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1 APPEARANCES FOR THE CITY OF JACKSONVILLE:	1 STEVEN MCINALL,
2 LEE WEDEKIND, ESQUIRE	2 having been produced and first duly sworn as a witness,
DANIEL NUNN, ESQUIRE 3 Nelson, Mullins, Riley & Scarborough, LLP	3 testified as follows:
50 North Laura Street, 41st Floor	4 THE WITNESS: Yes, I do.
4 Jacksonville, FL 32202	5 EXAMINATION
5 6 ADINA TEODORESCU, ESQUIRE	6 BY MR. WEDEKIND:
ADINA TEODORESCO, ESQUIRE ARIEL COOK, ESQUIRE (Appearing telephonically)	7 Q Would you please state your name and address
7 Office of General Counsel	8 for the record?
117 West Duval Street, Suite 4803 Jacksonville, FL 32202	9 A Steve McInall, M-C-I-N-A-L-L. My address is
9 Jacksonvine, FL 52202	10 626 Grampian, G-R-A-M-P-I-A-N, Highlands Drive in
10 KEVIN BLODGETT, ESQUIRE	11 St. Johns, and that's 32251.
Smith, Hulsey & Busey11One Independent Drive, Suite 3300	12 Q Mr. McInall, you understand that you are
Jacksonville, FL 32202	13 currently on administrative leave as an employee of
12	14 JEA
13 ALSO PRESENT: JAMES BLEDSOE, JR., ESQUIRE	15 A Yes. 16 Q correct?
14	10 Q correct? 17 And this interview is being conducted as part
15	18 of an investigation to determine whether there exists
16 17	19 grounds for your termination for cause; right?
18	20 A Correct.
19 20	21 Q You have been provided with a statement of
20 21	22 rights, the Garrity form; correct?
22	A l've seen it, yes.
23 24	24 Q Did you execute the Garrity form?
25	25 A I have not.

	Page 5		Page 7
1	Q Okay.	1	So to the extent that you either don't hear
2	MR. BLEDSOE: Not for this proceeding. He	2	clearly or you can't understand what I'm trying to say
3	executed one for the earlier interview.	3	because of this mask or for any other reason, I'd ask
4	BY MR. WEDEKIND:	4	that you just ask me to repeat or restate my question.
5	Q Okay. We need to get that handled. I don't	5	I'll be happy to do that.
6	have a copy of it with me. I've seen it. We will have	6	A Great. Thank you.
7	it printed.	7	Q Finally, because we do have a court reporter
8	A Okay.	8	here taking a transcription of today's conversation, I
9	Q And you will sign it. I will sign it.	9	would ask that you work with me not to talk over one
10	Mr. McElroy has already signed it. And that will	10	other, so that I will ask a question and I'll allow you
11	provide evidence that this interview today is being	11	to finish your answer before I ask my next one, and I
12	taken at JEA's direction, subject to your termination	12	would ask that to the best that you can, please wait
13	for cause if you fail to cooperate, which provides you	13	before you begin your answer to my question until I've
14	with the Garrity protection.	14	finished it.
15	So everything that you say today is deemed to	15	I sometimes have an issue with pausing in the
16	be protected under Garrity, and you cannot be criminally	16	middle of a question, which can be can complicate
17	prosecuted for anything that you say today.	17	that, and so I'll work very hard to get my questions out
18	A Okay.	18	in a way that you can answer them.
19	Q Okay. All right. As part of today's	19	Can you do that?
20	interview, you have the duty as a JEA employee to answer	20	A Yes.
21	all of my questions completely and honestly. What I	21	Q Okay. Can you please provide me with all of
22	mean by that is that if there's any information that you	22	the cell phone numbers that you have used during the
23	think is relevant or important for me to know related to	23	last two years.
24	the questions that I'm asking, even if it isn't	24	A (904) 312-0739 is the only number.
25	directly, precisely responsive to my questions, I would	25	Q Okay. Same question for email addresses.
	Page 6	1	Page 8
1	Page 6	1	Page 8
1	ask that you provide me with that information. And, of	1	A As far as work email or
2	ask that you provide me with that information. And, of course, all the information that you provide is expected	2	A As far as work email orQ Any work email addresses that you have and any
	ask that you provide me with that information. And, of course, all the information that you provide is expected to be the truth.		A As far as work email or Q Any work email addresses that you have and any personal email addresses that you've used in the last
2 3	ask that you provide me with that information. And, of course, all the information that you provide is expected to be the truth. A Okay.	2 3 4	A As far as work email or Q Any work email addresses that you have and any personal email addresses that you've used in the last two years.
2 3 4	ask that you provide me with that information. And, of course, all the information that you provide is expected to be the truth.A Okay.Q Today is not a deposition. I know that it	2 3	 A As far as work email or Q Any work email addresses that you have and any personal email addresses that you've used in the last two years. A So mcinsg@jea.com is the work email. And
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2 (Pages 5 to 8)

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1	other members of the SLT?	1	I looked at the annual energy outlook 2020.
2	A There was that GroupMe app that was basically	2	Realized I hadn't really kind of dove into that yet. So
3	a group chat, and it went out to all the SLT members.	3	that's a U.S. government production.
4	And that was used by all the SLT members to share things	4	MR. NUNN: That's the one published by the
5	that had happened in their areas and get reactions.	5	Energy Information Agency?
6	And it was really I don't think it was so	6	THE WITNESS: Yes. Correct.
7	much for conducting business as much as keeping people	7	BY MR. WEDEKIND:
8	up to date. For instance, if there had been a pipe	8	Q Anything else?
9	break, Deryle Calhoun would send out, we've got a pipe	9	A As far as preparation, that's really that's
10	break at X location. And Kerri would chime in with	10	really it.
11	something about, you know, we'll get a press release or	11	Q Other than your attorney, did you speak with
12	we'll work with the media to department to notify	12	anybody else?
13	people about that.	13	A I've spoken with other SLT members, but not
14	So it was really just to, I think, get	14	about not about preparation for the testimony, just,
15	everybody, you know, on the same page. And then a lot	15	you know, really catching up, see how they're doing.
16	of people used it for just sharing articles of common	16	Interested in when people are testifying or if. Up
17	interest. You know, if there was a particular news item	17	until a week or so ago, you know, nobody had really been
18	that somebody felt newsworthy, then it would get shared	18	scheduled. We hadn't heard anything.
19	and then have reactions to it.	19	So, you know, just everybody trying to keep
20	That GroupMe app was used in order for all the	20	informed. And I spoke with probably most of them at one
21	messages to be properly memorialized.	21	point or another.
22	Q Were there any other apps other than GroupMe	22	Q Did you speak with Melissa Dykes?
23	that you ever used in connection with your work on the	23	A I spoke with Melissa the day Paul let us
24	SLT?	24	all go, she had called to offer, you know, just
25	A No.	25	condolences and understanding. And then I communicated
	Page 10		Page 12
1	Q Before we get into the real nuts and bolts of	1	with her, I think, by either text just to line her up as
2	my questions, I wanted to provide you with an	2	a future reference.
3	opportunity to say anything that you wanted to go ahead	3	Q How about Ryan Wannemacher?
4	and have on the record.	4	A I actually spoke with Ryan for the first time
5	I just want to let you know I'll also provide	5	since he left Sunday night, and it's because I needed a
6	you with the same opportunity at the end of today's	6	number for my final statement. I thought asking him
7	interview, and so this is just a chance for you to say	7	would be easier than trying to look it up and
8	anything on the record that you want to say.	8	everything.
9	A I do have a statement, but I was going to save	9	Q What do you mean final statement?
10	it for the end.	10	A My my what I was going to say at the end
11	Q Very good.	11	of this.
12	All right. What did you do to prepare for	12	Q Okay.
13	today's interview?	13	A It was it was what was the net present
14	A I talked with my lawyers. I reviewed my prior	14	value of the St. Johns River Power Park deal.
15	testimony from January 2nd. I listened to your	15	Oh, can I add in? The other thing I looked at
16	presentation to the Special Investigative Committee. I	16	in preparation for today was going back through prior
17	watched my presentation to the Special Investigative	17	board meetings just to look at what presentations I had
18	Committee.	18	made since Aaron had been CEO, just getting that
19	I reviewed some of our previous ten-year site	19	straight in my head.
20	plans downloaded from the Public Service Commission	20	Q Did you speak with Mr. Zahn?
21	website as well as their 2019 review of the ten-year	21	A I have not spoken with Mr. Zahn.
22	site plans. And just kind of caught up on industry	22	Q Since his termination?
23	trends on challenges facing the utility industry, the	23	A Since his termination.
24	looked at a McKinsey report for 2019 of just their	24	Q Why did you go back and look at the JEA board
25	overall predictions, utility outlook.	25	meetings at which you presented during Mr. Zahn's
		1	

3 (Pages 9 to 12)

	Page 13		Page 15
1	tenure?	1	Zammatoro, Z-A-M-M-A-T either another A or maybe an
2	A I was just interested to see what information	2	O R-O. It auto populates before I have to get that
3	I presented to the board.	3	far.
4	Q Did the information during Mr. Zahn's tenure	4	And on the real estate side, Donald Burch was
5	as CEO of JEA have a different form or importance than	5	the manager of real estate. And Jordan Pope did the
6	other information that you would have previously	6	economic development and government relations. And then
7	provided to the board?	7	Donald retired, and I kind of poached Jordan from
8	A No. But I assumed it was going to be the	8	Mike Hightower, and he brought the economic development
9	focus of this discussion. And, of course, I wasn't an	9	portion with him into the real estate group.
10	SLT member prior to that.	10	Q So Jordan is a direct report of yours?
11	Q Did you have have you had any	11	A My three direct reports were John Coarsey, Rob
12	communications with Herschel Vinyard?	12	Zammatoro, and Jordan Pope, yes.
13	A No, I have not.	13	Q Are you familiar with the
14	Q Lynne Rhode?	14	City of Jacksonville's RFP to provide long-term
15	A No, I have not.	15	strategic planning advisory services that was put out
16	Q What was the title of your last position at	16	for bid in December of 2017?
17	JEA?	17	A The City of Jacksonville's?
18	A The last one before this one or this one?	18	Q Yes.
19	Q The one that you currently hold.	19	A Not really, no.
20	A Vice president and vice president and chief	20	Q Okay. Were you involved in that work in any
21	of energy and water planning.	21	way?
22	Q My understanding is that was a combination of	22	A Not that I recall.
23	two prior roles; is that right?	23	Q Do you know anybody who was at JEA?
24	A It was formed it really came from three	24	A Was that related to the prior sale?
25	different areas. The energy planning came from the	25	Q It was related to a prior discussion about
			· ·
	Page 14		Page 16
1	Page 14 energy group, or the former electric group. Water	1	Page 16 privatization in 2018.
1 2	_	1 2	_
	energy group, or the former electric group. Water		privatization in 2018.
2	energy group, or the former electric group. Water planning came out of the water department. And then	2	privatization in 2018. A Yeah, I was the director at that time, and,
2 3	energy group, or the former electric group. Water planning came out of the water department. And then the it also included real estate and economic	2 3	privatization in 2018. A Yeah, I was the director at that time, and, you know, I I don't recall who, if anybody, was
2 3 4	energy group, or the former electric group. Water planning came out of the water department. And then the it also included real estate and economic development, and that came from the facilities group as	2 3 4	privatization in 2018. A Yeah, I was the director at that time, and, you know, I I don't recall who, if anybody, was involved with that.
2 3 4 5	energy group, or the former electric group. Water planning came out of the water department. And then the it also included real estate and economic development, and that came from the facilities group as far as as far as real estate and economic development	2 3 4 5	privatization in 2018. A Yeah, I was the director at that time, and, you know, I I don't recall who, if anybody, was involved with that. Q When did you move from the director level to
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4 (Pages 13 to 16)

	Page 17		Page 19
1	remember that that was discussed later, yes.	1	you know, we worked diligently to work through
2	Q Okay. Are you aware of any JEA employees	2	Scenario 2, and I think had Scenario 3 not been
3	exploring privatization after May 15th, 2018, but before	3	authorized that, you know, Scenario 2 would have been
4	July 23rd, 2019?	4	invoked or more heavily investigated. So, you know, it
5	A So the interpretation, as I recall, from Aaron	5	was a real possibility at that time.
6	and the upper echelon leadership was after the I	6	Q After Scenario 3 was rejected by the JEA
7	think it was the June board meeting, but whenever the	7	board, did it begin implementing Scenario 2?
8	Scenario 1 and Scenario 2 were presented and were both	8	A When Scenario 3 was rejected back in
9	kind of rejected and the request went out to find you	9	December 2019?
10	know, show us something different.	10	Q Yes.
11	At that point there was there was some	11	A No. Because at that time Aaron had also been
12	discussion about what are the other options, and	12	dismissed. New leadership was in place. You know,
13	privatization was one of them. So certainly before the	13	there was no consensus for what the next step was. And
14	July 23rd meeting you know, the information at the	14	the board at that time was not in a position to really
15	July 23rd meeting couldn't have been there without some	15	change directions.
16	discussion about privatization leading up to it.	16	Q There's been a lot of discussion about the
17	But I don't recall anything specifically being	17	different mechanisms by which JEA does its planning.
18	discussed, authorized, worked on prior to prior to	18	And I know that you've talked about this before, but I
19	that Scenario 2 rejection.	19	think it would be helpful for me if you would walk
20	Q At the July 29 board meeting or excuse me,	20	through a couple of different planning mechanisms that
21	the June 29 board meeting?	21	JEA has historically used.
22	A Right.	22	So the things that come to my mind and
23	Q Okay. Was it ever implied by anyone else or	23	please supplement if I'm wrong are the ten-year site
24	inferred by you that all of the long-term strategic	24	plan, which is filed on an annual basis with the Public
25	planning work that was being done by McKinsey and other	25	Service Commission; the IRP, which is done on about
	Page 18		Page 20
1	members of the SLT was in preparation for a push to	1	four I lou lou do do loui-
2			as far as I know, about a decade basis.
	privatize JEA?	2	And who is the IRP filed with?
3	privatize JEA? A Implied or inferred?	2 3	
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4	A Implied or inferred?Q Implied by anyone or inferred by you.	3 4	And who is the IRP filed with? A IRP is only filed if there's if there's a licensing decision that comes out of the IRP. The 2012
4 5	A Implied or inferred?Q Implied by anyone or inferred by you.A So I think I think there was a because	3 4 5	And who is the IRP filed with? A IRP is only filed if there's if there's a licensing decision that comes out of the IRP. The 2012 IRP, for instance, was never filed with anybody.
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5 (Pages 17 to 20)

	Page 21		Page 23
1 on wate	r?	1	the group that's preparing the FEECA. So the
	No. Those were electric only.	2	information they provided us in that year that they're
	So the IWRP would be a water companion of the	3	doing the FEECA should be consistent with their FEECA
	hich is on the electric side?	4	filing.
	Right. Right.	5	But, you know, my group didn't really have any
	Are there any other planning documents or	6	say in the FEECA filing. And the and I believe they
	es that JEA has used?	7	would look at our overall projections for growth and for
8 A	So the finance people have got their	8	net energy per load and would use that in their
	ions that they use at the rating agencies which	9	information. So the groups would work together, but
	necessarily based on any of the formal planning	10	certainly each product was independent, you know, of the
11 docume		11	other.
12 7	The plans as far as projections over a	12	Q But they would utilize information from the
	ar period are reflected in the annual disclosure	13	others. So the ten-year site plan would utilize
	hat goes out, and that goes out to the rating	14	information from the FEECA filings, and the FEECA
	s. And that's well, it gets posted on EMMA,	15	filings would utilize information from the ten-year site
-	s the essential data site for municipal financial	16	plan?
17 filings.	ľ	17	A Right. And that's the distinction I'm trying
-	And there had been previous strategic	18	to draw is that I don't know for sure that the ten-year
	ts and investigations. I know Deloitte had done	19	site plan drew information from the FEECA filing but got
	ing a few years ago. I'm not as familiar with the	20	that information from the group that prepared the FEECA
	at they did. And before that, there had been,	21	filing.
	e, strategic consultants come in and come up with	22	Because certainly, if it's not a year that
23 someth		23	there's a FEECA filing going in, the energy efficiency
	AR. NUNN: Could you speak to the market	24	or demand side management goals can change year to year
	ntial reports that are filed with the Public	25	within that five-year FEECA period based on what the
	Page 22		Page 24
1 Serv	ice Commission?	1	actuals were the year before.
2 T	HE WITNESS: Is that the FEECA filings?	2	Q I understand that clarification.
3 N	IR. NUNN: Uh-huh.	3	My point is only that there was an effort by
4 T	HE WITNESS: So those are filed every five	4	IF A to have a consistent anomatotion of data hatman
5 year	The lines. The success success does the sec		JEA to have a consistent presentation of data between
	s, I believe. The customer group does those.	5	its ten-year site plan and its FEECA filings?
6 I bel	ieve they get some information from the		-
		5	its ten-year site plan and its FEECA filings?
7 ten-y	ieve they get some information from the	5 6	its ten-year site plan and its FEECA filings? A I believe so. But like I said, I you know,
7 ten-y 8 I r	ieve they get some information from the year site plans from other departments. But	5 6 7	its ten-year site plan and its FEECA filings? A I believe so. But like I said, I you know, I'm not as familiar with what the FEECA filing is, so I
7 ten-y 8 I r 9 all, s	ieve they get some information from the year site plans from other departments. But ny group wasn't involved in those filings at	5 6 7 8	its ten-year site plan and its FEECA filings? A I believe so. But like I said, I you know, I'm not as familiar with what the FEECA filing is, so I can't really say that definitively.
7 ten-y 8 Ir 9 all, s 10 T	ieve they get some information from the year site plans from other departments. But ny group wasn't involved in those filings at to I really can't speak to the content.	5 6 7 8 9	 its ten-year site plan and its FEECA filings? A I believe so. But like I said, I you know, I'm not as familiar with what the FEECA filing is, so I can't really say that definitively. Q It's my understanding going back now,
7 ten-y 8 I r 9 all, s 10 T 11 with 12 but t	ieve they get some information from the year site plans from other departments. But my group wasn't involved in those filings at to I really can't speak to the content. here's sort of a back-and-forth relationship the FEECA would pull information from ours, hen once they identified their energy	5 6 7 8 9 10	 its ten-year site plan and its FEECA filings? A I believe so. But like I said, I you know, I'm not as familiar with what the FEECA filing is, so I can't really say that definitively. Q It's my understanding going back now, focusing on the ten-year site plan and the IRP.
7 ten-y 8 I r 9 all, s 10 T 11 with 12 but t 13 efficient	ieve they get some information from the year site plans from other departments. But my group wasn't involved in those filings at to I really can't speak to the content. There's sort of a back-and-forth relationship the FEECA would pull information from ours, hen once they identified their energy iency targets and what they expected to hit,	5 6 7 8 9 10 11	 its ten-year site plan and its FEECA filings? A I believe so. But like I said, I you know, I'm not as familiar with what the FEECA filing is, so I can't really say that definitively. Q It's my understanding going back now, focusing on the ten-year site plan and the IRP. It's my understanding that the purpose of those documents is to attempt to forecast demand for electric power in the future?
7 ten-y 8 I r 9 all, s 10 T 11 with 12 but t 13 effic 14 that	ieve they get some information from the year site plans from other departments. But my group wasn't involved in those filings at to I really can't speak to the content. here's sort of a back-and-forth relationship the FEECA would pull information from ours, hen once they identified their energy iency targets and what they expected to hit, would then come forward, and over the next	5 6 7 8 9 10 11 12	 its ten-year site plan and its FEECA filings? A I believe so. But like I said, I you know, I'm not as familiar with what the FEECA filing is, so I can't really say that definitively. Q It's my understanding going back now, focusing on the ten-year site plan and the IRP. It's my understanding that the purpose of those documents is to attempt to forecast demand for electric power in the future? A So that is true for the ten-year site plan.
7 ten-y 8 I r 9 all, s 10 T 11 with 12 but t 13 effic 14 that 15 five	ieve they get some information from the year site plans from other departments. But my group wasn't involved in those filings at to I really can't speak to the content. here's sort of a back-and-forth relationship the FEECA would pull information from ours, hen once they identified their energy iency targets and what they expected to hit, would then come forward, and over the next years that's what would be used in the	5 6 7 8 9 10 11 12 13 14 15	 its ten-year site plan and its FEECA filings? A I believe so. But like I said, I you know, I'm not as familiar with what the FEECA filing is, so I can't really say that definitively. Q It's my understanding going back now, focusing on the ten-year site plan and the IRP. It's my understanding that the purpose of those documents is to attempt to forecast demand for electric power in the future? A So that is true for the ten-year site plan. Q Okay. How about for the IRP?
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1	projections of those parameters so say the state has	1	bookends to create a confidence level that that solution
2	estimates for Duval County population growth. So that's	2	is appropriate across the widest range of solutions.
3	one number from an external source. Moody's has	3	(Discussion off the record.)
4	estimates for, you know, what the economic what the	4	(Connected to conference call.)
5	interest rate is going to be, what the economy is going	5	MR. NUNN: May I ask a question about the
6	to be.	6	scenarios? Is there a document at JEA that sets
7	All those factors go in, and then you get the	7	forth the scenarios that should be contained in an
8	output like kind of assuming that if everything was	8	IRP
9	the same as it was before and these numbers change here,	9	THE WITNESS: No.
10	here's your net energy per load in that case.	10	MR. NUNN: generation resource guidelines
11	So then the IRP takes that baseline and looks	11	document from approximately 2012?
12	at multiple different scenarios, some which impact the	12	THE WITNESS: No. They really varied based
13	demand, some which don't. But it will look at good	13	on based on when we're doing it. If and
14	economy, poor economy, high natural gas prices, low	14	there's scenarios and then there's sensitivities
15	natural gas prices, different things like that.	15	within each scenario. There generally are the
16	Because what we're trying to do with the IRP	16	variations around economy, so, you know, inflation
17	is because there's if there's a decision to be	17	rate, discount rate. Fuel is always a big
18	made, which is what triggers an IRP the decision that	18	variable, relative fuel prices.
19	we're looking at for this IRP was how do we replace	19	The scenarios in the 2019-2020 IRP aren't the
20	Northside 3. That's 500 megawatts of natural gas that	20	same as the scenarios in 2012. Really that's
21	is approaching retirement, and it needs to be replaced	21	those are developed in concert with the consultants
22	somehow; what's the best way to replace that.	22	and with you know, with our groups. So just
23	And we want to make sure that replacement	23	there's a cost benefit there too.
24	power is the best option across as many different	24	You'd like to look at every possible scenario,
25	scenarios as possible. So it might not be the absolute	25	but that takes time and money, and the more
	Page 26		Page 28
1		1	_
1 2	best, but it might be the best it might be like	1 2	variations you run, the more consulting time it
			variations you run, the more consulting time it takes. So you really try to winnow it down to as
2	best, but it might be the best it might be like second best in four out of five scenarios and best in one, and overall that makes it the most resilient	2	variations you run, the more consulting time it takes. So you really try to winnow it down to as few as possible, and it also makes the comparison
2 3	best, but it might be the best it might be like second best in four out of five scenarios and best in	2 3	variations you run, the more consulting time it takes. So you really try to winnow it down to as few as possible, and it also makes the comparison at the end, you know, a little more
2 3 4	best, but it might be the best it might be like second best in four out of five scenarios and best in one, and overall that makes it the most resilient solution, because the one thing we don't know is what's going to happen in the future.	2 3 4	variations you run, the more consulting time it takes. So you really try to winnow it down to as few as possible, and it also makes the comparison at the end, you know, a little more straightforward.
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	Page 29		Page 31
1	have those.	1	A It is. Brad did the 2012 IRP when he was at
2	You'd rather have one that's almost a	2	Black & Veatch and most recent IRP with his new company,
3	caricature of a scenario that's going to be like, you	3	nFront.
4	know, that's crazy high or that's crazy low. So you get	4	Q You talked about the difference between the
5	a wide range.	5	reports, including the financial component in the IRP.
6	Just as an example, so we had a in the 2012	6	That's because it is used to justify an investment
7	IRP, we had a poor economy scenario that showed flat to	7	decision?
8	negative growth, and then looking back at that compared	8	A Correct.
9	to what actually happened, reality came in below that.	9	Q And the ten-year site plan is simply
10	And that was a scenario that we thought was a bookend on	10	forecasting load?
11	the low side, and then, you know, reality was lower.	11	A Forecasting load and reporting on addition,
12	So you don't always get it get those	12	subtractions to the generating stack. So again so
13	bookends to actually reflect what's going to happen	13	once the IRP identifies here's so, for instance, so
14	because, again, they're all projections.	14	Northside 3 is going to go away, let's say, in 2027.
15	Q But the goal, I think, as I understood it,	15	The IRP would then identify what is going to replace it.
16	though, is to use the best data that you have in order	16	Then that information would then roll back into the next
17	to determine the most resilient solution to a pending	17	ten-year site plan, where our generating stack, we would
18	issue, which is a lack of capacity?	18	show a reduction of 500 megawatts in 2027, and an
19	A Right. Right. Yes, that's a yeah.	19	addition of suppose we were doing a new combined
20	Q And then, again, the baseline forecast that	20	cycle 550 megawatts in 2027.
21	you begin your scenario planning with is data derived	21	And, you know or if we're going to do a
22	from the ten-year site plan?	22	smaller unit with maybe we had 200 megawatts earlier.
23	A Right, as far as the growth. And then, of	23	So that would all be reflected in the tables showing
24	course, the ten-year site plan only goes for ten years.	24	we you know, because the purpose of the ten-year site
25	The IRP might go for 30, and it's typically just a	25	plan is not necessarily it's not just to show what
	Page 30		Page 32
1	linear extrapolation from the end.	1	the forecast is; it's to show the next step, which is
2	So and I should point out the other big	2	that we have adequate generation capacity to meet that
3	discrepancy with the IRP and the ten-year site plan is	3	demand plus the reserve margin that's required, which is
4	the IRP really talks in dollars, so this solution set	4	15 percent.
5	where we retire this unit and replace it with these two	5	Q And so like the FEECA filings with the
6	or three things and here's the cost for that over the	6	ten-year site plan, the IRP report and the ten-year site
7	next 30 years, and then alternatives, like what if we	7	plan also are consistent with one another? The data
8	replace it with this other set or this other set or this	8	within them are consistent? They have different
9	other set.	9	purposes, but the data within them are generally
10	There's no dollars anywhere in the ten-year	10	consistent?
11	site plan. You know, the PSC doesn't care how much it costs as long as it's cost-effective for your customers.	11	A Yes.Q Was the data within the ten-year site plan and
12 13	But the ten-year site plan isn't the way you communicate	12 13	the IRP that was being worked on by JEA and Mr. Kushner
13 14	with the PSC, here's the relative cost for something.	14	in 2019 utilized by McKinsey in its strategic planning
14	You know, that's through the whole licensing process	14	process?
15 16	and of which the IRP is the first step.	16	A So the IRP that we did started with the 2018
17	Q Did JEA internally prepare the ten-year site	17	ten-year site plan, because that's when it started. And
18	plans?	18	we didn't the 2019 and 2018 ten-year site plans were
19	A Yes.	19	not drastically different, so there was no need to
20	Q And I think I understood that JEA engages an	20	update the IRP for that change.
21	outside consultant to assist in the preparation of the	21	The McKinsey work was going in parallel to the
22	IRP?	22	IRP. They were going on at pretty much the same time,
23	A Correct.	23	and their we shared with McKinsey what we had, but I
24	Q And I think it's Brad Kushner, or at least it	24	don't you know, up to the time, but I don't think
25	historically has been?	25	there was necessarily a concerted effort to match the

8 (Pages 29 to 32)

Page 33 1 IRP and the McKinsey reports. 1 now is why would you change	Page 35
	e the IRP in order to allon if
2 They I think they were probably 2 with the McKinsey work?	
3 inconsistent in a few areas, particularly you know, 3 A Well and that's the c	clarification is so
4 McKinsey was more aggressive on solar adoption and, you 4 the McKinsey work was going	
5 know, load defection. 5 make sure that they weren't go	
6 But, you know, I will point out the final 6 And at this point, in December	
7 McKinsey reports did show a new combined cycle in about 7 process had been going had	
8 the same time frame as the IRP was showing. 8 in the ITN process and there was	
9 Q I have an email from you. I'm sure you've 9 really our resource plan, our -	-
10seen it before. I think it's from December 2019 when10moot, because whatever we ca	
11 you state that you tapped the brakes on the IRP 11 reflected our system.	and up with would have
12AYeah.12So clearly the answer is	s going to be different
12 A real. 13 Q in order to synthesize it or make it 13 13 if we're if we had been boug	
14 alignment, I think maybe was your word, with the 14 14 that we could interconnect with the	
	the IRP would have been, you
16 A So it wasn't necessarily to align with the 16 know, really a moot point m	
17 McKinsey report. What and I believe that was the one 17 So the McKinsey work,	•
18 to Chris Garrett?	-
1010101119QI'll find it. It's in here. But continue.19combined cycle. And as I stat	-
20ASo with the IRP as the first step of the20big budget item, \$530, \$550 m	
21 licensing process, part of that is and I believe I 21 McKinsey was earlier	
22 nechsing process, part of that is 21 nechsing process, part of that is 22 covered this in prior depositions part of that is 22 of solar, a lot of storage. We like the solar of that is	-
23 testifying that the this new unit because it's a 23 as at least in screening evaluations	
24\$550 million or \$530 million unit that we're that24for a for replacing a 500-me	
25 we're talking about that yeah, Jasen Hutchinson. 25 would be losing, the IRP was	
	showing a comonica cycle
Page 34	Page 36
1 (Exhibit Number 1 was marked for 1 was the was the best option	on. And so, you know, I was
2 identification.) 2 championing we need the co	-
3 MR. BLEDSOE: Can you identify that for the 3 combined cycle.	-
4 record so we know what you're looking at? 4 In the end, the reports	s from McKinsey
5 MR. WEDEKIND: I've just handed Mr. McInall 5 reflected a combined cycle i	in more or less the same
6 Exhibit 1, which is an email from him to Jeanie 6 timing. So, you know, I was	is successful as far as
7 Gillespie and Jasen Hutchinson dated December 20, 7 getting them to and I don'	't have kind of their
8 2019. It's in response to a public records 8 internal deliberations. But I	I was pleased to see when
9 request. 9 the when the later McKing	sey work came out that a
10 And it says, "We don't have a draft or final. 10 combined cycle was part of	part of the future.
11 I tapped the brakes on it to try to get some 11 I remember the ther	re was the meeting at UNF
12 alignment with the McKinsey work. Attached is an 12 where McKinsey had their s	storyboards or plateaus or
13 updated presentation on the study from March. Let 13 tableaus, and really people v	were were broken up into
14 me know if you want further materials. We're 14 different groups kind of cross	oss-functional, so it wasn't
15 expecting to get a draft final in January." 15 like all the electric people of	ver here. People were all
16 BY MR. WEDEKIND: 16 mixed together, and essentia	ally just voting on what we
17 Q I don't know what is a draft final? That 17 thought we should do in the	e future.
18 sounds 18 And everybody was v	
19 A It's. 19 batteries, and nobody and	
20 Q contradictory. 20 combined cycle were electric	ic people, because we
21 A Well, it's the last draft before you don't 21 understood the difference be	
22 expect any more changes. So you've already gone through 22 and the cost between natural	I gas and batteries.
23 all your edits. But until there's really a need for a 23 So and, you know, 2	I think a lot of this was
24 submittal, you know, you don't need a final. 24 videotaped, so I don't know	
25 Q So why would you the question really right 25 But when each of the groups	s reports out, I had gotten up

9 (Pages 33 to 36)

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Page	3	9
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	Page 37		Page 39
1	and basically, you know, gave an impassioned plea for	1	total but then when you add in the limitations and
2	why we needed a combined cycle, and to the point of	2	the constraints on the system and actually try to make
3	having everybody in electric who voted for the combined	3	it an operable system, that's when it gets complicated.
4	cycle, raise your hand, and everybody, you know and	4	Q So you don't think that Mr. Zahn had an
5	all the electric people did, just to demonstrate that,	5	understanding of how to run an operable electrical
6	you know, the people that should know the best about	6	system?
7	what was needed all thought that was the way to go, even	7	A I you know, I I really can't say what he
8	though the room as a whole were like two-thirds or	8	knew or didn't know, but I I don't think he
9	three-quarters in favor of a different option.	9	appreciated all the intricacies.
10	Q So who was giving you pushback on the combined	10	Q Because his focus was on other things?
11	cycle that you were championing?	11	A Again, I don't want to speak to what his focus
12	A Really it was it was just at the time,	12	was or wasn't on.
13	you know, McKinsey kept coming in with these scenarios	13	Q How about McKinsey? Did the fact that they
14	showing, you know, what I thought were extreme levels of	14	continued to present you with assumptions that included
15	solar. And to the point of, you know, once you look at	15	extreme levels of solar lead you to believe that they
16	above the 250, that we're adding another 300, 400	16	didn't really understand your business?
17	megawatts, and then, you know you know, I had already	17	A So McKinsey's got a lot of really smart
18	gone through siting, trying to find locations for those	18	people. I think I think they certainly had people
19	first five plants.	19	who understood our business. And whether or not those
20	I don't want to put more solar plants out in	20	were the people who were always working on our project,
21	that same area. So I know that's pushing it more	21	I I don't think so.
22	expensive real estate or further away real estate, and	22	I noticed as time went on, the people we were
23	then you're talking about transmission. And the you	23	working with just got younger and younger. You know, I
24	know, so I I don't know what kind of interactions	24	don't think you know, I think McKinsey is a great
25	were going on, but I do know that in the end, it did	25	like proving ground for future executives. People go
	Page 38		Page 40
1	Page 38	1	_
1	reflect the combined cycle.	1	there, you know, with their advanced degrees from Ivy
2	reflect the combined cycle. Q Was Mr. Zahn one of the people pushing back	2	there, you know, with their advanced degrees from Ivy League schools and, you know, go through the fire for
2 3	reflect the combined cycle. Q Was Mr. Zahn one of the people pushing back against the combined cycle?	2 3	there, you know, with their advanced degrees from Ivy League schools and, you know, go through the fire for three to five years and then go on. So there are very
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2 3 4 5	reflect the combined cycle. Q Was Mr. Zahn one of the people pushing back against the combined cycle? A I don't recall him directly pushing back. He certainly was a big proponent of solar and batteries.	2 3 4 5	there, you know, with their advanced degrees from Ivy League schools and, you know, go through the fire for three to five years and then go on. So there are very few like experienced people there. It seemed like as the project went on, we
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15 I think 125 is 125 is on the contraide
15 I think '25 is '25 is on the early side. 15 point of we can't get we can't get more gas dow
16 '27 with storage, again, I think it's a bit early. 16 here. I think it's already over 60 percent natural
17 But, you know, we're talking a 5-year difference, 17 gas, and projections are going up like 85 percent
18 and if you're looking at a 30-year plan and 18 natural gas. So that's gas interruption has
19deciding what19become a very big concern of maintaining power
20 So we'll look at Greenland, the or the new 20 supply to the state.
21 combined cycle. So if a new combined cycle is 21 So, you know, with all those things, being
22 going to start in 2027 and that's the same as the 22 able to say that, yes, we looked at this, it's not
23 grid parity point for batteries and storage, then 23 the best option and I remember at the at the
24 that should be a concern, because clearly you're 24 UNF meeting, one of the you know, we're alwa
25 not going to have the carbon load with battery 25 compared to FPL and how much solar FPL is doin
Page 42 Page
1 solar and batteries. You're so if there's any 1 And I'd point out the reason they're doing that
2 kind of carbon tax, you know, that's going to 2 much solar is because they've already put in so
3 impact your economics on your combined cycle plan. 3 much natural gas. They've got all these 15-,
4 And the worst possible outcome would be to 4 1,800-megawatt combined cycle units all over the
5 build a \$500 million plant, finish it in 2027 at 5 state. So they've got that baseload natural gas
6 the same time that batteries and storage become 6 generation that they can ramp up and down, which
7 cheaper, and now you're essentially you've got a 7 lets them accommodate all the solar that they wan
8 unit there that you probably do use, but you have 8 to put in, now that solar has gotten cheap enough
9 to shut something else down because now you're busy 9 to warrant it.
10replacing with batteries and storage.10So, you know, there's just a lot of things
11 So getting that timing right really is you 11 going on. And particularly with this tapping the
12 know, it it's sort of fundamental to the plan or 12 brakes, I know I had spoken with Melissa, becaus
13 dilemma. You know, what is in a time of 13 when the decision kind of got made was when Aa
14 transition. You know, back in the days where 14 was at a Jax Chamber event, and he was talking
15 you're adding capacity and having to just plan when 15 about maybe not needing a combined cycle and d
16 you had a plan to make sure that you've got all 16 batteries and storage instead.
17 the enough capacity to meet your demand, it was 17 And I told Melissa, look, we're not again,
18 a lot easier. You're just looking at do I want a 18 looking at the IRP as the first step in the
19 simple cycle, or a combined cycle, or a coal plant. 19 licensing process. I said, you know, we all need 20 And any low provide the set of mode. 20 A to be beind this set to dovide the set of mode.
20 And, you know, different set of math. 20 to be behind this as the decision for us going 21 Dut new when every set of math. 21
21 But now, where you're fundamentally changing 21 forward. It's a half a billion dollars. We
22 from fossil fuel base to renewable base, you know, 22 can't we can't be this is what we want to do
23 it's it's quite different. And getting that 23 today but maybe we're going to change our minds 24 timing right is literally a half-billion-dollar 24 So as far as the McKinsey work kind of being
25 decision. So it's worth taking some extra time to 25 reflected in what Aaron was saying and there

	Page 45		Dago 17
	2		Page 47
1	needing to be alignment before we went to the PSC	1	Was that the baseline forecast that was in the
2	and certainly there needing not to be a question	2	IRP?
3	about are we going to be our own entity or not, you	3	THE WITNESS: So the IRP used the ten-year
4	know. So, you know, it didn't make sense to rush	4	site plan forecast, which is the most likely or
5	through the IRP and finish it.	5	really the yeah, so that you know, that's the
6	Now, as soon as, I'll say the dust settled,	6	kicking off point. And that's produced every year.
7	you know, took the brakes off, IRP got wrapped up	7	I haven't looked at that document in a long
8	late January, early February, so the draft final is	8	time.
9	out there. It's on the internal website, you know,	9	BY MR. WEDEKIND:
10	so I'm sure you guys have a copy of it. And, you	10	Q So you start there and then you run your
11	know, it reflects a new combined cycle.	11	scenarios based on the base case, and then you derive
12	BY MR. WEDEKIND:	12	from your scenario planning the most resilient solution
13	Q So let me unpack that just a little bit.	13	to the capacity issue?
14	A Sure.	14	A Right. So the so the variations from the
15	Q And I'm going to paraphrase based on my	15	base case can impact either demand or the cost of the
16	understanding of what you just said.	16	power to meet that demand, so if you're if what
17	The utility doesn't want to be the last	17	you're fluctuating is the fuel prices. So yeah.
18	utility to ever build a combined cycle plant because,	18	But, you know, the base case is the taking off
19	like you said, it's a half-billion-dollar investment?	19	point and should represent the most likely scenario.
20	A Correct.	20	Q Was the IRP, when it was finalized, changed to
21	Q And that's why the getting the IRP right is	21	reflect any of the work that McKinsey had done?
22	so important?	22	A No, it wasn't.
23	A Yes.	23	Q And the IRP is the document that JEA and the
24	Q And so the scenarios that are used to inform	24	PSC are all going to rely on when making this
25	the decision recommended by the IRP are absolutely	25	\$500 million investment decision?
	Page 46		Page 48
1	Page 46 critical	1	Page 48 A Correct.
1 2	_	1	A Correct.
	critical A Sure. Yes.		A Correct.
2	critical	2	A Correct.Q And not the McKinsey strategic planning?
2 3	critical A Sure. Yes. Q in developing	2 3	A Correct.Q And not the McKinsey strategic planning?A That's my understanding.
2 3 4	critical A Sure. Yes. Q in developing A Yeah. Yeah.	2 3 4	A Correct.Q And not the McKinsey strategic planning?A That's my understanding.Q I just want to go back to one thing you said
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	Page 49		Page 51
1	assumption.	1	load, which is most of what our electric sales are in
2	Q And the assumptions that were being used by	2	the summertime. And you see natural gas generators, you
3	McKinsey were different than the assumptions that JEA	3	know, in certain neighborhoods go in, and every fifth or
4	was using in the IRP?	4	sixth house and granted, those are in FPL territory,
5	A Yes.	5	because their reliability up here is a little, you
6	Q How were they different?	6	know in some of the big storms they've been slower to
7	A All right. So and again, you know, it's	7	get reconnected.
8	so the ten-year site plan it's kind of just easier to	8	But, you know, there is a strong potential for
9	talk to because that's where the forecast came from.	9	the ability for people to go off grid, you know, even in
10	There's assumptions there about and this is	10	an urban setting. You know, I don't think that's been
11	just one example of where they differ. Like I don't	11	fully reflected in you know, in anybody's analysis.
12	have enough granularity on the McKinsey forecast to know	12	Our issue is we don't know how many of our
13	where all the differences were.	13	customers have natural gas. It's not a it's not a
14	But the our solar adoption, for instance,	14	parameter that we keep track of. And we've tried to
15	is kind of based on the historical trend and then what	15	started trying to track that. So, you know, it's it
16	we see in the future. So right now it's kind of it's	16	kind of you know, that concern kind of gave me the
17	a flat, slightly increasing adoption rate.	17	flexibility to say, okay, you know, this is a little
18	McKinsey had, I think, like a .1 percent of	18	aggressive on this, on solar, but it's not really
19	customers installing solar up until 2025, and then that	19	picking up all this natural gas issue. So I think there
20	went to I don't know, something like a half a	20	is room on that downside for this for this to be
21	percent. So it took a jump from 2025 until some other	21	closer to closer to what might happen.
22	point in the future, maybe '27, '28 when batteries	22	MR. NUNN: Do you recall an email that you
23	caught up, and then it went up to like 1, 1.2 percent.	23	sent in October 2018 to members of the financial
24	So as a result, their the lost revenue and	24	planning group in which you explained that natural
25	lost megawatt hours to solar increased a lot more than	25	gas would primarily impact new customer growth as
			5 50
	Page 50		Page 52
1	our model did.	1	opposed to existing customers?
2	our model did. Now, you know, it's a different assumption.	2	opposed to existing customers? THE WITNESS: I don't recall that email, but
2 3	our model did. Now, you know, it's a different assumption. It's not right or wrong. And, you know, with all of	2 3	opposed to existing customers? THE WITNESS: I don't recall that email, but that sounds right. I mean the natural gas
2 3 4	our model did. Now, you know, it's a different assumption. It's not right or wrong. And, you know, with all of these things in there, they ended up over the next ten	2 3 4	opposed to existing customers? THE WITNESS: I don't recall that email, but that sounds right. I mean the natural gas natural gas is more easily installed in new
2 3 4 5	our model did. Now, you know, it's a different assumption. It's not right or wrong. And, you know, with all of these things in there, they ended up over the next ten years showing an 8 percent decrease in sales, which is	2 3 4 5	opposed to existing customers? THE WITNESS: I don't recall that email, but that sounds right. I mean the natural gas natural gas is more easily installed in new neighborhoods. It kind of dovetailed into one of
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	Page 53		Page 55
1	the natural gas business?	1	that we thought were going to happen as much as, you
2	A Well, I'm not a lawyer, and I think the answer	2	know, the baseline is the most likely, but then apart
3	to that question depends on who you ask or the charter,	3	from that, we're looking at like caricatures of
4	the JEA charter, says we're allowed to be in natural	4	potential futures that will give us that kind of spread
5	gas.	5	so we don't just have four lines on top of each other
6	TECO signed a territorial agreement with FPU	6	but actually have some definition between them.
7	when they when TECO installed the line to go to one	7	Q And so that I understand, the load erosion
8	of the combined unit power plants, and that territorial	8	case, is that would that be considered the worst-case
9	agreement, which was filed with the PSC, gives FPU the	9	scenario?
10	right to Nassau County except for one or two of the	10	A Yes.
11	combined heat and power plants, and TECO gets the right	11	Q And would you equate that to Status Quo 2 in
12	to Duval County.	12	the McKinsey scenario planning?
13	And I know they've pointed to that as evidence	13	A My big takeaway from Status Quo 2 was more of
14	of their unique right to be the provider in Duval	14	the what happened to JEA as far as rate increases,
15	County, in addition to which they've got the current	15	cuts to employees and service level and, you know and
16	franchise from the city.	16	I don't recall that Scenario 2 had whether it had
17	So, to answer your question, yes and no.	17	load decrease as part of that scenario or not.
18	Q It wouldn't take a charter change in order to	18	You know, certainly just looking at the
19	get into for JEA to get into the natural gas	19	numbers, so you've got 1 percent per year for ten years
20	business?	20	decline, so compounded, that's maybe an 11 percent
21	A No, it would not.	21	decline over ten years. So compared to the McKinsey
22	Q And the City of Jacksonville could decide to	22	forecast of an 8 percent decline over the next ten
23	grant JEA the franchise to provide natural gas within	23	years, so their forecast is a little more optimistic
24	Duval County?	24	than this load aversion case. So their forecast would
25	A They could. I don't know what that does	25	have fit within this.
	Page 54		Page 56
1	Page 54 how the territorial agreement, you know, works out,	1	Page 56 Q The other three scenarios forecasted slightly
1 2	_	1	_
	how the territorial agreement, you know, works out,	1	Q The other three scenarios forecasted slightly
2	how the territorial agreement, you know, works out, since that's that's their you know, I don't know	2	Q The other three scenarios forecasted slightly increasing net energy requirements; correct?
2 3	how the territorial agreement, you know, works out, since that's that's their you know, I don't know how that works out. (Exhibit Number 2 was marked for identification.)	2 3	Q The other three scenarios forecasted slightly increasing net energy requirements; correct?A Yes.Q Who was involved in the decision to pump the brakes on this particular report?
2 3 4 5 6	how the territorial agreement, you know, works out, since that's that's their you know, I don't know how that works out. (Exhibit Number 2 was marked for identification.) BY MR. WEDEKIND:	2 3 4 5 6	Q The other three scenarios forecasted slightly increasing net energy requirements; correct?A Yes.Q Who was involved in the decision to pump the brakes on this particular report?A So that was Melissa and I, and, you know, I
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	Page 57		Page 59
1	bookends.	1	investment to go into compressed natural gas buses. So
2	So eventually McKinsey called for a new	2	there's a lot of competition, you know, for the
3	combined cycle, which, you know, is where we ended up,	3	transition from diesel or gasoline. It's not just
4	the same place we ended up with for the IRP. And then	4	electrification that's on the table.
5	certainly once as I said, once the ITN was in play	5	And I know we had given JAXPORT a grant or a
6	and there was a question about ownership or	6	rebate or whatever for the electrification of some of
7	consolidation with somebody, the IRP was was	7	their big cranes, and those cranes the usage on those
8	interesting from a point of view of here's what we	8	cranes never met the required amount in order to justify
9	identify we need for our system, but if we're going to	9	the money that we had granted them, so they owed us a
10	mix with somebody's system, it would not have been the	10	pretty sizable refund, almost around a million dollars,
11	time to take this to the PSC.	11	a little less, maybe.
12	Q Do you remember in October 2018 a presentation	12	And as a result, since JAXPORT is notoriously
13	made by Kerri Stewart and ICF about electrification?	13	cash poor, they did give us a piece of property just
14	A Was that at a board meeting?	14	north of the Talleyrand or Buckman plant out in
15		15	Talleyrand. And that was the but the entire basis
	Q Yes. A Yeah, I recall that.	16	-
16		1	for that transfer of the property from JAXPORT to JEA was because, you know, an electrification effort had
17	Q Did you assist in the preparation of the	17	
18	materials for that board meeting?	18	been made and the usage never matched what the
19	A I may have gotten a look at them beforehand,	19	projections were or what the contractual obligations
20	but, no, I did not.	20	were, and as a result we got a piece of property
21	Q Okay. ICF was very bullish on	21	instead.
22	electrification, as you recall; is that right?	22	So, you know, I do think electrification
23	A Yes.	23	projections, like most projections, need to be taken
24	Q Okay. In fact, its representative, David	24	with a grain of salt.
25	Pickles, said that JEA's electrification flexibility	25	(Exhibit Number 3 was marked for
	Page 58		Page 60
1	Page 58 gave it an advantage over its competitors.	1	Page 60
1 2	_	1	
	gave it an advantage over its competitors.		identification.)
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2 3	gave it an advantage over its competitors. Do you remember that? A Not specifically, but	2 3	identification.) BY MR. WEDEKIND: Q I'm handing you what's been marked as
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2 3 4 5	gave it an advantage over its competitors.Do you remember that?A Not specifically, butQ Do you remember Mr. Vinyard's presentation about the limitations imposed or the constraints	2 3 4 5	identification.) BY MR. WEDEKIND: Q I'm handing you what's been marked as Exhibit Number 3. This is an email by which you sent Juli Crawford a copy of the presentation materials to
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	Page 61		Page 63
1	it to Juli Crawford on September 10th, 2018?	1	BY MR. WEDEKIND:
2	A Yeah.	2	Q We were talking about the McKinsey strategic
3	Q Your email says, "Good luck working this in	3	planning process.
4	with your 'gloom and doom' presentation."	4	The first document I want to show you is dated
5	Was Juli Crawford working with McKinsey in	5	December 17th, 2018. I'm going to jump a little bit
6	September 2018?	6	chronologically. But this is a document entitled
7	A She would have been involved with McKinsey.	7	Building a Strategic Framework for JEA: Work Plan.
8	Again, I was the director then, as was as was she	8	This is prepared by McKinsey, and it walks through what
9	or she was a manager at that point.	9	McKinsey's proposing to do.
10	Q What were you referring to when you're talking	10	On Page 3 of that document it talks about
11	about the gloom and doom presentation that she was	11	aligning on base case financial forecast. First
12	working on?	12	question is, because the ten-year site plan and the IRP
13	A Probably McKinsey or the slide showing the	13	already are aligned on the base case financial forecast,
14	8 percent reduction.	14	why is there a need for McKinsey to deviate from that?
15	Q Yeah. So the Status Quo	15	A So neither the ten-year site plan nor the IRP
16	A Yeah.	16	are financial forecasts.
17	Q 2 Scenario	17	Q It's just a load forecast?
18	A Right.	18	A Just a load forecast.
19	Q was	19	Q Got it. Okay.
20	MR. NUNN: Just to correct that. I think it's	20	And then so what they've the way that they
21	the status quo scenario.	21	plan to do that is by, under their bullet points,
22	THE WITNESS: Status quo	22	"Pressure test and validate JEA forecast with an
23	BY MR. WEDEKIND:	23	internal model." And apparently their internal model is
24	Q Status quo, yeah.	24	called powerIQ + TETRIS.
25	So at least as of September 2018, at the	25	Are you familiar with the powerIQ and TETRIS
			· - · , · · · · · · · · · · · · · · · ·
	Page 62		
	i ago oz		Page 64
1	director level it was already understood that the status	1	Page 64 modeling?
1 2		1	_
	director level it was already understood that the status		modeling?
2	director level it was already understood that the status quo presentation was intended to be a doom and gloom	2	modeling? A No. The only TETRIS I know is that little
2 3	director level it was already understood that the status quo presentation was intended to be a doom and gloom scenario?	2 3	modeling? A No. The only TETRIS I know is that little block-shaped thing.
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	Page 65		Page 67
1	the court reporter after we're finished, because	1	So it wasn't just negative stuff; they also had higher
2	you're going out of order here, so I can't keep up.	2	EV adoption than most of our projections had.
3	MR. WEDEKIND: Yes.	3	(Exhibit Number 5 was marked for
4	THE WITNESS: You know, this presentation	4	identification.)
5	doesn't look familiar to me. This looks more like	5	BY MR. WEDEKIND:
6	a McKinsey planning document, and at this point, I	6	Q So I'm handing you Exhibit Number 5. This is
7	would have still been a director. If I was in a	7	an email from Melinda Fischer to Juli Crawford and Vicki
8	meeting that covered this, I was on my phone and	8	Nichols. Its subject is JEA Status Quo, and it attaches
9	wasn't paying attention.	9	some assumptions.
10	But this you know, this kind of	10	And it says, "Juli, I apologize for the delay.
11	breakdown most of the McKinsey meetings I was in	11	Here is the assumptions we had put together. Please let
12	were more technical, talking about more the	12	me know if you have any questions regarding this."
13	details. Certainly some of these figures, like	13	So if you look at the assumptions that were
14	this one showing the screening going down, these	14	put together, in rooftop solar PV in note Number 3, it
15	were I've seen certain of these slides, maybe,	15	says, "High and extreme forecasts based on 25 percent
16	but not this presentation.	16	and 40 percent growth rate used in the 2025 solar PV
17	So I don't really know what the what	17	impact study."
18	their what they considered their extreme	18	What do you think about those assumptions?
19	scenario.	19	A I think those are pretty those are pretty
20	BY MR. WEDEKIND:	20	high.
21	Q Okay.	21	Q Do you know of anybody who's in the industry
22	A Sorry.	22	that is using those type of assumptions for its
23	Q That's okay.	23	planning?
24	As part of the meetings that you were involved	24	A Not that I know of, but that's not you
25	in with McKinsey, did you talk about the assumptions	25	know, I haven't really done a lot of study on what other
	Page 66		D
			Page 68
1	that they were relying on in developing their opinions?	1	Page 68
1 2	_	1	_
	that they were relying on in developing their opinions?	1	people's rooftop assumptions are. The
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	Page 69		Page 71
1	Q That's what I mean. They're being provided to	1	THE WITNESS: I'm sorry.
2	the finance group.	2	MR. BLEDSOE: can you refer to it more
3	A Right.	3	specifically so the record will
4	Q For Juli because this happened the day	4	THE WITNESS: Right. This positive electric
5	after you sent the earlier emails. So clearly Juli	5	market influences for JEA with step charts, those
6	Crawford was working on her doom and gloom presentation?	6	are those are finance finance metrics that
7	A And this is right. So she had the	7	are just that format is usually start with the
8	electrification piece of it, which was	8	base, add, add, here's your total, or add,
9	Q Right.	9	subtract, subtract, subtract, here's your total.
10	A that, and now she's trying to work in all	10	So
11	the components to come up with the presentation.	11	BY MR. WEDEKIND:
12	Q Right. And for the status quo?	12	Q So let's look at Tab 1.
13	A For the status quo.	13	A This one?
14	MR. WEDEKIND: All right. So that is	14	Q Yes, the first tab.
15	September 2018. I'm going to move forward slightly	15	It says well, it's predicting a .8 percent
16	to October 2018.	16	compound annual growth rate or compound annual growth
17	Let's go off for just a second.	17	increase in customers, but an overall 11.6 percent
18	(Discussion off the record.)	18	decline in megawatt hour sales. And that's on Tab 2.
19	(Exhibit Number 6 was marked for	19	Do you see that?
20	identification.)	20	A Right. So Tab 1 looks like it's stepping up
21	BY MR. WEDEKIND:	21	to the 13,652 gigawatt hours as where growth would be
22	Q I'm handing you Exhibit 6, which is a draft of	22	based on these assumptions.
23	what's titled, Disruptive Innovation Analysis, prepared	23	And then and then Tab 2 looks like it's an
24	by JEA.	24	alternate, where growth is slower, rooftop PV cuts into
25	My first question is what do you know about	25	the market, so does energy efficiency and codes, getting
	Page 70		
	lage /0		Page 72
1	this document?	1	Page 72 to a smaller number. So these are essentially bookends.
1 2	_	1 2	-
	this document?	1	to a smaller number. So these are essentially bookends.
2	this document?A May I?Q Yes. (Tenders.)A I don't recall seeing this document before.	2	to a smaller number. So these are essentially bookends. Like here's Tab 1 is growth and Tab 2 is with
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2 3 4 5 6	 this document? A May I? Q Yes. (Tenders.) A I don't recall seeing this document before. Q Okay. So you weren't involved in the preparation of this particular document? 	2 3 4 5 6	to a smaller number. So these are essentially bookends. Like here's Tab 1 is growth and Tab 2 is with disruption. Q This is Tab 2 shows, I think, the beginning of what will be a series of slides that discuss this A Okay.
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	2		
	Page 73		Page 75
1	seeing a McKinsey presentation marked like that.	1	described as The First Step in the Process. This is a
2	Q Okay. So if you look at the fourth page of	2	draft. It says that in big, red, bold font on the
3	that document, it has a comparison between JEA's	3	front. And it says I'm going to hand this to you in
4	assumptions and the assumptions that its proprietary	4	just a second.
5	powerIQ analysis have generated on the same page. It's	5	But on the front it says, "Overall theme needs
6	a side-by-side comparison.	6	to be similar to a pitch book."
7	And if you look under the powerIQ analysis,	7	What's a pitch book?
8	it's projecting a 1.78 percent compound annual growth	8	A So, you know, that's not utility parlance;
9	rate in customers as opposed to the prior document,	9	that's that's sales parlance. You know, so
10	which JEA prepared, showing a .8 percent.	10	they're sounds like they're saying it needs to be
11	So McKinsey's powerIQ is more aggressive in	11	formatted more for making a sales pitch.
12	terms of the projected customer growth?	12	Q We're trying to sell the audience on a story
13	A I see that.	13	contained within the book?
14	Q Okay. And then on if you go to the second	14	A That's what it sounds like.
15	tab, it talks about McKinsey's next steps, and it says	15	Q All right. I've already flipped to Page 15 of
16	that they're going to take the TETRIS model and apply	16	this particular Exhibit Number 8.
17	it. The TETRIS model hasn't happened yet. And it gives	17	By the way, did you ever see that document
18	you a breakdown of what the TETRIS modeling is and what	18	before as it was being developed by JEA?
19	it isn't.	19	A So they all look similar, because every
20	Did you ever have any involvement with	20	presentation has got this lightbulb on it. It was a
21	McKinsey in its TETRIS modeling? I think you said no	21	personal peeve of mine.
22	before.	22	I don't think I ever saw this document. This
23	A So they asked questions and I gave answers,	23	color on the on these note pages, this like rusty
24	and what they did with it, you know, if it went into	24	red, is fairly striking, and it doesn't look familiar.
25	powerIQ or TETRIS, I don't know.	25	That being said, certainly, again, some of the
	Page 74		Page 76
1	Page 74	1	Page 76
1	Q So you were an information provider to	1	elements of it are common. I can see where you know,
2	Q So you were an information provider to McKinsey?	2	elements of it are common. I can see where you know, where the inputs would have come from, where they
2 3	Q So you were an information provider to McKinsey? A Correct.	2	elements of it are common. I can see where you know, where the inputs would have come from, where they like a lot of presentations, nothing starts from
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	Page 77	Page 79
1	innovation analysis has now become the status quo	1 A Yeah.
2	baseline?	2 Q all along the way?
3	A Uh-huh.	3 A Right.
4	Q Do you see that?	4 Q And one assumption, they don't even know what
5	A Yeah. Yep.	5 they're going to assume next, so it's just inserted as
6	Q So the assumptions in this chart, though, are	6 TBD?
7	now different, and you have a 2.5 percent increase in	7 A Well, there's a category; it's non-solar DG.
8	customers, but an overall 7 percent decline because of	8 And it looks like it's supposed to be a negative, but
9	energy loss or energy efficiency and rooftop solar.	9 the number at the far right here is higher than the
10	Do you see that?	10 number on the previous exhibit, Exhibit 8. So and
11	A Yeah, I see that.	11 all the other numbers are the same.
12	Q And the assumptions, though, for each of those	12 Q So you go from a potential 7 percent drop in
13	are different than the assumptions that were utilized in	13 sales if you look at the titles
14	the disruptive innovation analysis in October 2018.	14 A Toa
15	A Yeah. Okay.	15 Q to a potential 4 percent drop
16	Q So the first question is who is adjusting all	16 A Sure. Yeah.
17	of these assumptions as these reports evolve over time?	17 Q in sales?
18	A I don't know. You know, like I said, I	18 A I see that.
19	haven't seen this, at least this version. This is	19 (Exhibit Number 10 was marked for
20	from it's not dated.	20 identification.)
21	But this is based on the timeline you've	21 BY MR. WEDEKIND:
22	got going, I think this is prior to my being on the	22 Q Then hand you Exhibit Number 10, which is a
23	senior leadership. So I don't know who was looking at	23 draft. It says in the bottom right-hand corner it's
24	this.	24 dated February 21st, 2019. And the assumptions in the
25	Q Okay. I think that the date is January 10th,	25 model have changed again. The language of the title
	Page 78	Page 80
1	2019.	1 of the slide keeps changing, and now it the title
2		
	When did you say you came on to the SLT?	2 says that the forecast shows energy efficiency and solar
3	A I said January 2019. So this could have been	3 will drive down JEA sales by 8 percent.
3 4	A I said January 2019. So this could have been just before.	3 will drive down JEA sales by 8 percent.4 Do you see that?
3 4 5	A I said January 2019. So this could have been just before.Q Yeah. Okay.	 3 will drive down JEA sales by 8 percent. 4 Do you see that? 5 A I see that.
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1go to Page 4, this is a well, if you look at Page 3, yordl see the -1AYou know, I will any that in general, the trend didit's seem - seem possible to me. Sites decline to wor the past tan years. Another decline over the next tan excerpt from the frog presentation, Page 4 of Exhibit 10.1A of you look at that, this is the board presentation that was actually given in May 02109.It is the the challenges, with PV, with gas, with energy efficiency, if s - whether it's likely or not. I don't know, but if's certainly not it's not improvabale.1A Yaah, yeah. We all saw the frag presentation representation that was actually possible, or oby owas mit it be the most it is covid over it any. Starms Qoo This set he frag presentation, you can watch the the data as if's covid-over it any. Starms Qoo This is the data - on the last page of Exhibit 10 is the data that you saw.A2A well, which is the same as all this data.QD by our feel like that all of that was adequately explained to be board as part of the frog presentation?2A well, which is the same as all this data.QD by our feel like that all of that was adequately explained to mit. How, we were kind of led to believe that, you know, we this is what2Page 52Page 521Isos due to roofhop solar, right, which results in an 8 present!Page 522Page 52Page 542A lis to a tarminology 1 you look at the frog presentid to the board?Page 523Fage 54McKinseys got a lat of samt projections for growth and how really worked out, the or what how work work to the represention.3Ba kight. </th <th></th> <th>Page 81</th> <th></th> <th>Page 83</th>		Page 81		Page 83
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	Page 85		Page 87
1	Q Why not?	1	in your customers than the ten-year site plan.
2	A So I looked at the ten-year site plan as, you	2	If what you said about the ten-year site
3	know, kind of tried and true technology. It's simpler	3	planning being conservative was true, why didn't you
4	than than all of this. It's got very few buckets.	4	adopt the higher numbers from the McKinsey report,
5	Like I said, it takes that regression analysis, looks at	5	unless you just felt like they were unreliable?
6	a bunch of parameters to see how they relate to each	6	A So the McKinsey increase they're showing a
7	other in the past. The implicit assumption is that	7	2 and a half percent increase in megawatt hours or
8	relationship will continue in the future.	8	per gigawatts. This is actually in number of customers.
9	McKinsey is more sophisticated. They're	9	This, you know you know, 1.4 percent, whatever.
10	looking at not that relationship changing over time.	10	So I think these two columns, the
11	So in X number of years there's going to be a technology	11	2 and a half the reduction in per capita energy use
12	change and this is going to happen, and that so	12	and the CAGR, in the ten-year site plan world, these
13	they've got all that modeled in.	13	are these are together.
14	So it is more sophisticated, but their	14	So really, we're showing the annual average
15	number's going to necessarily probably be lower. So my	15	growth rate in like 2019 was, I think, .6 percent. So
16	number was conservative for planning purposes. If my	16	we're showing at that point a .6 percent increase in net
17	goal is to ensure that JEA has adequate resources to	17	energy for load. And if you add these together, they're
18	meet all of its demand, then I'm going to use the higher	18	actually showing a slight reduction.
19	forecast.	19	So, again because one of the things they
20	Q I don't understand that.	20	did is break break apart and show, okay, here's
21	A Okay. So the ten-year site plan is to is	21	growth as it would be if all these if energy
22	to make sure that over the next ten years, JEA is going	22	efficiency wasn't already mixed into that. Ten-year
23	to have enough generation capacity to meet all of its	23	site plan doesn't separate those.
24	demand.	24	Q Why did they not follow the same formula as
25	Q Plus 15 percent?	25	the ten-year site plan?
	Page 86		
	iage ou		Page 88
1	A Plus 15 percent.	1	_
1 2	_	1	Page 88 A Because and I'll let you know, not to speculate, but there they broke it up into more
	A Plus 15 percent.	1	A Because and I'll let you know, not to
2	A Plus 15 percent. So if there are two forecasts and one says X	2	A Because and I'll let you know, not to speculate, but there they broke it up into more
2 3	A Plus 15 percent. So if there are two forecasts and one says X and the other one says 10 percent less than X, you know,	2 3	A Because and I'll let you know, not to speculate, but there they broke it up into more pieces so they can show the impact of each component. I
2 3 4	A Plus 15 percent. So if there are two forecasts and one says X and the other one says 10 percent less than X, you know, and this is based on the technology the methodology	2 3 4	A Because and I'll let you know, not to speculate, but there they broke it up into more pieces so they can show the impact of each component. I think they were trying to be able to show the impact of
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	Page 89		Page 91
1	Q And when you say "here," you mean the	1 Grass, and it's	forwarding comments made by other folks
2	McKinsey		f you turn to the bottom of the second
3	A In the McKinsey report.		Mr. Coarsey's comments about it
4	We don't show them as energy efficiency in the	4 A Yes.	
5	ten-year site plan because we're not driving it.	5 Q whic	h was sent to you on December 2nd,
6	Q And so by not including it, it results in a	6 2019.	-
7	more conservative approach, because you know it exists?	7 A Yes.	
8	A Right. And because it's the projections	8 Q So Mr.	Coarsey says, "This entire PDF" and
9	are driven by history, it's implicitly included in the	9 it attaches the	McKinsey Strategic Plan-Complete Doc.
10	history. It's the reason that the per capita	10 Right? So he's	s talking about the McKinsey plan?
11	consumption goes down 20 percent from earlier you	A Yeah.	Yeah.
12	know, for like 2010 through 2019.	2 Q "This e	entire PDF, having been for the most
13	That's reflecting not just energy efficiency,	13 part crafted wi	th no input from my team seems to be the
14	but natural gas homes, you know, solar that's already	4 work of inexpe	erienced consultants and financial people.
15	been installed. So all of those things.	15 This entire rep	ort seems to be more of a wish list put
16	You know, PV on somebody's roof doesn't look	together by pe	ople who have little or no understanding
17	like generation to us; it just looks like less usage	17 of the critical t	technical hurdles most of this involves.
18	except for whatever they send back. So we only could	18 The logic or la	ck thereof of comparing of JEA with other
19	really track a portion of their generation. It just	19 utilities that an	e completely different, and then
20	looks like they're not using any energy during the	20 drawing comp	arisons that by their nature are not
21	daytime as far as the utility is concerned.	21 completely acc	curate seems to be a recurring theme in
22	Q All right. You mentioned John Coarsey	this report. Co	omments below. I am forwarding to Matt
23	earlier. He was a direct report of yours?	and Russ to se	e if I am missing something."
24	A Yes.	24 Do you	disagree with any of Mr. Coarsey's
25	Q And you worked with him for a long time;	comments the	re?
	Page 90		
			Page 92
1	_	1 A I do not	Page 92
1 2	correct?	1 A I do not 2 O So you	- -
2	correct? A Right.	2 Q So you	share all of his opinions about the
2 3	correct? A Right. Q Okay. He has some fairly unflattering things	2 Q So you 3 McKinsey repo	share all of his opinions about the ort?
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	Page 93		Page 95
1	all the SLT members.	1	I want to walk through these comments and just
2	And then the next email up the chain is from	2	see just kind of line by line and see if you agree.
3	you to John Coarsey, Jordan Pope, and Bob Zammatoro, who	3	A Sure.
4	are your direct	4	Q "Electric planning had virtually zero input
5	A My direct reports.	5	into this," meaning the McKinsey report.
6	Q reports; right?	6	Do you agree with that?
7	"FYI. Hope you had a great holiday."	7	A With this, yes. There were there were, you
8	And so I inferred from that that these are	8	know and especially with regard to the talking
9	your comments, but maybe not. Or maybe the comments	9	about the transmission distribution line and things,
10	that you made in connection with your the very first	10	the McKinsey just came in with these.
11	email in the chain on December 4th to Andrew Grass,	11	And in this time frame, I believe what they
12	because your comment on Pages 140 through 147 are "same	12	were doing was looking for because this is within the
13	as above," and I wonder if that meant same as above	13	ITN process. This in November-December 2019, so the ITN
14	meaning same as John Coarsey's comments.	14	is well underway.
15	A Yeah, I really don't recall you know, I'd	15	These were feeding into the management
16	have to look at the full document to see this. I recall	16	presentation, and what they were trying to do is
17	that they were making and by "they," I mean	17	identify to the bidders, essentially so this is
18	McKinsey comparisons between us and other utilities,	18	really no longer even for an internal audience. This is
19	as John pointed out. And to the level of this other	19	for this is identifying projects that bidders can do.
20	utility spends this much money per mile on maintenance	20	And this is how it was explained to me.
21	and everything and JEA spends this much and they're	21	So because the IOUs investor-owned
22	different.	22	utilities looking for projects that were justifiable
23	It's like and it is really hard to compare.	23	so they could do the work, earn a rate of return, and,
24	I mean, there's differences in you know, even	24	you know, make a profit. So just this one is captured
25	differences in the kinds of trees around. So when we	25	on the page here, it's conversion of you know, it's
	Page 94		Page 96
	200001		rage 50
1	get hit by a hurricane, we've got pine trees and live	1	overhead to underground conversion. That's been a topic
1 2	_	1 2	
	get hit by a hurricane, we've got pine trees and live		overhead to underground conversion. That's been a topic
2	get hit by a hurricane, we've got pine trees and live oaks coming down on lines. If somebody in the South gets hit by a hurricane, they get palm trees. It's much less of an impact. It doesn't have the same kind of	2	overhead to underground conversion. That's been a topic of conversation for decades.
2 3	get hit by a hurricane, we've got pine trees and live oaks coming down on lines. If somebody in the South gets hit by a hurricane, they get palm trees. It's much less of an impact. It doesn't have the same kind of height to start with.	2 3	overhead to underground conversion. That's been a topic of conversation for decades. Q And it's 4 million bucks a mile, give or take, and they estimated like 1 and a half or 2? A Right.
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	Page 97		Page 99
1	told to the board.	1	Q but it didn't in '19, did it?
2	This is this is looking at specific	2	A It did not.
3	projects that McKinsey felt would add value to a	3	Q Why not?
4	bidder you know, if a bidder felt there was a project	4	A There was a lot going on, and the Aaron
5	they could do that was going to cost X and make them	5	made the call or Aaron or Melissa, I forget which.
6	10 percent of X, because that's their rate of return	6	But I if you go through emails, you'll find a draft
7	that the PSC was to have, then that is value to the	7	presentation for the 2019 ten-year site plan that had
8	bidder that would be factored into into their price;	8	been forwarded around and was the decision was made
9	like that they would know we're going to pay X, we're	9	above me not to take it to the board.
10	going to get so much of it back in you know, in a	10	Q It was ready the ten-year site plan in 2019
11	rate of return. So, you know	11	was ready to be presented
12	Q So what was their response to this? So you	12	A Yes.
13	tell McKinsey all of our electric people think that	13	Q to the JEA board?
14	you're inexperienced, you don't know what you're doing,	14	A Yes.
15	and this is laughable. What was the response from	15	Q But Aaron Zahn made the decision not to have
16	McKinsey?	16	it presented to the board?
17	A I honestly don't recall what their response	17	A Based on, you know, whatever else was on the
18	was. But the management presentation was pretty well	18	agenda. Yeah.
19	you know, I think the presentation in Atlanta were the	19	Q And instead something called a management case
20	next week from this. They may have backed off of some	20	was presented?
21	of this, taken some of these out. I'd have to look at	21	A Sounds about right.
22	the management presentation.	22	Q That's the first time that something called a
23	The and again, the management presentation	23	management case had ever been presented to the JEA
24	was there was a lot of a lot of it was based on,	24	board; correct?
25	you know, just like anything, old presentations and	25	A In my recollection.
	Page 98		D 100
	Idge 90		Page 100
1	but a lot of it was developed and kind of presented to	1	Page 100 Q I meant to ask you this earlier, but I want to
1 2	5	1 2	2
	but a lot of it was developed and kind of presented to	1	Q I meant to ask you this earlier, but I want to
2	but a lot of it was developed and kind of presented to most of the SLT at the same time. You know, we were	2	Q I meant to ask you this earlier, but I want to talk just for a minute about your January interview.
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	Page 101		Page 103
1	Did anything, based on information that you	1	chart in there showing the different projections and
2	have since learned, warrant a correction or a revision	2	the compared to actuals, and then the financial
3	of any of your prior comments?	3	projections, that was produced by myself and Juli
4	A I didn't look at it from the point of view of	4	Crawford. I had the electric planning projection part
5	what I know now as much as what I knew then. Certainly,	5	and she had the financial projection part.
6	you know, not having been privy to the genesis of these,	6	So, you know, really a lot of the discussion
7	you know, I can't say it overly alarms me. The	7	was around FPU and looking at the what had happened
8	presentations always change a lot.	8	with FPU. And really it's sort of a difference of
9	Whether or not there was a you know,	9	opinion there where I know you guys thought as a
10	whether there was already a goal in mind to kind of	10	wholesale contract, it's just exclude the whole
11	foresee, I can't say. You know, I wasn't in those	11	thing.
12	meetings, so I don't know what the discussion was.	12	But the decline in the FPU load and
13	Yeah.	13	re-watching your testimony, you even mention that at the
14	MR. WEDEKIND: Let's take a quick break.	14	end, pointed out that the FPU load had declined
15	(Recess taken from 11:54 a.m. to 12:02 p.m.)	15	substantially over time, I think, from 468,000 or so
16	BY MR. WEDEKIND:	16	megawatt hours in like '05 to like 152,000 in 2017, in
17	Q In preparation for your testimony before the	17	the final year. So and that was driven by the cogen
18	Special Investigation Committee, who did you talk with?	18	plants on the island by decreased load.
19	A Let's see. That was early March. I would	19	And looking at their at FPU's profile
20	have talked with Melissa, who was my supervisor at the	20	was in the early days, they were a really good, solid
21	time, and I'm sure I consulted with my attorneys and	21	customer as far as high demand factor. With all the
22	probably talked with my direct reports a little bit.	22	cogen, they their demand off peak was dropping to
23	But really mostly Melissa.	23	zero, so, you know, they weren't really the same the
24	Q What attorneys?	24	same high load factor type customer that they used to
25	A These guys.	25	be.
20	n mose guys.	20	
	Page 102		Page 104
1	_	1	-
1 2		1	Page 104 But earlier in '05, '06, FPU represented like 3 and a half percent of our sales, and in '17 it was
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	Page 105		Page 107
1	and Melissa was the CFO.	1	(Exhibit Number 13 was marked for
2	And, you know, so then it really goes down to	2	identification.)
3	was there or wasn't there an 8 percent drop over the	3	BY MR. WEDEKIND:
4	past ten years. So, you know, based on what the FPU	4	Q One of the issues that we identified was
5	load was in the final year, I'd say there was either,	5	that you just talked about was the ten-year site plan
6	you know, a 7 or 8 percent drop over that time period.	6	and its use as a for long-term strategic planning.
7	And then McKinsey projecting a similar drop	7	And here in the series of emails that's identified as
8	over the next ten, it doesn't you know, it's not	8	Exhibit 13, there's back-and-forth.
9	it's like it hasn't just happened. So, you know and,	9	In the first email you say, "Sarah"
10	of course, obviously nobody anticipated COVID, but	10	Sarah Brody at McKinsey "I am trying to come with a
11	there's a you know, there's been a pretty sharp	11	comparison of the ten-year site plan and McKinsey
12	economic drop-off because of because of that.	12	forecasts. Did you start with our forecast? If so, the
13	So that's almost like the you know, that	13	answer is whatever tweaks McKinsey made."
14	theoretical unknown unknown. You don't know what you	14	And then her response is on the next page.
15	don't know and what's going to happen, but something's	15	"Hi, Steve. We started with the sales forecast from
16	going to happen. You know, the last ten years it was	16	JEA. I assume this is the same as what's in the
17	the economic recession in from '08 to '10. There	17	ten-year site plan. Then we made modifications based
18	probably will be one, you know, in the next ten-year	18	on joint McKinsey/JEA assumptions. EV growth, for
19	period too.	19	example, was based partly on projected vehicle sales in
20	So it's you hope that a reasonable annual	20	the territory, from the planning team."
21	growth rate you know, because the one reason now is	21	So why is it that you and Sarah Brody are
22	based on you know, includes effects of the last	22	going back and forth about comparing the McKinsey report
23	recession, so and that's why it's down around half a	23	to the ten-year site plan in September of 2019?
24	percent per year. It's it's barely above flat.	24	A Because we were getting questions about
25	And looking at the numbers so if we're at	25	exactly this, about the difference between the McKinsey
	Page 106		Page 108
1	12 million megawatt hours a year, a half percent, which		
		1	report and the ten-year site plan.
2	is the growth, is 60,000 megawatt hours. That's not	2	Q Okay. And those questions weren't just coming
3	is the growth, is 60,000 megawatt hours. That's not much. You take we've got 4.8 million megawatt	2 3	Q Okay. And those questions weren't just coming from us. In fact, they weren't coming from us at all at
3 4	is the growth, is 60,000 megawatt hours. That's not much. You take we've got 4.8 million megawatt hours of that 12 is is residential. So a 1 percent	2 3 4	Q Okay. And those questions weren't just coming from us. In fact, they weren't coming from us at all at that point. I think the civic council had raised
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1	agencies, these are the people whose sole job is to	1	Q So same day that you're working with Sarah
2	follow the utility industry are asking the same	2	Brody on this. They're short, and they're between you
3	questions; right? So it's a good question to ask.	3	and Ms. Baker.
4	A Right.	4	It says, "Stephanie said she sent the Moody's
5	Q And in September of 2019, it seems like you	5	data to McKinsey in January."
6	didn't know the answer to the question and worked with	6	That must be January 2019. Do you know what
7	McKinsey to craft the answer to the question. And	7	that is, the Moody's data?
8	there's all this back-and-forth between you and	8	A The Moody's data is the base economic dec that
9	Sarah Brody at McKinsey and others in which drafts are	9	we purchase every year to construct the ten-year site
10	exchanged to explain these discrepancies.	10	plan.
11	A Yep, I recall this.	11	Q And she, Ms. Baker, replies, "Do you want us
12	Q Yeah. Who tasked you with doing this?	12	to do more? Do you want that email forwarded to you?"
13	A Melissa.	13	And you reply, "Yes, thanks. Looking at
14	Q Why?	14	justifying the McKinsey numbers." And emoji. It
15	A Well, she wanted to know, too, just why you	15	doesn't have what the emoji is.
16	know, why they were different	16	A Probably an exasperated face.
17	Q So in September of 2019, she didn't know the	17	Q She says, "Enjoy. McKinsey can do that much
18	answer to the question?	18	easier."
19	A Not in the level of detail that was needed to,	19	And your reply is, "I know. Going to get what
20	you know, properly answer the question. Because, again,	20	we have and get with them."
21	there was you know, I don't know if anybody had	21	Right. So your job was to justify the
22	transparency into McKinsey's black box. So I know how	22	McKinsey numbers?
23	our forecast was developed.	23	A So justify or explain. You know, really the
24	Q "Ours" meaning the ten-year site plan?	24	job was to, you know, demonstrate how they got from our
25	A Ten-year site plan. And was satisfied with	25	ten-year site or, you know, from the because we
	Page 110		Page 112
1	the result of the ten-year site plan because it was	1	start you know, because we start at the same place,
2	the result of the ten-year site plan because it was conservative for the purpose that it was intended for,	2	start you know, because we start at the same place, essentially, you know, actual sales in 2018.
2 3	the result of the ten-year site plan because it was conservative for the purpose that it was intended for, you know, showing that we have adequate generation to	2 3	start you know, because we start at the same place, essentially, you know, actual sales in 2018. So I know how we got to where we got, and the
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1	Q Okay. That would make from a 30-year	1	and I thought those also were overly aggressive.
2	long-term strategic planning	2	Q Because of the reasons you had talked about
3	A Would not make much difference.	3	earlier?
4	Q But it would make a huge difference if you	4	A Right, the grid stability, the space, the
5	were using it to extrapolate data to try to justify a	5	you know, being able to spread things out; transmission
6	sale? Do you agree with that?	6	constraints. Just that whole difference between
7	A Would make a bigger difference, yes.	7	capacity and energy, and, you know and storage is the
8	Q How much bigger?	8	holy grail there that resolves a lot of the issues, but
9	A I can't say. I don't know. I've got a lot of	9	that pushes that parity point out quite a bit.
10	numbers in my head; that's not one of them.	10	And I think by the end, McKinsey had pushed
11	Q Were you in meetings with the SLT in which	11	out the parity on batteries and had decreased the amount
12	Mr. Zahn utilized a whiteboard?	12	of solar they were recommending as part of the strategic
13	A Yes.	13	plan. So my fussing did bear some fruit.
14	Q Was that frequent?	14	Q You sat through the board meetings at which
15	A It was fairly common, yeah.	15	the McKinsey presentations were provided; correct?
16	Q Did anybody record the data that was on	16	A If I didn't, I was I watched them on closed
17	Mr. Zahn's whiteboards that was being discussed by the	17	circuit.
18	SLT?	18	Q Did anybody ever say or fail to say anything
19	A It depends. I think sometimes there were	19	to the board that you would consider to be misleading?
20	people who would take a picture of it.	20	A Either say or failed to say?
21	Q What was Mr. Zahn's reaction to people who	21	Q Yes.
22	would take a picture of his whiteboard?	22	A You know, not not that I not that I
23	A I never saw him have a reaction to it. I	23	specifically recall. You know, the I know we focused
24	think in a lot of cases he was proud of his artwork and	24	a lot on the projections and the McKinsey forecast. I
25	was happy they were taking a picture of it.	25	think it may have been more balanced to present a wider
	Page 114		Page 116
			idge iit
1	Q Did you ever see any whiteboards in which the	1	range of options.
1 2	Q Did you ever see any whiteboards in which the PUP was drawn out?	1 2	
		1	range of options.
2	PUP was drawn out?	2	range of options. But, you know, I know you know, I didn't
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		1	
	Page 117		Page 119
1	Q If the ten-year site plan had been presented,	1	Q What did you think about his testimony? Did
2	it would have provided additional information to the	2	you hear anything that he testified to that you
3	board from which it could ultimately make a decision	3	disagreed with?
4	about all of the different McKinsey scenarios that were	4	A Well, I didn't review Mike's testimony in
5	being presented to it; correct?	5	preparation for this, so it's been a while. As I
6	A Correct. Correct. I would have been	6	recall, the genesis or the upshot of Mike's argument was
7	answering those McKinsey versus ten-year site plan	7	that JEA had been a great utility for the 35 years he
8	questions a few months earlier.	8	worked there and there's no reason why it was going to
9	Q And I believe earlier you testified that the	9	change.
10	first few scenarios by McKinsey were designed to drive a	10	And, you know you know, I worked for Mike
11	board decision to select Scenario 3, to consider	11	for five years or six years, I guess. So, you know,
12	nontraditional alternatives?	12	Mike's a smart guy. I appreciate Mike.
13	A Right. Right. So status quo obviously	13	I think in general the utility industry is
14	wasn't you know, wasn't attractive. Status Quo 2 was	14	facing challenges now that they haven't been for the
15	Draconian. So I think that yes	15	past 35 years, and I don't think what he said kind of
16	Q So Scenario sorry. Go ahead.	16	acknowledged the fact that there are changes coming.
17	A The intent was Scenario 3, whichever way that	17	There is you know, there is an increased ability for
18	ended up, to at least have that conversation outed. You	18	people to not use the utility.
19	know, at that point, you know, certainly I had no idea	19	And, you know, I know he put a lot of weight
20	what any what the outcome of any of the bid process	20	on being able to grow the demand rate, and that solves a
21	was going to be, so they could have come back around to	21	lot of the problems.
22	Scenario 2.	22	You know, just as a complete aside, the big
23	Q Did you ever talk to anybody about the co-op	23	problem with the electric industry, you know, is the
24	alternative?	24	rate structure. So for residential, about 5 percent of
25	A No. No, I didn't.	25	the rate is fixed and 95 percent is variable, and on the
	Page 118		Page 120
1	_	1	-
1 2		1 2	Page 120 cost side, 70 percent of the costs are fixed and 30 percent is variable. So if somebody does something
	Q Did you consider that to be a viable	1	cost side, 70 percent of the costs are fixed and 30 percent is variable. So if somebody does something
2	Q Did you consider that to be a viable alternative?	2	cost side, 70 percent of the costs are fixed and
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	Page 121		Page 123
1	So there's just a big chunk of people that	1	A The contract was signed in February 2019.
2	are that their monthly JEA bill could be their	2	Q Okay. So
3	largest single monthly bill. And devising a rate that	3	A I think it went to the board in December 2018.
4	fairly compensates the utility for what's provided while	4	Q Okay. So at least in December 2018, Mr. Zahn
5	not adversely impacting a very vulnerable class of	5	was structuring deals that would make no sense for JEA
6	customers is really difficult. I'm glad it wasn't my	6	but would make a lot of sense if JEA were to be sold to
7	job.	7	an IOU?
8	Q What did Mr. Zahn think about demand pricing?	8	A I think that's fair.
9	A I never did discuss it with him, because that	9	Q I want to talk about Plant Vogtle for just a
10	wasn't something that my group was working on.	10	second. Are you familiar with Plant Vogtle?
11	Q So a group was working on it, just not your	11	A Yes, I am.
12	group?	12	Just as an aside, Alvin Vogtle, who it was
13	A Right. Right. It was the finance finance	13	named after, was the Southern Company CEO, and he was
14	and customer solutions, I think together, were working	14	the inspiration for the Steve McQueen character in
15	on that.	15	The Great Escape.
16	Q Okay. Let's talk about EDF just for a second.	16	Q I did not know that. That's your
17	A Sure.	17	A That's my tidbit for the day.
18	Q You were involved, as you mentioned earlier,	18	Q Your Jeopardy answer for the day.
19	in the deal?	19	A Yeah.
20	A Right.	20	Q None of us would have gotten it except for
21	Q And I think that you testified during your	21	you.
22	last interview that Mr. Zahn came in and inserted a few	22	Was the Vogtle PPA a reason to sell JEA?
23	extra demands as part of the deal, including buyout	23	A No.
24	options?	24	Q Why not?
25	A Right.	25	A Well, for one thing, the Vogtle PPA was
	Page 122		Page 124
1	-	1	structured such that it could only be held by another
1	Q Why did he do that?	1	structured such that it could only be held by another
2	Q Why did he do that?A He didn't say why he wanted it. He just	2	municipal. The loans, the
2 3	Q Why did he do that?A He didn't say why he wanted it. He just thought it would add value. Certainly, you know, I	2 3	municipal. The loans, the Q The bond covenants?
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	Page 125		Page 127
1	A EDF?	1	Q It relates to SQ2. If you go down and look at
2	Q sorry EDF deal potentially have impacted	2	Julio Romero's email to you. And you ask Randy you
3 1	the purchaser's rate base?	3	forwarded Julio's email, and you asked Randy to look at
4	A I mean, in that scenario, yeah. You know, I	4	the attached with respect to natural gas sales. "Don't
5 (can't imagine that Southern Company was going to agree	5	send me anything. This is a what-if exercise."
	to any sort of a sale like that, nor nor MEAG,	6	What were you asking Randy to do here?
	because the whole structure of the deal was we get the	7	A So this whole effort that Julio was doing
	power for 20 years and then it goes back to MEAG as	8	was it was the whole new business line aspect. And
	their you know, as their community's growing to the	9	they were really trying to develop what revenue
	point where they need the power. So that that would	10	revenue estimates for new business lines.
11 1	make the ITN process look easy.	11	I had started, and then Randy was working on
12	Q But there would be a potential benefit to a	12	developing a pro forma and the finance people were
13	purchaser if JEA restructured the deal so that it had an	13	involved too for a new for a JEA natural gas
14	ownership interest in Vogtle?	14	business. So if we took over the franchise from TECO.
15	A Yeah, if that purchaser could show that	15	And this was asking Randy to what kind of revenue or
16	purchase was prudent, which given the cost overruns at	16	entire business model would we see; you know, what are
17	Vogtle might be a bit of a stretch.	17	the numbers looking like for that.
18	Q And that would have to be done before the PSC?	18	Q What did he come back to you with?
19	A As would anything with an IOU, yeah.	19	A We've got a there's a full pro forma. I
20	(Exhibit Number 14 was marked for	20	think it's, you know and again, it all depends on
21	identification.)	21	assumptions, so and the big thing we don't have is
22	BY MR. WEDEKIND:	22	the knowledge of how many natural gas customers TECO has
23	Q I'm handing you Exhibit 14. This is an email	23	in our territory. We don't know that number.
24	from Ryan Wannemacher to you dated August 15th, 2019,	24	So made some estimates, you know, pretty much
25 ;	and it's got, it looks like, billing codes for a bunch	25	backing up from TECO's payment to the City for the
	Page 126		Page 128
1	of different nearly including Namehou 1 of the years		
	of different people, including Number 1 at the very	1	franchise fee, which represents X percent of their
	bottom there, Holland & Knight, for strategic planning.	2	sales. Okay, therefore their sales were this. Make
2 3	bottom there, Holland & Knight, for strategic planning. Why was Holland & Knight being paid under the		sales. Okay, therefore their sales were this. Make some more assumptions about how much is from commercial
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2 3 4 5	bottom there, Holland & Knight, for strategic planning.Why was Holland & Knight being paid under the project for strategic planning? Do you know?A I don't. You know, Holland & Knight was the	2 3 4 5	sales. Okay, therefore their sales were this. Make some more assumptions about how much is from commercial industrial and how much is residential, and came up with like a 30,000-type number.
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1	here's what it takes, here's what it would cost, and ran	1	strategic planning.
2	that through.	2	MR. NUNN: You mention that you read the 2019
3	And, you know, between the finance group and	3	review of the ten-year site plans. Did you
4	the fuels group, you know, all that information was	4	happen have you read the Florida Power & Light's
5	this was just trying to come up with a one-page	5	2019 ten-year site plan?
6	sanitized because, as you can imagine, all the	6	THE WITNESS: I have not read the whole thing,
7	details about our plans for how to become a natural gas	7	no. I would have looked at
8	utility weren't something that we necessarily wanted	8	MR. NUNN: Let me just read a short portion of
9	TECO to have. So that's you know, because it kind of	9	it and get your reaction.
10	makes it easier to figure out what we're doing.	10	"The energy efficiency variable is included to
11	Q I understand from your testimony that you're a	11	capture the impacts from major energy efficient
12	proponent of getting into the natural gas business?	12	codes and standards, including those associated
13	A I am. I am.	13	with the 2005 National Energy Policy Act, the 2007
14	Q Did Mr. Zahn ever take any interest in that?	14	Independence and Security Act, and savings
15	A He was very interested in it. You know, he	15	resulting from the use of compact fluorescent bulbs
16	was he was for it. He never never got into the	16	and LEDs.
17	details on it. We never had a meeting to kind of go	17	The estimated impact from these codes and
18	over where we were. I was I had started that when I	18	standards includes engineering estimates and any
19	was a director and I had the fuels department, and I was	19	resulting behavioral changes. The impact of these
20	still interested in it as part of planning, but Randy	20	savings began in 2005, and cumulative impact on net
21	didn't you know, didn't report to me anymore at this	21	energy for loads is expected to reach 11,752
22	point. He was one of my reports as a director.	22	gigawatts by 2028. This represents an
23	So I kind of worked Caren in, and, you know,	23	approximately 8.4 percent reduction in what the
24	she kind of gave her blessing to, you know, go ahead and	24	forecasted net energy per load for 2028 would have
25	use the fuels group and chase this. But really, it's	25	been absent these codes and standards."
	Page 130		Page 132
1	all it's all just plans on paper right now.	1	Do you have a reaction to that statement and
2	all it's all just plans on paper right now. Pretty much it.	2	Do you have a reaction to that statement and that forecast versus the McKinsey forecast?
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	Page 133		Page 135
1	MR. NUNN: Yes. It was the polar vortex	1	Launched the company-wide innovation forum,
2	year	2	"Watts Up" to share initiatives across business
3	THE WITNESS: Yes.	3	lines.
4	MR. NUNN: in which we had a high number of	4	Investigated the integration of battery
5	degree days.	5	virtual power plants, reciprocating internal
6	And weather is the biggest variable from year	6	combustion engines, and utility-scale battery
7	to year in variations between megawatt hour sales	7	storage as methods to aid the increase in solar
8	demand; is that correct?	8	energy on the grid.
9	THE WITNESS: Well, yes. It causes a lot of	9	Started the redevelopment planning of the
10	variation, and that's why our forecasts are done on	10	former St. Johns River Power Park so that JEA and
10	a normalized a rather normal basis.	11	the City can benefit from this valuable resource.
12	MR. NUNN: Sure.	12	-
12	So do you to your knowledge, did McKinsey	13	Planned for large-scale purified water system on JEA's south grid to offset future consumptive
14	incorporate any assumptions about the increase of	14	use permit challenges.
14 15		14	
15 16	degree days caused by climate change into its forecast?	16	Prepared fuel-hedging strategies to reduce fuel cost risk as part of a \$400 million annual
16 17	THE WITNESS: I don't know. I don't think	10	-
17	they did.	18	fuel budget. And developed and implemented distributed
		19	
19 20	MR. NUNN: Okay. So I've finished with my	20	generation and battery incentive programs.
	questions. If you want to wrap up.	20	Through all of this, I have always acted
21	MR. WEDEKIND: I don't have any further		ethically, impartially, fairly, and honestly. My
22	questions, but I know that you have a statement	22	greatest accomplishment at JEA was assembling the
23	that you want to provide, so I want to give you the	-	highly qualified team of individuals who worked for
24	opportunity to do that now.	24	me and without whom I could not have accomplished
25	THE WITNESS: All right. It won't take long.	25	anything. I wish them and all my former colleagues
	Page 134		Page 136
1	And thank you for the opportunity.	1	all the best in the future.
2	I have worked in various capacities at JEA for	2	Do you want a copy of that?
3	the past nine years. It has been my greatest	3	MR. WEDEKIND: It's in the record.
4	professional pleasure to lead the groups that I	4	THE WITNESS: Okay.
5	have generation planning, fuels, byproducts,	5	MR. BLEDSOE: Do you want to make it an
6	energy planning, water planning, and real estate	6	exhibit?
7	and economic development.	7	MR. WEDEKIND: If you'd like, yes. That will
8	The people that I worked with at JEA are among	8	be Exhibit Number 16.
9	the finest that I've ever known. I am proud of all	9	(Exhibit Number 16 was marked for
10	that my teams have accomplished over the years:	10	identification.)
11	Implemented solar plans that added 27	11	THE WITNESS: Thank you.
12	megawatts of utility scale solar and another 250	12	MR. WEDEKIND: No further questions. Thank
13	megawatts of solar currently being developed.	13	you very much for your time.
14	Led negotiations with FPL for the closure of	14	(Sworn statement concluded at 12:57 p.m.)
15	Scherer Unit 4, and replacement with a power	15	- · ·
16	purchase agreement, saving JEA approximately \$200	16	
17	million NPV over 20 years and cutting CO2 emissions	17	
18	by a half a million tons annually.	18	
19	Part of the team that negotiated the closure	19	
20	of the St. Johns River Power Park. Identified and	20	
21	secured alternative power sources via power	21	
	purchase agreement. Closure saved JEA customers	22	
22		1	
22 23	\$450 million NPV.	23	
	\$450 million NPV. Reduced carbon dioxide emissions by over	23 24	
23			

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1	CERTIFICATE OF OATH	1 ERRATA SHEET
2	STATE OF FLORIDA)	2 DO NOT WRITE ON TRANSCRIPT-ENTER CHANGES HERE
3	COUNTY OF DUVAL)	3
4	I, the undersigned authority, certify that	IN RE: STEVEN MCINALL-TERMINATION OF EMPLOYMENT
5	STEVEN MCINALL personally appeared before me and was	4 AGREEMENT WITH JEA
6	duly sworn.	5
7		6
8	WITNESS my hand and official seal this	PAGE NUMBER LINE NUMBER CHANGE REASON
9 10	17th day of July, 2020.	7 8
11		o
± 1	Heather M. Thomas	10
12	Court Reporter	11
	Notary Public-State of Florida	12
13	My Commission No. GG 281865	13
	My Commission Expires 2/1/2023	14
14		15
15		16
16 17		17 18
18		19
19		20 Under penalties of perjury, I declare that I have read
20		my deposition and that it is true and correct subject to
21		21 any changes in form or substance entered here.
22		22
23		23 DATE NAME
24		24
25		25
	Do mo. 120	
	Page 138	
1	CERTIFICATE OF REPORTER	
2		
3	STATE OF FLORIDA	
4	COUNTY OF DUVAL	
5	L HEATHER M THOMAS Count Deportor and	
6 7	I, HEATHER M. THOMAS, Court Reporter and Notary Public, State of Florida, was authorized to and	
8	did stenographically report the foregoing proceedings;	
9	and that the transcript, pages 4 through 139, is a true	
10	and accurate record of my stenographic notes.	
11	I further certify that I am not a relative, or	
12	employee, or attorney, or counsel of any of the parties'	
13	attorney or counsel connected with the action, nor am I	
14	financially interested in this action.	
15	DATED this 17th day of July, 2020.	
16		
17		
	Heather M. Thomas	
18	Court Reporter	
19		
20		
21		
22		
23		
24		
25		
16 17 18 19	Heather M. Thomas	

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From: Sent:	McInall, Steven G VP & Chief Energy & Water Planning Friday, December 20, 2019 10:08 AM
То:	Gillespie, Jeanie M.
Cc:	Hutchinson, Jasen C Mgr Corporate Records Compliance
Subject:	RE: JEA IRP
Attachments:	DRAFT JEA IRP Update_03212019_REV5.pptx

We don't have a draft or a final – I tapped the brakes on it to try to get some alignment with the McKinsey work.

Attached is an update presentation on the study from March.

Let me know if you want further materials. We are expecting to get a draft final in January.

Steve McInall. P.E.

Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

From: Gillespie, Jeanie M.
Sent: Friday, December 20, 2019 9:06 AM
To: McInall, Steven G. - VP & Chief Energy & Water Planning
Cc: Hutchinson, Jasen C. - Mgr Corporate Records Compliance
Subject: FW: JEA IRP
Importance: High

Good morning Steve,

Can you please send me the new IRP as requested by OGC below. Last we discussed, you advised it is not complete, but they would like the draft if still not complete. Thanks so much!

Jeanie Gillespie

Public Records Compliance Specialist

Direct: (904) 665-7309



From: Hutchinson, Jasen C. - Mgr Corporate Records Compliance <<u>hutcic@jea.com</u>
 Sent: Friday, December 20, 2019 9:02 AM
 To: Gillespie, Jeanie M. <<u>gillim2@jea.com</u>



Subject: FW: JEA IRP Importance: High

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Can you help with this one? Thanks!

Jasen

From: Powell, Stephen <SPowell@coj.net> Sent: Friday, December 20, 2019 8:53 AM To: Hutchinson, Jasen C. - Mgr Corporate Records Compliance <<u>hutcic@jea.com</u>> Cc: Granat, Sean <<u>SGranat@coj.net</u>>; Garrett, Christopher <<u>GarrettC@coj.net</u>>; Teodorescu, Adina <<u>Teodores@coj.net</u>>; Phillips, Jon <<u>JPhillips@coj.net</u>>; Harrell, Sonya <<u>SonyaH@coj.net</u>>; Subject: JEA IRP Importance: High

[External Email - Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email.]

Jasen,

We have been made aware of the existence of a document in progress since 2018 called an "Integrated Resource Plan." We're informed that it should have reached, at least, draft form by the summer of 2019. I believe this is a 40-year plan, but not sure.

Can you assist us in locating this document in its current form (including all prior drafts)?

Thank you, Steve

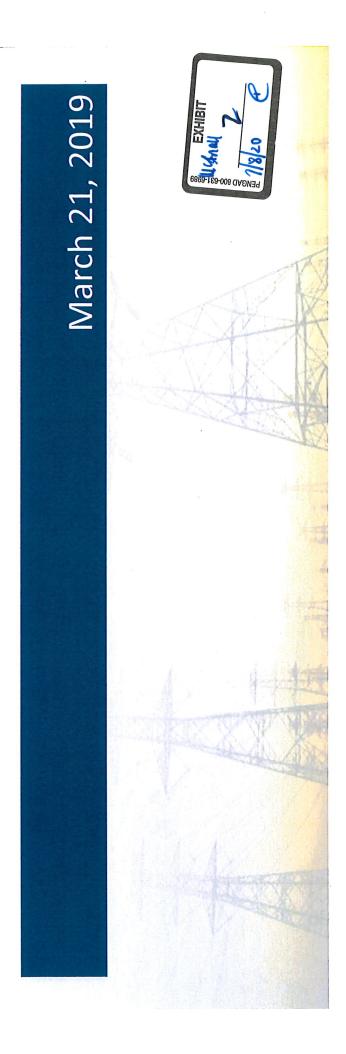
Stephen J. Powell Chief, Tort & Employment Litigation Office of General Counsel City of Jacksonville 117 West Duval Street, Suite 480 Jacksonville, FL 32202 904-255-5071 904-255-5120 (facsimile) SPowell@coj.net

Disclaimer regarding Uniform Electronic Transactions Act (UETA) (Florida Statutes Section 668.50): If this communication concerns negotiation of a contract or agreement, UETA does not apply to this communication; contract formation in this matter shall occur only with manually-affixed original signatures on original documents.



Preliminary Results – Subject to Change

Integrated Resource Plan (IRP) **JEA Electric System**



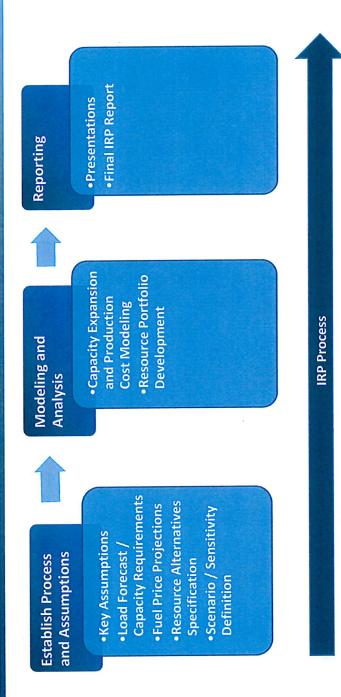
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- Brad Kushner, Executive Consultant, nFront Consulting LLC 0
- Resource Planning Services offering for Black & Prior to nFront, Director of Electric System Veatch Management Consulting
 - services to JEA while with Black & Veatch since Provided electric system resource planning early 2000s, including:
 - 2011-2012 JEA Integrated Resource Plan
- 2004, 2009, 2014, and current Florida Energy Efficiency Conservation Act ("FEECA")



Preliminary Results – JEA Electric System IRP – March 21, 2019

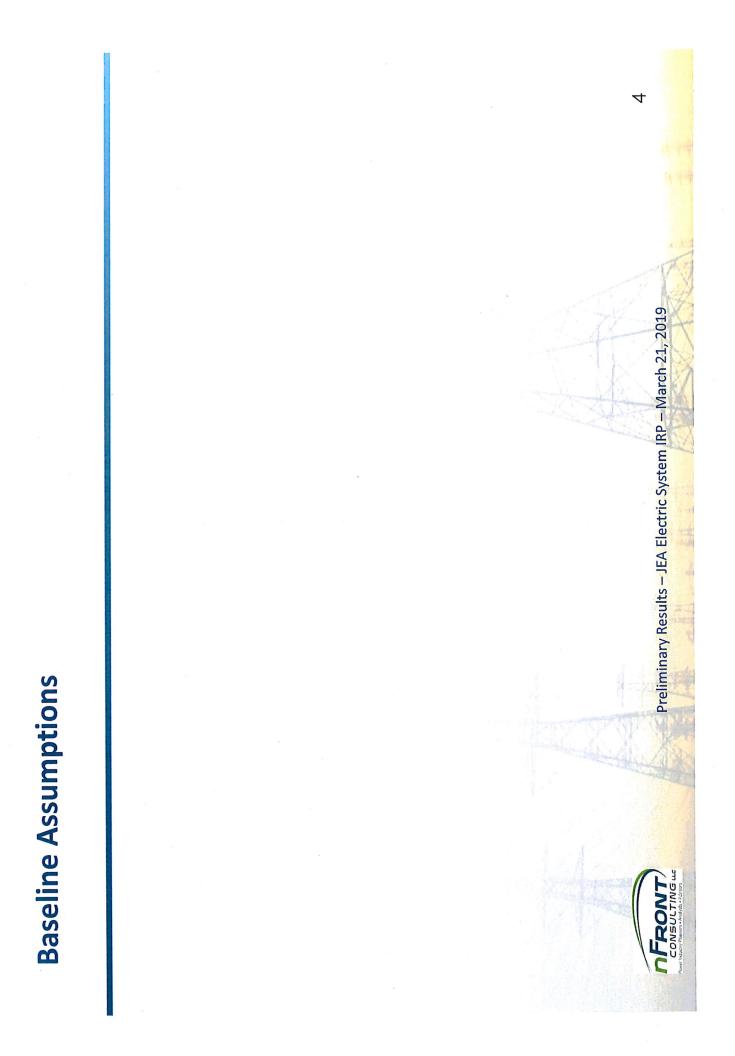




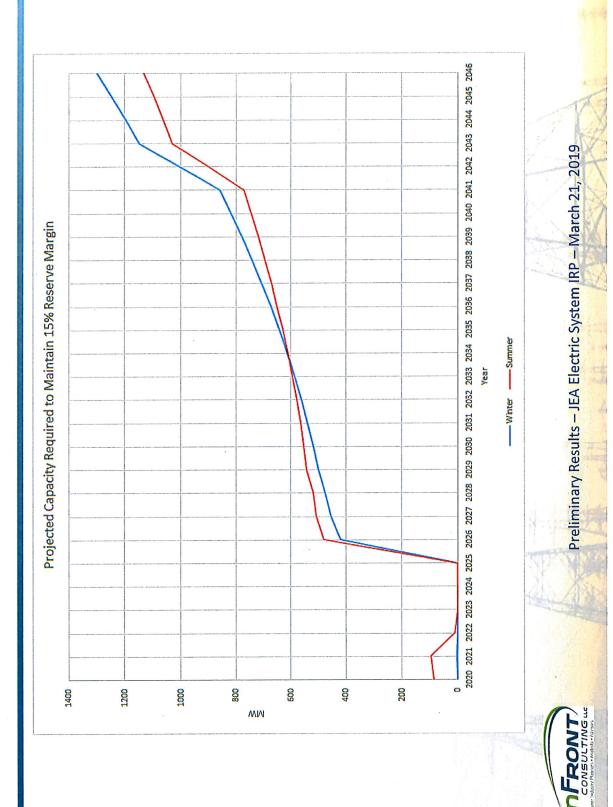
- Development of IRP is a complex process
- Intend to use base IRP expansion plan in current FEECA process
- FEECA is undertaken every 5 years, and establishes JEA's numeric conservation goals that are approved by the Florida Public Service Commission

Preliminary Results – JEA Electric System IRP – March 21, 2019



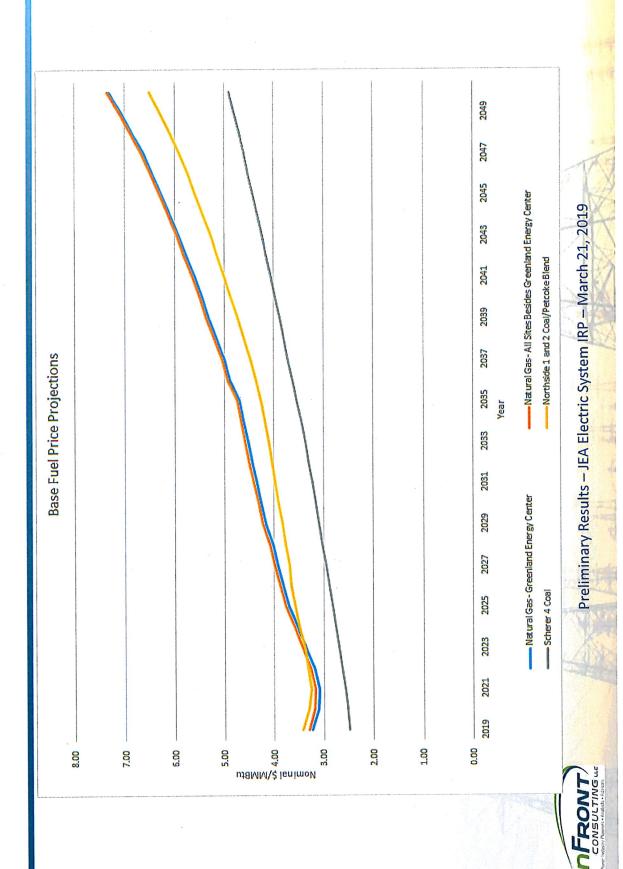


Projected Capacity Requirements



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Fuel Price Projections



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Supply-Side Options (following LCOE Screening – see subsequent slides)

	Utility Scale Solar PV	solar PV		Combir	Combined Cycles		Reciprocating Engines	Simple	Simple Cycle Combustion Turbines	Turbines
	Solar PV w/o	Solar PV w/ 4 Hours Storage			Greenland Energy Center 1x1 CC Conversion	Greenland Energy Center 2x1 CC Conversion	Jenbacher			
	Storage (Note 1)	(Notes 1, 2)	GE 7HA.02 1x1	GE 7FA.OS 1X1	(Note 3)	(Note 3)	5×1920	GE LMS100	GE 7FA.05 SCCT	GE 7HA.02 SCCT
Installed Cost (\$/kW based on full load average ambient output shown below)	mbient output shown b	elow)								
Capital Cost per kW (2018 \$)	723	1,503	893	1,183	1,781	1,594	1,434	1,068	476	485
Average Day Ratings										
Capacity (MW)	75	75	545	350	310	622	45	109	223	342
Heat Rate (HHV, Btu/kWh)	N/A	N/A	6,519	6,843	6,935	6,905	7,962	8,581	9,675	9,079
Summer Ratings										
Capacity (MW)	75	75	508	325	290	582	45	<mark>06</mark>	207	314
Heat Rate (HHV, Btu/kWh)	N/A	N/A	6,535	6,832	7,021	6,990	7,967	8,897	9,774	9,206
Winter Ratings										
Capacity (MW)	0 (at Winter Peak)	75	559	349	321	644	45	113	232	352
Heat Rate (HHV, Btu/kWh)	N/A	N/A	6,592	6,938	6,977	6,947	7,962	8,472	9,489	8,934
Variable O&M (2018 \$/MWh)	0	0	2.26	2.67	2.72	2.64	9.59	4.16	14.92	17.41
Fixed O&M (2018 \$/kW-year)	12.00	20.48	6.95	06.6	10.94	6.58	42.11	12.27	8.00	5.64

Notes:

(1). Capital Cost per kW for Solar PV w/o Storage and Solar PV with Storage do not reflect projected decline in costs; assumed to be 6% annually for 5 years. 30% Investment Tax Credit is not reflected but is accounted for in economic analyses.

(2). Solar PV w/Storage does not include costs for battery capacity refreshes, which may be required over time to maintain storage capability.
 (3). Capital Cost per kW for Greenland Energy Center Combined Cycle Conversions reflect incremental capacity associated with conversions; Capacity and O&M shown reflect entire capacity of converted GEC Combined Cycles



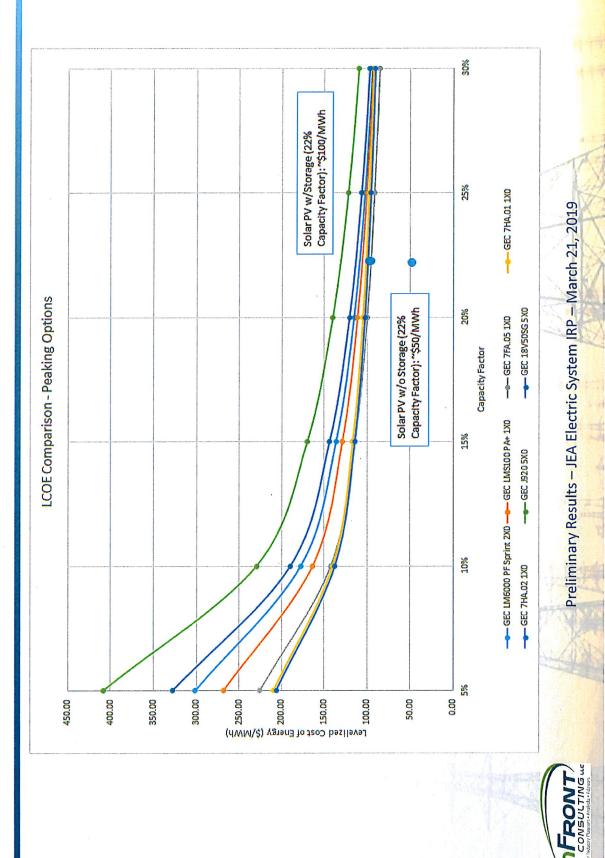
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Levelized Cost of Energy and Expansion Planning/Production Cost Modeling

Preliminary Results – JEA Electric System IRP – March 21, 2019

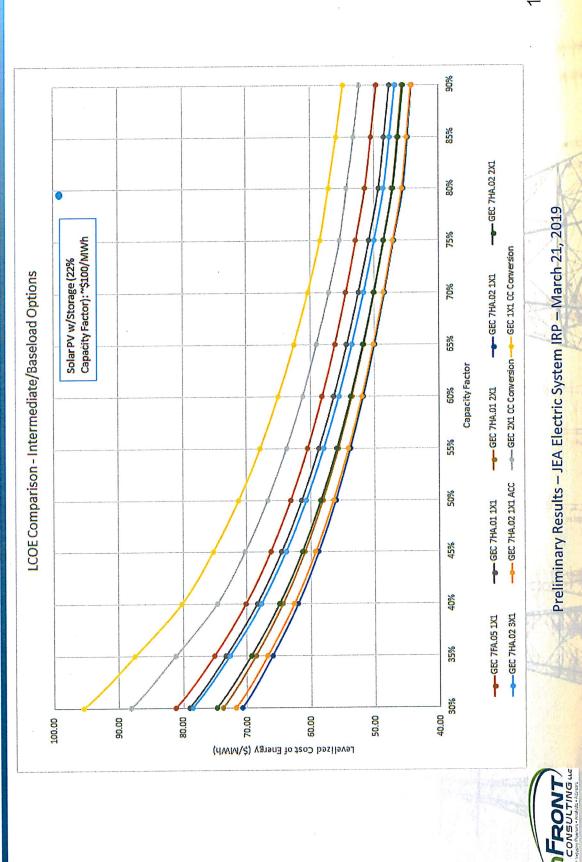
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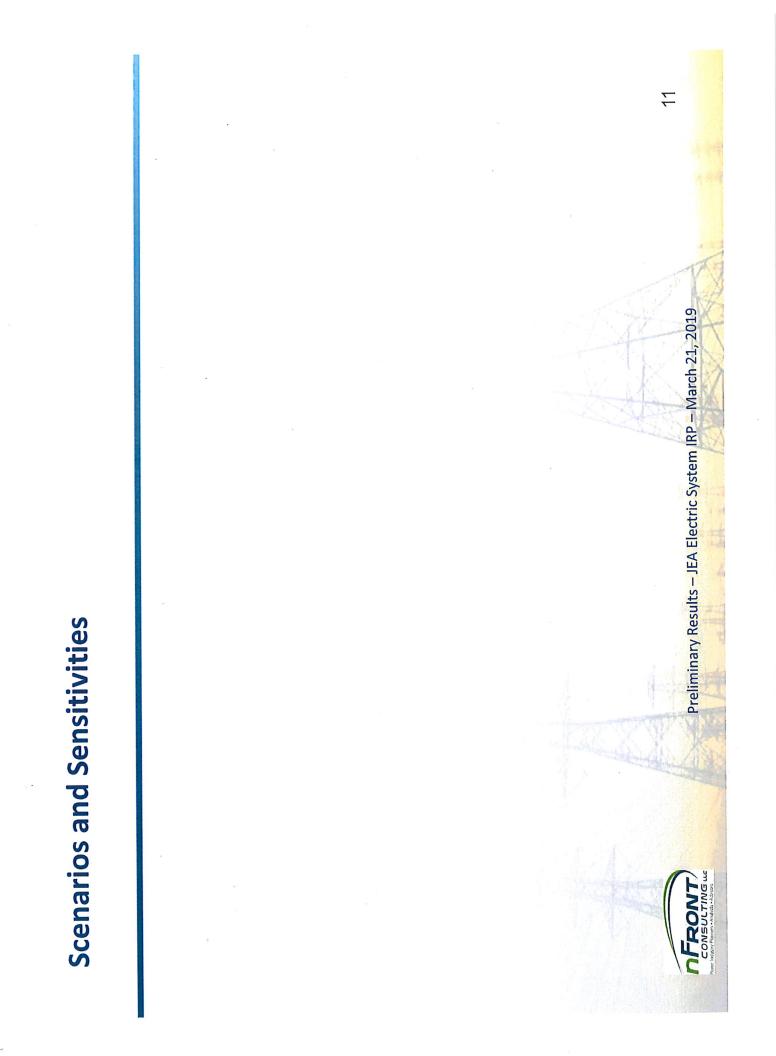
LCOE – Peaking Options



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LCOE – Intermediate/Baseload Options



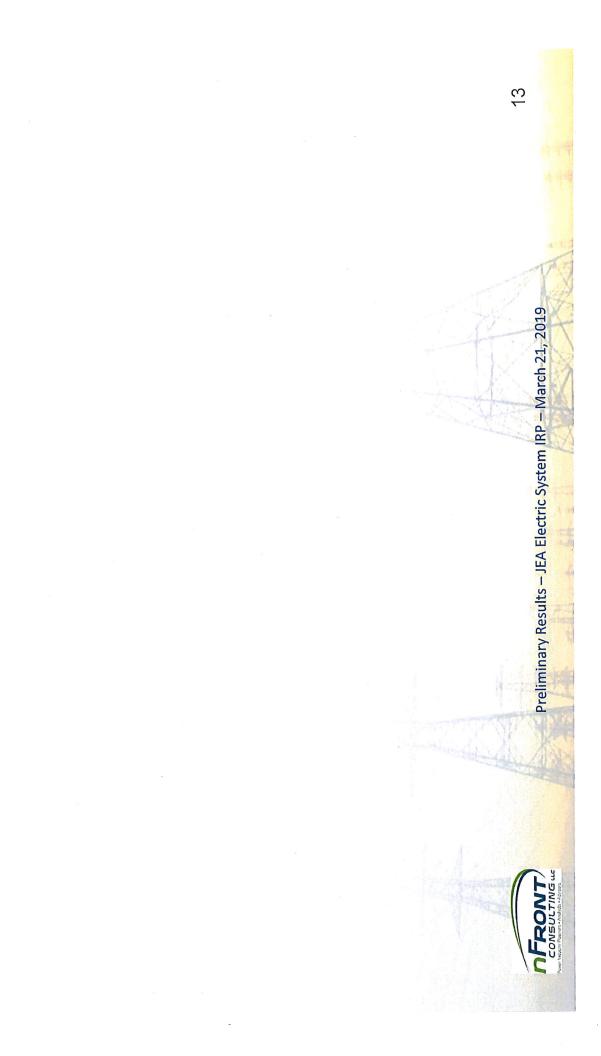


Area	Metric	Baseline	Load Erosion	Increased Electrfication	Green Economy
Financial	Interest During Construction & Discount Rate	4.50%	6%	4.50%	4.50%
	Escalation Rate	2.00%	3.00%	2.00%	2.00%
	Total Net Energy Requirements Forecast	AAGR: 0.87%	Energy requirements decline by 1.0% /year for 10 years; then no growth	Energy requirements increase at 2.0%/year until achieve +2.0% over Baseline forecast; then Baseline AAGR of 0.87% thereafter {see Comment}	AAGR: 0.89%
	Net Firm Peak Demand Forecast	AAGR Winter: 0.86% AAGR Summer: 0.70%	Winter and Summer net firm peak demand declines at 1.0% for 10 years; then no growth	Winter and Summer net firm peak demand increase at 2.0%/year until achieve +20% over Baseline forecast; Baseline Winter and Summer AAGR thereafter	AAGR Winter: 1.6% AAGR Summer: 1.6%
Demana	EE/Conservation	Current Portfolio	Embedded in Energy Forecast	Embedded in Energy Forecast	Embedded in Energy Forecast
	Direct Load Control	None	None	None	None
	Interruptible Load	Current Portfolio	Embedded in Peak Demand Forecast	Embedded in Peak Demand Forecast	Embedded in Peak Demand Forecast
	PEV	0.5% by 2027 3.6% by 2046	Embedded in Energy and Peak Demand Forecasts	Embedded in Energy and Peak Demand Forecasts	Embedded in Energy and Peak Demand Forecasts
	Net Metering	Current Portfolio	Embedded in Energy and Peak Demand Forecasts	Embedded in Energy and Peak Demand Forecasts	Embedded in Energy and Peak Demand Forecasts
Environmental	Carbon Tax Rate	None	None	None	~ \$11.50/ton in 2020, increasing at 5% annually
Regulations	Clean Energy Standard (CES)	None	None	None	Reflect 30% carbon neutral by 2030
	Fuel Cost & Availability	Gas supply remains adequate with moderate pricing	Gas supply remains adequate with moderate pricing	Gas supply remains adequate with moderate pricing	Gas supply inadequate with high pricing
Alddus	Construction Cost	Costs increase at inflation	Costs increase at inflation	Costs increase at inflation	Costs increase at inflation through 2020, inflation + 1% thereafter
	Unit Retirements	Northside 3: 2025; Solid Fuel: none expected	Northside 3: 2025; Solid Fuel: none expected	Northside 3: 2025; Solid Fuel: none expected	Northside 3: 2025; Solid Fuel: 2030

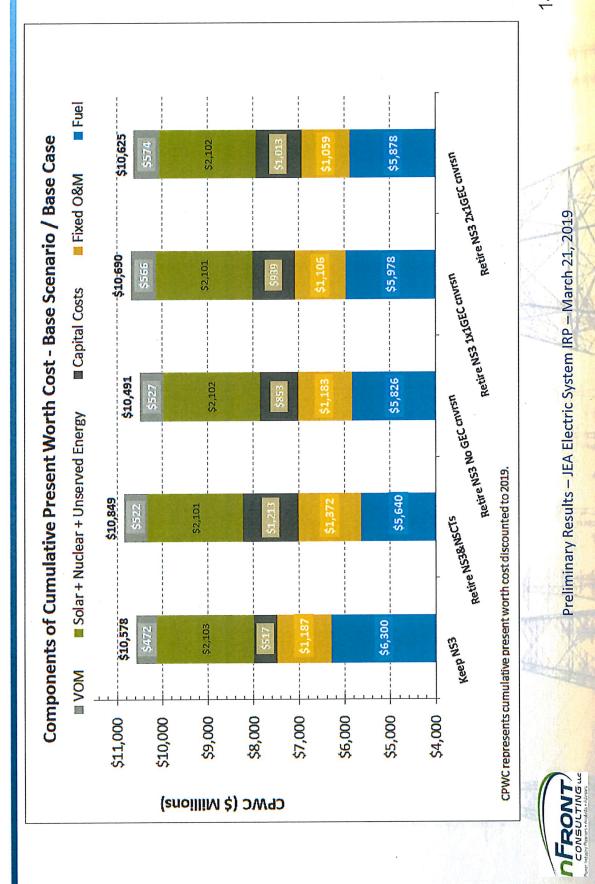


Preliminary Results – JEA Electric System IRP – March 21, 2019

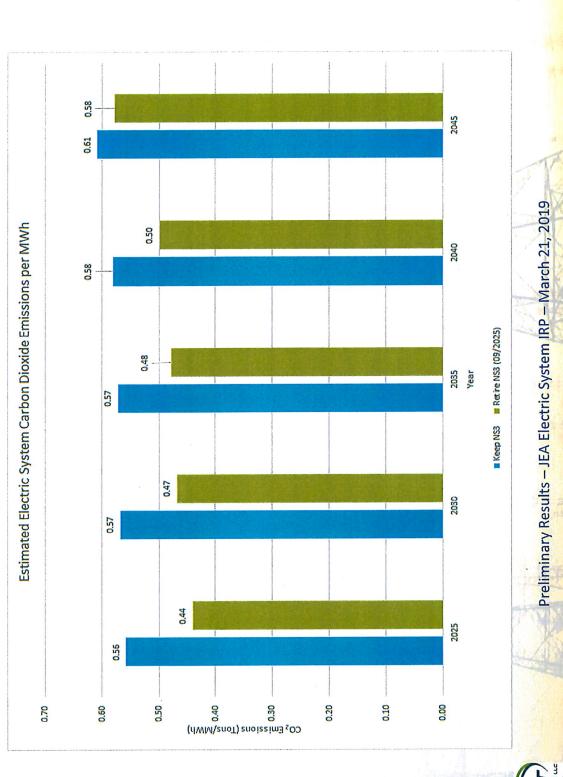




CPWC Components – Baseline Analysis



Estimated Carbon Dioxide Emissions per MWh – Baseline Analysis

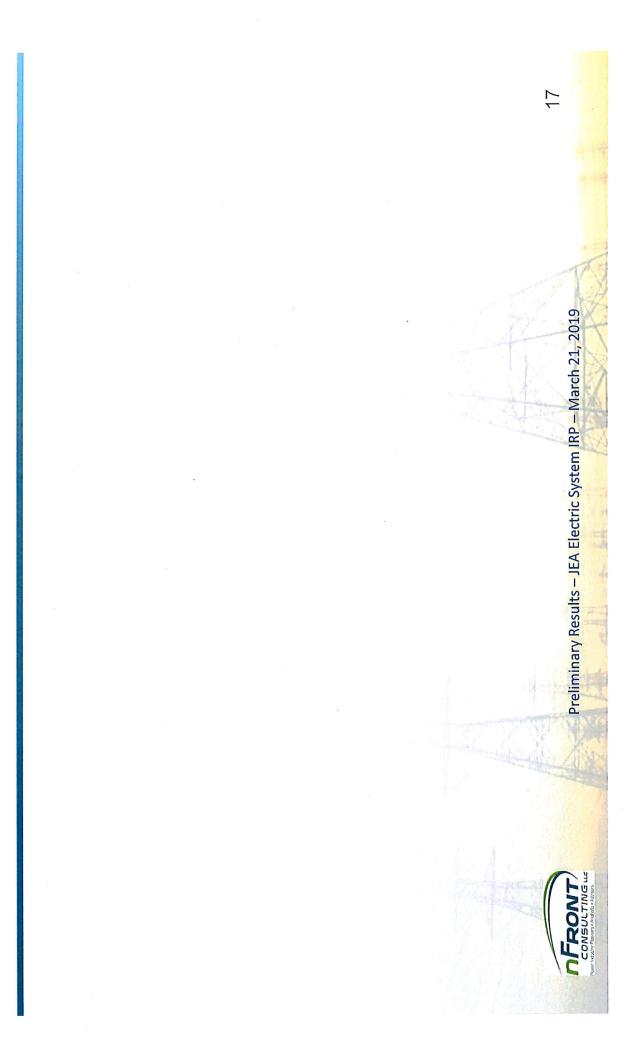


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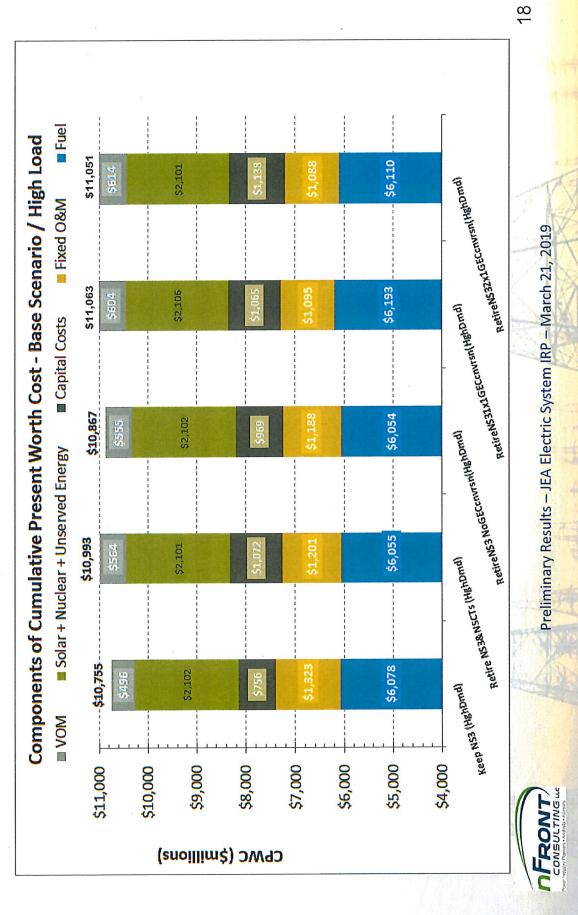
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Observations from Expansion Planning and Production Cost Modeling – Baseline Analysis	 Preliminary Results of Base Case/Baseline Scenario: CPWC of case that includes retirement of Northside 3 (9/2025) and new 1x1 7HA.02 combined cycle in 2025 is least cost, but other cases are very close CPWC of case with continued operation of Northside 3 (9/2025) is within 1% of CPWC of least cost case CPWC of case with conversion of the existing simple cycle combustion turbines at Greenland Energy Center to combined cycle ("2x1 GEC CC conversion") in 2025 is ~1.3% higher than least cost case CPWC of case with conversion of one of the existing simple cycle combined cycle ("1x1 GEC CC conversion") in 2025 is ~1.3% higher than least cost case CPWC of case with conversion of one of the existing simple cycle combined cycle ("1x1 GEC CC conversion") in 2025 is ~1.9% higher than least cost case CPWC of case with retirement of Northside 3 and Northside simple cycle CTs is ~3.4% higher than least cost case 	Preliminary Results – JEA Electric System IRP – March 21, 2019

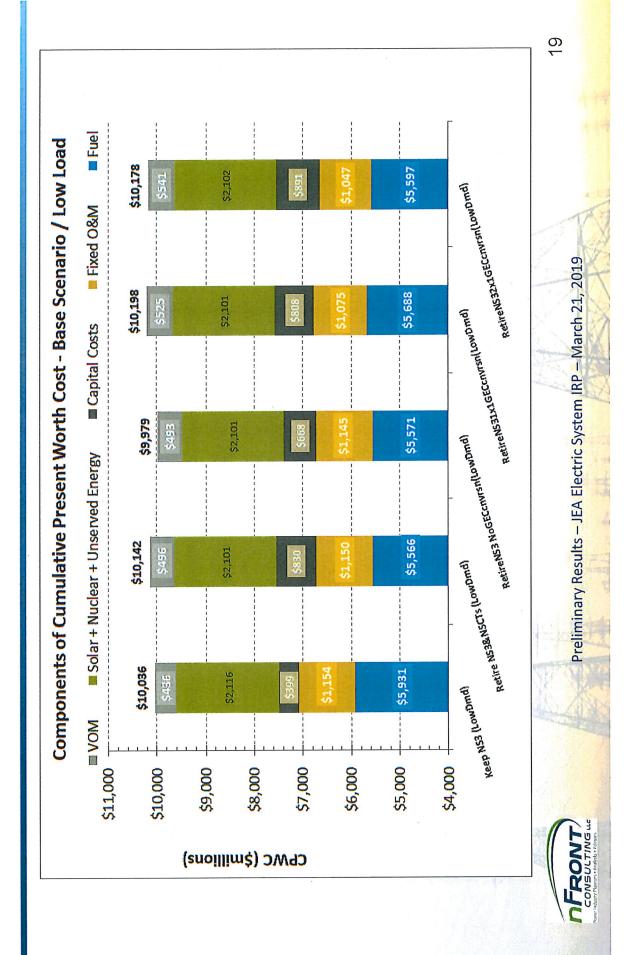




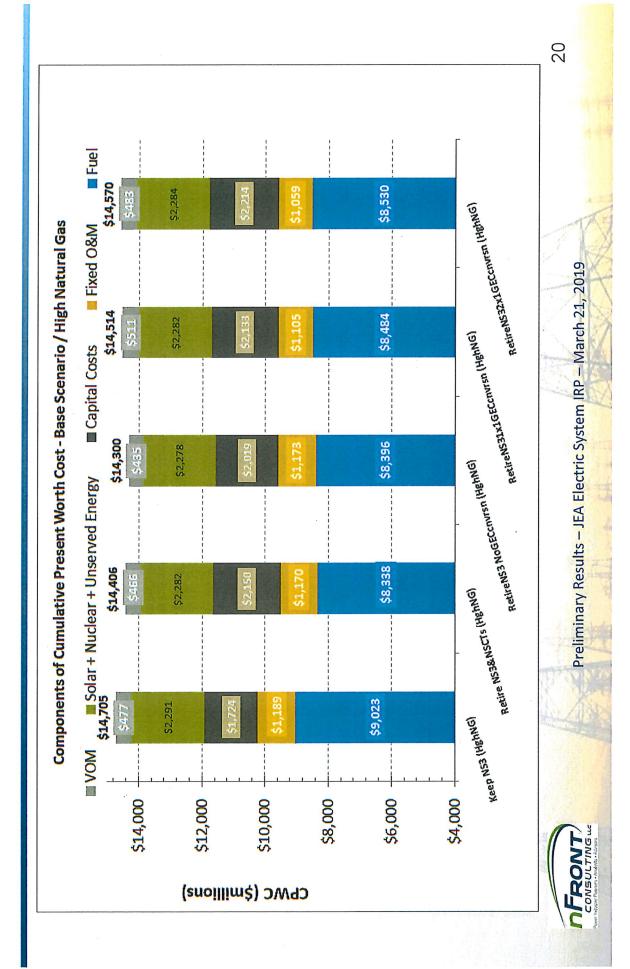
Results of Expansion Planning and Production Cost Modeling – **Baseline Scenario/High Load Sensitivity**



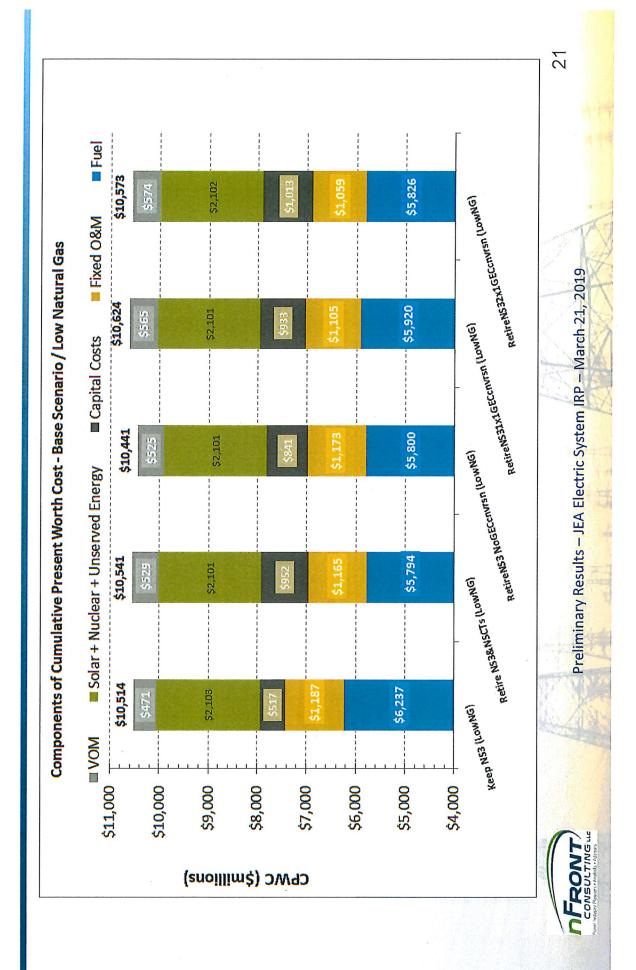
Results of Expansion Planning and Production Cost Modeling – Baseline Scenario/Low Load Sensitivity



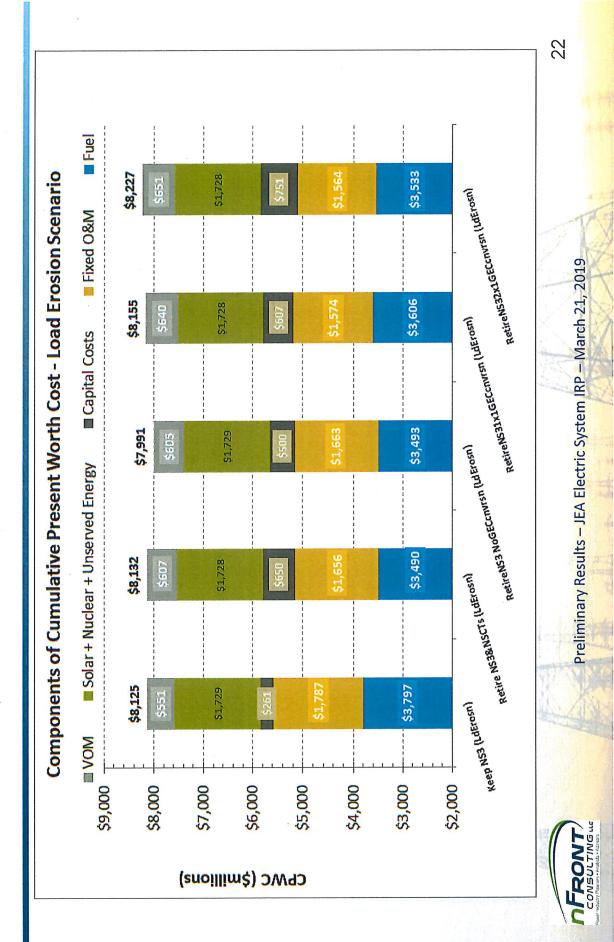
Results of Expansion Planning and Production Cost Modeling – **Baseline Scenario/High Natural Gas Sensitivity**



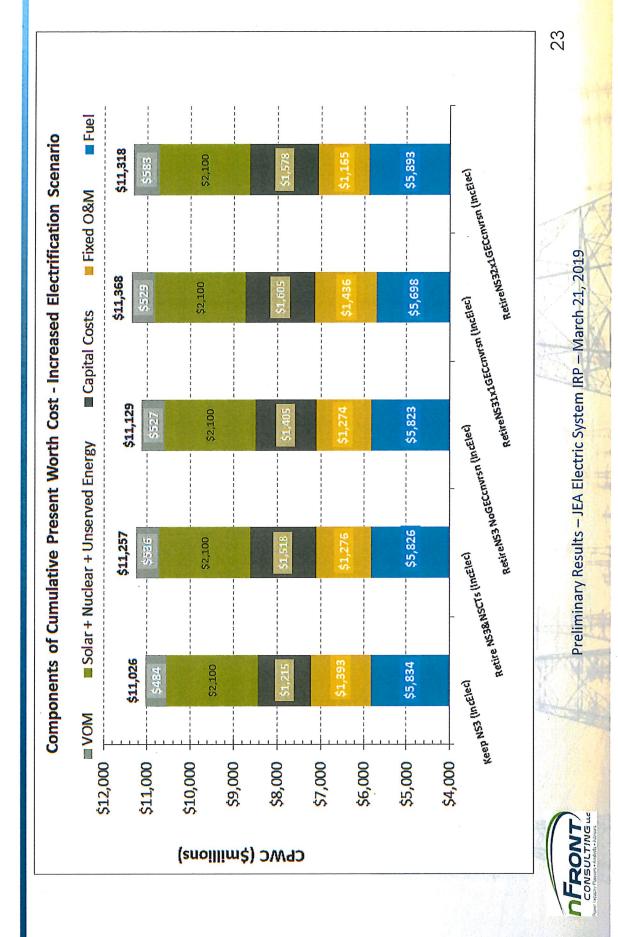
Results of Expansion Planning and Production Cost Modeling – Baseline Scenario/Low Natural Gas Sensitivity



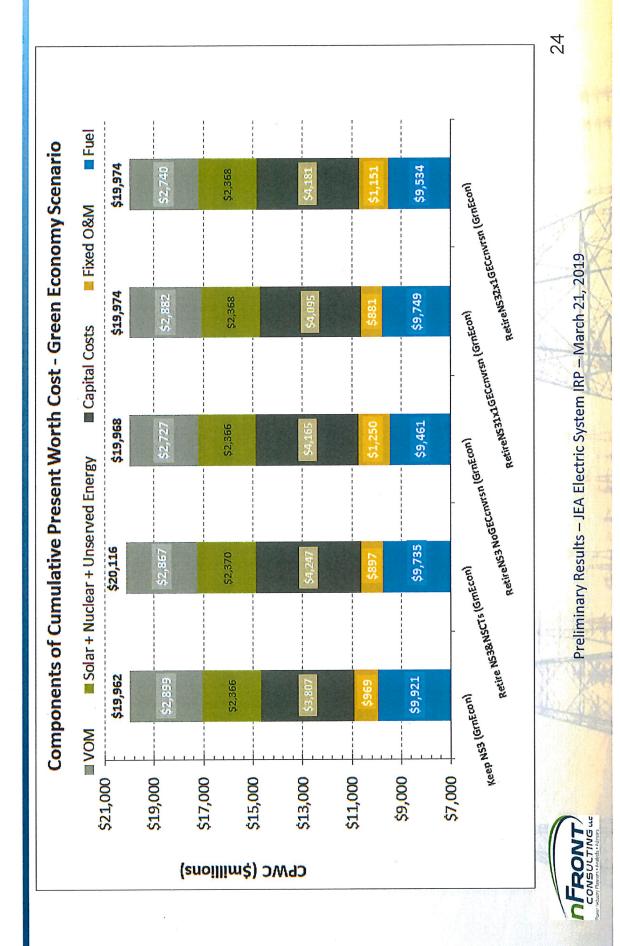
Results of Expansion Planning and Production Cost Modeling – Load Erosion Scenario

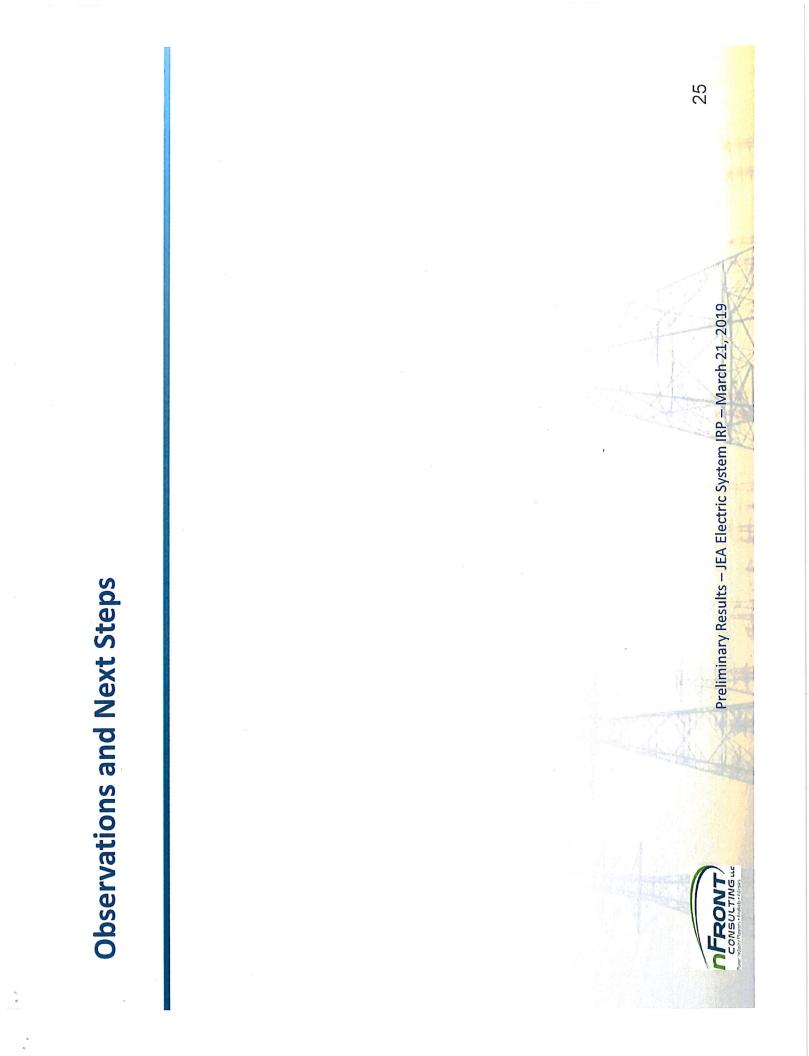


Results of Expansion Planning and Production Cost Modeling – Increased Electrification Scenario



Results of Expansion Planning and Production Cost Modeling – **Green Economy Scenario**





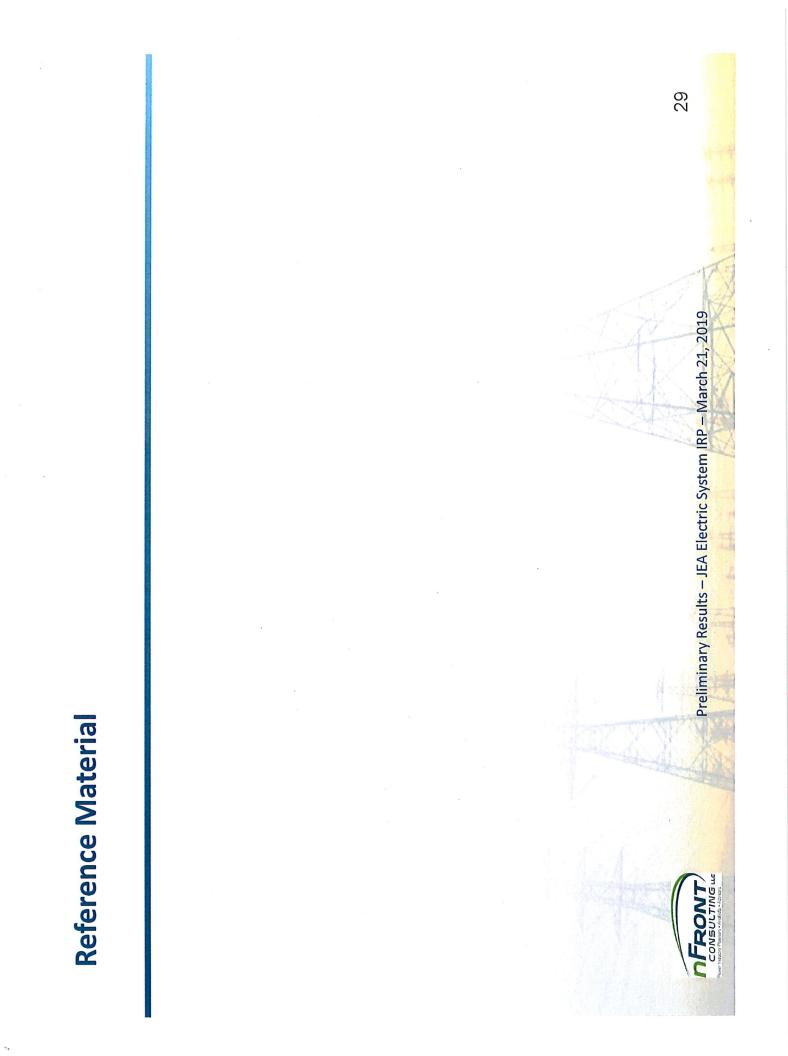
Overall Ol Modeling	Overall Observations from Expansion Planning and Production Cost Modeling
o In ge	 In general, CPWCs of expansion plans are close to one another When comparing plans including continued operation of Northside 3, retirement of Northside 3 (9/2025), and GEC combined cycle conversion: Comparison of CPWCs within each scenario/sensitivity are within ~ 1% to 3% of one another
o Othe	 CPWCs are often less than 1% different between expansion plans Plans with retirement of Northside 3 (9/2025) and new combined cycle in 2025 are generally lowest in CPWC; differentials in CPWC are small Other considerations beyond CPWC related to Northside 3 retirement and
	 Condition Assessment Regulations beyond 316(b) Reliability Safety
	Capital Investment Efficiency Operational Flexibility
CONSOLUTING LA	Preliminary Results – JEA Electric System IRP – March 21, 2019

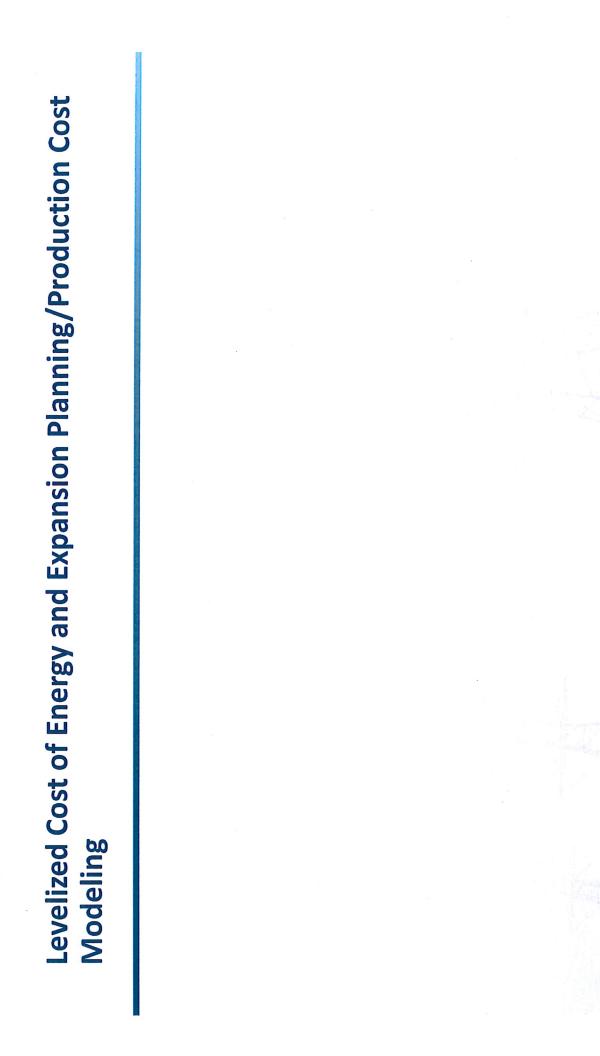
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- Finalize IRP
- Northside 3 retirement decision
- combined cycle or 2x1 combined cycle conversion or If move forward with combined cycle (i.e. GEC 1x1 new combined cycle): 0
- Consider issuing Request for Proposals (RFP) to compare to selected alternative (i.e. GEC CC conversion or new 1x1 combined cycle)
- New or expansion of existing power plant with 75 MW or more of steam capacity falls under PPSA (see next slide)
- Other environmental permitting required



Preliminary Results – JEA Electric System IRP – March 21, 2019





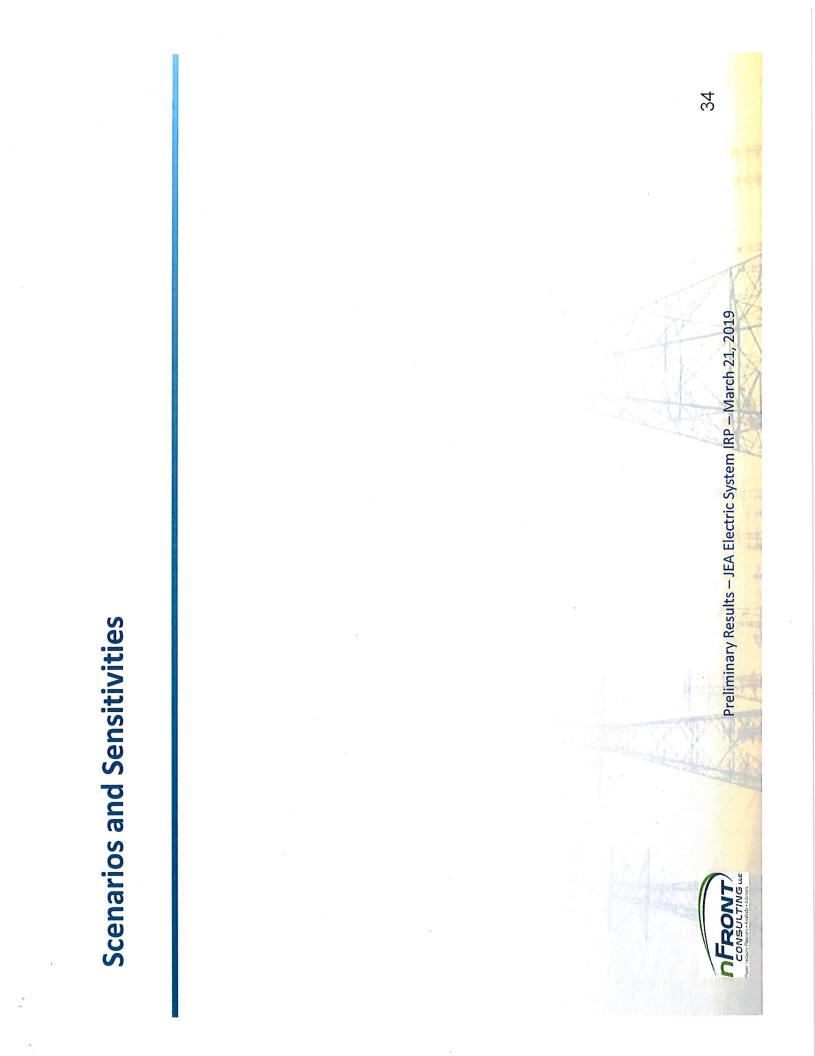


Preliminary Results – JEA Electric System IRP – March 21, 2019

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Levelized Cost of Energy (LCOE)	 The LCOE analysis was developed based on the estimated cost and performance characteristics for the various alternatives LCOE provides a single, levelized cost per MWh (or kWh) lifecycle operating cost estimate for each of the supplyside options The LCOE analysis was performed at various assumed levels of annual operation (i.e. capacity factor, or amount of energy generated each year) for each supply-side option The LCOE analysis considered (as appropriate for each supply-side option) The LCOE analysis considered (as appropriate for each supply-side option) The LCOE analysis considered (as appropriate for each supply-side option) capital costs, operating costs, and fuel costs and expressed the total annual cost and corresponding energy generation on a nominal (current year) and present value basis 	Preliminary Results – JEA Electric System IRP – March 21, 2019

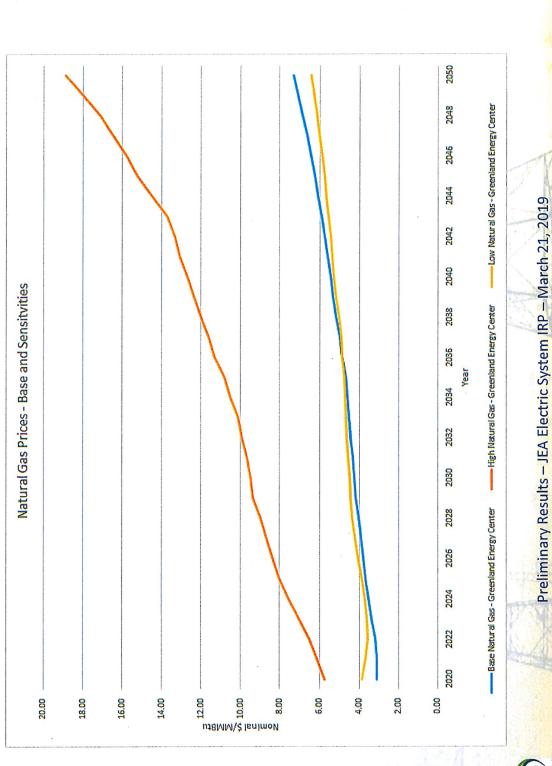
Levelized Cost of Energy (LCOE)

ction Cost Modeling	Expansion planning and production cost modeling was performed to evaluate various resource plans under numerous sensitivities/scenarios Used Strategist TM and ProMod TM , industry-accepted expansion planning and production cost models licensed by ABB (formerly Ventyx) Analyzed cumulative present worth costs (CPWCs), which represent the present value of JEA's system costs over the study period, including variable and fixed O&M costs, capital costs for new unit additions, costs for nuclear and solar purchases, fuel costs, and CO2 emissions costs (for evaluations in which emissions of CO2 are assumed to be regulated).	Preliminary Results – JEA Electric System IRP – March 21, 2019
Expansion Planning and Production Cost Modeling	 Expansion planning and production cost was performed to evaluate various reso under numerous sensitivities/scenarios Used StrategistTM and ProModTM, industry-expansion planning and production cost mby ABB (formerly Ventyx) Analyzed cumulative present worth costs (represent the present value of JEA's system study period, including variable and fixed C capital costs for new unit additions, costs for solar purchases, fuel costs, and CO2 emissi evaluations in which emissions of CO2 are regulated) Results are presented in subsequent slides 	Preliminary Results

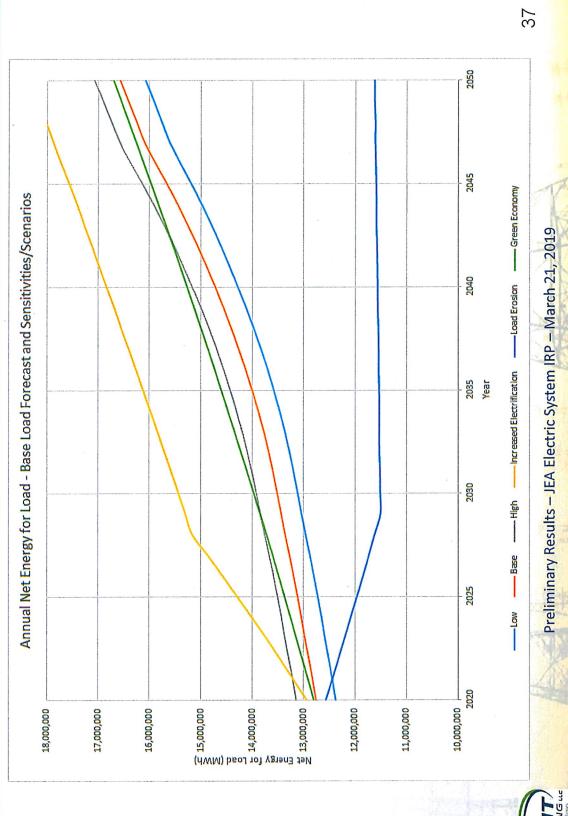


Scenarios and Sensitivities	 Baseline Scenario: Retirement of Northside 3 in 9/2025 Retirement of Northside 3 in 9/2025 No carbon dioxide emissions regulations No clean energy/renewable energy standards Baseline load forecast, fuel price projections, capital costs for new construction Considerations and Sensitivities under Baseline Scenario: No Northside 3 retirement (analyzed for all sensitivities) High and low load sensitivities Natural gas price sensitivities Additional Scenarios: Load Erosion 	 Increased Electrification Green Economy Reliminary Results – JEA Electric System IRP – March 21, 2019
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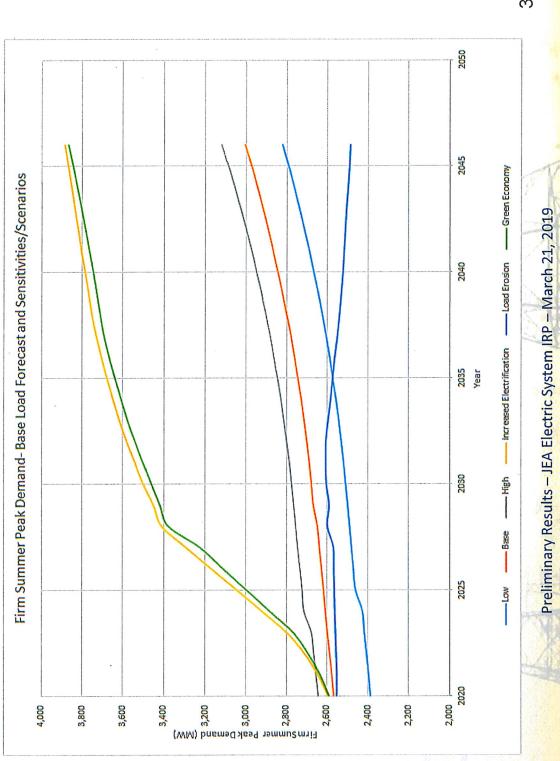


Load Sensitivities and Scenarios

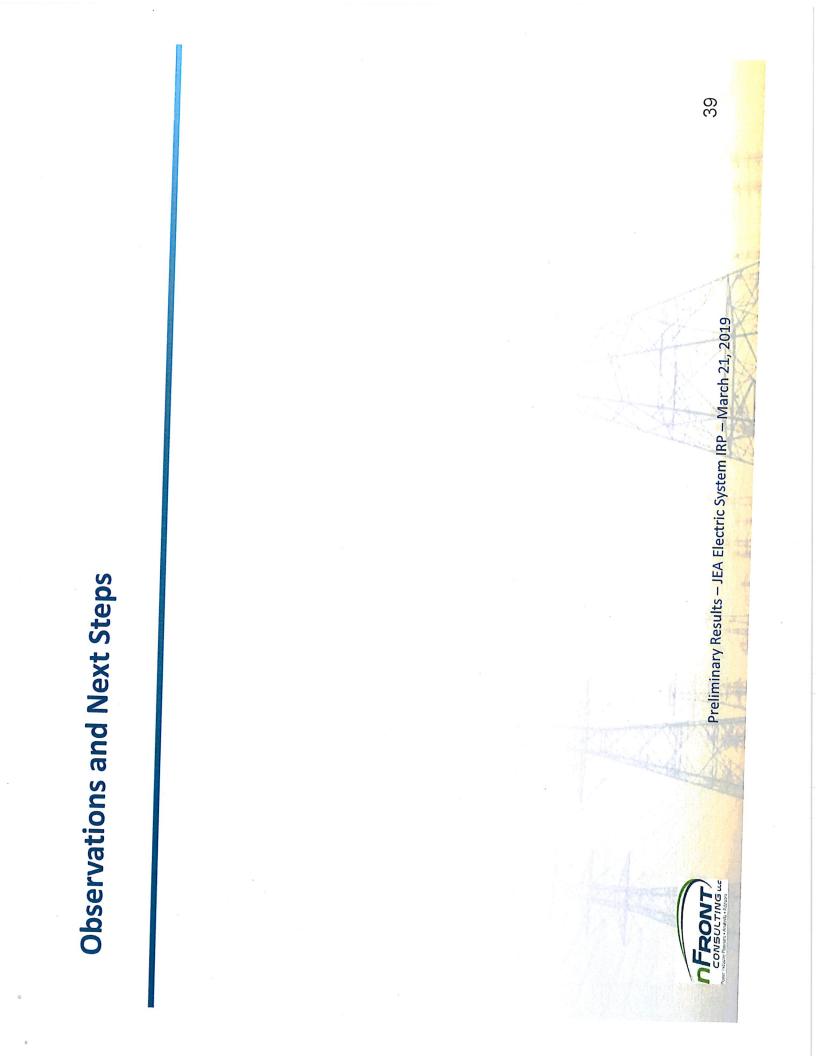


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Load Sensitivities and Scenarios



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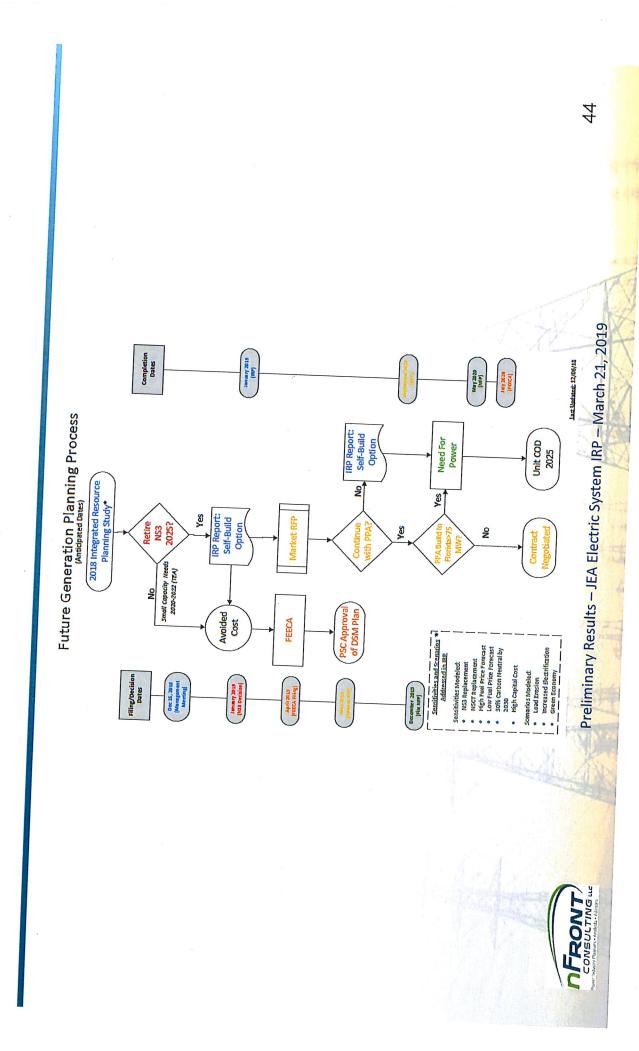
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Observations from Expansion Planning and Production Cost Modeling – Sensitivity and Scenario Analyses	 High Load Sensitivity Least cost plan includes continued operation of Northside 3 <u>and</u> new 1x1 7HA.02 combined cycle in 2025 Plan with retirement of Northside 3 (9/2025) includes new 1x1 7HA.02 combined cycle in 2025; ~ 1% higher in CPWC than least cost plan Plans with retirement of Northside 3 (9/2025) and either 1x1 GEC C Conversion are ~ 2.7% to 2.8% higher in CPWC than least cost plan Low Load Sensitivity Least cost plan includes retirement of Northside 3 (9/2025) and either 1x1 GEC Higher in CPWC than least cost plan Image: Northside 3 (9/2025) and either 1x1 GEC C Conversion are ~ 2.7% to 2.8% higher in CPWC than least cost plan Image: Northside 3 (9/2025) and either 1x1 GEC C Conversion are ~ 2.7% to 2.8% Image: Northside 2 (0,000 Northside 3 (9/2025) and new 1x1 7HA.02 combined cycle in 2025 Plan with continued operation of Northside 3 is ~ 0.6% bicker in the new 1x1 7HA.02 combined cycle in 2025 	 CPWC than least cost plan Plans with retirement of Northside 3 (9/2025) and either 1x1 GEC CC conversion are ~ 2.0% to 2.2% higher in CPWC than least cost plan Preliminary Results - JEA Electric System IRP - March 24, 2019

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Observations from Expansion Planning and Production Cost Modeling – Sensitivity and Scenario Analyses	 High Natural Gas Sensitivity Least cost plan includes ratirament of Northeirly 2 (2 (2002)) 	 Plan with continued operation of Name 1 2025 	CPWC than least cost plan	CC Conversion or 2x1 GEC CC Conversion are ~ 1.5% to 1.9% higher in CPWC than least cost plan	 Low Natural Gas Sensitivity 	Least cost plan includes retirement of Northside 3 (9/2025) and new 1x1 7HA.02 combined cycle in 2025	Plan with continued operation of Northside 3 is \sim 0.7% higher in CPWC than least cost plan	 Plans with retirement of Northside 3 (9/2025) and either 1x1 GEC CC Conversion or 2x1 GEC CC Conversion are ~ 1.3% to 1.8% higher in CPWC than least cost plan 	CONSULTING us CONSULTING us March 21, 2019

Observations from Expansion Planning and Production Cost Modeling – Sensitivity and Scenario Analyses	 Load Erosion Scenario Least cost plan includes retirement of Northside 3 (9/2025) and new 1x1 7HA.02 combined cycle in 2026 Plan with continued operation of Northside 3 is ~ 1.7% higher in CPWC than least cost plan Plans with retirement of Northside 3 (9/2025) and either 1x1 GEC Conversion or 2x1 GEC Conversion are ~ 2.1% to 3% higher in CPWC than least cost plan In CPWC than least cost plan Increased Electrification Scenario Least cost plan includes continued operation of Northside 3 <u>and</u> new 1x1 7HA.02 combined cycle in 2025 Plan with retirement of Northside 3 (9/2025) includes new 1x1 7HA.02 combined cycle in 2025 Plan with retirement of Northside 3 (9/2025) and either 1x1 GEC conversion or 2x1 GEC conversion are ~ 2.7% to 3.1% higher in CPWC than least cost plan 	Preliminary Results – JEA Electric System IRP – March 21, 2019 42
Observations fr Modeling – Sen	 Load Erosio Least cos new 1x1 Plan with CPWC th CPWC th Plans with CC Conversion Increased El new 1x1 Plan with 7HA.02 cost plan Plans with 7HA.02 cost plan Plans with 7HA.02 cost plan Plans with 7HA.02 cost plan 	Terr Franch Annual Construction of the Annual Co

 Observations from Expansion Planning and Production Cost Modeling – Sensitivity and Scenario Analyses Green Economy Scenario Green Economy Scenario Green Economy Scenario Ieast cost plan includes continued operation of Northside 3 and GEC 1x1 combined cycle conversion in 2025 Plan with retirement of Northside 3 (9/2025) includes new 1x1 THA.02 combined cycle in 2025; CPWC is essentially a "break-even" with least cost plan Plans with retirement of Northside 3 (9/2025) and either 1x1 GEC Conversion or 2x1 GEC CC conversion essentially "break-even" 	Preliminary Results – JEA Electric System IRP – March 21, 2019
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Generation Planning Flow Chart



From:McInall, Steven G. - Dir, Electric Production Resource Planning <mcinsg@jea.com>Sent:Monday, September 10, 2018 10:03 AMTo:Crawford, Juli E. - Manager - Financial Planning & RatesSubject:FW: Electrification PresentationAttachments:JEA-ICF Presentation to JEA Board - CSMD 9-10-2018.pptx

FYI. Good luck working this in with your "gloom and doom" presentation.

Steve McInall. P.E.

Director, Electric Production Resource Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

From: Nichols, Vicki D. - Dir Customer Solutions & Market Development
Sent: Monday, September 10, 2018 9:54 AM
To: McInall, Steven G. - Dir, Electric Production Resource Planning <mcinsg@jea.com>
Subject: Electrification Presentation

Steve,

I appreciate your helpful feedback on our EV presentation. We made some key additions and it set a tone for further alignment with forecasts and financial performance. Here is a copy of the final just finished Friday. Really appreciate your teamwork.

Vicki D. Nichols Director, Customer Solutions & Market Development JEA

21 West Church Street, T-12 Jacksonville, FL 32202-3139 (904) 665-5008 <u>nichvd@jea.com</u> <u>www.jea.com</u> JEA is a not-for-profit, community owned utility **E** ♥ ⁱ





Exhibit 4 - Being Reviewed

From:McInall, Steven G. - Dir, Electric Production Resource Planning <mcinsg@jea.com>Sent:Monday, September 10, 2018 10:03 AMTo:Crawford, Juli E. - Manager - Financial Planning & RatesSubject:FW: Electrification PresentationAttachments:JEA-ICF Presentation to JEA Board - CSMD 9-10-2018.pptx

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Vicki D. Nichols Director, Customer Solutions & Market Development JEA

21 West Church Street, T-12 Jacksonville, FL 32202-3139 (904) 665-5008 <u>nichvd@jea.com</u> <u>www.jea.com</u> JEA is a not-for-profit, community owned utility **I** ♥ [™]



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Electrification An Emerging Market

Kerri Stewart Chief Customer Officer

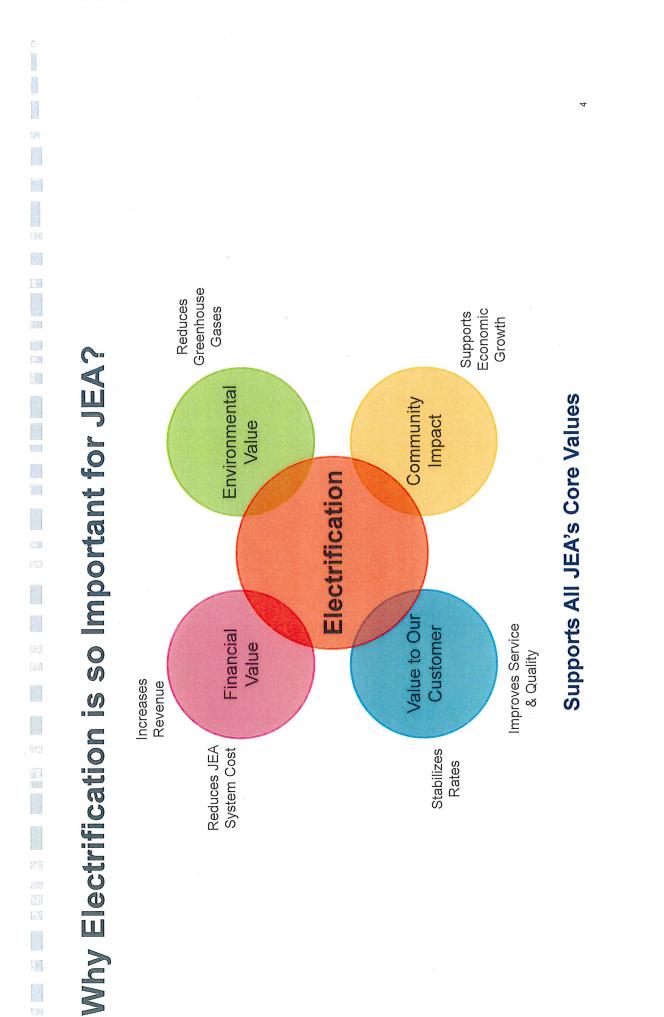
9/18/2018

Agenda

JEA Electrification 101

- JEA Strategy To Date
- **JEA's Bold Electrification Future**
- Introduction to ICF
- Business Drivers for Electrification
- Approaches to Electrification
- Program Examples
- Considerations with Electrification
- A Strategic Path Forward for JEA





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On-Road Program Summary	ummary		
Components	Incentives	0 S	Results
 EV Educational Forums 	New Electric Vehicle	JEA Incentive	1,032 EVs in Jacksonville
 Charging Infrastructures 	Battery size less than 15kWh	\$500	✓~\$400k revenue
Support	Battery size of 15kWh or higher	\$1 , 500	Program ROI (171 qualified participants) = 135%
 Itusted Advisor Promotional Outreach 			 High market growth projected
· · · · · · · · · · · · · · · · · · ·			τα

nmary	Results	🗸 \$8.8M revenue	✓ 67% of new sales off-	peak	🗸 Annual Budget ~\$900k	Program ROI = +1200%	🗸 267 participants	 100% customer 	201121011	7	
Non-Road Electro-technology (NRE) Program Summary	Incentives	Electrotechnology JEA Incentive	Forklifts \$300	Airport Ground Support Equipment \$100 - \$600	Truck Refrigeration Units \$200	Heavy-Duty Truck Stop Electrification \$200	Cranes \$15,000 - \$75,000	Golf Carts \$50	Welders \$500		
Non-Road Electro-	Somponents	 Marketing 	 Vendor Training 	 Consultation with JEA 	Customers	 Technical Support 	Financial analysis	 QA/QC inspections 	 Incentive Payment 		

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Strong Non-Road Participation and Customer Satisfaction

Sample Feedback

"The program is exactly as advertised and works very well, [the program] has been excellent to work with and always keeps us abreast of opportunities that we may not have thought of." J. Peacock Southeastern Toyota/JM Family Enterprises

"We could not be happier with the program and with JEA. JEA treats us very well and we do appreciate that."

Jack McDuffie, Sysco Foods

"When we first entertained the idea of going to electric from diesel with our cranes we were skeptical. The program works very well for us, we have reduced our annual costs, electric versus diesel, and are looking forward soon to more conversions to electric.

Lynn Westbrook, Jacksonville Port Authority "BMW is very happy with the program...We are very

grateful to JEA." Christopher McMurray, BMW Distribution Center ω

Notable Participants



There exists an opportunity to increase the scale and scope of both the on-road and non-road program. By adding additional technologies, program design elements, and budget, JEA may be able to: • Quadruple the revenue and values from the programs	 Put downward pressure on rates Provide a more flexible and efficient JEA load shape 	 Significantly reduce JEA's (and its customers') environmental footprint 	JEA is currently conducting a study with ICF to quantify the costs and risks of pursuing this opportunity. The study will be	complete in 2019.
	JEA's Bold Electrification	Future		

icf.com





David Pickles Senior Vice President – Commercial Energy

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· · · · · · · · · · · · · · · · · · ·		tors ion, Government, 1, Education, Retail, pitality Sectors			myserda	Alberta				Negari Joga Persola Teor	T
		G Clobal Sectors Global Sectors Energy, Transportation, Government, Environment, Health, Education, Retail, Consumer, and Hospitality Sectors		ilities	NJTPA Million	SANDAG	🔇 scta	TAHOE REGIONAL PLANNING			
· · · · · · · · · · · · · · · · · · ·				Non-Utilities	Calverto	C druwn vurt					
		Providing More Electrification Services to Utilities than any other Consultancy	Electrification Clients		🌒 SMUD		S ENERGY.	💥 Alliant Energy			
500 600			rificatio	S	M	Pacific Gas and Pecific Gas and		Southern Company	SDGE A Sempra Energy user		
. 624		In annual revenue	Electr	Utilities	CenterPoint Energy	TEV	🌧 Entergy.	ALL MARCEN MISSOURI	JOINT UTILITIES	Clean Power	
5 SI (\$1,2B In annual revenue	S			alysis	۰ ۵				
	Introduction to ICF	ເພັບ ແລະ and center and center Pay Equity 55% Female Leaders and Gender Pay Equity	Electrification Services	Strategic Planning	Technology Screening	Market Assessment System/Locational Impact Analysis	Environmental Impact Analysis	Cost-Effectiveness Evaluation Program Design	Marketing & Outreach	Program Delivery Program Evaluation	TCF Copyright 2018, ICF Resources, LLC.

1 Business Drivers of Beneficial Electrification (BE)

			Business Driver	L.		
Slow Sales Growth	Desire to Reduce Rates	Pressure to Reduce Greenhouse Gases	Goal to Improve Grid Utilization	Need to Manage Distribution System Growth	Desire to Reduce Customer Costs	Need to Provide Exemplary Customer Service
	1 II II	1 5 5				5 10 12
BE programs can add as much as 0.75% system energy sales each year	A full-scale program can reduce average rates by as much as 2%	Customer-site GHG emissions often go to zero, and net emissions decline up to 85%	Utility system efficiency (load factor) can increase by as much as 3%, and Demand Response and Vehicle-to-Grid options provide additional benefits	Growth on capacity constrained distribution feeders can be managed and capital investments delayed or eliminated	Customer costs typically decrease from 10-60%	Electro- technologies often operate with significantly less noise, workplace pollution or particulates, and with greater control and less waste
						
			BE Solution			

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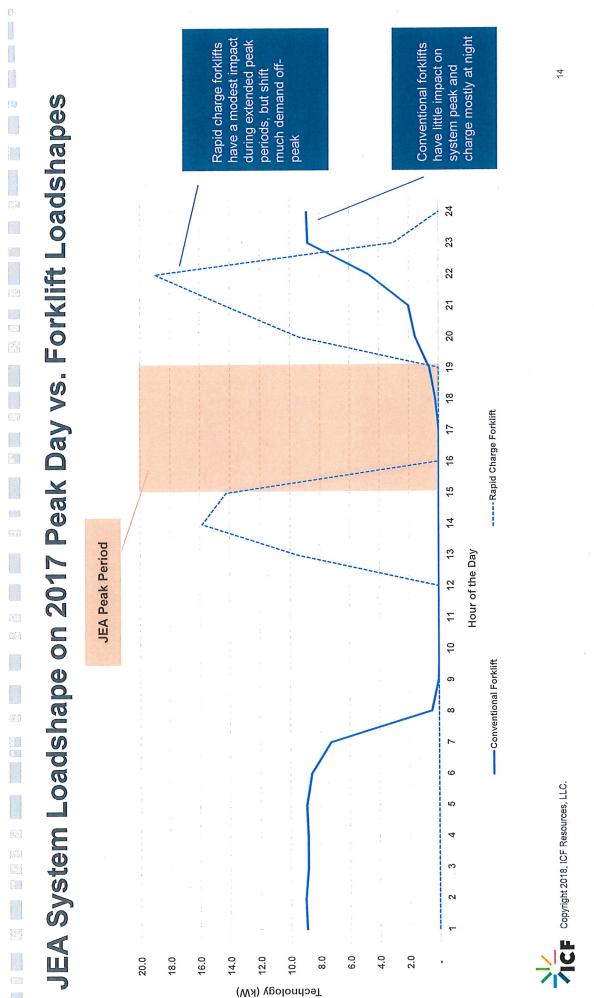
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The Power of Improving System Utilization (Load Factor) by Increasing Off-Peak Sales



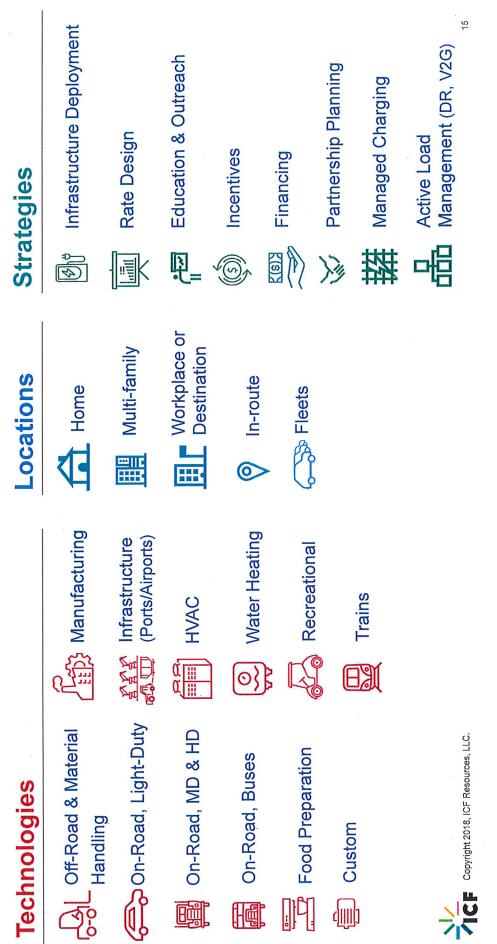


Note: In a future draft we need to net program costs against this and verify the calculations with JEA



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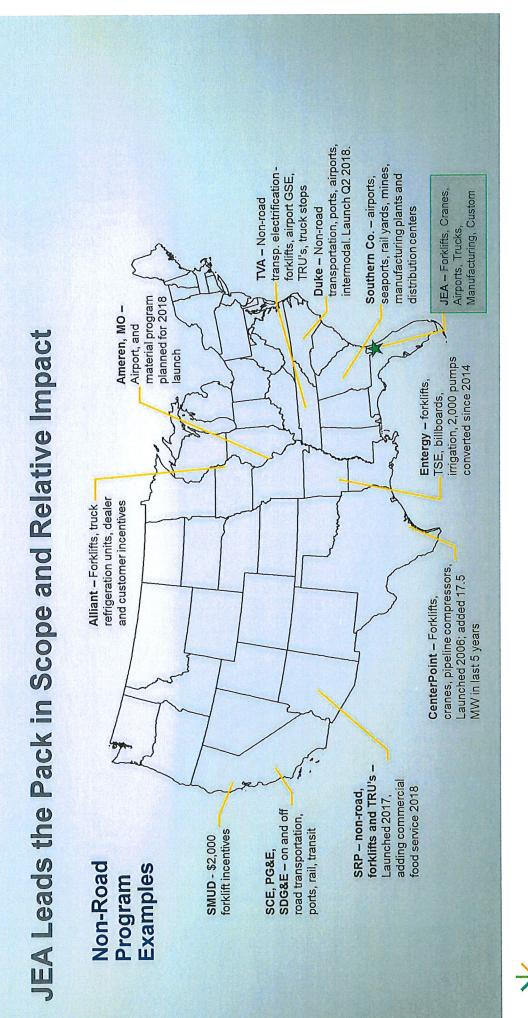
Possible Expanded Approaches to Beneficial Electrification



Many Additional Technologies Provide Significant Benefits

	Material Handling and Port Equipment	dling and Po	rt Equipment	Airpor	Airport Ground Support Equipment	upport Equi	pment		On-Road	
	Rapid Charge Forklift	E/S TRU	RTG Cranes	Ground Power Units	Pushbacks	Baggage Tractors	Belt Loaders	Light-duty Vehicles	Transit Buses	Refuse Trucks
Annual kWh	27,190	15,000	600,000	148,000	61,420	23,360	12,260	4,000	50,000	35,000
% kWh Off Peak	56%	100%	63%	56%	74%	%17	%17	75% (+)	80% (+)	100%
Peak kW	7.6	0.0	124.7	35	19.4	7.2	3.8	7	50	0
JEA Net Annual Margin	\$2,560	\$1,320	\$64,160	\$12,900	\$8,040	\$3,230	\$1,690	\$326	\$3,092	\$2,164
JEA Present Value Lifetime Net Margin	\$19,760	\$9,560	\$695,450	\$100,240	\$62,100	\$24,960	\$13,100	\$2,510	\$23,806	\$16,664
Lifetime Site GHG Saved (Metric Ton)	337	237	12,164	1,325	550	250	131	36	534	553
Lifetime Site NOx Saved (Metric Ton)	0.3	1.0	24.3	6.0	2.5	0.6	0.4	0.2	1.6	2.3

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 Loads & Loads & Considerations in Consideration Free ride Free ride Incentive Fuel con Fuel con Fuel con Allocatio Allocatio Allocatio Allocatio Allocatio Allocatio Allocatio Allocatio Paricipant (PCT) Mil participants benefit over the mea 	ODS IN - L ODS IN - L Ir OD - L - A - A - A - A - A - A - A - A - A - A	 Loads & locations to avoid Loads & locations to avoid Free riders Free riders Incentive strategy Incentive strategy Fuel competition Fuel competition Allocation of benefits Allocation of benefits Strom Multiple Perspectives Key Question Asked Benefits Mill participants benefit over the measure life? 	to avoid fits fits enefits community avings will savings savin	 Operations of responsive technologies Integration with JEA and national initiatives (VW, Smart City, etc.) Recovery of costs Competitive markets Defining cost effectiveness Lost Cost Cost
Modified Total Resource Cost (mTRC)	Will the total cost of en- territory decrease?	Will the total cost of energy in the utility service territory decrease?	O&M Savings Cost of IC Energy Supply	Net Participants Electric Supply and Net Participants Incremental Capital Cost Program Overhead Program Incentives Paid to "Free Riders"
JCF Copyright 2018, ICF Resources, LLC.	urces, LLC.			

How do we capitalize on the momentum created by the existing program?	 What is the size and value of future electrification opportunities? On-Road Off-Road Controlled charging/load management 	${f C}$ - Which technologies and customers show the greatest promise?	ns We • Which program designs are most appropriate?	 How can we be sure we do not create future generation or distribution problems? 	What are the best entry strategies and where can we cooperate with others?	 What are the risks and how do we mitigate them? 	What are the financial expectations and measures of performance?	 How to resource internally and externally? 	 Who are our best partners and how to partner? 	2018, ICF Resources, LLC.
		Strategic	Questions We	Will be Addressing						TCF Copyright 2018, ICF Resources, LLC.

Guiding Principles

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Short Term (<3 years)	JEA Annual Sales to Ultimate Customers
 Expanded non-road program 	13,000 Medium Term (2024) Impact +528 GWh (4.3%)
 Pilot EV charging stations for personal and fleet vehicles 	12,500 Short Term (2021) Impact +264 GWh (2.2%)
Electric transit bus pilotsAdditional charging stations	12,000
Long Term (3-10 years)	ew 11,500
 Dedicated port electrification Expand EV charging stations 	11,000
 Expand transit bus electrification Electrify JEA fleet vehicles 	10,500
 Support statewide charging network Link electric Transit Buses & Skyway with solar charging stations 	10,000 10,000



Potential Projects and Opportunities

- Tug Boats at the Jacksonville Port Authority Ports, Naval Air Station Jacksonville, Mayport Naval Ship Yard, and possibly docking stations downtown on the Saint Johns River.
- Port Gantry Cranes (4)
- Mayport Ferry ship for transporting vehicle and passengers.
- Shore Power for ships (instead of running generators) – ports listed above plus the cruise line port in Jacksonville.
- Vehicle-to-Grid (V2G) and Battery-to-Grid Pilots
- *Note: Under evaluation in JEA's Electrification Strategic Plan.



- Locomotive Cold-Storage Generators (Florida East Coast Railways opportunity)
- Buses (both city and school)
- Drayage-Yard Trucks (primarily utilized at and around the ports.)
- Local Delivery FedEx, UPS, Amazon, and JTA (Jacksonville Transportation Authority) trucks
- "Garbage" Trucks
- Hangar doors (Boeing, Flightstar, local airports, Air National Guard, Naval Air Station Jacksonville, Mayport Naval Base)

- 1) Agreement on forward business case initiative
- 2) Inventory and review JEA's current portfolio of initiatives
- 3) On-road assessment
- 4) Expanded off-road assessment

Steps

Next

- 5) Identify and assess potential technologies and designs
- 6) Develop business cases
- 7) Recommend strategic plan

From: Sent:	Fischer, Melinda L Manager Customer Solutions <fiscml@jea.com> Tuesday, September 11, 2018 11:20 AM Crewford, Juli E. Managar, Einangial Planning & Pater</fiscml@jea.com>
To:	Crawford, Juli E Manager - Financial Planning & Rates
Cc:	Nichols, Vicki D Dir Customer Solutions & Market Development; Leigh, Timothy G
	Manager Customer Solutions; Wucker, Donald P.; Blackshear, Victor L Financial Analysis Specialist
Subject:	RE: JEA Status Quo
Attachments:	Juli-DataRequest.xlsx

Juli,

I apologize for the delay. Here is the assumptions we had put together. Please let me know if you have any question regarding this.

Thanks, Melinda

From: Crawford, Juli E. - Manager - Financial Planning & Rates
Sent: Tuesday, September 11, 2018 11:16 AM
To: Fischer, Melinda L. - Manager Customer Solutions <fiscml@jea.com>; Leigh, Timothy G. - Manager Customer Solutions <leigtg@jea.com>
Cc: Blackshear, Victor L. - Financial Analysis Specialist <blacvl@jea.com>
Subject: JEA Status Quo

Hi Melinda/Tim,

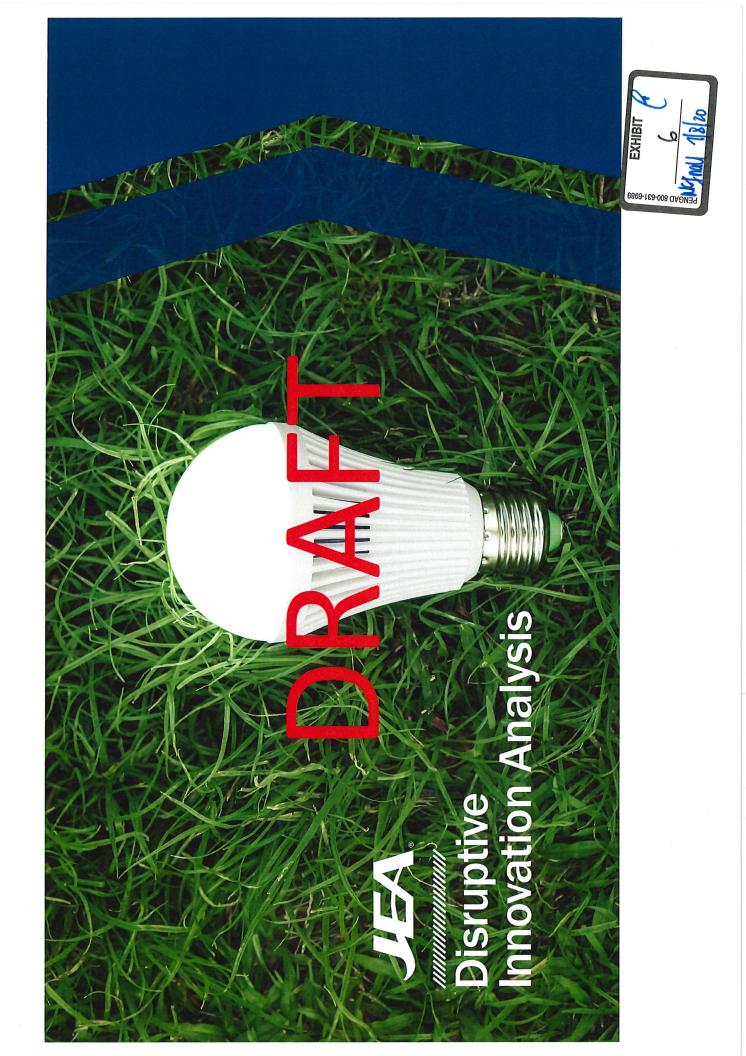
Our first draft for the JEA Status Quo case is due Friday, so we are in the process of creating our outline. Do either of you have assumptions nailed down that you can send to us?

Thanks, Juli

Juli Crawford

Interim Director of Financial Planning and Analysis Direct: (904) 665-6151 Mobile: (352) 219-0534





Disruptive Innovation

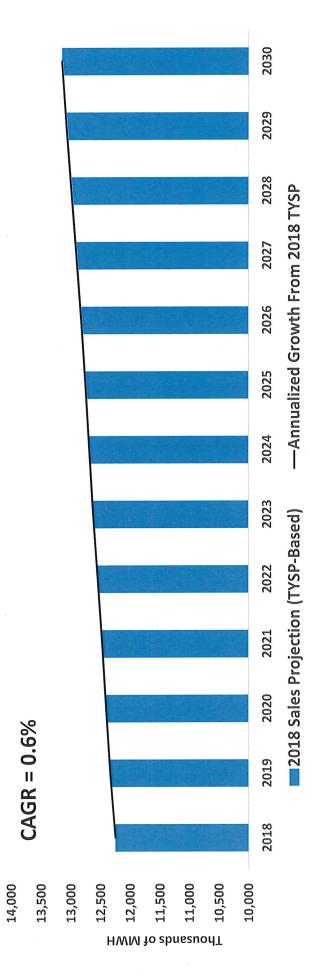
an innovation that creates a new market and value network and eventually disrupts an existing market and The JEA Enterprise systems face increasing pressure from disruptive innovation. A disruptive innovation is innovation has changed phone service [iPhone], video rental [Netflix], retail sales [Amazon], and taxi value network, displacing established market-leading firms and products. As we all know, disruptive [Uber/Lyft] industries.

JEA, and its predecessor organizations, has been the market leader for providing electric, water, and sewer services to northeast Florida for over 100 years. Increasing innovation threaten the stability of the core businesses of JEA.

efficiency, and the advancement of battery technology. Electric vehicles and non-road electrification can The Electric Enterprise faces threats from increasing rooftop and commercial solar penetration, energy offset some of the erosion by solar and battery technology and energy efficiency. The Water Enterprise faces threats from growth in constrained water supply areas due to JEA's CUP limits, and legislation requiring stricter treatment and discharge criteria. This analysis is an examination of the disruptive innovations affecting the JEA systems. There are several assumptions made in this analysis as to how these innovations and changes will affect traditional JEA revenue sources (electric, sewer, and water sales).



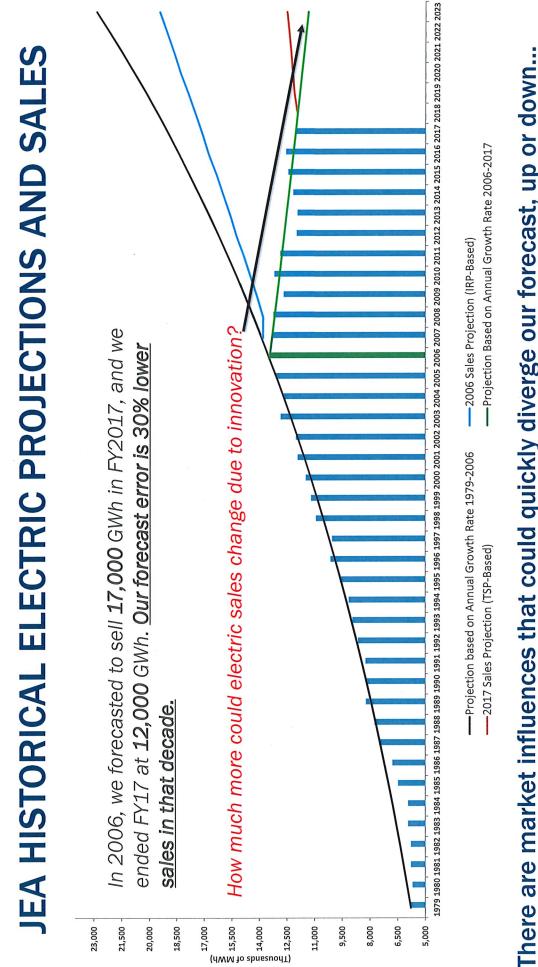
CURRENT ELECTRIC FORECAST = GROWTH



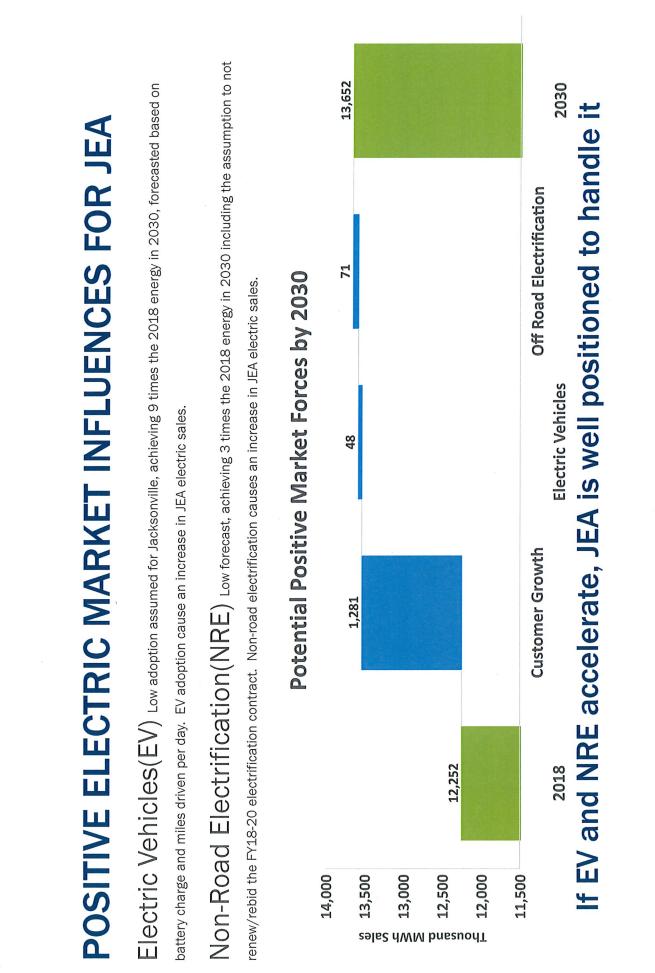
GROWTH JEA electric sales are forecasted using multiple regression analysis of sales history, population, median household income, housing

starts, commercial square footage, commercial employment, gross product, and electric rates in the JEA Ten Year Site Plan (TYSP).

However, recent history has taught us that market forces can change this trend







NEGAT	IVE EL	NEGATIVE ELECTRIC M	ARKET II	MARKET INFLUENCES FOR JEA	4
Energy E- achieving a 24% (Energy Efficiency (EE) JEA achieving a 24% CAGR between 2018 and 2030	EE) JEA is offering custom and 2030	istomers both education	Energy Efficiency (EE) JEA is offering customers both education and economic incentives on more efficient end-use technologies achieving a 24% CAGR between 2018 and 2030	chnologies
Codes ar	Codes and Standards (CS)		oating stricter regulati	Anticipating stricter regulations will lead to 1% CAGR between 2018 and 2030	Q
Rooftop	PV (RPV)	According to Solar Energy	Industry Association (SF	Rooftop PV (RPV) According to Solar Energy Industry Association (SEIA), total installed PV capacity in the U.S. is expected to more) more
than double over	the next 5 years an	d JEA is taking a more ag	gressive forecast of 60%	than double over the next 5 years and JEA is taking a more aggressive forecast of 60% CAGR between 2018 and 2030	
		Potential D	isruptive Mar	Potential Disruptive Market Forces by 2030	
ي 13,500		1,281			
500 12,500	12,252				
N 11,500			(2.070)		10 876
10,500				(337) (301)	020/01
002 [°] 6					
8,500		Growth		Energy Efficiency	2030
	2018		Rooftop PV	Codes & Standards	
If EE,	CS, RPV a	If EE, CS, RPV accelerate an	d electrifica	and electrification remains stagnate,	
JEA CI	ustomer a	JEA customer and financial value become at risk.	value becor	ne at risk.	

JEA CURRENT FRAMEWORK

Florida Public Service Commission

- Require electric power conservation and reliability within a coordinated grid
- Approve territorial agreements and settle territorial disputes
- Prescribes uniform systems of accounts & rate structures for all electric utilities
- This includes oversight that the total revenue requirements of utilities are collected fairly from all customer classes.

City of Jacksonville Charter

- Article 21.04: If JEA determines that it is... appropriate... to provide... any other utility system or function... JEA shall by resolution identify such authority with respect to electric, water, sewer, natural gas, and such other utility systems as may be under its control now or in the future. Article 21.01: Established JEA for the express purpose of acquiring, constructing, operating, financing, and otherwise having plenary
- Article 21.07: There shall be assessed upon JEA...from revenues of the electric...and water and sewer system...after the payment of all costs and expenses incurred by JEA in connection with the operation...JEA shall pay the city combined assessment from the electric system and additional utility system...to the council the water and sewer system.

St. Johns River Water Management District

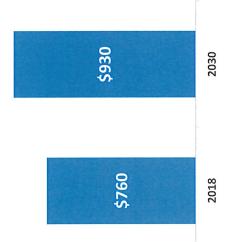
- The district sets minimum flows and levels for rivers, lakes and springs to ensure that water use does not cause significant harm to these important resources.
- JEA's consumptive use permit (CUP) allows water to be withdrawn from groundwater or surface water for reasonable-beneficial uses such as public supply (drinking water), agricultural and landscape irrigation, commercial use and power generatior

JEA Pricing Policy

- Primary goal is to establish revenue requirements to fully recover the costs necessary to operate and maintain the utility, consistent with its mission, through fair and equitable pricing
- The total revenue requirement of each system must be sufficient to ensure the financial integrity of the utility, including recovery of debt service, sufficient revenue to meet renewal and replacement fund requirements, and maintenance of key financial metrics



Declining electric sales results in <u>significant</u> rate increases to meet higher revenue requirements



OCTOBER 2018

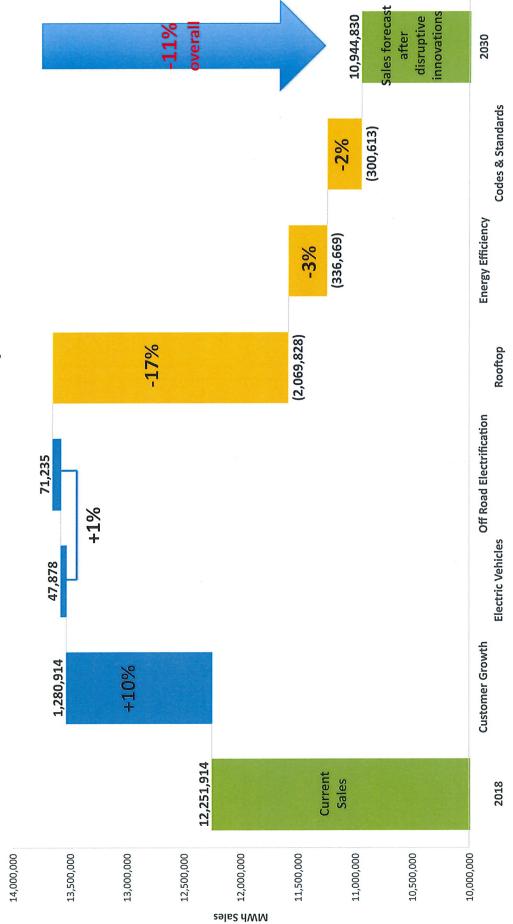
LEA STATUS QUO CASE

Status Quo: RESULTS IN

- Stranded electric assets
- Fixed debt service obligations
- More pressure to meet the COJ contribution requirement •
- Additional revenue required from customers from 2018 to 2030 = \$1 billion •

Evolution: JEA Charter Change

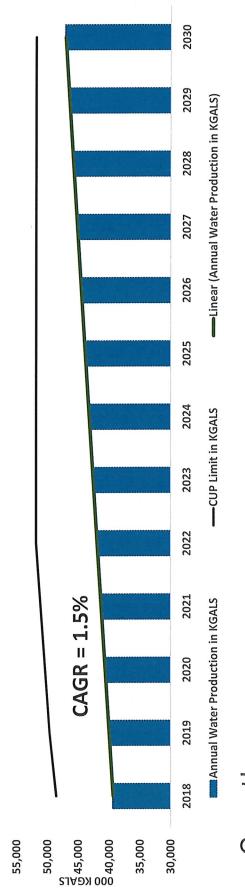
- A charter change would allow JEA to participate in disruptive innovation. •
- For example, JEA could install rooftop and commercial solar, develop and retail storage solutions, expand dark fiber, and other technology. •



Potential Market Forces by 2030

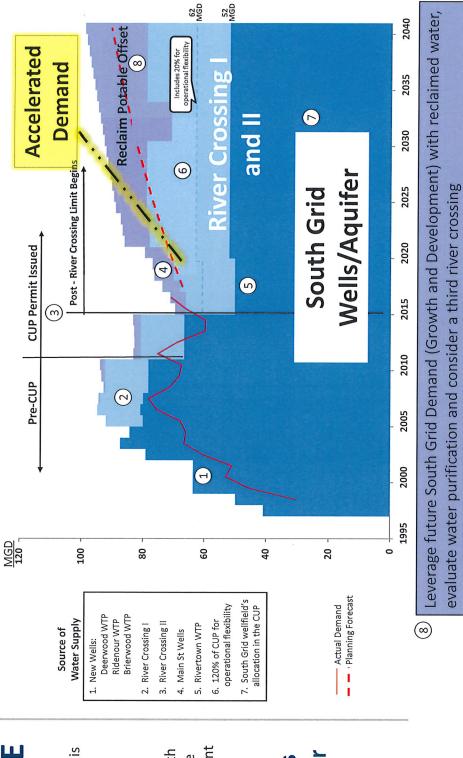
CURRENT WATER FORECAST = GROWTH

Total Water System CUP Limit



 Growth JEA water sales are forecasted using multiple regression analysis of sales history, population, weather, and socio-economic variables.

However, associated costs to maintain growth could quickly erode financial value if local CUP limits are exceeded



LOCAL GRID CUP PRESSURE

South Grid's CUP limit is 52MGD. The current demand is ~65 MGD. 18MGD currently comes from Main Street River Crossings. In the future under high growth conditions, the demand on the South Grid could exceed current supply options.

Costly investments in alternative water supply options will be required. Alternative Water Supply Options

producing purified water using highly treated wastewater as a JEA is conducting a forwardevaluate technologies for development project to thinking research and source.

(Based upon a + c. Assumes some pretreatment similar to e. Adjusted to January 2018 dollars (RSMeans Historical d. Total O&M cost assumed to be \$2.20/1000 gallons a. Total O&M cost assumed to be \$1.00/1000 gallons gallons(Based on Vander Lans and GWRS O&M costs) c. Total O&M cost assumed to be \$1.20/1000 gallons Ozone/BAF would be required for Surface Water RO) (Cost of Brackish Groundwater Desalination in Texas, f. Purification Cost only - no storage/transmission b. Total O&M cost assumed to be \$1.50/1000 2012, Texas Water Develop Board) mains/injection wells) Cost Indexes)

Data from Todd Mackey - Dir W/WW & Reuse Treatment

Water Supply Option	Capacity (mgd)	Capital Cost (SMillions) [¢]	O&M Annual/Year (S Millions)	Cost per year Capital (SMillions)*
Demand-Side Management	o,	86	\$1.0	\$0.4
Reclaimed Retrofit	1	\$19	\$0.1	\$1.2
TWMP	20	\$107	\$2.0	\$7.0
Third River Crossing	25	\$230	\$1.7	\$15.0
Water Purification - Ozone/BAF ^{a,f}	10	\$100	\$3.7	\$6.5
Water Purification - UF/LPRO b.f	10	\$100	\$5.5	\$6.5
RO of Brackish Groundwater ^c	10	\$73	\$4.4	\$4.7
RO of Brackish Surface Water ^d	10	\$138	\$8.0	\$9.0

For example: Water Purification Plant Localized growth results in AWS investment

This 25 MGD plant would cost \$250M in capital and additional \$10M annual 0&M.

> funded with new debt and rate increases*

...RESULTS IN

New debt for AWS capital investments

\$556

\$463

2030

2018

*assuming overall 1% water/sewer growth

Require a 5% rate increase in 2025



WATER MARKET

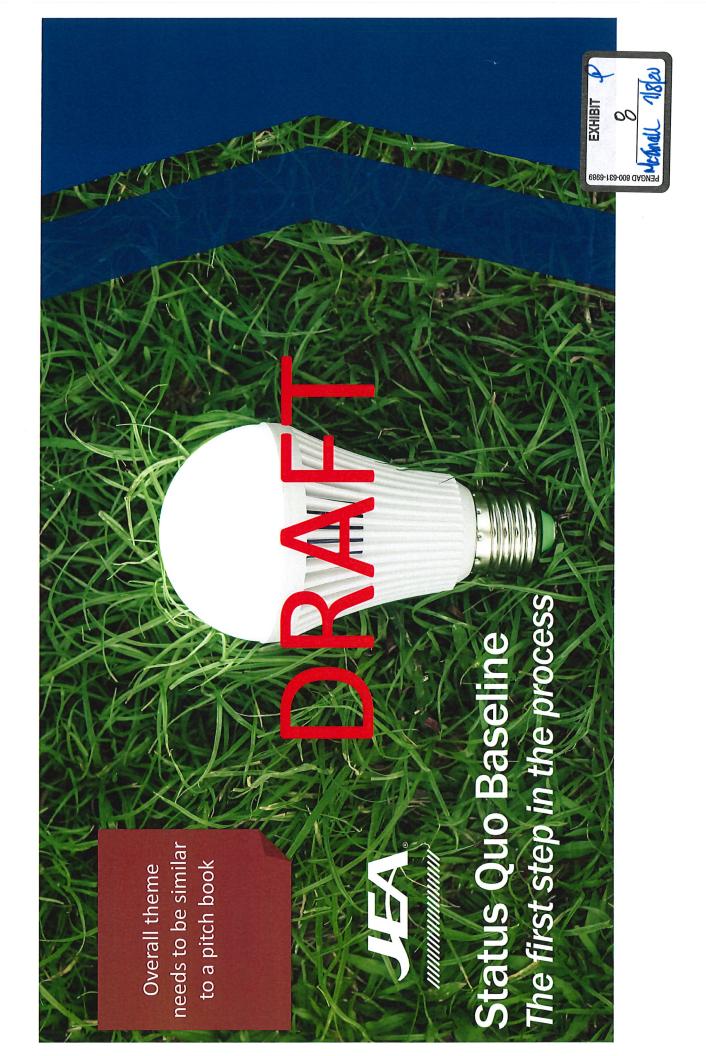
Water Efficiency JEA water production is governed by the consumptive use permit (CUP) issued by the St. Johns River Water Management District. The current permit is valid through the year 2031 for a system total of 142 MGD. JEA Water/Wastewater Planning projections for this time period does not exceed the total CUP limit for combined JEA grids. There is the slight possibility that SJRWMD will reduce JEA's total CUP after 2031. There is some localized CUP limit pressure (namely the Southside grid) that will impact water supply decisions before 2031

District may choose in the future to regulate utilities and other companies on nitrogen or phosphorous discharge and strontium scale formation. Increased Water Quality currently, the St. Johns River Water Management District does not regulate JEA on mineral discharge into the waterways. The water quality and discharge regulation will increase cost for the water and wastewater systems. Nitrogen Credits. If the city of Jacksonville has an agreement with JEA to trade nitrogen credits. If the city requires JEA to transfer additional nitrogen credits in the future, JEA will have to implement alternative wastewater solutions to fulfill this requirement.

Conclusion TBD



Exhibit 7 - Being Reviewed



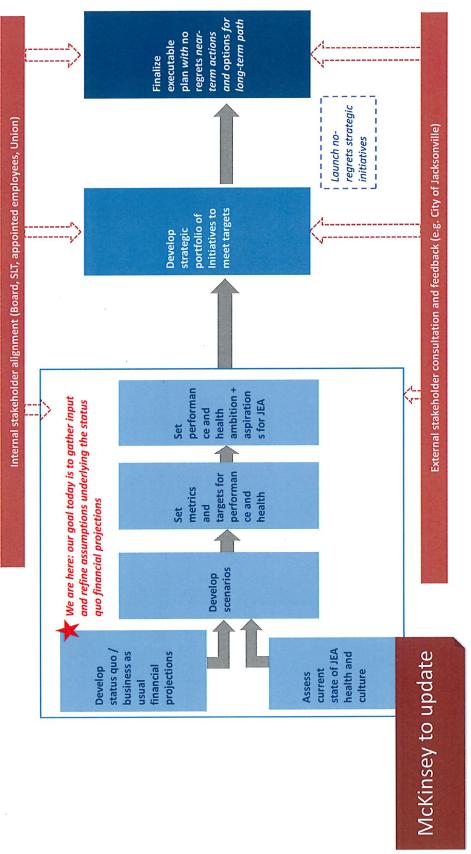
Update language, include context language, include on each slide

Disclaimer

representation of a hypothetical case for change. Actual results are likely to differ materially from this business and action. They are not a projection of future financial performance and, as such, should not be relied financial s are presented solely for JEA Board of Directors upon by present or prospective JEA bond investors to purchase or sell any security or to make an investment decision. The projections are merely a mathematical "Baseline Conversation" owing case.

Today, we will discuss JEA's first step in a broader strategy to succeed.





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Add a slide that shows JEA consolidated/trends and impacts to JEA as a whole business/top down

Add more assumptions and cost drivers, revenue, capex, opex, contribution Mention what is not included i.e. economy, deregulation, weather, natural disaster, etc. Add slide with historical forecast – McKinsey?

Executive summary

Water System

- Water/Wastewater income is forecasted to be stable through 2030 with funds available for city contribution
- Preliminary forecasts show continued growth during the period driven by new connections, though may be offset by continued trend in more efficient use per capita
- While no significant supply challenges are forecast in the short-term, JEA is taking proactive steps to address the projected shortage in the South Grid
- JEA's water business can continue to build on its stable financial health to become a distinctive leader in value to its customers, community, and environment

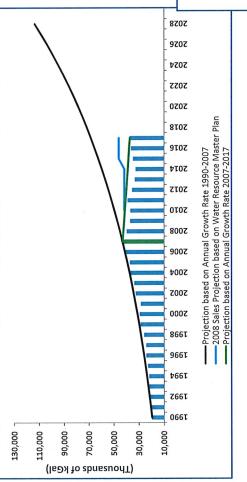
Mention regulations will have impacts on sales, cost per kgal and business performance (governor)

Energy System

- National trends in energy efficiency and distributed generation have begun to shape utility energy sales forecasts across the county
- JEA is no exception, with **declining loads over the past decade** driven by both the economic downturn and energy efficiency gains
- Looking forward to 2030, strong economic growth will not offset accelerated distributed generation and energy efficiency, leading to decreased load (7% reduction 2018-30), declining income, and a net loss after city contributions

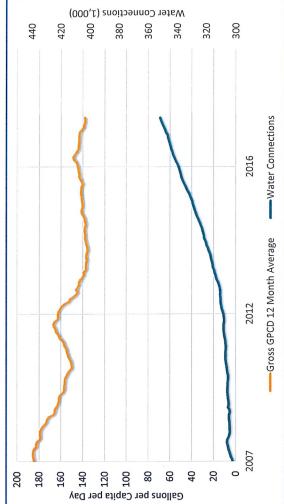




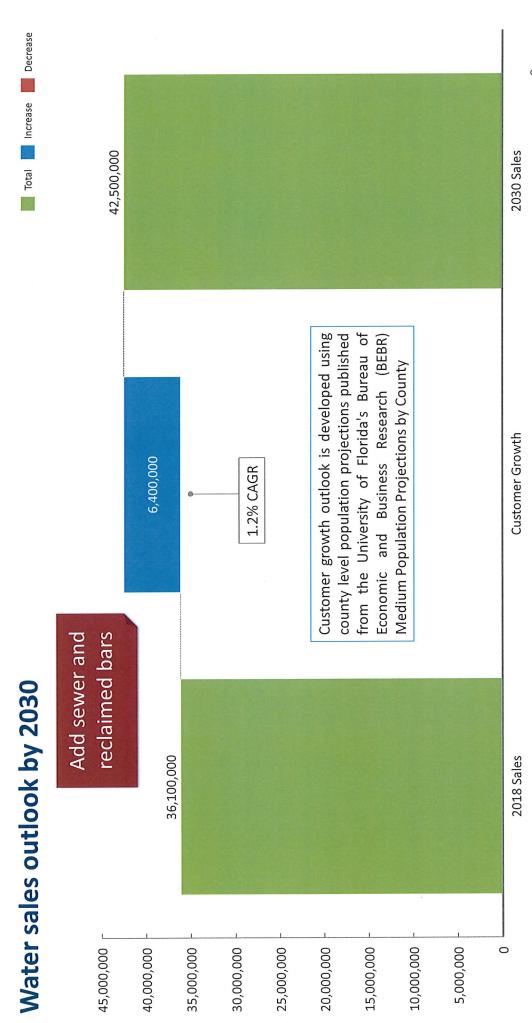


Water connection growth continues, however water efficiencies have stabilized usage per customer

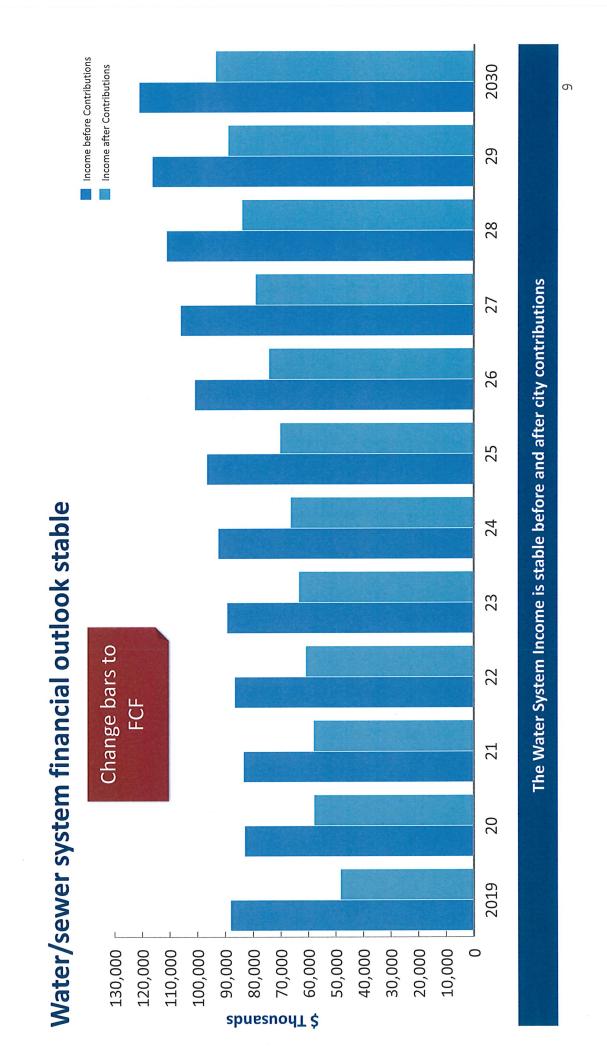




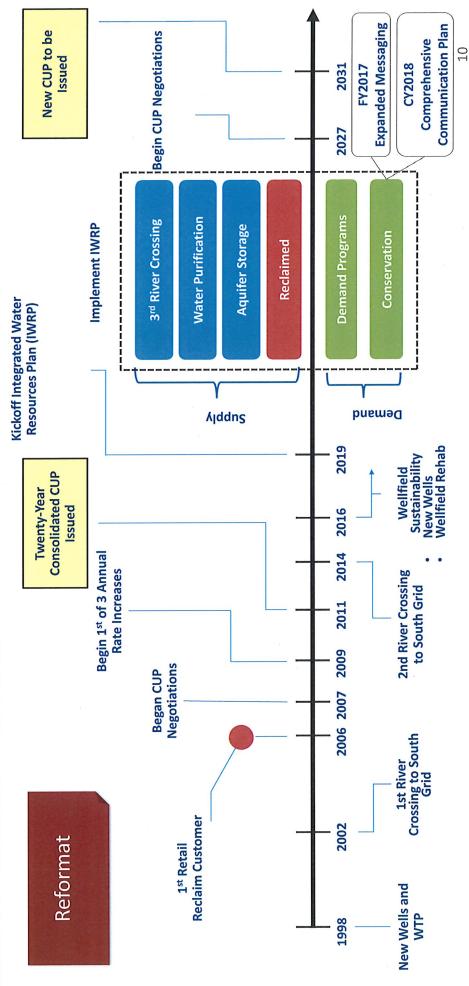
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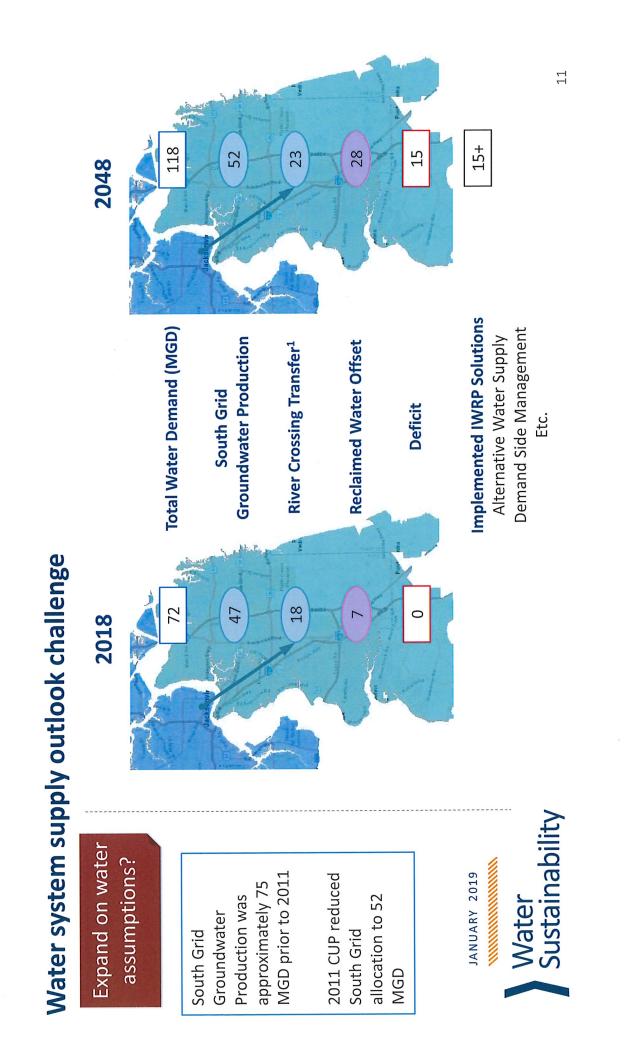


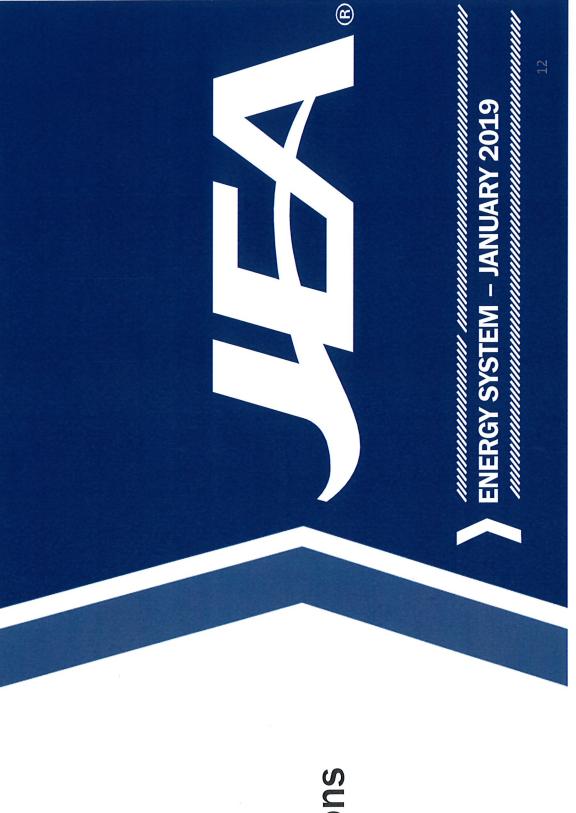
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Significant milestones achieved in the past & innovative plans for the future will ensure a sustainable resource

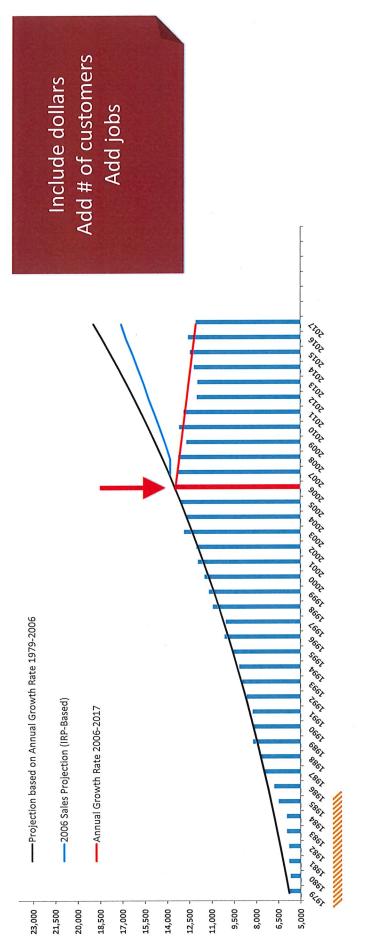






Energy System Projections





(dwM fo sbnssuodT)

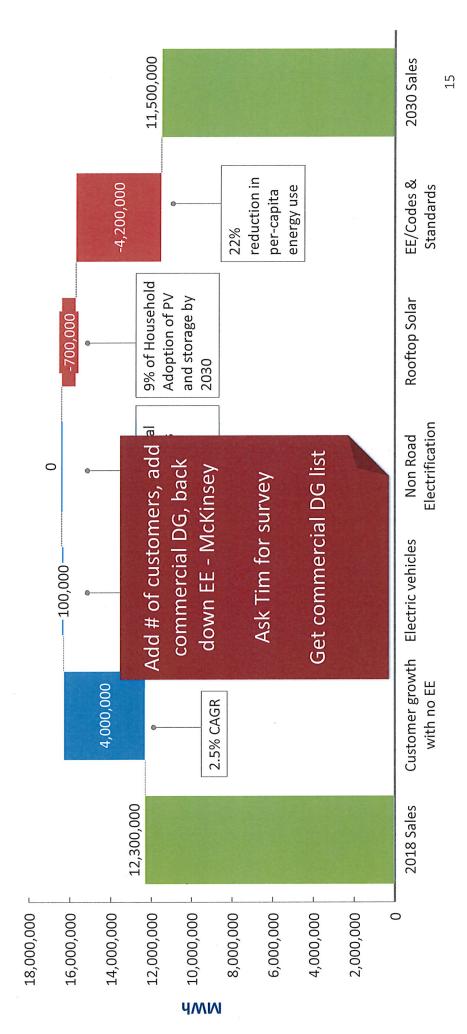
In **2006**, we forecasted to sell 17,000 GWh In 2017, and we ended FY at 12,000 GWh 30% lower sales in 2017 than forecasted back in 2006

	Natio	National trends	Assumptions used for JEA
Electric vehicles	ы ш •	EV adoption is growing steadily in the US, with 200k ${\rm EVs}^1$ on the road in 2017	 3.5% of cars on the road expected to be EV's by 2030 (30K total) driving 95k MWh
(EV)	ō 8 •	Over 2M EVs are expected on the road by 2030, constituting 7-12% of light duty vehicles	of increased energy sales
	↓ ↓ •	There are 60 GW of solar installed in the US (as of December 2018). Forecasted to grow to over 100 GW	 Solar+storage becomes cost effective in 2023 Ariving 0% of residential customers
Distributed	ם מ	by 2021	to adopt by 2030, offsetting 700k MWh of
generation (solar)	<u> </u>	Distributed solar accounts for ~40% of installed solar	energy sales
	3 Ð	residential is expected to outpace large-scale growth	
	• C	Energy efficiency has been a major driver of decreased energy sales in the past decades:	 New home tech upgrades and continuation of service territory trends drive 22%
Enerøv efficiency &		improvements since 2000 led to a 10% reduction in	reduction in residential sales per capita
new technology		uə errergy experiatures arıa ə140 errergy savırıgs per capita	
adoption	• • •	Efficiency is expected to continue to improve as key energy-saving upgrades have low penetration today (e.g. heat pump water heaters)	lllustrate impacts to \$
 "EV" includes PHEV and BEV Source: McKinsev automotive forecast SFIA FIA Edison Foundation 			

Increase Decrease

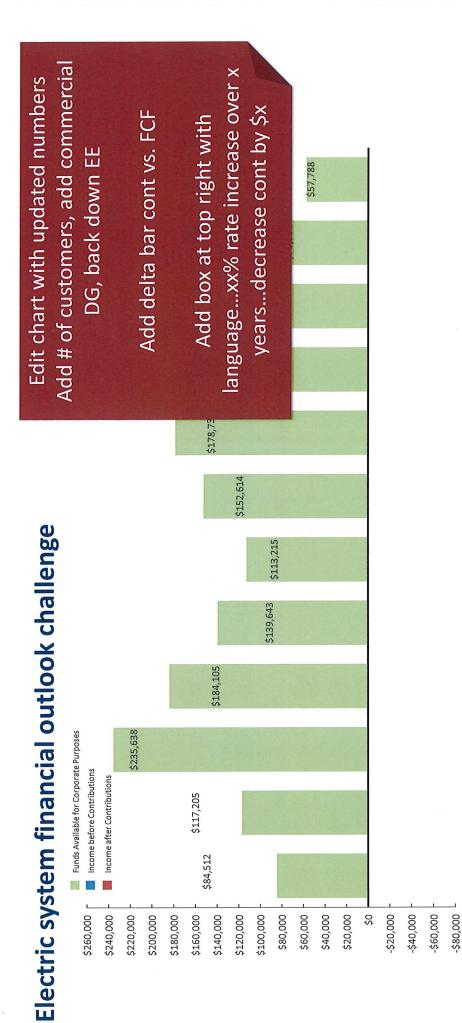
Total

Energy sales outlook by 2030 shows a potential 7% drop in sales relative to 2018



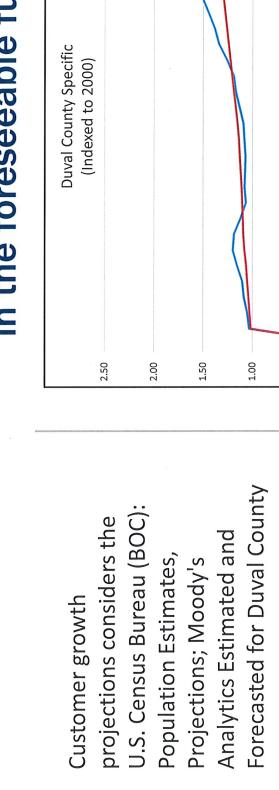
Add slide with case studies from other fixed cost busineses/Netflix/other utilities - McKinsey

Add slide with levers and what moves/rates/payback/affordability – McKinsey?



Reduced energy s While the call to	Reduced energy sales forecast drives a challenging financial outlook for JEA by 2030 <i>if JEA were to take no action</i> While the call to action is clear. JEA has several potential responses:	financial outlook for JEA by 2030 <i>ction</i> Veral potential responses:
 JEA can deploy at all strategic 		rove its financial outlook and succeed to environmental stewardship
 These respons electrification evolving the b 	Change verblage, "the time is now"etc.	business , e.g. by expanding existing of operational performance ; and enefit from DER and other trends
 These and oth effort 	Y	A moves into the full strategic planning
The opportunity at hand		13

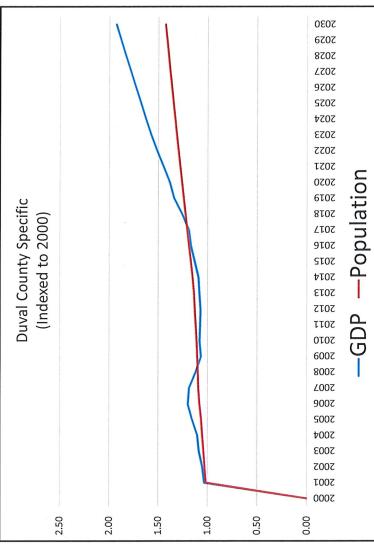




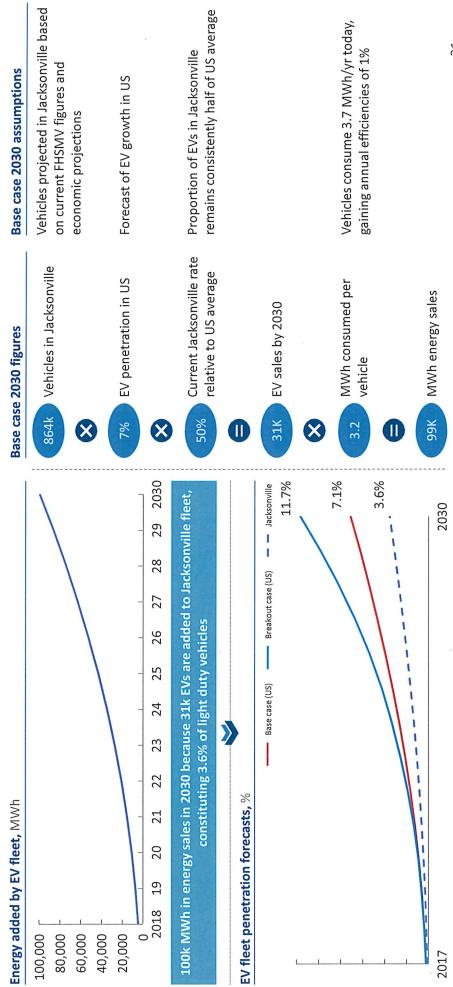
JANUARY 2019

Customer Growth

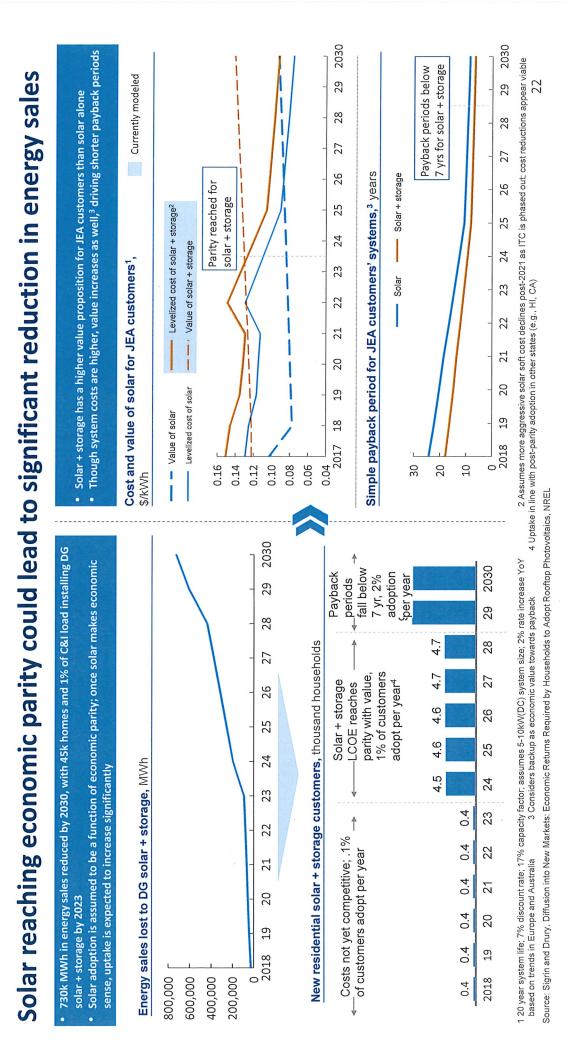
Customer growth likely to continue in the foreseeable future



30k EVs expected in in JEAs territory by 2030	0		
based on EV modeling and penetration today	Я		
Energy added by EV fleet, MWh	Base cas	Base case 2030 figures	Base case 20
100,000 [864k	864k Vehicles in Jacksonville	Vehicles pro

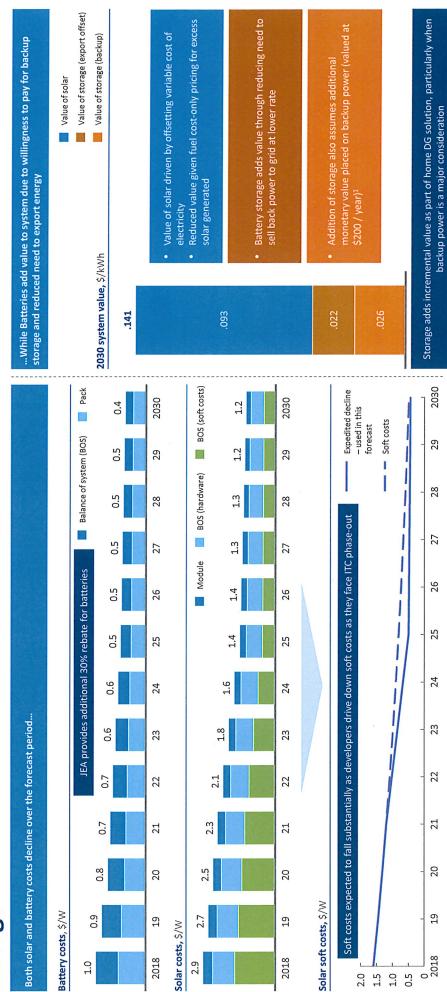


Source: Federal Reserve income per capita data; McKinsey Automotive practice TCO-based forecasting models, Florida Highway Safety and Motor Vehicles, Internal forecasts



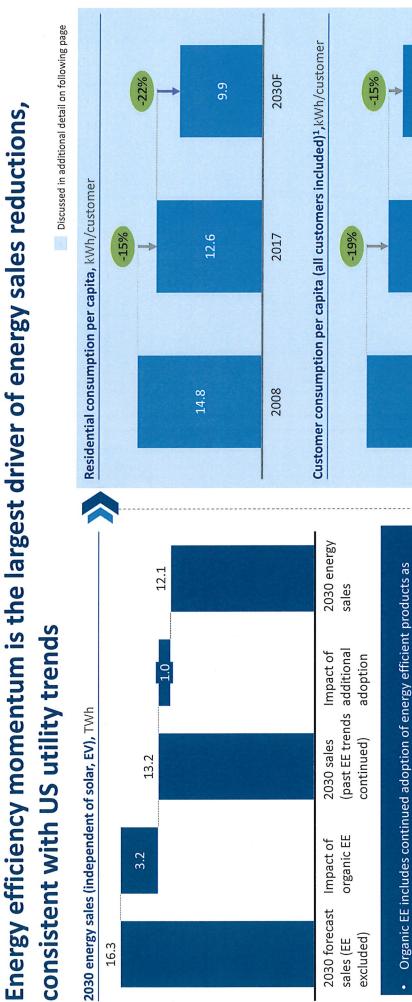
Economic parity driven by decreasing soft costs and potential added value of





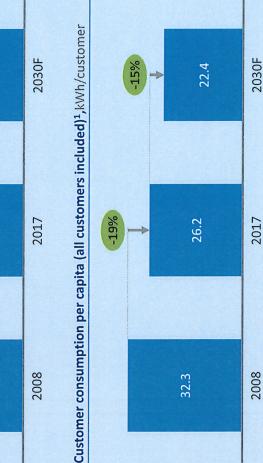
1 Battery economics assume consistent willingness to pay premium for backup power in region

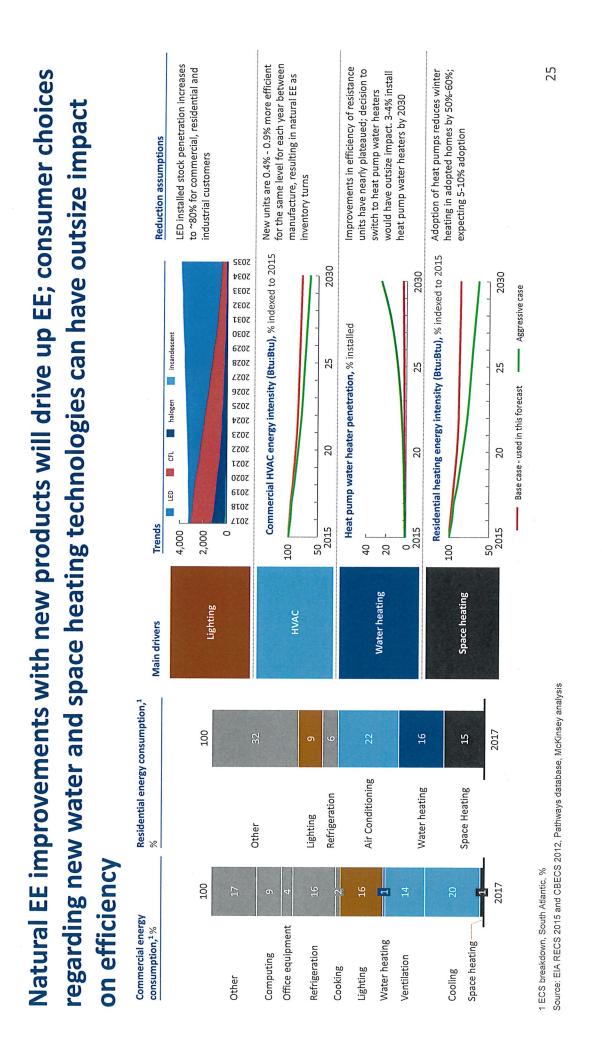
Source: McKinsey, SEIA

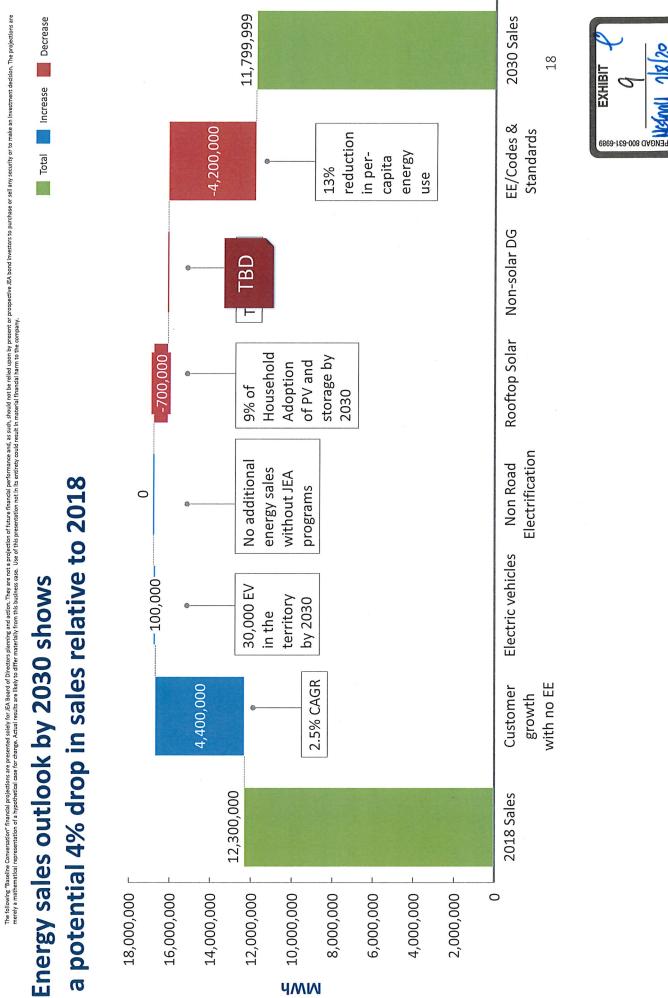


- Additional tech includes higher uptake of products and active decisions to these products become more efficient, as well as the continuation of purchase more economic solutions, e.g. heat pump water heaters general building trends, e.g. gas connections
- 1 Includes Residential, Commercial, Industrial customers; C&I customer characteristics vary significantly

Source: JEA forecast, PowerlQ



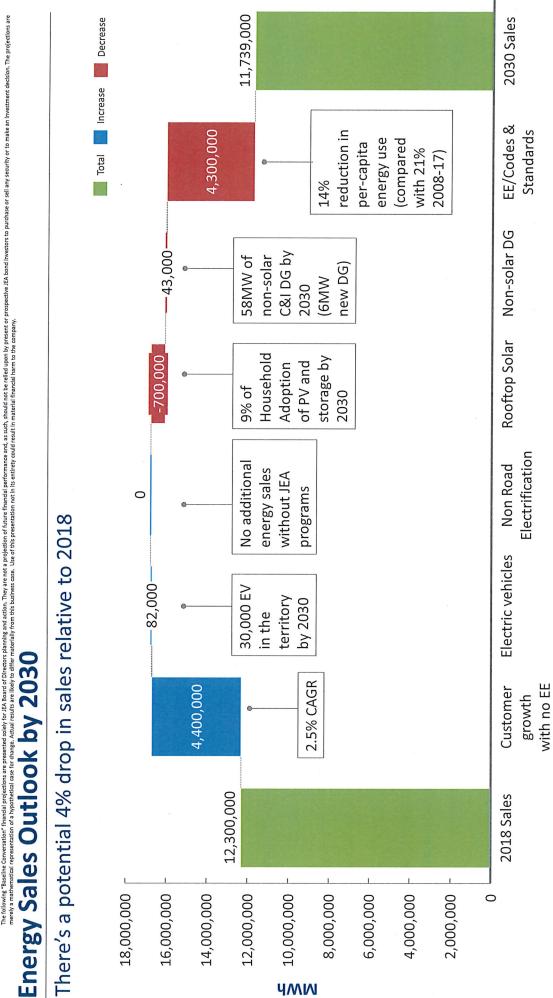




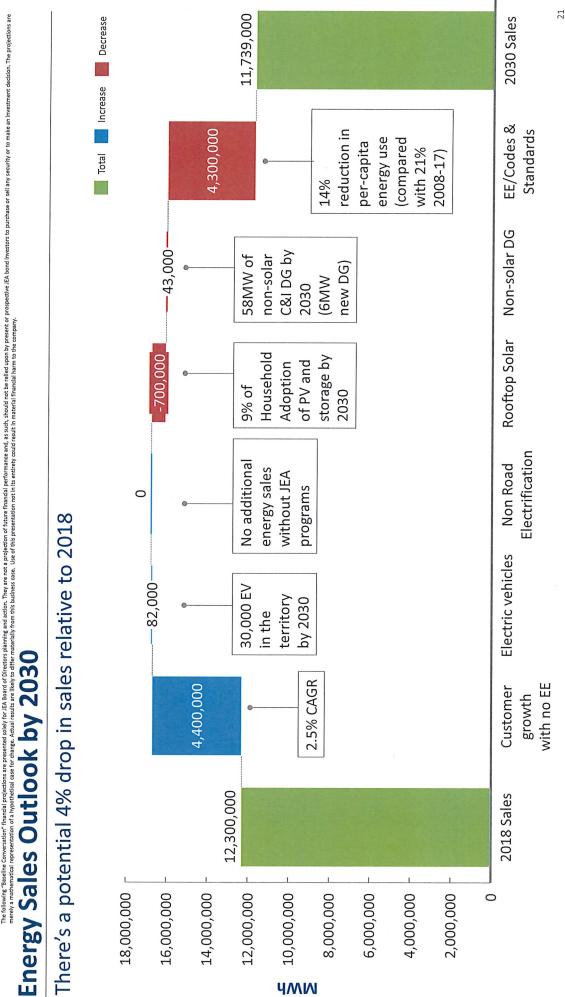
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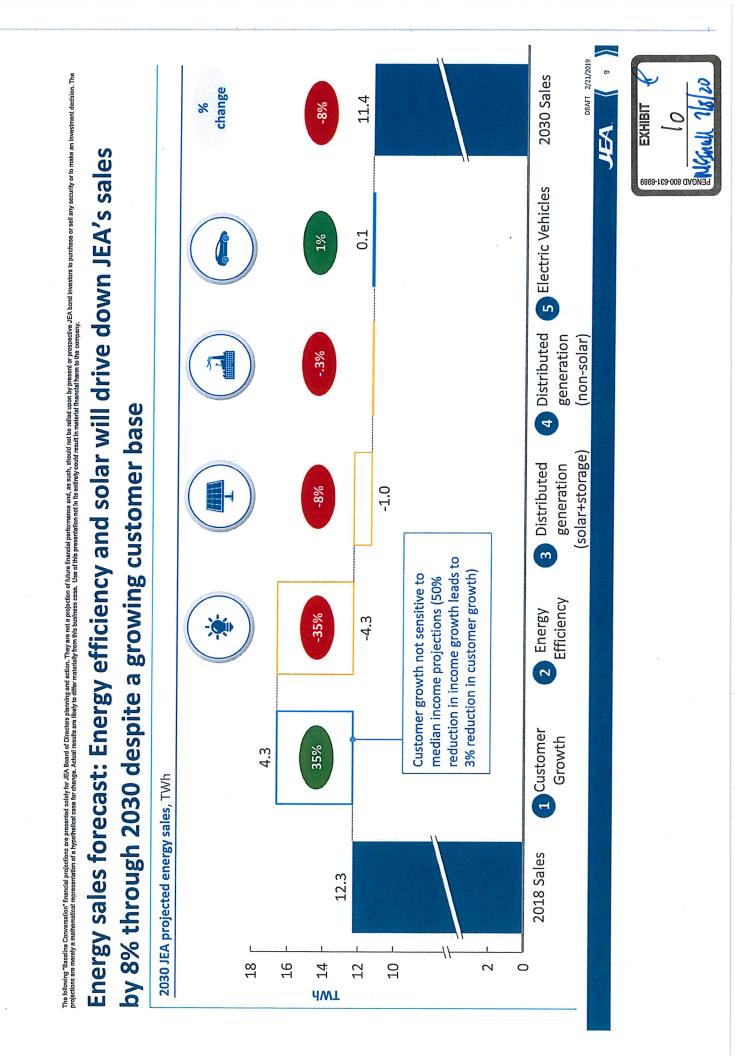
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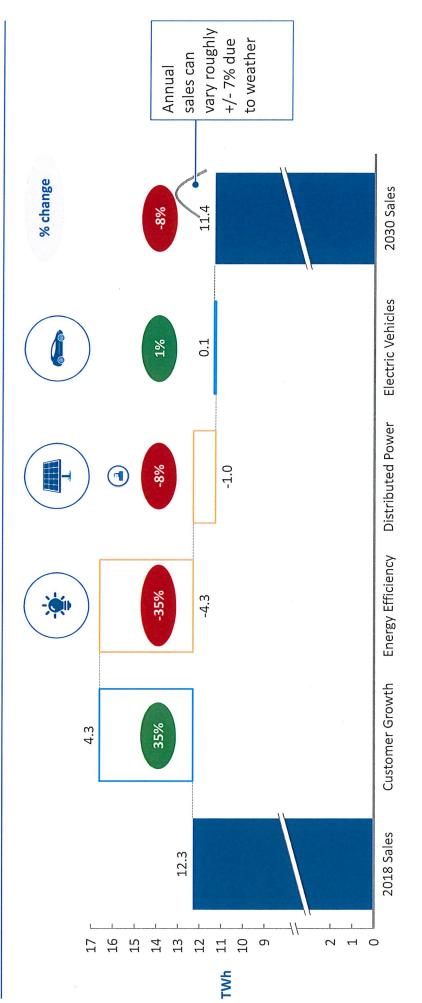
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FINANCIAL VALUE - SALES

JEA's sales expected to fall by 8+% through 2030 despite a growing customer base

2030 JEA projected energy sales, ${\sf TWh}$

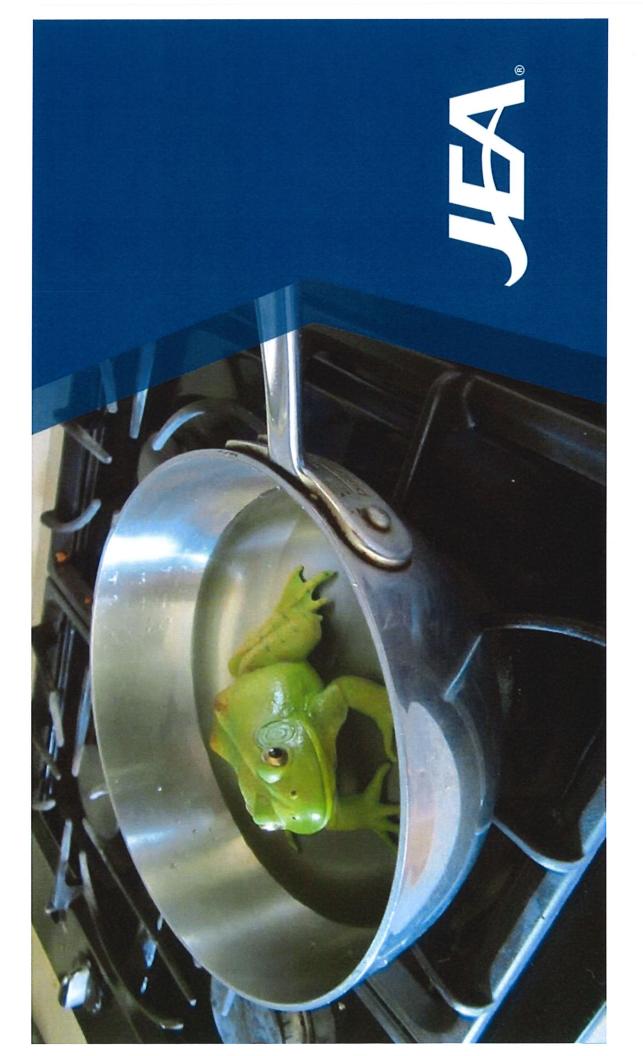


SOURCE: Moody's, JEA forecasts, EPA, GTM, 2018 Storage cost model, 2018 EV growth model

DRAFT 4/19/2019

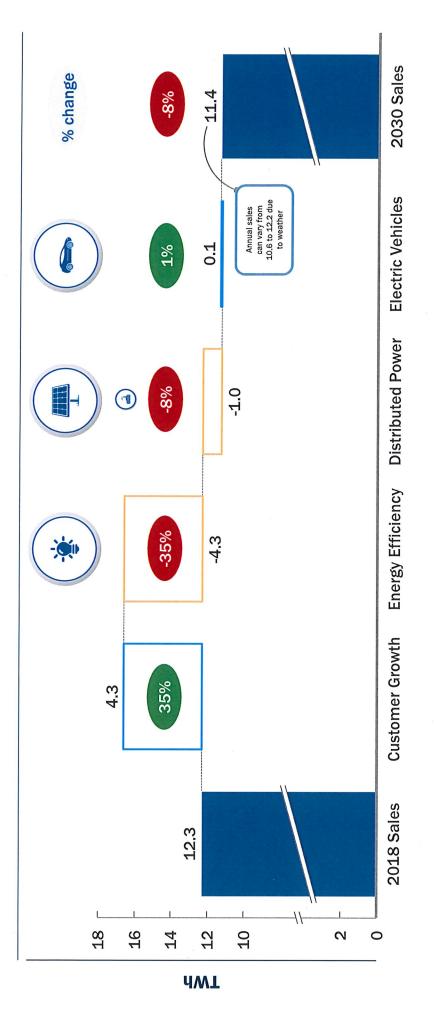
20

MEN



STATUS QUO ENERGY SALES PROJECTION

By 2030 JEA's Customers May Likely Increase 16% and Energy Sales May Likely Fall by 8%



SOURCE: Moody's, JEA forecasts, EPA, GTM, 2018 Storage cost model, 2018 EV growth model

JEA

10

Ten Year Site F	Plan Figures																				
	Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Residential	GWh sales	5,307	5,319	5,747	5,237	4,880	4,852	5,162	5,197	5,351	5,199	5,224	5,262	5,285	5,302	5,326	5,356	5,384	5,417	5,459	5,509
Residential	Avg # of customers	365,363	365,872	368,111	369,051	369,761	372,430	377,326	383,998	398,387	404,806	410,703	417,700	424,293	430,780	437,294	443,893	450,362	456,598	462,573	468,265
Residential	Growth		0.1%	0.6%	0.3%	0.2%	0.7%	1.3%	1.8%	3.7%	1.6%	1.5%	1.7%	1.6%	1.5%	1.5%	1.5%	1.5%	1.4%	1.3%	1.2%
Residential	Avg kwh / customer	15,072	14,506	14,448	15,572	14,163	13,102	12,860	13,443	13,431	12,842	12,721	12,598	12,455	12,307	12,180	12,066	11,954	11,864	11,802	11,766
Commercial	GWH sales	4,040	4,024	4,071	3,927	3,852	3,777	3,882	4,001	4,064	4,011	4,071	4,103	4,122	4,148	4,173	4,195	4,214	4,233	4,251	4,269
Commercial	Avg # of customers	44,489	45,093	45,748	46,192	46,605	47,127	47,691	49,364	51,441	51,970	52,482	53,134	53,775	54,412	55,041	55,662	56,275	56,884	57,489	58,089
Commercial	Avg kwh / customer	98,887	89,591	87,957	88,137	84,255	81,735	79,204	78,642	78,994	77,176	77,561	77,217	76,646	76,237	75,812	75,369	74,886	74,407	73,942	73,485
Industrial	GWH sales	2,948	2,643	2,720	2,682	2,598	2,589	2,564	2,579	2,457	2,532	2,612	2,653	2,679	2,700	2,723	2,743	2,760	2,772	2,783	2,793
Industrial	Avg # of customers	225	231	226	223	215	218	219	215	202	202	201	199	199	199	199	199	199	199	199	199
Industrial	Avg kwh / customer	11,671,666	12,776,809	11,692,820	12,192,004	12,468,380	11,906,357	11,812,944 1	1,951,824 1	2,159,793 1	12,510,027	12,993,687	L3,333,588 1	3,462,838 1	3,570,053 1	L3,684,532 1	3,784,130 1	.3,870,624 1	3,929,925 1	3,984,670 1	4,032,692
C&I	Avg # of customers	44,714	45,324	45,974	46,415	46,820	47,345	47,910	49,579	51,643	52,172	52,683	53,333	53,974	54,611	55,240	55,861	56,474	57,083	57,688	58,288
C&I	Growth		1.4%	1.4%	1.0%	0.9%	1.1%	1.2%	3.5%	4.2%	1.0%	1.0%	1.2%	1.2%	1.2%	1.2%	1.1%	1.1%	1.1%	1.1%	1.0%

	D	D	D	C	<u> </u>	<u> </u>							
Maan	R	R #t	R		C	C		1					
Year	Sales	# cust	Avg/cust			Avg/cust	Sales	# cust		Avg/cust			
2008					44,489	98,887				11,671,666			
2009	-	-	-	-	45,093	89,591				12,776,809			
2010		-			45,748	87,957				11,692,820			
2011		369,051			46,192	88,137				12,192,004			
2012			-	-	46,605	84,255				12,468,380			
2013	,	-		3,777	47,127	81,735				11,906,357			
2014		377,326	12,860		47,691	79,204			219	11,812,944			
2015	5,197	383,998	13,443	4,001	49,364	78,642	2,579		215	11,951,824			
2016	5,351	398,387	13,431	4,064	51,441	78,994	2,457	1	202	12,159,793			
2017	5,199	404,806	12,842	4,011	51,970	77,176	2,532	:	202	12,510,027			
2018	5,224	410,703	12,721	4,071	52,482	77,561	2,612	i	201	12,993,687			
2019	5,262	417,700	12,598	4,103	53,134	77,217	2,653	;	199	13,333,588			
2020	5,285	424,293	12,455	4,122	53,775	76,646	2,679		199	13,462,838			
2021	. 5,302	430,780	12,307	4,148	54,412	76,237	2,700	:	199	13,570,053			
2022	5,326	437,294	12,180	4,173	55,041	75,812	2,723	:	199	13,684,532			
2023	5,356	443,893	12,066	4,195	55,662	75,369	2,743		199	13,784,130			
2024	5,384	450,362	11,954	4,214	56,275	74,886	2,760	:	199	13,870,624			
2025	5,417	456,598	11,864	4,233	56,884	74,407	2,772		199	13,929,925			
2026	5,459	462,573	11,802	4,251	57,489	73,942	2,783	:	199	13,984,670			
2027	5,509	468,265	11,766	4,269	58,089	73,485	2,793		199	14,032,692			
	5.5%	14.0%	-7.5%	4.9%	10.7%	-5.3%			.0%	8.0%			
Rate hike required	2019	2020	2021	2022	2023	2024	2025	20	026	2027	2028	2029	2030
	0.0%		0.0%		0.0%	3.5%			.0%	8.0%	3.0%	1.5%	2.0%
1					1.23	1.27			.08	1.17	1.20	1.22	1.245
1		1.037		1.076	1.096	1.116			158	1.179	1.201	1.223	1.246 Solve for linear growth
-	2.010	2.557	2.007	2.070	2.000	1.110	1.107	±	200	1,1,5	1.201	1,220	The solve for inteal growth

.



From: Sent: To: Subject: Attachments: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Wednesday, December 4, 2019 6:03 PM 'Andrew Grass' FW: McKinsey Strategic Plan - Complete Doc - REVIEW 1126 2030 Strategy Document_vF.pdf

Steve McInall. P.E.

Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

From: Durham, Russell J. - Manager, Electric T&D Planning <DurhRJ@jea.com>
Sent: Wednesday, December 4, 2019 3:32 PM
To: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com>
Cc: Coarsey, John B. - Director, Electric T & D Planning <CoarJB@jea.com>; Fowler, Robert E. <FowlRE@jea.com>
Subject: FW: McKinsey Strategic Plan - Complete Doc - REVIEW

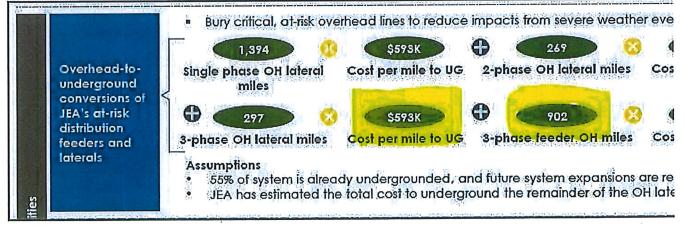
Steve,

My comments/observations. Robert had a significant comment for slide #63. The others are very minor.

Slide #11: the two bullets about EV charging seem to contradict each other at a high level. One says "Charge whenever"; the other implies "only charging when good for JEA".

Slide #12: footnote 4 shown on bottom left chart but the actual footnote is missing.

Slide #32: No reference to adjusting rate structure to encourage shifting EV charging away from peak (ties to slide #11). Slide #63: [From Robert Fowler] the numbers for this OH to UG Conversion slide came from an analysis we did in the past. Most numbers matched but some numbers are wrong. See the two pictures below: Also, real estate costs not included.





Full Overh	ead System Und			
Overhead Segment	Distance (Miles)	Cost/Mile	Total Cost	
1 Phase Lateral	1.394	\$593,074	\$826,745,156	
2-Phase Lateral	269	\$760,079	\$204,461,251	
Three-Phase Lateral	297	\$822,261	\$244,211,517	
Three-Phase Feeder	1,061	\$1,670,373	\$1,772,265,753	
Real Estate, Easements, Permits	3,021	\$26,142	\$78,974,982	
Sub-Total #1 (2017 dollars)			\$3,126,658,659	
Sub-Total #1 (PV)	in the second		\$4,200,724,453	

Slide #65: at the bottom "Source real-time data on electric current, voltage, and Var levels to drive..." [added Var data] Slide #73: Seems very optimistic.

Slide #87: "Duvall" misspelled

Slide #89 & 90: missing extra costs to add or prematurely upgrade existing transformers serving these new EV chargers and some likely reconductor work. Unfortunately I don't know those costs.

Russ Durham

Manager, Electric T&D Planning

Direct: (904) 665-7108

From: Coarsey, John B. - Director, Electric T & D Planning <<u>CoarJB@jea.com</u>> Sent: Monday, December 02, 2019 9:32 AM To: Durham, Russell J. - Manager, Electric T&D Planning <<u>DurhRJ@jea.com</u>>; Lundeen, Timothy M. - Manager System Analysis <<u>lundtm@jea.com</u>>

Subject: FW: McKinsey Strategic Plan - Complete Doc - REVIEW

John B. Coarsey, P.E. Director, Energy Planning Direct: (904) 665-6739 Fax: (904) 665-7263

From: Coarsey, John B. - Director, Electric T & D Planning Sent: Monday, December 2, 2019 8:08 AM

To: McInall, Steven G. - VP & Chief Energy & Water Planning <<u>mcinsg@jea.com</u>>; Pope, Jordan A - Dir Economic Development and Real Estate <<u>popeja@jea.com</u>>; Zammataro, Robert J. (Rob) - Dir W/WW Planning & Development <<u>zammri2@jea.com</u>>

Subject: RE: McKinsey Strategic Plan - Complete Doc - REVIEW

This entire PDF, having been for the most part crafted with no input from my team seems to be the work of inexperienced consultants and financial people. This entire report seems to be more of a wish list put together by people who have little or no understanding of the critical technical hurdles most of this involves. The logic or lack thereof of comparing of JEA with other utilities that are completely different and then drawing comparisons that by their nature are not completely accurate seems to be a recurring theme in this report. Comments below. I am forwarding to Matt and Russ to see if I am missing something.

John

John B. Coarsey, P.E.

Director, Energy Planning Direct: (904) 665-6739 Fax: (904) 665-7263

-----Original Message-----From: McInall, Steven G. - VP & Chief Energy & Water Planning <<u>mcinsg@jea.com</u>> Sent: Friday, November 29, 2019 6:24 PM To: Coarsey, John B. - Director, Electric T & D Planning <<u>CoarJB@jea.com</u>>; Pope, Jordan A - Dir Economic Development and Real Estate <<u>popeja@jea.com</u>>; Zammataro, Robert J. (Rob) - Dir W/WW Planning & Development <<u>zammri2@jea.com</u>> Subject: FW: McKinsey Strategic Plan - Complete Doc - REVIEW

Fyi. Hope you had a great Holiday

From: Eads, Shawn W. - VP & Chief Information Officer Sent: Wednesday, November 27, 2019 4:38 PM To: (Mgmt - JEA Senior Leadership Team (SLT) Cc: Aaron Bielenberg; Andrew Grass; Anton Derkach Subject: McKinsey Strategic Plan - Complete Doc - REVIEW

SLT,

McKinsey has finished their alignment of the 10 year strategic plan and have added all the details they collected and worked with you on for mid-level implementation details. It is now time for us to give these documents a deep scrubbing.

Attached is the complete document. You are more than welcome to review the document in its entirety, but we also have provided a guide below for the pages we definitely need you to dig into and make sure you understand them and can take them forward as we move into the next phases of detailed implementation planning and execution.

McKinsey will be onsite December 2-13 to work with you on any questions you have and any corrections you feel are needed. Post December 13, McKinsey will begin their Light Touch phase through March, which means they will not be onsite daily and will be available through request.

It is our time to take the lead on our plan. Please let me know where I can help you!

Name Role Pages Herschel Vinyard Chief Administrative Officer 2-43

Lynne Rhode

Chief Legal Counsel

3

2-43, 77-100, 140-147

Kerri Stewart

Chief Customer Officer

2-43, 55-57, 125-128

Jon Kendrick

CHRO

2-43, 58, 129, 150-155

Steve McInall

Energy and Water Planning

2-43, No ready way to validate numerous statements made in this portion of the work.

62-75, This part of the work compares us and makes recommendations based on other utilities such as Con-Ed. Electric Planning had virtually zero input into this. As such there are several serious flaws. One such flaw calls for conversion of 4 kV. This has been done. What is left is in politically sensitive areas that are heavily treed. The conversion OH to UG is laughable. At the end of the day most of what is suggested can be done but will likely be a t a much higher cost.

77-100, No comments

135-139, They are words but as they say the devil is in the details.

140-147, Same as above

John McCarthy

Chief Supply Chain Officer

2-43, 58-59, 132-134

Shawn Eads

CIO

2-43, 58, 77-100, 130-131, 140-147

Ted Hobson

Chief Compliance Officer

2-43

Paul Stienbrecher

Environmental Services

2-43, 69-70, 138-139

Caren Anders

Energy

2-43, 47-51, 62-68, 71-75, 77-100, 114-121, 135-137, 140-147

Sherry Hall

Chief Government Affairs Officer

2-43, 77-100, 140-147

Deryle Calhoun

Water & Wastewater Systems

2-43, 52-54, 69-70, 121-124, 138-139

Shawn W Eads Chief Disruption Officer

 From:
 "McInall, Steven G. - VP & Chief Energy & Water Planning" <mcinsg@jea.com>

 Subject:
 Forecast Reconciliation

 Sent:
 Mon, 23 Sep 2019 15:12:33 -0500

 To:
 "Sarah Brody" <Sarah_Brody@mckinsey.com>

Sarah:

I am trying to come with a comparison of the TYSP and McKinsey forecasts. Did you start with our forecast? If so, the answer is whatever tweaks McKinsey made.

Thanks,

Steve

Steve McInall. P.E. Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

EXHIBIT ENGAD 800-631-6989 18/20

From:	Sarah Brody <sarah_brody@mckinsey.com></sarah_brody@mckinsey.com>
Subject:	Re: Forecast Reconciliation
Sent:	Mon, 23 Sep 2019 15:32:53 -0500
To:	"McInall, Steven G VP & Chief Energy & Water Planning" <mcinsg@jea.com></mcinsg@jea.com>

[External Email - Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email.]

Hi Steve,

We started with the sales forecast from JEA (Melinda Fisher's group specifically within planning). I assume this is the same as what's in the TYSP. Then we made modifications for EE, EVs and DG based on joint McKinsey / JEA assumptions. EV growth for example was based partly on projected vehicle sales in the territory, again from the planning team.

Happy to walk through this in more detail where needed.

Sarah

+=

On Sep 23, 2019, at 1:14 PM, McInall, Steven G. - VP & Chief Energy & Water Planning <<u>mcinsg@jea.com</u>> wrote:

Sarah:

I am trying to come with a comparison of the TYSP and McKinsey forecasts. Did you start with our forecast? If so, the answer is whatever tweaks McKinsey made.

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Steve

Steve McInall. P.E. Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

Florida has a very broad Public Records Law. Virtually all written communications to or from State and Local Officials and employees are public records available to the public and media upon request. Any email sent to or from JEA's system may be considered a public record and subject to disclosure under Florida's Public Records Laws. Any information deemed confidential and exempt from Florida's Public Records Laws should be clearly marked. Under Florida law, e-mail addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact JEA by phone or in writing.

This email is confidential and may be privileged. If you have received it in error, please notify us immediately and then delete it. Please do not copy it, disclose its contents or use it for any purpose. From:

Sent: To: Subject: Attachments: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Tuesday, September 24, 2019 11:13 AM 'Sarah Brody' **RE:** Forecast Reconciliation Copy of FY19 Peaks and Energy Forecast - Final.xlsx

Sarah - can you highlight some of the key assumptions that went in to the modifications, and where the effect was? If you just have your broken out forecast, that would help.

We are trying to answer some of the questions about the differenes in the forecasts.

Thanks

Steve McInall. P.E.

Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

From: Sarah Brody <Sarah_Brody@mckinsey.com> Sent: Monday, September 23, 2019 4:33 PM To: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Subject: Re: Forecast Reconciliation

[External Email - Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email.]

Hi Steve,

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Sarah

On Sep 23, 2019, at 1:14 PM, McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> wrote:

Sarah:

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Thanks,

Steve

+

Steve McInall. P.E. Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

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+

This email is confidential and may be privileged. If you have received it in error, please notify us immediately and then delete it. Please do not copy it, disclose its contents or use it for any purpose.

From: Sent: To: Subject: Sarah Brody <Sarah_Brody@mckinsey.com> Tuesday, September 24, 2019 12:03 PM McInall, Steven G. - VP & Chief Energy & Water Planning RE: Forecast Reconciliation

[External Email - Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email.]

Hi Steve – it might be easier to walk you through the broken-out forecast model and we can go through the modifications. I'm in Jacksonville today and free after 2:30PM if there is a time in there that works for you.

Sarah

From: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Sent: Tuesday, September 24, 2019 11:13 AM To: Sarah Brody <Sarah_Brody@mckinsey.com> Subject: [EXT]RE: Forecast Reconciliation

Sarah – can you highlight some of the key assumptions that went in to the modifications, and where the effect was? If you just have your broken out forecast, that would help.

We are trying to answer some of the questions about the differenes in the forecasts.

Thanks

Steve McInall. P.E. Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

From: Sarah Brody <<u>Sarah Brody@mckinsey.com</u>> Sent: Monday, September 23, 2019 4:33 PM To: McInall, Steven G. - VP & Chief Energy & Water Planning <<u>mcinsg@jea.com</u>> Subject: Re: Forecast Reconciliation

[External Email - Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email.]

Hi Steve,

We started with the sales forecast from JEA (Melinda Fisher's group specifically within planning). I assume this is the same as what's in the TYSP. Then we made modifications for EE, EVs and DG based on joint McKinsey / JEA

assumptions. EV growth for example was based partly on projected vehicle sales in the territory, again from the planning team.

Happy to walk through this in more detail where needed.

Sarah

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On Sep 23, 2019, at 1:14 PM, McInall, Steven G. - VP & Chief Energy & Water Planning <<u>mcinsg@jea.com</u>> wrote:

Sarah:

I am trying to come with a comparison of the TYSP and McKinsey forecasts. Did you start with our forecast? If so, the answer is whatever tweaks McKinsey made.

Thanks,

Steve

Steve McInall. P.E.

Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

Florida has a very broad Public Records Law. Virtually all written communications to or from State and Local Officials and employees are public records available to the public and media upon request. Any email sent to or from JEA's system may be considered a public record and subject to disclosure under Florida's Public Records Laws. Any information deemed confidential and exempt from Florida's Public Records Laws should be clearly marked. Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact JEA by phone or in writing.

This email is confidential and may be privileged. If you have received it in error, please notify us immediately and then delete it. Please do not copy it, disclose its contents or use it for any purpose.

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copy it, disclose its contents or use it for any purpose.

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From: Sent: To: Subject: Attachments: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Wednesday, September 25, 2019 12:52 PM Moran, Mary L. - Mgr Electric Generation Planning; 'Sarah Brody' Forecast Review Forecast Review.docx

Sarah: Thank for meeting with me yesterday. Can you review the attached, and recommend any edits?

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Mary: Can you take a look at this, too?

Thanks

The purpose of this memo is to describe the different forecasts currently in use at JEA: the JEA developed Ten Year Site Plan (TYSP) forecast; the JEA developed Florida Energy Efficiency and Conservation Act (FEECA) forecast; and the JEA and McKinsey developed Status Quo (SQ) Forecast. Both energy (MWh) and peaks (seasonal MW) are forecast – this memo concentrates on the energy forecasts.

Ten Year Site Plan Forecast - JEA begins this forecast process by weather normalizing energy for each customer class (residential, commercial, industrial and lighting) using NOAA historical weather data.

- The residential energy forecast was developed using multiple regression analysis of weather normalized historical residential energy, Total Population, Median Household Income, Total Housing Starts from Moody's Analytics, JEA's total residential accounts and JEA's residential electric rate.
- The commercial energy forecast was developed using multiple regression analysis of weather normalized historical commercial energy, commercial inventory square footage, total commercial employment, gross product and JEA's commercial electric rate.
- The industrial energy forecast was developed using multiple regression analysis of weather normalized historical industrial energy, total industrial employment, proprietors' profit and total retail sales product for existing industrial accounts. JEA then layers in the estimated energy for new industrial customers on the forecasted industrial energy.
- The lighting energy forecast was developed using the historical actual energy, number of luminaries and JEA's estimated High Pressure Sodium (HPS) to Light-Emitting Diode (LED) street light conversion schedule.

Energy efficiency, EV and electrification forecasts are developed separately and combined with the base forecast described above. JEA's forecasted Annual Average Growth Rate (AAGR) for net energy for load (NEL) during the TYSP period is 0.57 percent.

Florida Energy Efficiency and Conservation Act Forecast – The FEECA forecast used the 2018 TYSP energy forecast. Methodology of forecast development was unchanged from 2018 to 2019, however the 2019 forecast utilizes actual 2018 results rather than forecast. The 2018 TYSP forecast an NEL of 12,586 GWh, whereas the 2019 TYSP reported a 2018 actual NEL of 12,813 GWh, a difference of approximately 2%.

Status Quo Forecast – The SQ forecast starts from the same point as the 2018 TYSP, by setting the kWh/customer the same as in 2018, and then forecasting growth based on population. From this SQ base forecast, McKinsey and JEA applied individual forecasts for energy efficiency, distributed generation (DG) growth, electrification, etc. The SQ and TYSP forecasts, not including DG and electrification, differ by about 5% (SQ is 600 MWh lower than the TYSP forecast). In addition, the SQ forecast incorporates a much more aggressive DG adoption rate, calling for 0.1% of customers/yr until 2025, 1%/yr from 2025 until 2028 (2025 being the year that Solar PV achieves parity), and 1.5%/yr after 2028 (as batteries become economical).

Summary – The TYSP and SQ forecasts are intended for different purposes. The TYSP is submitted to the Public Service Commission to demonstrate that JEA has planned adequately and has the required generation reserves to meet peak demand, plus 15 percent. The SQ forecast, by contrast, is intended to examine potential load erosion due to developing efficiency and distributed generation technologies.

The forecasts differ due to the *weather normalization* in the TYSP forecast, higher levels of *energy efficiency and DG* in the SQ forecast, and the effect of the multiple regression analysis in the TYSP compared to individual forecasts for each factor in the SQ forecast.

SGM, September 25, 2019

From: Sent: To: Subject: Moran, Mary L. - Mgr Electric Generation Planning <GuytML@jea.com> Wednesday, September 25, 2019 2:30 PM McInall, Steven G. - VP & Chief Energy & Water Planning RE: Forecast Review

Concur with TYSP and FEECA discussion. Don't think normalization comment in last section is correct IF McKinsey started with the JEA normalized forecast.

From: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Sent: Wednesday, September 25, 2019 12:52 PM To: Moran, Mary L. - Mgr Electric Generation Planning <GuytML@jea.com>; 'Sarah Brody' <Sarah_Brody@mckinsey.com> Subject: Forecast Review

Sarah: Thank for meeting with me yesterday. Can you review the attached, and recommend any edits?

Mary: Can you take a look at this, too?

Thanks

 From:
 Sarah Brody <Sarah_Brody@mckinsey.com>

 Subject:
 RE: Forecast Review

 Sent:
 Wed, 25 Sep 2019 16:22:53 -0500

 To:
 "McInall, Steven G. - VP & Chief Energy & Water Planning" <mcinsg@jea.com>, "Moran, Mary L. - Mgr Electric Generation

 Planning" <GuytML@jea.com>
 Energy sales summary status quo.xlsx

 Forecast Review.docx
 Forecast Review.docx

[External Email - Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email.]

Hi Steve – looks good. I made some direct edits and comments in the attached. I'm also attaching the summary status quo energy sales forecast by year and customer class, broken out by driver.

Sarah

From: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Sent: Wednesday, September 25, 2019 12:52 PM To: Moran, Mary L. - Mgr Electric Generation Planning <GuytML@jea.com>; Sarah Brody <Sarah_Brody@mckinsey.com> Subject: [EXT]Forecast Review

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 Starts from Moody's Analytics, JEA's total residential accounts and JEA's residential electric rate.
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Energy efficiency, EV and electrification forecasts are developed separately and combined with the base forecast described above, JEA's forecasted Annual Average Growth Rate (AAGR) for net energy for load (NEL) during the TYSP period is 0.57 percent.

Florida Energy Efficiency and Conservation Act Forecast – The FEECA forecast used the 2018 TYSP energy forecast. Methodology of forecast development was unchanged from 2018 to 2019, however the 2019 forecast utilizes actual 2018 results rather than forecast. The 2018 TYSP forecast an NEL of 12,586 GWh, whereas the 2019 TYSP reported a 2018 actual NEL of 12,813 GWh, a difference of approximately 2%.

Status Quo Forecast – The SQ forecast starts from the same point as the 2018 TYSP, by setting the kWh/customer the same as in 2018, and then forecasting growth based on population. From this SQ base forecast, McKinsey and JEA applied individual forecasts for energy efficiency, distributed generation (DG) growth, electrification, etc <u>based on projections of key drivers of each factor: for example energy-intensive</u> *appliance turnover* rates and cost of distributed generation relative to cost of oower in JEA's service territory. The SQ and TYSP forecasts, not including DG and electrification, differ by about 5% (SQ is 600 MWh lower than the TYSP forecast). In addition, the SQ forecast incorporates a much more aggressive DG adoption rate, calling for, <u>for residential customers</u> 0.1% of customers/yr until 2025, 1%/yr from 2025 until 2028 (2025 being the year that Solar PV achieves parity), and 1.5%/yr after 2028 <u>as solar financing begins to realize attractive</u> <u>returns for developers (Commercial customer adoption assumptions follow a similar logic)</u>

Summary – The TYSP and SQ forecasts are intended for different purposes. The TYSP is submitted to the Public Service Commission to demonstrate that JEA has planned adequately and has the required generation reserves to meet peak demand, plus 15 percent. The SQ forecast, by contrast, is intended to examine the potential impact to IEA's financial performance given trends market trends that will impact sales. The forecasts differ due to the weather normalization in the TYSP forecast, higher levels of energy efficiency and DG in the SQ forecast, and the effect of the multiple regression analysis of historical data in the TYSP compared to individual forward-looking forecasts for each factor in the SQ forecast.

SGM, September 25, 2019

Commented [SB1]: I would describe here that energy efficiency and electrification are based on the impact of JEAled programs, and electric vehicles are based on new vehicle sales (I believe)

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SGM, September 25, 2019

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	x Resulting sales	Net Impact	E	2	Non-solar DG Impact	Solar - CEI	Solar - Residential	Customer growth (pre-EE)	Summary forecasts of impact (MWh)
	12,300,000	•						12,300,000	2018
(73,282)	12,226,718	(537,703)	(466,983)	1,843	(3,373)	(59,677)	(9,517)	12,764,425	2019
(120,910)	12,105,808	(973,139)	(890,306)	4,463	(6,781)	(66,000)	(14,426)	13,078,947	2020
(135,747)	11,970,061	(1,515,424)	(1,421,465)	7,047	(10,222)	[72,217]	(19,408)	13,485,485	2021
(115,535)	11,854,526	(2,030,946)	(1,926,716)	12,203	(13,697)	(78,272)	(24,464)	13,885,471	2022
(73,014)	11,781,512	(2,493,730)	(2,379,999)	17,488	(17,208)	(84,416)	(29,596)	14,275,242	2023
(8,857)	11,772,655	(2,847,376)	(2,724,622)	23,753	(20,753)	(90,953)	(34,200)	14,620,031	2024
(73,669)	11,698,987	(3,253,666)	(3,029,073)	31,081	(24,334)	(97,634)	(133,706)	14,952,652	2025
285	11,699,874	(3,586,654)	(3,306,514)	39,414	(27,951)	(104,518)	(187,085)	15,206,528	2026
(100,749)	11,599,125	(4,014,166)	(3,548,265)	48,698	(31,604)	(188,567)	(294,428)	15,613,291	2027
[72,197]	11,526,929	(4,421,811)	(3,795,835)	58,901	(25,293)	(273,535)	(376,049)	15,948,739	2028
(71,989)	11,454,940	(4,820,699)	(4,033,773)	69,984	(010,019)	(359,405)	[458,486]	16,275,639	202
(72,492)	11,302,443	(5,210,398)	(4,261,666)	CC6 ⁺ T2	(42,783)	(446,134)	(541,748)	16,592,845	2030

CHARLES IN CONTRACT

Entroy/scilcs((MWh)) Residential Base (post-EE) Solar - Residential EV Total (residential) Commercial Base (post-EE) Solar - C&I (preportion) Industrial Base (post-EE) Solar - C&I (preportion) Non-solar D& impact Total (industrial) Financial model inputs 2,679,414 -2,679,414 12,297,442 4,398,346 -4,398,346 5,219,683 --5,219,683 2,679,414 --2,679,414 12,188,641 4,292,332 -4,292,332 5,216,896 --5,216,896 2,679,414 -2,679,414 12,064,020 4,175,212 -4,175,212 5,209,394 --5,209,394 4,080,287 -4,080,287 2,679,414 -2,679,414 11,958,756 5,199,055 --5,199,055 2,679,414 -2,679,414 11,895,243 4,017,118 -4,017,118 5,198,712 --5,198,712 2,679,414 --2,679,414 11,895,409 4,006,989 -4,006,989 5,209,007 --5,209,007 2,679,414 -2,679,414 11,923,580 4,012,203 -4,012,203 5,231,963 --5,231,963 4,033,763 4,033,763 2,679,414 -2,679,414 11,980,014 5,266,838 --5,266,838 4,068,138 -4,068,138 2,679,414 -2,679,414 12,065,026 5,317,474 --5,317,474 4,104,575 -4,104,575 2,679,414 -2,679,414 12,152,904 5,368,916 --5,368,916 2,679,414 --2,679,414 12,241,866 4,141,156 -4,141,156 5,421,296 --5,421,296 2,679,414 -2,679,414 12,331,179 5,474,676 --5,474,676 4,177,089 -4,177,089

From:

Sent: To: Subject: Attachments: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Thursday, September 26, 2019 8:04 AM Dykes, Melissa H. - President/COO Forecast Review rev Forecast Review rev.docx

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Edits from Sarah incorporated.

The purpose of this memo is to describe the different forecasts currently in use at JEA: the JEA developed Ten Year Site Plan (TYSP) forecast; the JEA developed Florida Energy Efficiency and Conservation Act (FEECA) forecast; and the JEA and McKinsey developed Status Quo (SQ) Forecast. Both energy (MWh) and peaks (seasonal MW) are forecast – this memo concentrates on the energy forecasts.

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Energy efficiency and electrification forecasts are based on the impact of JEA-led programs, and the electric vehicle (EV) forecast is based on new vehicle sales projections. These are developed separately and combined with the base forecast described above. JEA's forecasted Annual Average Growth Rate (AAGR) for net energy for load (NEL) during the TYSP period is 0.57 percent.

Florida Energy Efficiency and Conservation Act Forecast – The FEECA forecast used the 2018 TYSP energy forecast. Methodology of forecast development was unchanged from 2018 to 2019, however the 2019 forecast utilizes actual 2018 results rather than forecast. The 2018 TYSP forecast an NEL of 12,586 GWh, whereas the 2019 TYSP reported a 2018 actual NEL of 12,813 GWh, a difference of approximately 2%.

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Summary – The TYSP and SQ forecasts are intended for different purposes. The TYSP is submitted to the Public Service Commission to demonstrate that JEA has planned adequately and has the required generation reserves to meet peak demand, plus 15 percent. The SQ forecast, by contrast, is intended to examine the potential impact to JEA's financial performance given trends market trends that will impact sales. The forecasts differ due to the *weather normalization* in the TYSP forecast, higher levels of *energy efficiency and DG* in the SQ forecast, and the effect of the multiple regression analysis of historical data in the TYSP compared to individual forward-looking forecasts for each factor in the SQ forecast.

SGM, September 25, 2019

From: Sent:

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To: Subject: Attachments: Dykes, Melissa H. - President/COO <dykemh@jea.com> Thursday, October 3, 2019 10:58 PM McInall, Steven G. - VP & Chief Energy & Water Planning Forecast Review copy.docx Forecast Review copy.docx; ATT00001.txt

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The purpose of this memo is to describe the different forecasts currently in use at JEA: the JEA developed Ten Year Site Plan (TYSP) forecast; the JEA developed Florida Energy Efficiency and Conservation Act (FEECA) forecast; and the JEA and McKinsey developed Status Quo (SQ) Forecast. Both energy (MWh) and peaks (seasonal MW) are forecast – this memo concentrates on the energy forecasts.

Common elements

Both methodologies begin with actual sales data from FY18, the most recent full fiscal year for which we have data. Both then weather normalize and adjust the sales projections based on a number of common variables: economy, population, housing, (which other ones are common to both analyses?)

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Ten Year Site Plan Forecast 📮

In its forecast methodology, the ten year site plan utilizes a multiple regression analysis because [why?]

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Energy efficiency, EV and electrification forecasts are developed separately and combined with the base forecast described above. JEA's forecasted Annual Average Growth Rate (AAGR) for net energy for load (NEL) during the TYSP period is 0.57 percent.

For the TYSP projection, the projections of energy efficiency and distributed generation reflect historical adoption data. In other words, we do not assume improvements in technology or changes in cost curves might change adoption rates in the future. This assumption is consistent with the intent of the forecast: to conservatively project future capacity needs to ensure there is adequate generation capacity in the future. It is intentionally conservative in these assumptions, and these assumptions are the largest difference in the two forecasts.

Florida Energy Efficiency and Conservation Act Forecast – The FEECA forecast used the 2018 TYSP energy forecast. Methodology of forecast development was unchanged from 2018 to 2019, however the 2019 forecast utilizes actual 2018 results rather than forecast. The 2018 TYSP forecast an NEL of 12,586 GWh, whereas the 2019 TYSP reported a 2018 actual NEL of 12,813 GWh, a difference of approximately 2%. If this is the same forecast as the TYSP forecast delete extra section and say that at the beginning of the TYSP section to simplify

SGM, September 25, 2019

Status Quo Forecast - [Re-order so this is described first] The SQ forecast starts from the same point as the 2018 TYSP, by setting the kWh/customer the same as in 2018, and then forecasting growth based on population. From this SQ base forecast, McKinsey and JEA applied individual forecasts for energy efficiency, distributed generation (DG) growth, electrification, etc. The SQ and TYSP forecasts, not including DG and electrification, differ by about 5% in 2030 (SQ is 600 MWh lower than the TYSP forecast). In addition, the SQ forecast for energy efficient and distributed generation reflect expected continued evolution of technology and improvement in cost curves rather than a static look assuming no technology or cost improvements. This is consistent with the Intent of the forecast: to incorporate the best available information into a projection that can be used for strategic planning purposes. The SQ DG forecast is an adoption rate of 0.1% of customers/yr until 2025, <u>Increasing to 1%/yr</u> from 2025 until 2028 (2025 being the year that Solar PV achieves parity), and 1.5%/yr after 2028 (as batteries become economical), <u>which reflects this expected technology and economic</u> changes.

(what is the apples-apples comparison of methodology since that seems to drive some of the delta? Did SQ not use a regression analysis? If not, why does that make sense for that purpose?

The Bottom Line;

-____The TYSP and SQ forecasts are intended for different purposes. The TYSP is intentionally conservative to ensure adequate future generation capacity. The SQ forecast is intended to capture our best predictions for the future impact of changes in technology and cost curves that will continue to impact

the business, The forecasts differ primarily due to higher levels of *energy efficiency and DG* in the SQ forecast, and the effect of the multiple regression analysis in the TYSP compared to individual forecasts for each factor in the SQ forecast. The following page shows different sales forecasts and impact of key variables.

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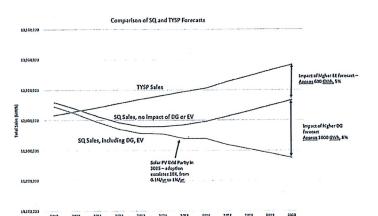
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SGM, September 25, 2019



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Sent: To: Subject: Attachments: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Thursday, October 3, 2019 2:49 PM Dykes, Melissa H. - President/COO Forecast Forecast Review.docx

Hopefully this is a little clearer.

Steve McInall. P.E. Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

The purpose of this memo is to describe the different forecasts currently in use at JEA: the JEA developed Ten Year Site Plan (TYSP) forecast; the JEA developed Florida Energy Efficiency and Conservation Act (FEECA) forecast; and the JEA and McKinsey developed Status Quo (SQ) Forecast. Both energy (MWh) and peaks (seasonal MW) are forecast – this memo concentrates on the energy forecasts.

Ten Year Site Plan Forecast - JEA begins this forecast process by weather normalizing energy for each customer class (residential, commercial, industrial and lighting) using NOAA historical weather data.

- The residential energy forecast was developed using multiple regression analysis of weather normalized historical residential energy, Total Population, Median Household Income, Total Housing Starts from Moody's Analytics, JEA's total residential accounts and JEA's residential electric rate.
- The commercial energy forecast was developed using multiple regression analysis of weather normalized historical commercial energy, commercial inventory square footage, total commercial employment, gross product and JEA's commercial electric rate.
- The industrial energy forecast was developed using multiple regression analysis of weather normalized historical industrial energy, total industrial employment, proprietors' profit and total retail sales product for existing industrial accounts. JEA then layers in the estimated energy for new industrial customers on the forecasted industrial energy.
- The lighting energy forecast was developed using the historical actual energy, number of luminaries and JEA's estimated High Pressure Sodium (HPS) to Light-Emitting Diode (LED) street light conversion schedule.

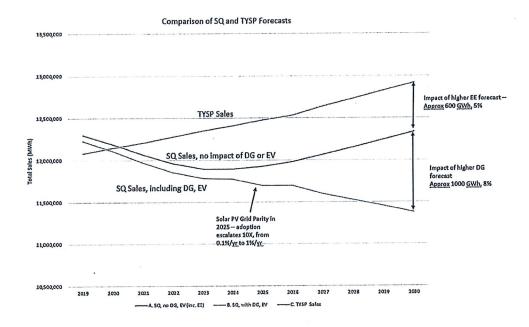
Energy efficiency, EV and electrification forecasts are developed separately and combined with the base forecast described above. JEA's forecasted Annual Average Growth Rate (AAGR) for net energy for load (NEL) during the TYSP period is 0.57 percent.

Florida Energy Efficiency and Conservation Act Forecast – The FEECA forecast used the 2018 TYSP energy forecast. Methodology of forecast development was unchanged from 2018 to 2019, however the 2019 forecast utilizes actual 2018 results rather than forecast. The 2018 TYSP forecast an NEL of 12,586 GWh, whereas the 2019 TYSP reported a 2018 actual NEL of 12,813 GWh, a difference of approximately 2%.

Status Quo Forecast – The SQ forecast starts from the same point as the 2018 TYSP, by setting the kWh/customer the same as in 2018, and then forecasting growth based on population. From this SQ base forecast, McKinsey and JEA applied individual forecasts for energy efficiency, distributed generation (DG) growth, electrification, etc. The SQ and TYSP forecasts, not including DG and electrification, differ by about 5% in 2030 (SQ is 600 MWh lower than the TYSP forecast). In addition, the SQ forecast incorporates a much more aggressive DG adoption rate, calling for 0.1% of customers/yr until 2025, 1%/yr from 2025 until 2028 (2025 being the year that Solar PV achieves parity), and 1.5%/yr after 2028 (as batteries become economical).

Summary – The TYSP and SQ forecasts are intended for different purposes. The TYSP is submitted to the Public Service Commission to demonstrate that JEA has planned adequately and has the required generation reserves to meet peak demand, plus 15 percent. The SQ forecast, by contrast, is intended to examine potential load erosion due to developing efficiency and distributed generation technologies.

The forecasts differ primarily due to higher levels of *energy efficiency and DG* in the SQ forecast, and the effect of the multiple regression analysis in the TYSP compared to individual forecasts for each factor in the SQ forecast. The following page shows different sales forecasts and impact of key variables.



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From: Sent: To: Subject: McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Thursday, October 3, 2019 4:57 PM Dykes, Melissa H. - President/COO RE: Forecast

I added a figure that should help. Tysp based on regression analysis of historical is in there.

From: Dykes, Melissa H. - President/COO Sent: Thursday, October 3, 2019 4:01 PM To: McInall, Steven G. - VP & Chief Energy & Water Planning Subject: Re: Forecast

Did you add commentary that 10ysp dg is based on history? Didn't see that in here but reading on my mobile.

On Oct 3, 2019, at 11:49 AM, McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com<mailto:mcinsg@jea.com>> wrote:

Hopefully this is a little clearer.

Steve McInall. P.E. Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

<Forecast Review.docx>

From: Sent: To: Subject:

Attachments:

McInall, Steven G. - VP & Chief Energy & Water Planning <mcinsg@jea.com> Friday, October 4, 2019 11:44 AM Moran, Mary L. - Mgr Electric Generation Planning Forecast Review copy 2 Forecast Review copy 2.docx

Mary – can you work on this? Comments in yellow are from Melissa.

Also, trying to defend the regression analysis – FPL and Duke methodology looks different. Take a peek and see if we should be adjusting our methodology.

1

The purpose of this memo is to describe the different forecasts currently in use at JEA: the JEA developed Ten Year Site Plan (TYSP) forecast; the JEA developed Florida Energy Efficiency and Conservation Act (FEECA) forecast; and the JEA and McKinsey developed Status Quo (SQ) Forecast. Both energy (MWh) and peaks (seasonal MW) are forecast – this memo concentrates on the energy forecasts.

Common elements

Both methodologies begin with actual sales data from FY18, the most recent full fiscal year for which we have data. Both then weather normalize and adjust the sales projections based on a number of common variables: economy, population, housing, [which other ones are common to both analyses?]

Status Quo Forecast

The SQ forecast starts from the same point as the 2018 TYSP, by setting the kWh/customer the same as in 2018, and then forecasting growth based on population. From this SQ base forecast, McKinsey and JEA applied individual forecasts for energy efficiency, distributed generation (DG) growth, electrification, etc. The SQ and TYSP forecasts, not including DG and electrification, differ by about 5% in 2030 (SQ is 600 MWh lower than the TYSP forecast). In addition, the SQ forecast for energy efficient and distributed generation reflect expected continued evolution of technology and improvement in cost curves rather than a static look assuming no technology or cost improvements. This is consistent with the intent of the forecast: to incorporate the best available information into a projection that can be used for strategic planning purposes. The SQ DG forecast is based on an adoption rate of 0.1% of customers/yr until 2025, increasing to 1%/yr from 2025 until 2028 (2025 being the year that Solar PV achieves parity), and 1.5%/yr after 2028 (as batteries become economical), which reflects expected technology and economic changes.

[what is the apples-apples comparison of methodology since that seems to drive some of the delta? Did SQ not use a regression analysis? If not, why does that make sense for that purpose?]

Ten Year Site Plan Forecast/Florida Energy Efficiency and Conservation Act Forecast

The FEECA forecast used the 2018 TYSP energy forecast. Methodology of forecast development was unchanged from 2018 to 2019, however the 2019 forecast utilizes actual 2018 results rather than forecast. The 2018 TYSP forecast an NEL of 12,586 GWh, whereas the 2019 TYSP reported a 2018 actual NEL of 12,813 GWh, a difference of approximately 2%.

In its forecast methodology, the ten year site plan utilizes a multiple regression analysis of historical data. This approach is conservative in that it captures the impact of all variables, whether or not the precise impact of the variable on the forecast is known. JEA begins this forecast process by weather normalizing energy for each customer class (residential, commercial, industrial and lighting) using NOAA historical weather data.

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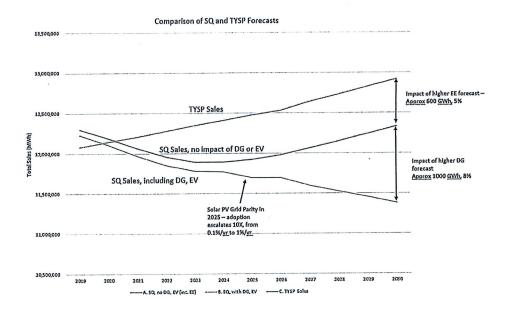
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Energy efficiency, EV and electrification forecasts are developed separately and combined with the base forecast described above. JEA's forecasted Annual Average Growth Rate (AAGR) for net energy for load (NEL) during the TYSP period is 0.57 percent.

For the TYSP projection, the projections of energy efficiency and distributed generation reflect historical adoption data. In other words, we do not assume improvements in technology or changes in cost curves might change adoption rates in the future. This assumption is consistent with the intent of the forecast: to conservatively project future capacity needs to ensure there is adequate generation capacity in the future. It is intentionally conservative in these assumptions, and these assumptions are the largest difference in the two forecasts.

The Bottom Line:

- The TYSP and SQ forecasts are intended for different purposes. The TYSP is intentionally conservative to ensure adequate future generation capacity. The SQ forecast is intended to capture our best predictions for the future impact of changes in technology and cost curves that will continue to impact the business.
- The forecasts differ primarily due to higher levels of *energy efficiency and DG* in the SQ forecast, and the effect of the multiple regression analysis in the TYSP compared to individual forecasts for each factor in the SQ forecast. The following page shows different sales forecasts and impact of key variables.



SGM, October 4, 2019

From: Sent: To: Subject: Dykes, Melissa H. - President/COO <dykemh@jea.com> Monday, October 7, 2019 9:40 PM McInall, Steven G. - VP & Chief Energy & Water Planning Fwd: Forecast Review copy.docx

1

Did you send me another version of this? Sorry if I missed it but not finding in my email.

Begin forwarded message:

From: "Dykes, Melissa H. - President/COO" <dykemh@jea.com> Date: October 3, 2019 at 10:57:52 PM EDT To: "McInall, Steven G. - VP & Chief Energy & Water Planning" <mcinsg@jea.com> Subject: Forecast Review copy.docx

Energy Forecasting

The purpose of this memo is to describe the different forecasts currently in use at JEA: the JEA developed Ten Year Site Plan (TYSP) forecast; the JEA developed Florida Energy Efficiency and Conservation Act (FEECA) forecast; and the JEA and McKinsey developed Status Quo (SQ) Forecast. Both energy (MWh) and peaks (seasonal MW) are forecast – this memo concentrates on the energy forecasts.

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In its forecast methodology, the ten year site plan utilizes a multiple regression analysis of historical data. This approach is conservative in that it captures the impact of all variables, whether or not the precise impact of the variable on the forecast is known. JEA begins this forecast process by weather normalizing energy for each customer class (residential, commercial, industrial and lighting) using NOAA historical weather data.

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SGM, October 4, 2019

Energy Forecasting

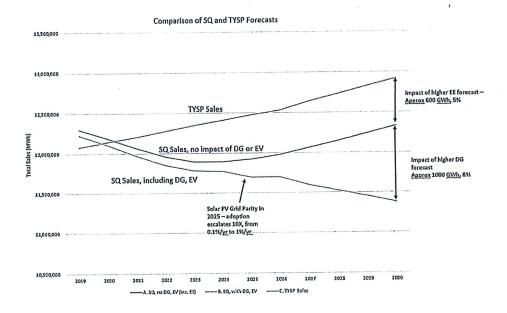
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Energy Forecasting

From:	McInall, Steven G VP & Chief Energy & Water Planning <mcinsg@jea.com></mcinsg@jea.com>
Sent:	Thursday, October 10, 2019 6:07 PM
То:	Dykes, Melissa H President/COO
Cc:	Coarsey, John B Director, Electric T & D Planning; Moran, Mary L Mgr Electric
	Generation Planning; 'Sarah Brody'
Subject:	Forecasting - Short Version
Attachments:	Forecast Review short version.docx

Melissa: Depending on the audience (i.e., non engineer/scientists), this explanation may be more straightforward.

Steve

Energy Forecasting – Short Version

The purpose of this memo is to describe the basic differences and purposes of the JEA developed forecast used in JEA's 2019 Ten Year Site Plan (TYSP) and the JEA and McKinsey developed Status Quo (SQ) Forecast.

The TYSP is primarily intended to ensure that JEA has adequate capacity to serve its peak loads (winter and summer), plus a reserve margin. The Florida Public Service Commission reviews individual and state aggregated utility TYSPs to ensure that the state as a whole has adequate generation resources. The forecast used in the TYSP and the Florida Energy Efficiency and Conservation Act (FEECA) primarily produces peak demand and is not intended to be a sales forecast, although it does include a forecast of sales.

The SQ forecast is intended to be a forecast of future utility sales, incorporating developing trends such as an accelerated adoption of solar distributed generation which is not individually accounted for in the TYSP forecast, as well as accelerated energy efficiency.

The Annual Average Growth Rate (AAGR) for net energy for load (NEL) during the TYSP period is 0.57 percent, which is barely above a flat forecast. As a result, any change in forecast methodology can change this modest rise into a declining forecast. The SQ forecast is captures the potential impacts of future technology changes (such as solar and storage achieving parity with grid power) that are not reflected in historically-based forecasts. The historically-based forecasts developed for use in the TYSP are accurate in the short-term (i.e., 1-3 years), but will not pick up large-scale changes that are not yet reflected in the energy and peak statistics for the system.

From: Sent: To: Subject: Wannemacher, Ryan F. - Chief Financial Officer <wannrf@jea.com> Thursday, August 15, 2019 3:53 PM McInall, Steven G. - VP & Chief Energy & Water Planning Fwd: Project for Strategic Planning

Get Outlook for iOS

------ Forwarded message ------From: "Quarterman, Kristina M - Manager Operating Budgets" <<u>quarkm@jea.com</u>> Date: Thu, Aug 15, 2019 at 3:06 PM -0400 Subject: FW: Project for Strategic Planning To: "Wannemacher, Ryan F. - Chief Financial Officer" <wannrf@jea.com>

FYI

From: Quarterman, Kristina M - Manager Operating Budgets
Sent: Friday, August 9, 2019 3:49 PM
To: Jones, Madricka L. - Executive Staff Assistant <joneml@jea.com>; Taylor, Brandi N. - Mgr Business Operations
<taylbn@jea.com>; Begue, Kandi R. (Randstad) <begukr@jea.com>; McDonald, Nancy M - Executive Assistant
<mcdonm@jea.com>; Stevens, Celeste A. <stevca@jea.com>; Luster, Jill R. - Executive Staff Assistant <lustjr@jea.com>
Cc: Bartley, La'Trece M. - Mgr Executive Administration <bartlm@jea.com>; Crawford, Juli E. - Director Financial Planning & Analysis <crawje@jea.com>
Subject: Project for Strategic Planning

Please utilize the following information for all recapitalization/strategic planning expenses:

Project Number: 8005764 Project Name: PA19E-OM-Strategic Planning-E Users will have to pick the ET when they create the POs/check requests.

Tasks:

003.1 – Holland & Knight – 021.50001.00000000.00.923101.2070.0000 (Pick Legal as your Expenditure Type) 003.2 – McKinsey – 021.50001.00000000.00.923101.2002.0000 (Pick Professional Fees as your Expenditure Type) 003.3 – Foley & Lardner – 021.50001.00000000.00.923101.2070.0000 (Pick Legal as your Expenditure Type) 003.4 – Morgan Stanley – 021.50001.00000000.00.923101.2002.0000 (Pick Professional Fees as your Expenditure Type) 003.5 – JP Morgan – 021.50001.00000000.00.923101.2002.0000 (Pick Professional Fees as your Expenditure Type) 003.6 – Pillsbury Winthrop Shaw Pittman LLP – 021.50001.0000000.00.923101.2070.0000 (Pick Legal as your Expenditure Type)

If any new vendors are added, we will add them as a new task and I will communicate them via email.

Thanks, Kristina 6513

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PENGAD 800-631-6989	14	
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Daniel Nunn, Jr.

From:	McInall, Steven G VP & Chief Energy & Water Planning <mcinsg@jea.com></mcinsg@jea.com>
Sent:	Thursday, March 7, 2019 10:53 AM
То:	Van Aartsen, Randall D Mgr Fuels Mgmt Services
Subject:	FW: Status Quo 2 - Please Complete Initiative Template by March 15
Attachments:	JEA initiative templates.pptx

Randy – can you look at the attached with respect to the natural gas sales? Don't send me anything. This is a what-if exercise. Try to capture where we are now.

Thanks

Steve McInall. P.E.

Vice President, Energy and Water Planning Direct: (904) 665-4309 Mobile: (904) 312-0739

From: Romero Aguero, Julio E. (Chief Inno. and Transformation Officer) <romeje@jea.com>
Sent: Wednesday, March 6, 2019 5:08 PM
To: (Mgmt - JEA Senior Leadership Team (SLT) <Mgmtslt@jea.com>
Cc: Jones, Madricka L. - Executive Assistant <joneml@jea.com>; 'Anton Derkach' <anton_derkach@mckinsey.com>; Aaron Bielenberg <Aaron_Bielenberg@mckinsey.com>; 'Sarah Brody' <Sarah_Brody@mckinsey.com>
Subject: Status Quo 2 - Please Complete Initiative Template by March 15
Importance: High

Dear colleagues,

Thanks for your time on Monday as we kicked off our work on status quo 2 – initiative development. As we discussed, over the next two weeks (through March 15) you will be working with your teams to develop initiatives to reduce costs (or generate additional revenue) within your business area.

You'll find attached a template for recording these initiatives (page 1), it includes the items and categories discussed on Monday. We ask that you fill out this template as completely and thoroughly as possible over the next 1 ½ weeks for each initiative, knowing that many details are still to be developed at this stage. Page 2 of the template is a lighter template to fill out ideas that are currently outside of JEA's current charter agreement or that involve addressing governance constraints, which we would encourage you to think about and fill in for future discussions, these ideas will be developed further in the next stage of the process. Pages 3-5 of the template provide additional guidance for initiative development: a guide to advancing initiatives through the implementation funnel (page 3) and examples of initiative templates that have been filled out (pages 4-5), for illustration purposes only. Please send your templates by March 15.

We'll be hosting optional "office hours" on next Monday March 11 (between 3 and 5 PM) and Wednesday March 13 (between 2 and 4 PM) for you to stop by to ask questions as you develop initiatives and fill in the templates. We will be



setting up individual meetings with each of you, the finance team, and any representative from your business area whom you'd like to invite, for the week of March 18, to review the initiatives you have developed and develop a path to refining these initiatives before the SLT offsite on April 4. Finally, I'll be contacting a subset of you individually shortly on additional data we'll need from your business areas so we can develop the "opportunity sizing" we discussed on Monday that will also form part of the April 4 discussion.

Please let me know if you have any questions. I'm excited to work with all of you on the next phase of our journey.

Thanks,

Julio

Julio Romero Agüero, PhD, MBA Chief Innovation and Transformation Officer JEA 21 West Church Street Jacksonville, Florida 32202-3139 Phone (904) 665-8898 Fax (904) 665-4238 Cell (919) 208-4885 Email <u>romeje@jea.com</u>



E NAME]		
Details	Stakeholder	Expected impact when fully implemented
[Brief description of initiative]	Perspective	Source of impact:
	 [Viewpoints of 	Increased revenue
	relevant directors,	(If reduced costs) What is the source of sav
[Brief explanation for why this initiative will provide financial value to JEA]	business area leads, and SMEs who have been consulted on initiativel	that apply):
Mark low / medium / high for each risk category that applies:		Is impact one-time or recurring?
🗌 Financial 🔲 Compliance 🔲 Other		Fill in boxes below in '000 (impacts are ann
[brief explanation of level of risks shown]		recurring impacts, total for one-time impac
□ Minimal effort to implement □ Significant effort to implement		Estimated total impact:
\Box Major operational change required to implement		Estimated cost to implement:
[brief explanation of level of effort]		Estimated net impact (total impact minus c
No-regrets Trade-offs Difficult (risks > rewards)		
d supporting data		
vort impact assessment, rationale for initiative]		
ce of data]		
xplanation if needed or available of steps to implementation, current status of initiative]	ve]	

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ot" for initiatives outside of JEA's current charte	charter and/or that involve addressing governance co
nitiative	What would need to change
	 Text

	9	E	112	Initiatives should be at least ILO by Marc refined if already in progress) By April 4, initiatives will be in at last IL1 13	Initiatives should be at least IL0 by March 18 (Some Initiatives merefined if already in progress) By April 4, initiatives will be in at last IL1	
ldeas —	Ideas being turned into initiatives	B Project steps starting to be planned	eps be be d prepared for approval	eing nd for I I I I I		
	Generated	Refined	Planned	Approved	Implemented	Benefit realiz
i for el	Idea generated with high level estimate of savings benefit	ldea is likely to proceed, estimate of savings is more refined	ldea analyzed for feasibility, and high- level implementation plan developed	Initiative approved and signed off by relevant parties, all milestones defined	All implementation steps completed	Run-rate savil impacting bo t
	±50%	±20%	±10%	±10%	Final	Final
iative	We think there is opportunity to save up to \$2M on filters	We spend \$10m on filters, and we think we can get 10% (\$1m)	We have checked pricing across sites and believe a 15% improvement is possible	We confirmed the applicable baseline (both volume and price) and estimate value of opportunity is \$1.4 million	We have firm price commitments from suppliers and have changed operations practice to begin buying	We are only by lower cost iter or following ny process

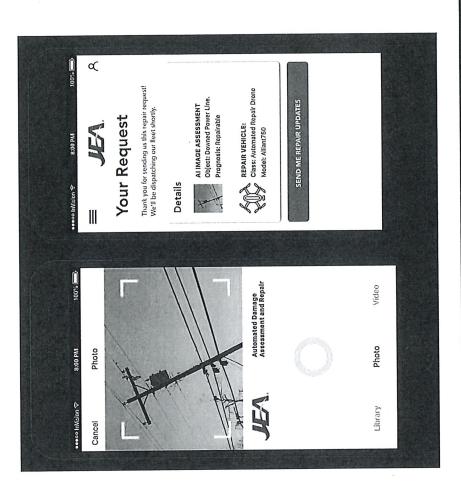
te Administrative Clerk IV position			
Details	Stakeholder	Expected impact when fully implemented	
Consolidate 1 Administrative Clerk IV position from the Production Engineering	Perspective		
department	 Leadership agrees 	Increased revenue X Reduced costs	
	these positions can	(If reduced costs) What is the source of sav	
 Position was originally developed to provide assistance on NERC and CIP 	be consolidated	that apply):	
		XIVI XIVI	
Requirements fulfilled and now load is not justified		Contracted services	
Mark low / medium / high for each risk category that applies:		Is impact one-time or recurring?	
Environmental Customer satisfaction Reliability Safety		🗌 One-time 🛛 🕅 Recurring	
🗌 Financial 🔲 Compliance 🛄 Other		Fill in boxes below in \$'000 (impacts are an	
Increased workload on department		recurring impacts, total for one-time impac	
$oxed{X}$ Minimal effort to implement $oxed{\Box}$ Significant effort to implement		Estimated total impact: 85	
\Box Major operational change required to implement		Estimated cost to implement: 0	
Requires minimal new skills or training		Estimated net impact (total impact minus c	
🛛 No-regrets 🗌 Trade-offs 🔲 Difficult			
d supporting data			
Div Mgr Production Engineering & Fuels	 Limited cleric 	Limited clerical work needed for the division as tasks for N	
	requirements	requirements have been completed	
Nigr Production Engineering	Current Supports fuels analyst	s analyst	
ental Specialist — Environmental Specialist s	state Shares some (Managers are	Shares some duties with division secretary Managers are having to seek work for the position	
Specialist Systems Specialist	+ etchiloano)	Consolidate the mosition and do not hackfill	
	Dranaced Not detrimen	Not detrimental to the workload and output of the division	
	e Da	Data source: 2015 employee database, annual benefits inclua	
	on manager interviews	rviews	

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oduction Engineering & Fuels OS spend	uels OS spend		
Details		Stakeholder	Expected impact when fully implemented
 Consolidate spend for environmental consulting service Reduce spend on ground water by conducting in house 	consulting service nducting in house	Perspective Leader A & B:	Source of impact:
 Reduce budgeted amount for fish entrainment study as a part of 31 	rainment study as a part of 316B	 Consulting: believed 	(If reduced costs) What is the source of sav
 Additional spend on environmental consulting is not necessary in today's rate environment and cu environmental affairs staffing Statistics portion of ground water testing can be done internally at lower cost than outsourcing; ex frequency of analyses needed to increase in the near future, increasing savings through insourcing Eich struct hudsered for \$407K, however, cost estimate at ≤ \$370K 	Additional spend on environmental consulting is not necessary in today's rate environment and current environmental affairs staffing Statistics portion of ground water testing can be done internally at lower cost than outsourcing; expect frequency of analyses needed to increase in the near future, increasing savings through insourcing rish study budgeted for $$407K$, however, cost estimate at $$$370K$	 to be a useful service Groundwater analysis: agrees that it can be done in 	that apply): X Internal labor X O&M Capital Contracted services Other
Mark low / medium / high for each risk category that applies:	ategory that applies: cion 🔲 Reliability 🔲 Safety	 Fish study: vendor price lower than 	Is impact one-time or recurring?
☐ Financial ☐ Compliance ☐ Other Lack of experience when conducting statistical analysis of groundwater reports	istical analysis of groundwater reports	budgeted amount and re-negotiating	Fill in boxes below in '000 (impacts are ann recurring impacts, total for one-time impac
\Box Minimal effort to implement $oxed{N}$ Significant effort to implement	gnificant effort to implement	tor lower price Leader B: Possibly use	Estimated total impact: 73
Major operational change required to implement	o implement	RMB consulting every 2	Estimated cost to implement: 15
Need to cancel contracts and develop capabilities in-house	apabilities in-house	years	Estimated net impact (total impact minus c
🛛 No-regrets 🗌 Trade-offs 🔲 Difficult	icult		
d supporting data			
י of outside services (ל '000)			
FY16 Propose	Proposed budget, FY16	Comment	
onsulting 18		 RMB environmental consulting used as needed 	ng used as needed
18 6		 Environmental Specialists ca software (\$4k) and training (Environmental Specialists can be trained on groundwater analysis with ak software (\$4k) and training (\$2k)
. 407	370	 FY16 cost estimate updated ongoing 	FY16 cost estimate updated; additional opportunity through vendor negc ongoing
443	385	Source: Department Manager and 2016 budget	16 budget

Drone Inspect & Repair App

How might JEA use new technology and digital platforms to revolutionize the workforce?



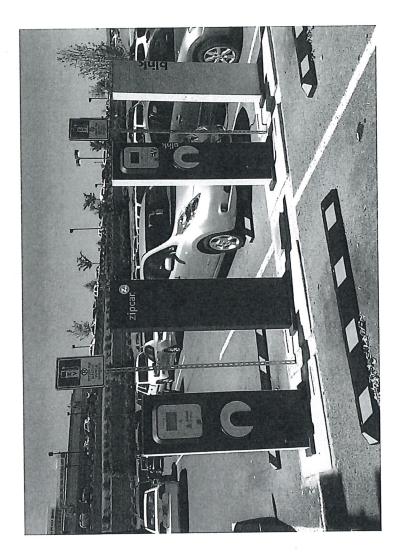
Energy Providers Comparison Website

How might third party competition for new products and services impact our relationship with customers, as well as our financial position?

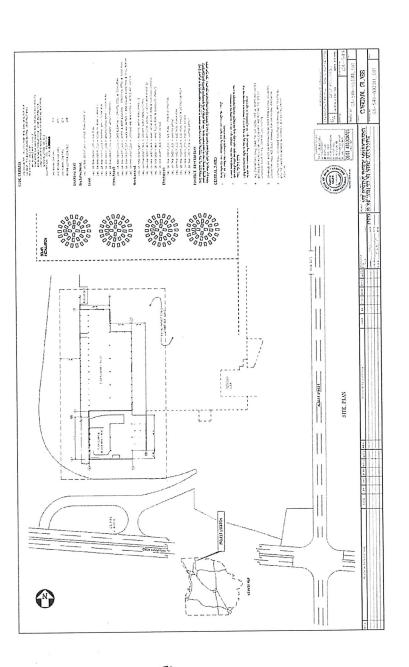
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ZipCar and JEA EV Charging Solution Partnership

How can JEA build or grow existing partnerships and take advantage of new revenue opportunities?

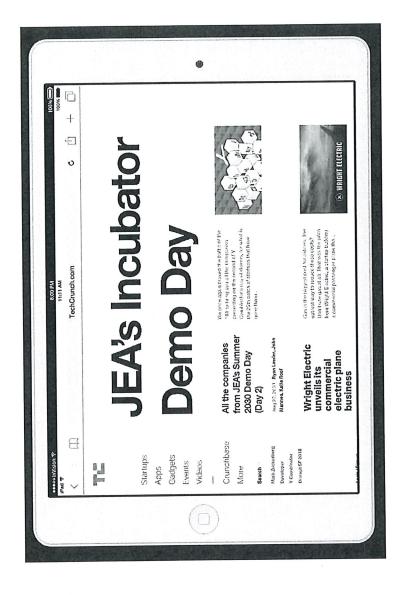


Blueprint for net positive energy manufacturing facility What would it take to drive deep decarbonization?



JEA New Tech Incubator

How can we work with start-ups to develop new water and energy solutions?

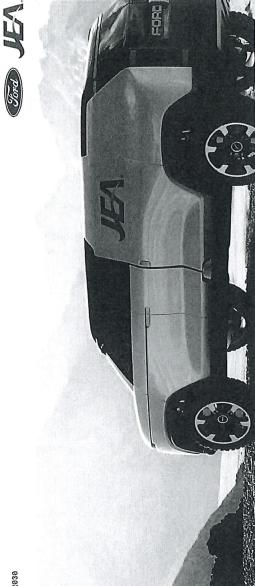


INSPIRATION

JEA and Ford Triple Play EV Solution Partnership

_2030

How can we help transportation? facilitate the future of



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> How might other infrastructure players cut into our core business?



Statement of Steven McInall – July 7, 2020

I have worked in various capacities at JEA for the past nine years. It has been my greatest professional pleasure to lead the groups that I have – Generation Planning, Fuels, Byproducts, Energy Planning, Water Planning, and Real Estate and Economic Development. The people that I worked with at JEA are among the finest I have ever known.

I am proud of all that my teams have accomplished over the years:

- Implemented solar plans that added 27 MW of utility scale solar and another 250 MW of solar currently being developed.
- Led negotiations with FPL for the closure of Scherer Unit 4 and replacement with a Power Purchase Agreement, saving JEA \$200M NPV over 20 years and cutting CO₂ emissions by 500,000 tons annually.
- Part of the team that negotiated the closure of the St Johns River Power Park. Identified and secured alternative power sources via power purchase agreement. Closure saved JEA customers \$450M NPV.
- Reduced CO₂ emissions by over 40 percent.
- Launched a company-wide innovation forum, "Watts Up?," to share initiatives across business lines.
- Investigated the integration of battery Virtual Power Plants, Reciprocating Internal Combustion Engines (RICE) and utility-scale battery storage as methods to aid the increase in solar energy on the grid.
- Started the redevelopment planning of the former SJRPP, so that JEA and the City can benefit from this valuable resource
- Planned for large scale purified water system on JEA's south grid, to offset future Consumptive Use Permit challenges.
- Prepared fuel hedging strategies to reduce fuel cost risk, as part of a \$400M annual fuel budget.
- Developed and implemented Distributed Generation and Battery Incentive programs.

Through all this I have always acted ethically, impartially, fairly and honestly.

My greatest accomplishment at JEA was assembling the highly qualified team of individuals who worked for me, and without whom I could not have accomplished anything. I wish them and all my former colleagues all the best in the future.

