Atty Depp BREC	
	Note: Sacre, Candace Mai	rlene Parsley.
10:16:09 PM	Chairman Chandler	
	Note: Sacre, Candace Wit	tness is sworn.
10:16:16 PM	Chairman Chandler - witness Parsley	
	Note: Sacre, Candace Exa	amination. Name and address?
10:16:27 PM	Atty Depp BREC - witness Parsley	
	Note: Sacre, Candace Dire	ect Examination. Employer?
10:16:31 PM	Atty Depp BREC - witness Parsley	
	Note: Sacre, Candace Title	le?
10:16:34 PM	Atty Depp BREC - witness Parsley	
		onsor data request responses?
10:16:39 PM	Atty Depp BREC - witness Parsley	·
		dates or amendments?
10:16:43 PM	Atty Depp BREC - witness Parsley	
		asked questions today, answers remain same?
10:16:46 PM	Atty Depp BREC - witness Parsley	4-3-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
		ent to adopt as testimony?
10:16:48 PM	Atty Depp BREC - witness Parsley	,
		ve materials with you?
10:16:57 PM	Chairman Chandler - witness Parsley	
	•	amination. Aware of \$1 million constraint demand side
		nagement spending in IRP?
10:17:02 PM	Chairman Chandler - witness Parsley	
	•	are same constraint operationally BREC implements?
10:17:18 PM	Chairman Chandler - witness Parsley	, , , , , , , , , , , , , , , , , , , ,
	•	the past that has been, at least in past been a general \$1 million
		eshold?
10:17:27 PM	Chairman Chandler - witness Parsley	
	•	ow where comes from?
10:18:09 PM	Chairman Chandler - witness Parsley	
	•	\$1 million what been told to implement in IRPs?
10:18:28 PM	Chairman Chandler - witness Parsley	,
	•	no told you, but also why place limit, if chose \$20 million be
	·	ount, model cannot do that when limited to a million?
10:19:00 PM	Chairman Chandler - witness Parsley	,
	,	\$20 million program returned \$60 million or \$80 million of
	,	rgins, make sense to borrow, at five percent discount raise make
		nse borrow that money?
10:19:27 PM	Chairman Chandler - witness Parsley	·
	Note: Sacre, Candace Not	t know genesis of it, model as constraint because is what did,
	•	erationally what were spending?
10:19:41 PM	Chairman Chandler	
	Note: Sacre, Candace Any	ything else, Mr. Depp?
10:20:15 PM	Chairman Chandler	
	Note: Sacre, Candace Pro	ocedural discussion. (Click on link for further comments.)
10:20:51 PM	Chairman Chandler	•
		cess until 10:45.
10:21:03 PM	Session Paused	
10:24:49 PM	Session Resumed	

10.25.06 DM	Chairman Chandlar	
10:25:06 PM	Chairman Chandler	Back on the record.
10:25:11 PM	Note: Sacre, Candace Chairman Chandler	back on the record.
10:25:11 PM	Note: Sacre, Candace	Witness discussion (Click on link for further comments)
10:26:06 PM	Chairman Chandler	Witness discussion. (Click on link for further comments.)
10.20.00 PM		Mr. Rucklay, payt witness?
10:26:09 PM	Note: Sacre, Candace Atty Buckley BREC	Mr. Buckley, next witness?
10.20.09 PM	Note: Sacre, Candace	Russell Pogue.
10:26:19 PM	Chairman Chandler	Russell Fogue.
10.20.13 FM	Note: Sacre, Candace	Witness is sworn.
10:26:25 PM	Chairman Chandler - witness Pog	
10.20.25 FM	Note: Sacre, Candace	Examination. Name and address?
10:26:38 PM	Atty Buckley BREC - witness Pogu	
10.20.30 FM	Note: Sacre, Candace	Direct Examination. By whom employed?
10:26:42 PM	Atty Buckley BREC - witness Pogu	
10.20.72 FM	Note: Sacre, Candace	Title?
10:26:48 PM	Atty Buckley BREC - witness Pogu	
10.20.40114	Note: Sacre, Candace	Sponsor data request responses?
10:26:51 PM	Atty Buckley BREC - witness Pogu	· · · · · · · · · · · · · · · · · · ·
10.20.51 111	Note: Sacre, Candace	Changes or additions?
10:26:57 PM	Atty Buckley BREC - witness Pogu	~
10.20.37 111	Note: Sacre, Candace	If asked same questions, give same answers?
10:27:02 PM	Atty Buckley BREC - witness Pogu	
	Note: Sacre, Candace	Adopt responses as testimony?
10:27:08 PM	Chairman Chandler	,
	Note: Sacre, Candace	Questions?
10:27:17 PM	Atty Cmar Joint Intervenors - witr	-
	Note: Sacre, Candace	Cross Examination. Low-income weatherization program, BREC
	•	reported to Commission no participants last year?
10:27:40 PM	Atty Cmar Joint Intervenors - witr	ness Pogue
	Note: Sacre, Candace	What BREC done to market program?
10:28:12 PM	Atty Cmar Joint Intervenors - witi	ness Pogue
	Note: Sacre, Candace	Do anything beyond what described?
10:28:23 PM	Atty Cmar Joint Intervenors - witi	
	Note: Sacre, Candace	BREC ever considered whether different DSM program designs
		needed to reach people outside community action process?
10:28:40 PM	Atty Cmar Joint Intervenors - with	
	Note: Sacre, Candace	BREC ever considered alternative program design aimed at providing
10 20 51 514	AU C 1:171	assistance to other people?
10:28:51 PM	Atty Cmar Joint Intervenors - with	_
	Note: Sacre, Candace	True part of community action agency process is participants undergo home energy audit?
10:29:03 PM	Atty Cmar Joint Intervenors - witr	J ,
10.29.03 PM	Note: Sacre, Candace	BREC ever considered program design aimed at people who not
	Note: Sacre, Caridace	interested in undergoing home energy audit?
10:29:17 PM	Atty Cmar Joint Intervenors - witr	
10.25.17	Note: Sacre, Candace	Agree not everyone interested in home energy audit?
10:29:26 PM	Atty Cmar Joint Intervenors - witi	· · · · · · · · · · · · · · · · · · ·
20.20.20	Note: Sacre, Candace	BREC every considered a program designed to reach people be in
		that category?
10:29:50 PM	Chairman Chandler	
	Note: Sacre, Candace	Questions?

10:29:56 PM	Staff Atty Hatcher PSC - witness Po	que
10.25.30 111	•	Cross Examination. Speaking of low-income weatherization
	•	program, page 88 of IRP, was stated be reevaluated by BREC,
	ϵ	explain what means by reevaluate?
10:30:26 PM	Staff Atty Hatcher PSC - witness Po	-
		Been conversations within BREC implementing cost-effective DSM
10.21.17 DM	-	programs in potential study?
10:31:17 PM	Staff Atty Hatcher PSC - witness Po Note: Sacre, Candace I	gue f DSM program have substantial capacity savings but not shown
	,	cost effective, would BREC consider implementing?
10:31:40 PM	Staff Atty Hatcher PSC - witness Po	· · · · · · · · · · · · · · · · · · ·
	•	Say might consider it but not mean would?
10:32:00 PM	Chairman Chandler	
	Note: Sacre, Candace C	Questions?
10:32:02 PM	Chairman Chandler - witness Pogue	
	•	Examination. Make decision for DSM cost benefit analylsis use
10-22-26 DM		voided energy and avoided futures?
10:32:26 PM	Chairman Chandler - witness Pogue	
		Why use avoided values provided by ACES when studying resources as part of IRP that had real costs for?
10:32:51 PM	Chairman Chandler - witness Pogue	
	_	When say market capacity cost, what market?
10:33:07 PM	Chairman Chandler - witness Pogue	
	Note: Sacre, Candace	Avoided generation capacity costs that ACES gives you going out
		and looking what clearing prices are MISO residual market?
10:33:46 PM	Chairman Chandler - witness Pogue	
	,	/ery different incremental capital cost building one resource over
10:33:56 PM	Chairman Chandler - witness Pogue	nother?
10.55.50 FM	_	At a magnitude of difference?
10:34:01 PM	Chairman Chandler - witness Pogue	
	_	Aultiple times larger likely?
10:34:05 PM	Chairman Chandler - witness Pogue	
		That materially impacts cost effectiveness of underlying programs,
		ngree?
10:34:13 PM	Chairman Chandler - witness Pogue	
		All else equal, if cost utility actually avoiding is twice previous assessment indicate, make programs more or less cost effective?
10:34:47 PM	Chairman Chandler - witness Pogue	, , ,
10.5,		Veatherization program discussed, is this lone DSM program that
		survived 2018 case?
10:35:34 PM	Chairman Chandler - witness Pogue	
		Proposal implement two new DSM programs, energy use education
		and low-income weatherization, expenditure of a quarter of a million
10.25.40 DM		dollars?
10:35:49 PM	Chairman Chandler - witness Pogue Note: Sacre, Candace T	hat idea of low-income weatherization program was proposed off
		of need identified in conjunction with community action agencies
		nome have to walk away from?
10:36:06 PM	Chairman Chandler - witness Pogue	
	Note: Sacre, Candace V	Vould go out and be ready to do weatherization, have to leave
		The state of the s
10.00.5:	b	pecause of health and safety issues or another reason?
10:36:31 PM	b Chairman Chandler - witness Pogue	pecause of health and safety issues or another reason?
10:36:31 PM	the Chairman Chandler - witness Pogue Note: Sacre, Candace	pecause of health and safety issues or another reason?

10:36:37 PM	Chairman Chandler - witness Pogue	
	·	a was \$1,000 from BREC customers to leverage so
	wea	atherization could occur?
10:36:45 PM	Chairman Chandler - witness Pogue	
	Note: Sacre, Candace Not	: being used at all?
10:37:18 PM	Chairman Chandler - witness Pogue	•
		are ongoing conversation with community action agencies, is
		derstanding no longer have to walk away from homes health and
		ety issues?
10:37:35 PM	Chairman Chandler - witness Pogue	•
	<u> </u>	our understanding, none of them having to walk away any
	moi	· , ,
10:37:44 PM	Chairman Chandler - witness Pogue	
		looking some other way to cost effectively use money?
10:38:17 PM	Chairman Chandler - witness Pogue	riboning some other way to cost effectively use money.
10.50.17 114	_	d one utility community action agency saying occasionally two out
	•	three homes going to weatherize had to walk away, been fixed,
		nk temporary fix?
10:38:40 PM	Chairman Chandler - witness Pogue	ik temporary fix:
10.30.40 FM		h officiancy heat numn \$1,000 per home, reading from 2019
		h efficiency heat pump \$1,000 per home. reading from 2018 ler?
10:38:50 PM	Chairman Chandler - witness Poque	ICI :
10.36.30 PM	3	who appreciaed #1 FOO definitely federal money available for
		ybe approved \$1,500, definitely federal money available for
		grade to more energy efficient appliamces, is that taken vantage of?
10:39:21 PM	Chairman Chandler	rantage or:
10.39.21 FM		Ctronit
10.20.41 DM	Note: Sacre, Candace Rec Chairman Chandler	direct?
10:39:41 PM		Dualday Mr. Dana?
10-20-44 DM	· · · · · · · · · · · · · · · · · · ·	Buckley, Mr. Depp?
10:39:44 PM	Atty Buckley BREC	L T. M. W. C. L
10 10 05 514		al witness, Matthew Sekeres.
10:40:05 PM	Chairman Chandler	
	•	ness is sworn.
10:40:12 PM	Chairman Chandler - witness Sekeres	
	•	amination. Name and address?
10:40:25 PM	Atty Buckley BREC - witness Sekeres	
		ect Examination. By whom employed?
10:40:31 PM	Atty Buckley BREC - witness Sekeres	
	Note: Sacre, Candace Clea	arspring retained by BREC in connection with IRP?
10:40:38 PM	Atty Buckley BREC - witness Sekeres	
	Note: Sacre, Candace Clea	arspring conductd load forecasting as well as DSM retention
	stud	dy?
10:40:44 PM	Atty Buckley BREC - witness Sekeres	
	Note: Sacre, Candace And	d are on load forecasting side?
10:40:47 PM	Atty Buckley BREC - witness Sekeres	•
	•	onsor data request responses?
10:40:50 PM	Atty Buckley BREC - witness Sekeres	' '
		anges or additions?
10:40:54 PM	Atty Buckley BREC - witness Sekeres	anges of additions.
101101011111	•	ted same questions, give same responses?
10:41:00 PM	Atty Buckley BREC - witness Sekeres	aca same questions, give same responses:
10.41.00 FM	•	ant recogness as testimony?
10./1.0E DM	Note: Sacre, Candace Add Chairman Chandler	opt responses as testimony?
10:41:05 PM		octions?
	Note: Sacre, Candace Que	estions?

Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:41:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:41:42 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:41:57 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:41:57 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:34 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:35 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:43:35 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:43:36 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:43:28 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:43:28 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:43:28 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:10 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:41 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:41 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:41 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:48 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:48 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:48 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:49 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:49 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:40 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace Note: Sacre, Ca	10 11 12 DM	AU C. L. 1/11/C. 11 C. L.	
2023 filing? Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:41:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:24 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:34 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:54 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:42:54 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:43:28 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:43:28 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:43:29 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:10 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:10 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:10 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:21 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace 10:44:22 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candac	10:41:12 PM	•	
10:41:19 PM		Note: Sacre, Candace	·
Note: Sacre, Candace Note: S	10·41·10 DM	Atty Cohn KILIC - witness Sekeres	-
10:41:21 PM	10.71.13 FM	•	
Note: Sacre, Candace Note: S	10·41·21 PM		· · ·
10:41:42 PM Note: Sacre, Candace Note: Sacre, Canda	10.71.21111	•	
Note: Sacre, Candace	10·41·42 PM	•	
10:41:57 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace No	10.71.72 F14	•	
Note: Sacre, Candace Nombrar up to tariff kilowatt line represents Domtar historic and projected peak load for IRP analysis? 10:42:31 PM Atty Cohn KIUC - witness Sekeres Note: Sacre, Candace Note:	10·41·57 PM		
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Exhibit List Report

2023-00310 22May2024 A

Big Rivers Electric Corporation (BREC)

Name:	Description:
JOINT INTERVENORS HEARING EXHIBIT 2	BSER AT-A-GLANCE
KIUC HEARING EXHIBIT 1	U S ENERGY INFORMATION ADMINISTRATION MARCH 2023 COST AND PERFORMANCE CHARACTERISTICS OF NEW GENERATING TECHNOLOGIES ANNUAL ENERGY OUTLOOK 2023
SIERRA CLUB HEARING EXHIBIT 2	ENERGY COMMISSION TAX CREDIT BONUS
SIERRA CLUB HEARING EXHIBIT 3	EPA CCS COST ESTIMATES
SIERRA CLUB HEARING EXHIBIT 4	BREC CCR COMPLIANCE WEBSITE
SIERRA CLUB HEARING EXHIBIT 5	EPA GOOD NEIGHBOR PLAN UNIT LEVEL ALLOCATIONS
SIERRA CLUB HEARING EXHIBIT 6	COMPLIANCE COST DETAILS

BSER At-A-Glance

Existing 111(d) Stea	m Generators	New Source and Reconstructed 111(b) Stationary Combustion Turbines					
Coal-Fired Boilers	Natural Gas and Oil-Fired Boilers	Phase I Date of promulgation or initial startup	Phase II Beginning in Jan 1, 2032				
Long-term subcategory: For units operating on or after January 1, 2039	BSER: routine methods of operation and maintenance with associated	Low Load Subcategory (Capacity Factor <20%)					
BSER: CCS with 90 percent capture of CO ₂ (88.4% reduction in emission rate lb/MWh-gross) by January 1, 2032	degree of emission limitation: Base load unit standard: (annual capacity factors greater than	BSER: Use of lower emitting fuels (e.g., hydrogen, natural gas and distillate oil) Standard: less than 160 lb CO₂/MMBtu	EPA is not finalizing a Phase II BSEF for low load units				
Medium-term subcategory: For units operating on or after Jan. 1, 2032, and	45%) 1,400 lb CO ₂ /MWh-gross	Intermediate Load Subcategory (Capacity Factor 20% to 40%*) *Source-specific upper bound threshold based on EGU design efficiency					
demonstrating that they plan to permanently cease operating before January 1, 2039	Intermediate load unit standard: (annual capacity factors greater than 8% and less than or equal to 45%) 1,600 lb CO ₂ /MWh-gross.	BSER: Highly efficient simple cycle technology with best operating and maintenance practices Standard: 1,170 lb CO ₂ /MWh-gross	EPA is not finalizing a Phase II BSER for intermediate load units				
SSER: co-firing 40% (by heat input) natural gas with emission limitation of a 16% eduction in emission rate (lb CO ₂ /MWh-ross basis) by January 1, 2030	Low load units: (annual capacity factors less than 8%) a uniform fuels BSER and a						
For units demonstrating that they plan to permanently cease operating before January L, 2032 Units are exempt from the rule. Cease operations dates finalized in state plans for exemption purposes are federally enforceable.	presumptive input-based standard of 170 lb CO ₂ /MMBtu for oil-fired sources and a presumptive standard of 130 lb CO ₂ /MMBtu for natural gasfired sources. Compliance date of January 1, 2030	*Operation above upper-bound thresh *BSER: Highly efficient combined cycle generation with the best operating and maintenance practices Standard: 800 lb CO ₂ /MWh-gross (EGUs with a base load rating of 2,000 MMBtu/h or more) Standard: 800 to 900 lb CO ₂ /MWh-gross (EGUs with a base load rating of less than 2,000 MMBtu/h)	pacity Factor >40%*) old for Intermediate Subcategory BSER: Continued highly efficient combined cycle generation with 90 CCS by Jan 1, 2032 Standard: 100 lb CO ₂ /MWh-gross EPA's standard of performance is technology neutral, affected source may comply with it by co-firing				

reliability assurance mechanism, provided appropriate documentation is submitted.

Major Modifications 111(b) Coal-fired Steam Generators: Standards of performance for coal-fired units that undertake a large modification (i.e., increases hourly emission rate by more than 10%) mirror the emission guidelines for existing coal-fired steam generators.

Interested parties can download a copy of the final rule from EPA's website at Greenhouse Gas Standards and Guidelines for Fossil Fuel-Fired Power Plants



Cost and Performance Characteristics of New Generating Technologies, *Annual Energy Outlook 2023*

These tables are also published in the Electricity Market Module chapter in our *Annual Energy Outlook* 2023 (AEO2023) Assumptions document. Table 1 includes our estimates of development and installation costs for various generating technologies used in the electric power sector. Typical generating technologies for end-use applications, such as combined heat and power or roof-top solar photovoltaics (PV), are described elsewhere in the Assumptions document. The costs in Table 1, except as noted below, are the costs for a typical facility for each generating technology before adjusting for regional cost factors. Overnight costs exclude interest accrued during plant construction and development. Technologies with limited commercial experience might include a technological optimism factor to account for the tendency to underestimate the full engineering and development costs for new technologies during technology research and development.

All technologies demonstrate some degree of cost variability, based on project size, location, and access to key infrastructure (such as grid interconnections, fuel supply, and transportation). For wind and solar PV, in particular, the cost favorability of the lowest-cost regions compound the underlying variability in regional cost and create a significant difference between the unadjusted costs and the capacity-weighted average national costs, as observed from recent market experience. To reflect this difference, we report a weighted average cost for both wind and solar PV, based on the regional cost factors assumed for these technologies in AEO2023 and the actual regional distribution of the builds that occurred in 2021 (Table 1).

Table 2 shows a full listing of the overnight costs for each technology and electricity region, if the resource or technology is available to be built in the given region. The regional costs reflect the impact of locality adjustments, including one to address ambient air conditions for technologies that include a combustion turbine and one to adjust for additional costs associated with accessing remote wind resources. Temperature, humidity, and air pressure can affect the available capacity of a combustion turbine, and our modeling addresses these possible effects through an additional cost multiplier by region. Unlike most other generation technologies where fuel can be transported to the plant, wind generators must be located in areas with the best wind resources. Sites that are located near existing transmission with access to a road network or are located on lower development-cost lands are generally built up first, after which additional costs may be incurred to access sites with less favorable characteristics. We represent this trend through a multiplier applied to the wind plant capital costs that increases as the best sites in a region are developed.

Table 1. Cost and performance characteristics of new central station electricity generating technologies

Part					Base					
Technology					-					
Combined-cycle-minle-shaft Combined-cycle						•	•			
Ultra-supercritical coal (USC) 2026 650 4 \$4,507 1.00 \$4,507 \$5.06 \$45.68 8,638 USC with 30% carbon capture and 2026 650 4 \$5,577 1.01 \$5,633 \$7.97 \$61.11 9,751 \$500	Table at a					•		,	•	
USC with 30% carbon capture and sequestration (CCS) USC with 90% CCS USC with 90% CS U	Company of the second s		_	The same of the sa						
Sequestration (CCS) USC with 90% CCS 2026 650 4 \$7,176 1.02 \$7,319 \$12.35 \$67.02 12,507				4				•	•	8,638
USC with 90% CCS 2026 650 4 \$7,176 1.02 \$7,319 \$12.35 \$67.02 12,507		2026	650	4	\$5,577	1.01	\$5,633	\$7.97	\$61.11	9,751
Combined-cycle—single-shaft 2025 418 3 \$1,330 1.00 \$1,330 \$2.87 \$15.87 6,431	, ,									
Combined-cycle—multi-shaft 2025 1,083 3 \$1,176 1.00 \$1,176 \$2.10 \$13.73 6,370	USC with 90% CCS	2026		4	\$7,176	1.02	\$7,319	\$12.35	\$67.02	12,507
Combined-cycle with 90% CCS 2025 377 3 \$3,019 1.04 \$3,140 \$6.57 \$31.06 7,124 Internal combustion engine 2024 21 2 \$2,240 1.00 \$2,240 \$6.40 \$39.57 8,295 Combustion turbine— 2024 105 2 \$1,428 1.00 \$1,428 \$5.29 \$18.35 9,124 aeroderivative\(^{\text{Normal}}\) Combustion turbine—industrial 2024 237 2 \$867 1.00 \$867 \$5.06 \$7.88 9,905 frame Fuel cells 2025 10 3 \$6,771 1.08 \$7,291 \$0.66 \$34.65 6,469 Nuclear—light water reactor 2028 2,156 6 \$7,406 1.05 \$7,777 \$2.67 \$136.91 10,447 Nuclear—small modular reactor 2028 600 6 \$7,590 1.10 \$8,349 \$3.38 \$106.92 10,447 Distributed generation—base 2025 2 3 \$1,915 1.00 \$1,915 \$9.69 \$21.79 \$9,894 \$21.79 \$9,8	, .				\$1,330	1.00	\$1,330	\$2.87	\$15.87	6,431
Internal combustion engine 2024 21 2 \$2,240 1.00 \$2,240 \$6.40 \$39.57 8,295	Combined-cycle—multi-shaft	2025	1,083	3	\$1,176	1.00	\$1,176	\$2.10	\$13.73	6,370
Combustion turbine	Combined-cycle with 90% CCS	2025	377	3	\$3,019	1.04	\$3,140	\$6.57	\$31.06	7,124
Combustion turbine—industrial 2024 237 2 \$867 1.00 \$867 \$5.06 \$7.88 9,905 \$1.00	Internal combustion engine	2024	21	2	\$2,240	1.00	\$2,240	\$6.40	\$39.57	8,295
Combustion turbine—industrial 2024 237 2 \$867 1.00 \$867 \$5.06 \$7.88 9,905		2024	105	2	\$1,428	1.00	\$1,428	\$5.29	\$18.35	9,124
Fruel cells 2025 10 3 \$6,771 1.08 \$7,291 \$0.66 \$34.65 6,469 \$1.0447 \$1	aeroderivative ^h									
Fuel cells 2025 10 3 \$6,771 1.08 \$7,291 \$0.66 \$34.65 6,469 Nuclear—light water reactor 2028 2,156 6 \$7,406 1.05 \$7,777 \$2.67 \$136.91 10,447 Nuclear—small modular reactor 2028 600 6 \$7,590 1.10 \$8,349 \$3.38 \$106.92 10,447 Distributed generation—base 2025 2 3 \$1,915 1.00 \$1,915 \$9.69 \$21.79 8,912 Distributed generation—peak 2024 1 2 \$2,300 1.00 \$2,300 \$9.69 \$21.79 9,894 Battery storage 2023 50 1 \$1,270 1.00 \$1,270 \$0.00 \$45.76 NA Biomass 2026 50 4 \$4,996 1.00 \$4,998 \$5.44 \$141.50 13,500 Geothermal ^[1,1] 2026 50 4 \$3,403 1.00 \$3,403 \$1.31 \$153.98 8,881 Conventional hydropowerl 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA trackinge, i.k.	Combustion turbine—industrial	2024	237	2	\$867	1.00	\$867	\$5.06	\$7.88	9,905
Nuclear—light water reactor 2028 2,156 6 \$7,406 1.05 \$7,777 \$2.67 \$136.91 10,447 Nuclear—small modular reactor 2028 600 6 \$7,590 1.10 \$8,349 \$3.38 \$106.92 10,447 Distributed generation—base 2025 2 3 \$1,915 1.00 \$1,915 \$9.69 \$21.79 8,912 Distributed generation—peak 2024 1 2 \$2,300 1.00 \$2,300 \$9.69 \$21.79 9,894 Battery storage 2023 50 1 \$1,270 1.00 \$1,270 \$0.00 \$45.76 NA Biomass 2026 50 4 \$4,996 1.00 \$4,998 \$5.44 \$141.50 13,500 Geothermally 2026 50 4 \$3,403 1.00 \$3,403 \$1.31 \$153.98 8,881 Conventional hydropowerl 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshorel 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermally 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA trackinge, k	frame									
Nuclear—small modular reactor 2028 600 6 \$7,590 1.10 \$8,349 \$3.38 \$106.92 10,447 Distributed generation—base 2025 2 3 \$1,915 1.00 \$1,915 \$9.69 \$21.79 8,912 Distributed generation—peak 2024 1 2 \$2,300 1.00 \$2,300 \$9.69 \$21.79 9,894 Battery storage 2023 50 1 \$1,270 1.00 \$1,270 \$0.00 \$45.76 NA Biomass 2026 50 4 \$4,996 1.00 \$4,998 \$5.44 \$141.50 13,500 Geothermally 2026 50 4 \$3,403 1.00 \$3,403 \$1.31 \$153.98 8,881 Conventional hydropower 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermally 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA trackinge, k	Fuel cells	2025	10	3	\$6,771	1.08	\$7,291	\$0.66	\$34.65	6,469
Distributed generation—base 2025 2 3 \$1,915 1.00 \$1,915 \$9.69 \$21.79 8,912 Distributed generation—peak 2024 1 2 \$2,300 1.00 \$2,300 \$9.69 \$21.79 9,894 Battery storage 2023 50 1 \$1,270 1.00 \$1,270 \$0.00 \$45.76 NA Biomass 2026 50 4 \$4,996 1.00 \$4,998 \$5.44 \$141.50 13,500 Geothermal 4 2026 50 4 \$3,403 1.00 \$3,403 \$1.31 \$153.98 8,881 Conventional hydropower 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2025 200 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermal 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA trackinge, i, k	Nuclear—light water reactor	2028	2,156	6	\$7,406	1.05	\$7,777	\$2.67	\$136.91	10,447
Distributed generation—peak 2024 1 2 \$2,300 1.00 \$2,300 \$9.69 \$21.79 9,894 Battery storage 2023 50 1 \$1,270 1.00 \$1,270 \$0.00 \$45.76 NA Biomass 2026 50 4 \$4,996 1.00 \$4,998 \$5.44 \$141.50 13,500 Geothermally 2026 50 4 \$3,403 1.00 \$3,403 \$1.31 \$153.98 8,881 Conventional hydropower 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermall 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photo	Nuclear—small modular reactor	2028	600	6	\$7,590	1.10	\$8,349	\$3.38	\$106.92	10,447
Battery storage 2023 50 1 \$1,270 1.00 \$1,270 \$0.00 \$45.76 NA Biomass 2026 50 4 \$4,996 1.00 \$4,998 \$5.44 \$141.50 13,500 Geothermally 2026 50 4 \$3,403 1.00 \$3,403 \$1.31 \$153.98 8,881 Conventional hydropower 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermally 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA trackinge, i, k	Distributed generation—base	2025	2	3	\$1,915	1.00	\$1,915	\$9.69	\$21.79	8,912
Biomass 2026 50 4 \$4,996 1.00 \$4,998 \$5.44 \$141.50 13,500 Geothermally 2026 50 4 \$3,403 1.00 \$3,403 \$1.31 \$153.98 8,881 Conventional hydropower 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermally 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA trackinge, i, k	Distributed generation—peak	2024	1	2	\$2,300	1.00	\$2,300	\$9.69	\$21.79	9,894
Geothermal ⁽¹⁾ 2026 50 4 \$3,403 1.00 \$3,403 \$1.31 \$153.98 8,881 Conventional hydropowerl 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermal 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA trackinge, i, k	Battery storage	2023	50	1	\$1,270	1.00	\$1,270	\$0.00	\$45.76	NA
Conventional hydropower! 2026 100 4 \$3,421 1.00 \$3,421 \$1.57 \$47.06 NA Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermal 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA trackinge, i, k	Biomass	2026	50	4	\$4,996	1.00	\$4,998	\$5.44	\$141.50	13,500
Winde 2025 200 3 \$2,098 1.00 \$2,098 \$0.00 \$29.64 NA Wind offshore 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermal 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with tracking e, i, k 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA	Geothermal ^(,)	2026	50	4	\$3,403	1.00	\$3,403	\$1.31	\$153.98	8,881
Wind offshore 2026 400 4 \$5,338 1.25 \$6,672 \$0.00 \$123.81 NA Solar thermal 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with tracking ^{e, i, k} 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA	Conventional hydropower	2026	100	4	\$3,421	1.00	\$3,421	\$1.57	\$47.06	NA
Solar thermal 2025 115 3 \$8,732 1.00 \$8,732 \$0.00 \$96.10 NA Solar photovoltaic (PV) with tracking ^{e, i, k} 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA	Winde	2025	200	3	\$2,098	1.00	\$2,098	\$0.00	\$29.64	NA
Solar photovoltaic (PV) with 2024 150 2 \$1,448 1.00 \$1,448 \$0.00 \$17.16 NA tracking ^{e, i, k}	Wind offshore	2026	400	4	\$5,338	1.25	\$6,672	\$0.00	\$123.81	NA
tracking ^{e, i, k}	Solar thermal	2025	115	3	\$8,732	1.00	\$8,732	\$0.00	\$96.10	NA
	Solar photovoltaic (PV) with	2024	150	2	\$1,448	1.00	\$1,448	\$0.00	\$17.16	NA
A Land Color	tracking ^{e, i, k}									
Solar PV with storage ^{1, k} 2024 150 2 \$1,808 1.00 \$1,808 \$0.00 \$32.42 NA	Solar PV with storage ^{1, k}	2024	150	2	\$1,808	1.00	\$1,808	\$0.00	\$32.42	NA

Data source: Sargent & Lundy, Cost and Performance Estimates for New Utility-Scale Electric Power Generating Technologies, December 2019; Hydroelectric: Oak Ridge National Lab, An Assessment of Energy Potential at Non-Powered Dams in the United States, 2012, and Idaho National Engineering and Environmental Laboratory, Estimation of Economic Parameters of U.S. Hydropower Resources, 2003; Geothermal: National Renewable Energy Laboratory, Updated U.S. Geothermal Supply Curve, 2010.

Note: MW=megawatt, kW=kilowatt, MWh=megawatthour, kWy=kilowattyear, kWh=kilowatthour; Btu=British thermal unit

^a The first year that a new unit could become operational.

^b Base cost includes project contingency costs.

- ^e We apply the technological optimism factor to the first four units of a new, unproven design; it reflects the demonstrated tendency to underestimate actual costs for a first-of-a-kind unit.
- ^d Overnight capital cost includes contingency factors and excludes regional multipliers (except as noted for wind and solar PV) and learning effects. Interest charges are also excluded. The capital costs represent current costs for plants that would come online in 2023.
- ^e Total overnight cost for wind and solar PV technologies in the table are the average input value across all 25 electricity market regions, as weighted by the respective capacity of that type installed during 2021 in each region to account for the substantial regional variation in wind and solar costs (Table 2). The input value used for onshore wind in AEO2023 was \$1,566 per kilowatt (kW), and for solar PV with tracking, it was \$1,443/kW, which represents the cost of building a plant excluding regional factors. Region-specific factors contributing to the substantial regional variation in cost include differences in typical project size across regions, accessibility of resources, and variation in labor and other construction costs throughout the country.

 f O&M=operations and maintenance
- E The nuclear average heat rate is the weighted average tested heat rate for nuclear units as reported on the Form EIA-860, Annual Electric Generator Report. No heat rate is reported for battery storage because it is not a primary conversion technology; conversion losses are accounted for when the electricity is first generated, and electricity-to-storage losses are accounted for through the additional demand for electricity required to meet load. For hydropower, wind, solar, and geothermal technologies, no heat rate is reported because the power is generated without fuel combustion, and no set British thermal unit conversion factors exist. The module calculates the average heat rate for fossil-fuel generation in each year to report primary energy consumption displaced for these resources.
- h Combustion turbine aeroderivative units can be built by the module before 2024, if necessary, to meet a region's reserve margin.
- Capital costs are shown before investment tax credits are applied.
- Because geothermal and hydropower cost and performance characteristics are specific for each site, the table entries show the cost of the least expensive plant that could be built in the Northwest region for hydro and the Great Basin region for geothermal, where most of the proposed sites are located.
- k Costs and capacities are expressed in terms of net AC (alternating current) power available to the grid for the installed capacity.

Table 2. Total overnight capital costs of new electricity generating technologies by region 2022 dollars per kilowatt

Technology	1 TRE	2 FRCC	3 MISW	4 MISC	5 MISE	6 MISS	7 ISNE	8 NYCW	9 NYUP	10 PJME	11 PJMW	12 PJMC	13 PJMD
USC	\$4,188	\$4,311	\$4,711	\$4,835	\$4,892	\$4,334	\$5,222	NA	\$5,104	\$5,269	\$4,495	\$5,664	\$4,851
USC with 30% CCS	\$5,281	\$5,421	\$5,852	\$6,011	\$6,058	\$5,456	\$6,463	NA	\$6,334	\$6,504	\$5,632	\$6,914	\$6,055
USC with 90% CCS	\$6,907	\$7,083	\$7,558	\$7,812	\$7,820	\$7,152	\$8,281	NA	\$8,068	\$8,294	\$7,292	\$8,831	\$7,750
CC—single-shaft	\$1,200	\$1,225	\$1,366	\$1,379	\$1,414	\$1,236	\$1,594	\$2,116	\$1,599	\$1,597	\$1,324	\$1,600	\$1,524
CC—multi-shaft	\$1,045	\$1,072	\$1,215	\$1,236	\$1,268	\$1,084	\$1,393	\$1,909	\$1,370	\$1,401	\$1,147	\$1,469	\$1,295
CC with 90% CCS	\$2,945	\$2,972	\$3,175	\$3,182	\$3,231	\$2,999	\$3,334	\$3,776	\$3,258	\$3,307	\$3,041	\$3,447	\$3,168
ICE	\$2,106	\$2,152	\$2,300	\$2,391	\$2,365	\$2,182	\$2,451	\$3,073	\$2,359	\$2,452	\$2,197	\$2,673	\$2,282
CT—	\$1,263	\$1,289	\$1,494	\$1,498	\$1,543	\$1,316	\$1,607	\$2,057	\$1,551	\$1,598	\$1,370	\$1,755	\$1,454
aeroderivative													
CT—industrial	\$764	\$781	\$907	\$911	\$939	\$798	\$978	\$1,262	\$942	\$973	\$830	\$1,072	\$883
frame													
Fuel cells	\$6,996	\$7,105	\$7,430	\$7,750	\$7,603	\$7,224	\$7,887	\$9,285	\$7,567	\$7,819	\$7,204	\$8,337	\$7,425
Nuclear—light	\$7,341	\$7,499	\$7,917	\$8,637	\$8,330	\$7,744	\$8,809	NA	\$8,219	\$8,608	\$7,608	\$9,465	\$7,918
water reactor			V/										
Nuclear—small	\$7,779	\$7,962	\$8,674	\$9,044	\$9,041	\$8,061	\$9,338	NA	\$8,894	\$9,357	\$8,160	\$10,440	\$8,474
modular reactor													
Distributed	\$1,729	\$1,764	\$1,967	\$1,986	\$2,036	\$1,779	\$2,296	\$3,047	\$2,302	\$2,300	\$1,907	\$2,304	\$2,195
generation—base													
Distributed	\$2,034	\$2,076	\$2,405	\$2,412	\$2,485	\$2,119	\$2,587	\$3,312	\$2,497	\$2,573	\$2,206	\$2,827	\$2,341
generation—peak													
Battery storage	\$1,270	\$1,273	\$1,255	\$1,316	\$1,273	\$1,300	\$1,309	\$1,304	\$1,275	\$1,278	\$1,267	\$1,283	\$1,278
Biomass	\$4,637	\$4,764	\$5,157	\$5,329	\$5,340	\$4,802	\$5,933	\$8,054	\$5,952	\$6,056	\$5,093	\$6,067	\$5,804
Geothermal	NA	NA											
Conventional	\$4,992	\$6,098	\$2,426	\$1,612	\$3,283	\$4,858	\$2,248	NA	\$4,599	\$4,777	\$4,164	NA	\$4,226
hydropower													
Wind	\$3,059	NA	\$1,723	\$1,566	\$1,875	\$1,566	\$2,075	NA	\$2,531	\$2,075	\$1,566	\$2,281	\$2,161
Wind offshore	\$6,517	\$7,819	\$7,714	NA	\$7,989	NA	\$7,783	\$6,714	\$8,139	\$7,461	\$6,100	\$8,834	\$6,950
Solar thermal	\$8,424	\$8,551	NA	NA									
Solar PV with tracking	\$1,422	\$1,395	\$1,443	\$1,497	\$1,480	\$1,407	\$1,494	\$1,758	\$1,480	\$1,524	\$1,440	\$1,571	\$1,436
Solar PV with storage	\$1,751	\$1,769	\$1,822	\$1,880	\$1,854	\$1,787	\$1,892	\$2,150	\$1,858	\$1,896	\$1,780	\$1,971	\$1,842

	14	15	16	17	18	19	20					
Technology	SRCA	SRSE	SRCE	SPPS	SPPC	SPPN	SRSG	21 CANO	22 CASO	23 NWPP	24 RMRG	25 BASN
USC	\$4,337	\$4,401	\$4,460	\$4,366	\$4,638	\$4,415	\$4,600	NA	NA	\$4,874	\$4,556	\$4,754
USC with 30% CCS	\$5,460	\$5,511	\$5,593	\$5,475	\$5,778	\$5,526	\$5,765	NA	NA	\$6,059	\$5,704	\$5,918
USC with 90% CCS	\$7,165	\$7,228	\$7,313	\$7,127	\$7,489	\$7,178	\$7,466	NA	NA	\$7,833	\$7,355	\$7,697
CC—single-shaft	\$1,220	\$1,235	\$1,273	\$1,234	\$1,309	\$1,222	\$1,201	\$1,759	\$1,719	\$1,399	\$1,132	\$1,224
CC—multi-shaft	\$1,071	\$1,085	\$1,124	\$1,083	\$1,163	\$1,074	\$1,034	\$1,547	\$1,504	\$1,213	\$974	\$1,092
CC with 90% CCS	\$2,962	\$2,977	\$3,044	\$2,966	\$3,065	\$2,921	\$2,702	\$3,389	\$3,351	\$3,126	\$2,541	\$2,854
ICE	\$2,194	\$2,200	\$2,238	\$2,178	\$2,295	\$2,200	\$2,221	\$2,661	\$2,613	\$2,367	\$2,192	\$2,347
CT— aeroderivative	\$1,309	\$1,320	\$1,370	\$1,318	\$1,411	\$1,327	\$1,198	\$1,687	\$1,645	\$1,480	\$1,159	\$1,322
CT— industrial frame	\$793	\$801	\$831	\$799	\$857	\$804	\$726	\$1,031	\$1,004	\$900	\$702	\$803
Fuel cells	\$7,277	\$7,271	\$7,371	\$7,144	\$7,443	\$7,209	\$7,309	\$8,375	\$8,278	\$7,655	\$7,169	\$7,636
Nuclear—light water reactor	\$7,843	\$7,782	\$8,035	\$7,530	\$7,962	\$7,527	\$7,808	NA	NA	\$8,451	\$7,563	\$8,460
Nuclear—small modular reactor	\$8,101	\$8,164	\$8,349	\$8,082	\$8,583	\$8,150	\$8,258	NA	NA	\$8,942	\$8,170	\$8,880
Distributed generation—base	\$1,757	\$1,778	\$1,833	\$1,777	\$1,886	\$1,760	\$1,729	\$2,533	\$2,475	\$2,014	\$1,630	\$1,763
Distributed generation—peak	\$2,107	\$2,126	\$2,206	\$2,123	\$2,273	\$2,137	\$1,929	\$2,716	\$2,649	\$2,383	\$1,867	\$2,128
Battery storage	\$1,311	\$1,293	\$1,309	\$1,264	\$1,272	\$1,257	\$1,286	\$1,323	\$1,325	\$1,300	\$1,259	\$1,310
Biomass	\$4,820	\$4,857	\$4,921	\$4,825	\$5,126	\$4,926	\$5,276	\$6,759	\$6,606	\$5,455	\$5,227	\$5,226
Geothermal	NA	NA	NA	NA	NA	NA	\$3,468	\$3,440	\$2,785	\$3,366	NA	\$3,403
Conventional hydropower	\$2,353	\$5,104	\$2,638	\$5,049	\$2,128	\$2,000	\$4,056	\$4,291	\$4,132	\$3,421	\$4,085	\$4,464
Wind	\$1,867	\$2,116	\$1,566	\$1,566	\$1,723	\$1,723	\$1,566	\$3,458	\$2,715	\$2,283	\$1,566	\$1,566
Wind offshore	\$6,005	NA	NA	NA	NA	NA	NA	\$10,064	\$10,558	\$7,550	NA	NA
Solar thermal	NA	NA	NA	\$8,509	\$8,838	\$8,422	\$8,826	\$10,397	\$10,266	\$9,394	\$8,481	\$9,413
Solar PV with tracking	\$1,465	\$1,392	\$1,438	\$1,394	\$1,449	\$1,404	\$1,418	\$1,579	\$1,570	\$1,453	\$1,435	\$1,448
Solar PV with storage	\$1,799	\$1,781	\$1,802	\$1,768	\$1,826	\$1,787	\$1,796	\$1,969	\$1,964	\$1,858	\$1,789	\$1,854

Data source: U.S. Energy Information Administration, Office of Electricity, Coal, Nuclear and Renewables Analysis

Notes: Costs include contingency factors, regional cost multipliers, and ambient condition multipliers. Interest charges are excluded. The costs are shown before investment tax credits are applied.

NA=not available; plant type cannot be built in the region because of a lack of resources, sites, or specific state legislation.

USC=ultra-supercritical, CCS=carbon capture and sequestration, ICE=internal combustion engine, CC=combined cycle, CT=combustion turbine, PV=photovoltaic.

Electricity Market Module region map

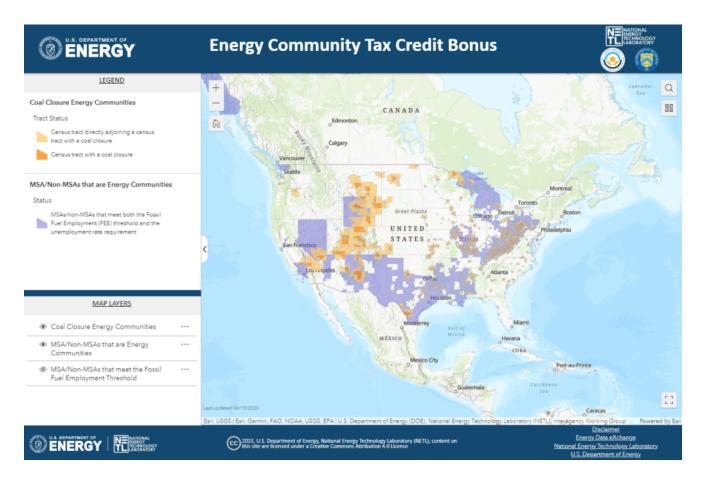
Energy Community Tax Credit Bonus

energycommunities.gov/energy-community-tax-credit-bonus/

The Energy Community Tax Credit Bonus advances the Administration's commitments to support and revitalize the economies of coal and power plant communities.

As defined in the Inflation Reduction Act (IRA), the Energy Community Tax Credit Bonus applies a bonus of up to 10% (for production tax credits) or 10 percentage points (for investment tax credits) for projects, facilities, and technologies located in energy communities. Increased credit amounts or rates are available to taxpayers that satisfy certain energy community requirements under Section 45, 48, 45Y, or 48E of the Internal Revenue <u>Code</u>. The IRA defines energy communities as:

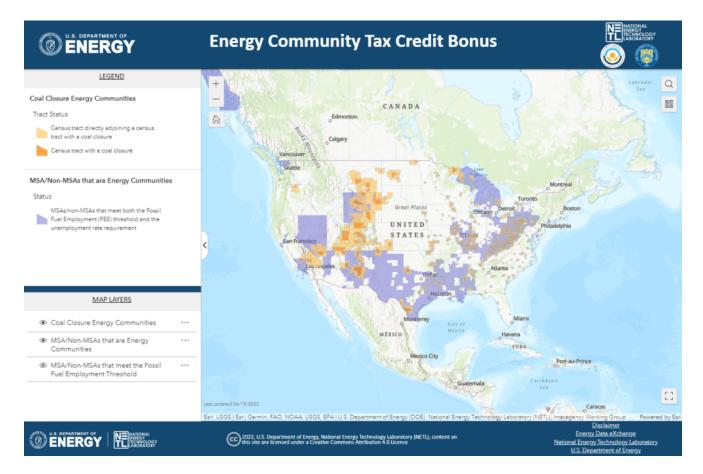
- 1. A "brownfield site" (as defined in certain subparagraphs of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA))
- 2. A "metropolitan statistical area" or "non-metropolitan statistical area" that has (or had at any time after 2009)
 - 0.17% or greater direct employment or 25% or greater local tax revenues related to the extraction, processing, transport, or storage of coal, oil, or natural gas; and
 - has an unemployment rate at or above the national average unemployment rate for the previous year
- 3. A census tract (or directly adjoining census tract)
 - o in which a coal mine has closed after 1999; or
 - in which a coal-fired electric generating unit has been retired after 2009



Frequently Asked Questions

The mapping tool below reflects currently available data on two types of energy communities. First, the map shows energy communities that are census tracts and that have had coal mine closures after December 31, 1999 or coal-fired electric generating unit retirements after December 31, 2009, and tracts that are directly adjoining. Second, the map shows the metropolitan statistical areas (MSAs) and non-metropolitan statistical areas (non-MSAs) that are energy communities for 2023. These MSAs and non-MSAs have had for at least one year since 2009, 0.17% or greater direct employment related to extraction, processing, transport, or storage of coal, oil, or natural gas (the fossil fuel employment (FFE) threshold) and have an unemployment rate for 2022 that is equal to or greater than the national average unemployment rate for 2022. These MSAs and non-MSAs that meet the 2022 unemployment rate requirement are energy communities as of January 1, 2023 and will maintain that status until the unemployment rates for 2023 become available and a new list of energy communities is provided. The guidance that determines the MSAs and non-MSAs that are energy communities based on 2023 unemployment rates will likely be released in May 2024. In addition, the map shows MSAs and non-MSAs that only meet the FFE threshold. These MSAs and non-MSAs are not energy communities for 2023 because they do not meet the unemployment rate requirement; however, these areas could become energy communities in a future year if the unemployment requirement is also met. Note that brownfields are not shown on this map.

Click here or on the map below to open full screen.



For general questions or comments, contact <u>Contact@EnergyCommunities.gov</u>. For questions on closed coal mines, see the <u>Mine Data Retrieval System</u> or contact the <u>MSHA Data Group</u>.

For questions on closed power plants data, contact lnfoElectric@eia.gov.

Frequently Asked Questions

Disclaimer

The mapping tool may not be relied upon by taxpayers to substantiate a tax return position or for determining whether certain penalties apply and will not be used by the IRS for examination purposes. The mapping tool does not reflect the application of the law to a specific taxpayer's situation, and the applicable Internal Revenue Code provisions ultimately control.

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