From: Sarah Brody <Sarah\_Brody@mckinsey.com>

**Sent:** Tuesday, January 1, 2019 10:16 AM

To: Blackshear, Victor L. - Manager Financial Planning & Rates

Cc: Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates; Davis, Eric M. - Financial

Analyst Senior Financial Planning & Rates

**Subject:** RE: CALL - Follow-up on demand forecast discussion

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

Hi Victor,

Hope you had a good holiday break, and happy new year.

See attached for the powerpoint file of the updated presentation we sent on Dec 20. Happy to discuss on Weds or Thurs this week in preparation for your meeting with Ryan on Friday.

Thanks, Sarah

**Sent:** Monday, December 31, 2018 2:11 PM **To:** Sarah Brody <Sarah Brody@mckinsey.com>

Cc: Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates <schlsn@jea.com>; Davis, Eric M. - Financial Analyst

Senior Financial Planning & Rates <daviem@jea.com>

Subject: [EXT]RE: CALL - Follow-up on demand forecast discussion

#### Hi Sarah,

If you have time today, will you send us your presentation in power point format? I need to start preparing a rough draft of the presentation today and want to incorporate many of those slides.

Thank you.

### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

**From:** Sarah Brody < <u>Sarah Brody@mckinsey.com</u>>

**Sent:** Friday, December 21, 2018 10:13 AM

To: Blackshear, Victor L. - Manager Financial Planning & Rates <br/> <br/> Rates <br/> <br/> Karon Bielenberg

<a href="mailto:Aaron\_Bielenberg@mckinsey.com">Aaron\_Bielenberg@mckinsey.com</a>; Crawford, Juli E. - Director Financial Planning & Analysis < crawfe@jea.com</a>; Mike

Barg < Mike Barg@mckinsey.com>

**Cc:** Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates < <a href="mailto:schlsn@jea.com">schlsn@jea.com</a>; Davis, Eric M. - Financial Analyst Senior Financial Planning & Rates < <a href="mailto:daviem@jea.com">daviem@jea.com</a>; Jesse Noffsinger < <a href="mailto:jesse\_noffsinger@mckinsey.com">jesse\_noffsinger@mckinsey.com</a>>

Subject: RE: CALL - Follow-up on demand forecast discussion

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

Thanks all for the call this morning. I'm sending across a version of the document with the minor updates we discussed, and will put some time on the calendar for today at 2:30 EST in case needed. Victor and team, just let us know if the time will be helpful.

Sarah

From: Sarah Brody

Sent: Thursday, December 20, 2018 5:12 PM

To: 'Blackshear, Victor L. - Manager Financial Planning & Rates' < blacvl@jea.com>; Aaron Bielenberg

< <u>Aaron\_Bielenberg@mckinsey.com</u> >; Crawford, Juli E. - Director Financial Planning & Analysis < <u>crawje@jea.com</u> >; Mike

Barg < Mike Barg@mckinsey.com >

**Cc:** Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates < <a href="mailto:schlsn@jea.com">schlsn@jea.com</a>; Davis, Eric M. - Financial Analyst

Senior Financial Planning & Rates <daviem@jea.com>; Jesse Noffsinger <jesse noffsinger@mckinsey.com>

Subject: RE: CALL - Follow-up on demand forecast discussion

All,

Please see attached for the document we'll plan to walk through tomorrow. Looking forward to the discussion.

Sarah

----Original Appointment----

From: Sarah Brody

Sent: Wednesday, December 19, 2018 8:54 PM

To: Sarah Brody; Blackshear, Victor L. - Manager Financial Planning & Rates; Aaron Bielenberg; Crawford, Juli E. -

Director Financial Planning & Analysis; Mike Barg

Cc: Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates; Davis, Eric M. - Financial Analyst Senior Financial

Planning & Rates; Jesse Noffsinger

**Subject:** CALL - Follow-up on demand forecast discussion

When: Friday, December 21, 2018 9:00 AM-10:00 AM (UTC-05:00) Eastern Time (US & Canada).

Where: US +1-212-798-0808,,66592318#

From: Blackshear, Victor L. - Manager Financial Planning & Rates < blacklesed | blackshear | bla

Sent: Wednesday, December 19, 2018 2:42 PM

**To:** Aaron Bielenberg < <u>Aaron Bielenberg@mckinsey.com</u>>; Crawford, Juli E. - Director Financial Planning & Analysis < <u>crawje@jea.com</u>>

**Cc:** Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates < <a href="mailto:schlossman">schlossman, Scott N. - Financial Analyst Senior Financial Planning & Rates < daviem@jea.com</a>; Sarah Brody@mckinsey.com</a>; Davis, Eric M. - Financial Analyst Senior Financial Planning & Rates < <a href="mailto:daviem@jea.com">daviem@jea.com</a>; Jesse Noffsinger < <a href="mailto:jesse\_noffsinger@mckinsey.com">jesse\_noffsinger@mckinsey.com</a>>

**Subject:** [EXT]Re: Fwd: Following up on our discussion last week

Aaron,

Juli's 9am must have just cancelled, because she just accepted my 9am-10am request.

Juli,

Please confirm that you will be available to meet at 9am Friday.

Thanks.

From: Aaron Bielenberg < Aaron\_Bielenberg@mckinsey.com>

Sent: Wednesday, December 19, 2018 8:59 AM

**To:** Blackshear, Victor L. - Manager Financial Planning & Rates < blackshear, Victor Sarah Brody

<Sarah Brody@mckinsey.com>

**Cc:** Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates < < schlsn@jea.com >; Davis, Eric M. - Financial Analyst

Senior Financial Planning & Rates < daviem@jea.com >; Jesse Noffsinger < jesse noffsinger@mckinsey.com >

Subject: Re: Fwd: Following up on our discussion last week

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

Victor,

For Friday, any other times between 11-2 available? We can probably do 2- 2:45 but will confirm.

Best,

Aaron

Aaron Bielenberg | McKinsey & Company | <u>1200 19th Street, NW, Washington, DC 20036</u> | US Mob: <u>+1 202 820</u> 2237 | aaron.bielenberg@mckinsey.com

Sent: Wednesday, December 19, 2018 8:02 AM

To: Sarah Brody <<u>Sarah Brody@mckinsey.com</u>>; Aaron Bielenberg <<u>Aaron Bielenberg@mckinsey.com</u>>

Cc: Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates < schlsn@jea.com >; Davis, Eric M. - Financial Analyst

Senior Financial Planning & Rates < <a href="mailto:daviem@jea.com">daviem@jea.com</a>; Jesse Noffsinger < <a href="mailto:jesse\_noffsinger@mckinsey.com">jesse\_noffsinger@mckinsey.com</a>>

**Subject:** [EXT]Re: Fwd: Following up on our discussion last week

Good morning

#### Aaron,

Juli is not available from 9-10am Friday, but My team and I can be available. However, it appears she's available at 2pm.

### Sarah,

I'm going to reach out to our Resource Planning Group today for your inquiries. Hopefully I can get an ample response today.

Thanks,

#### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

From: Sarah Brody < Sarah Brody@mckinsey.com > Sent: Tuesday, December 18, 2018 11:26 AM

**To:** Aaron Bielenberg < <u>Aaron Bielenberg@mckinsey.com</u>>; Blackshear, Victor L. - Manager Financial Planning & Rates < blackl@jea.com>

**Cc:** Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates < < schlsn@jea.com >; Davis, Eric M. - Financial Analyst Senior Financial Planning & Rates < daviem@jea.com >; Jesse Noffsinger < jesse noffsinger@mckinsey.com >

Subject: Re: Fwd: Following up on our discussion last week

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Victor and team,

Great to meet you all yesterday. Following up on Aaron's note below, we have a few questions to help us tailor the forecasting work we do to your existing demand forecast and service territory. Feel free to respond via email or we can set up a quick call:

- + Customer growth: can you outline the sources used to forecast base customer growth (1,281K MWh by 2030) and the assumptions used to forecast based on population and economic growth? Specifically, is customer growth linear with population and based on historical correlations, or do economic drivers factor into the forecast as well?
- + Off-road electrification and energy efficiency programs: our understanding is that these demand drivers are based on JEA-specific programs currently in place. Can you let us know if this is correct and if so, provide any available details on the programs that drive these forecasts (I looked through the site plan but only saw a DSM forecast that looked to be fairly constant)

- + Codes and standards: Is this demand driver based on specific new building codes coming online, or a general assumption for energy efficiency driven by stricter building standards?
- + Customer demographics: Could provide any information on the breakdown of JEA's C&I customer base, e.g. industry sectors, size of customer?

As Aaron mentioned, in our discussion on Friday we'll provide our perspective on drivers of a base case demand forecast for JEA. We can also discuss how we might think about modeling financial impacts.

Best, Sarah

Sarah R. Brody, Ph.D McKinsey & Company

Email: Sarah Brody@mckinsey.com | Mobile: +1-202-247-1448

From: Aaron Bielenberg

Sent: Monday, December 17, 2018 9:45 PM

Cc: Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates <schlsn@jea.com>; Davis, Eric M. - Financial Analyst Senior Financial Planning & Rates <daviem@jea.com>; Sarah Brody <Sarah Brody@mckinsey.com>; Jesse Noffsinger <jesse noffsinger@mckinsey.com>

Subject: RE: Re: Fwd: Following up on our discussion last week

Victor,

Thank you for the site plan. Very helpful.

It was very good to meet you and the team today and looking forward to doing some very exciting work together. We will send over some questions tomorrow which will help with some of our analysis and plan to send over some materials Thursday to discuss Friday.

Can we block 9-10am Friday for a call?

Best,

Aaron

Aaron Bielenberg | McKinsey & Company | 1200 19th Street, NW, Washington, DC 20036 | US Mob: +1 202 820 2237 | aaron.bielenberg@mckinsey.com

From: Blackshear, Victor L. - Manager Financial Planning & Rates < blacklesed | Planning & Rates | Planning & Planning & Rates | Planning & Pla

Sent: Monday, December 17, 2018 6:17 PM

To: Aaron Bielenberg < Aaron Bielenberg@mckinsey.com >

Cc: Schlossman, Scott N. - Financial Analyst Sr. Planning & Rates <schlsn@jea.com>; Davis, Eric M. - Financial Analyst Senior Financial Planning & Rates <daviem@jea.com>

**Subject:** [EXT]Re: Fwd: Following up on our discussion last week

### Aaron,

I think we are off to a good start. To help establish a baseline, I've attached the 2018 ten year site plan as well as our Resource Planning Sales forecast (See first tab Columns B-K).

My hope, after our collaboration efforts, is for this model to produce not only a waterfall, but revenue and cost curve graphs, too. To goal is give our senior management team enough visuals to see how their assumptions impact the financial trajectory of the business and customers. If you have model examples or questions, please don't hesitate to contact us before our Friday call.

Thanks.

### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

From: Aaron Bielenberg < Aaron Bielenberg@mckinsey.com >

Sent: Monday, December 17, 2018 12:53 PM

To: Blackshear, Victor L. - Manager Financial Planning & Rates < blackle jea.com >

Subject: Re: Re: Fwd: Following up on our discussion last week

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

Victor,
Looking forward to meeting.
Do you have a video conference connection for our 2:30 meeting?
We can also maybe connect our computer to a screen.
Thanks
Aaron

Aaron Bielenberg | McKinsey & Company | <u>1200 19th Street, NW, Washington, DC 20036</u> | US Mob: <u>+1 202 820 2237</u> | <u>aaron.bielenberg@mckinsey.com</u>

On Dec 14, 2018, at 2:08 PM, Blackshear, Victor L. - Manager Financial Planning & Rates < blackleighea.com > wrote:

I look forward to meeting the team on Monday, and I'll just keep our entire Friday morning blocked just in case. Also, will you all be here via webinar or in person?

Thanks,

### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

From: Aaron Bielenberg < Aaron\_Bielenberg@mckinsey.com>

Sent: Friday, December 14, 2018 12:36 PM

**To:** Blackshear, Victor L. - Manager Financial Planning & Rates < blacvl@jea.com > **Cc:** Crawford, Juli E. - Director Financial Planning & Analysis < crawje@jea.com >

Subject: Re: Fwd: Following up on our discussion last week

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I think we may only need Monday and then we can schedule a follow up for Friday morning, hold 1 hour maybe late morning?

Aaron Bielenberg | McKinsey & Company | <u>1200 19th Street, NW, Washington, DC 20036</u> | US Mob: <u>+1 202 820 2237 | aaron.bielenberg@mckinsey.com</u>

Sent: Friday, December 14, 2018 12:30 PM

**To:** Aaron Bielenberg < <u>Aaron\_Bielenberg@mckinsey.com</u>>

Cc: Crawford, Juli E. - Director Financial Planning & Analysis < crawje@jea.com >

Subject: [EXT]Re: Fwd: Following up on our discussion last week

Excellent. Just to confirm, is the plan to do both Monday 12/17 2:30pm-4:30pm and Wednesday 12/19 9-10:30am?

### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

From: Aaron Bielenberg < Aaron Bielenberg@mckinsey.com >

Sent: Friday, December 14, 2018 10:45 AM

**To:** Blackshear, Victor L. - Manager Financial Planning & Rates < blackl@jea.com > **Cc:** Crawford, Juli E. - Director Financial Planning & Analysis < crawje@jea.com >

Subject: Re: Re: Fwd: Following up on our discussion last week

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

Great. Let's hold Monday, looks like we can do that almost for sure. Thanks

Aaron Bielenberg | McKinsey & Company | <u>1200 19th Street, NW, Washington, DC 20036</u> | US Mob: <u>+1 202 820 2237 | aaron.bielenberg@mckinsey.com</u>

On Dec 14, 2018, at 9:06 AM, Blackshear, Victor L. - Manager Financial Planning & Rates < blackle jea.com > wrote:

FYI...I've confirmed that Juli's calendar has freed up for the afternoon of Monday 12/17 2:30pm-4:30pm. I hope this helps.

#### Thanks.

From: Blackshear, Victor L. - Manager Financial Planning & Rates

Sent: Friday, December 14, 2018 8:20 AM

To: 'Aaron Bielenberg' < Aaron Bielenberg@mckinsey.com>

Cc: Crawford, Juli E. - Director Financial Planning & Analysis < crawje@jea.com >

Subject: RE: Re: Fwd: Following up on our discussion last week

#### Aaron,

12/19 9-10:30am is still available. 2-3 is not. My apologies, I crossed up the dates of 2pm slots. 12/20 2-3:30pm and all day 12/21 is still available and I need to check with Juli, but I think there's a 1 hour open the afternoon of 12/17.

### Thanks,

### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

From: Aaron Bielenberg < Aaron Bielenberg@mckinsey.com >

Sent: Friday, December 14, 2018 6:42 AM

**To:** Blackshear, Victor L. - Manager Financial Planning & Rates < blacvl@jea.com > **Cc:** Crawford, Juli E. - Director Financial Planning & Analysis < crawje@jea.com >

Subject: Re: Fwd: Following up on our discussion last week

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

Thank you Victor. Is the 19<sup>th</sup> still available? I have my team lined up for Wednesday 12/19/18 9-10:30am and 2-3pm

Aaron Bielenberg | McKinsey & Company | <u>1200 19th Street, NW, Washington, DC 20036</u> | US Mob: <u>+1 202 820 2237 | aaron.bielenberg@mckinsey.com</u>

From: Blackshear, Victor L. - Manager Financial Planning & Rates <br/> <br/> Slacvl@jea.com>

Sent: Thursday, December 13, 2018 9:51 AM

To: Aaron Bielenberg < Aaron Bielenberg@mckinsey.com >

Cc: Crawford, Juli E. - Director Financial Planning & Analysis < crawje@jea.com >

Subject: [EXT]Re: Fwd: Following up on our discussion last week

#### Aaron,

Good news Bad news. Bad news the schedule with Juli for 12/20 is gone, but good news is that we can commit to all day Friday.

From: Blackshear, Victor L. - Manager Financial Planning & Rates

Sent: Thursday, December 13, 2018 9:35 AM

To: Crawford, Juli E. - Director Financial Planning & Analysis < crawje@jea.com >

**Cc:** 'Aaron Bielenberg' < <u>Aaron Bielenberg@mckinsey.com</u>> **Subject:** RE: Re: Fwd: Following up on our discussion last week

### Good morning Juli,

FYI Aaron and I discussed the following potential times to meet next week:

12/19/18 9-10:30am and 2-3pm

12/20/18 2-3:30pm 12/21/18 9-12pm

I've blocked off those times for us at least until Aaron confirms what will work best for his team.

### Thanks,

#### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

From: Aaron Bielenberg < Aaron Bielenberg@mckinsey.com >

Sent: Wednesday, December 12, 2018 3:50 PM

Cc: Anton Derkach <anton derkach@mckinsey.com>; Crawford, Juli E. - Director Financial Planning & Analysis

<<u>crawje@jea.com</u>>; Scott Perl <<u>scott\_perl@mckinsey.com</u>> **Subject:** Re: Re: Fwd: Following up on our discussion last week

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

### Yes please

Aaron Bielenberg | McKinsey & Company | <u>1200 19th Street, NW, Washington, DC 20036</u> | US Mob: <u>+1 202 820 2237 | aaron.bielenberg@mckinsey.com</u>

That works for me. Should I call your mobile number below at 9am?

### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

From: Aaron Bielenberg < Aaron Bielenberg@mckinsey.com >

Sent: Wednesday, December 12, 2018 3:31 PM

To: Blackshear, Victor L. - Manager Financial Planning & Rates < blackle jea.com >

Cc: Anton Derkach <a href="mailto:anton\_derkach@mckinsey.com">anton\_derkach@mckinsey.com</a>; Crawford, Juli E. - Director Financial Planning & Analysis

<<u>crawje@jea.com</u>>; Scott Perl <<u>scott\_perl@mckinsey.com</u>> **Subject:** Re: Re: Fwd: Following up on our discussion last week

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

Yes, let's speak at 9am if you can. I am gathering availability now.

Aaron Bielenberg | McKinsey & Company | <u>1200 19th Street, NW, Washington, DC 20036</u> | US Mob: +1 202 820 2237 | aaron.bielenberg@mckinsey.com

Hi Aaron,

Are you available tomorrow morning to coordinate our schedules?

Thanks,

#### **Victor Blackshear**

Financial Planning & Rates, Manager

Direct: (904) 665-4279 Fax: (904) 665-7382

From: Aaron Bielenberg < <a href="mailto:Aaron Bielenberg@mckinsey.com">Aaron Bielenberg@mckinsey.com</a>>

Sent: Tuesday, December 11, 2018 3:50 PM

To: Blackshear, Victor L. - Manager Financial Planning & Rates < blacvl@jea.com>

Cc: Anton Derkach <anton derkach@mckinsey.com>; Crawford, Juli E. - Director Financial Planning & Analysis

<<u>crawje@jea.com</u>>; Scott Perl <<u>scott\_perl@mckinsey.com</u>> **Subject:** Re: RE: Fwd: Following up on our discussion last week

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

Victor,
I will give you a call to coordinate.
Best,
Aaron

Aaron Bielenberg | McKinsey & Company | <u>1200 19th Street, NW, Washington, DC 20036</u> | US Mob: +1 202 820 2237 | <u>aaron.bielenberg@mckinsey.com</u>

On Dec 11, 2018, at 2:47 PM, Blackshear, Victor L. - Manager Financial Planning & Rates < blacklese / wrote:

Hi Anton,

We look forward to seeing how your models could help us project those impacts to JEA's outlook. I have access to Juli's calendar, so when you all have an opportunity please give me a call to coordinate the date and time for us to meet.

Thank you,

### **Victor Blackshear**

Financial Planning & Rates, Manager Direct: (904) 665-4279

Fax: (904) 665-7382

From: Anton Derkach <anton derkach@mckinsey.com>

Sent: Tuesday, December 11, 2018 11:37 AM

**To:** Wannemacher, Ryan F. - Chief Financial Officer < wannrf@jea.com >

Cc: Blackshear, Victor L. - Manager Financial Planning & Rates <br/> <br/> Rates <br/> <br/> Crawford, Juli E. - Director Financial

Planning & Analysis <crawje@jea.com>; Scott Perl <scott perl@mckinsey.com>; Aaron Bielenberg

<a>Aaron Bielenberg@mckinsey.com></a>

Subject: Re: Fwd: Following up on our discussion last week

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

Ryan,

Thank you very much for the introduction!

Juli and Victor,

Looking forward to working with you. Cc:ing Scott and Aaron who will be leading our work as well.

Anton

On Dec 10, 2018, at 4:01 PM, Wannemacher, Ryan F. - Chief Financial Officer < wannrf@jea.com > wrote:

Juli/Victor,

Please see below. Can you work with McKinsey to get them up to speed on the work we have done on the base case?

McKinsey has some models to help project the impact of DER, EV, EE etc. that will be helpful to the effort.

**Thanks** 

Ryan

Sent from my iPhone

Begin forwarded message:

From: "Wannemacher, Ryan F. - Chief Financial Officer" < wannrf@jea.com >

Date: December 10, 2018 at 4:52:26 PM EST

To: Anton Derkach <anton derkach@mckinsey.com>

**Cc:** "Dykes, Melissa H. - President/COO" < <a href="mailto:dykemh@jea.com">dykemh@jea.com</a>>, "Zahn, Aaron F. - Interim Managing Director/CEO" < <a href="mailto:zahnaf@jea.com">zahnaf@jea.com</a>>, Anjan Asthana < <a href="mailto:anjan\_asthana@mckinsey.com">anjan\_asthana@mckinsey.com</a>>, Scott Perl < <a href="mailto:scott\_perl@mckinsey.com">scott\_perl@mckinsey.com</a>>, Aaron Bielenberg@mckinsey.com>

Subject: Re: Following up on our discussion last week

Anton,

My team has availability that week of the 17th.

How does the 20th and 21st look?

I will connect you with the manager of that area and you guys can coordinate schedules directly.

Thanks, Ryan

Sent from my iPhone

On Dec 10, 2018, at 4:23 PM, Anton Derkach <anton derkach@mckinsey.com> wrote:

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

Aaron, Melissa and Ryan,

Thank you for a great kick-off meeting on Thursday. We are very excited to be working together on the future of JEA. Per our discussion, we would like to follow up with a quick list of immediate next steps and see whether you have any feedback for us as we are getting going on this effort.

### On next steps we suggest a few dates and milestones:

- 1) Week of December 10<sup>h</sup> gather requested benchmarking data from JEA.
- 2) Monday December 17<sup>th</sup> McKinsey to send a detailed workplan following the approach discussed, including suggestions on JEA resourcing and descriptions of roles and capabilities we are looking for.
- 3) Tuesday December 18<sup>th</sup> or Wednesday December 19<sup>th</sup> call to walk through the workplan and get your feedback.
- 4) Week of December 17<sup>th</sup> schedule 1 or 2 working sessions with Ryan and team (in person or by phone) to go over the financial model baseline and assumptions, and share our initial view from outside in modeling on demand Ryan to provide availability
- 5) Friday December 21<sup>st</sup> finalized work plan; detailed view on what January will look like.
- 6) January 7<sup>th</sup> Planned start date with McKinsey team in Jacksonville
- 7) January 22<sup>nd</sup> Board meeting presentation of the workplan and approach.

Please let us know your thoughts, We are looking forward to working with you Best regards Anton

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.

\_\_\_\_\_

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 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.
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 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. +========+
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 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.
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 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.
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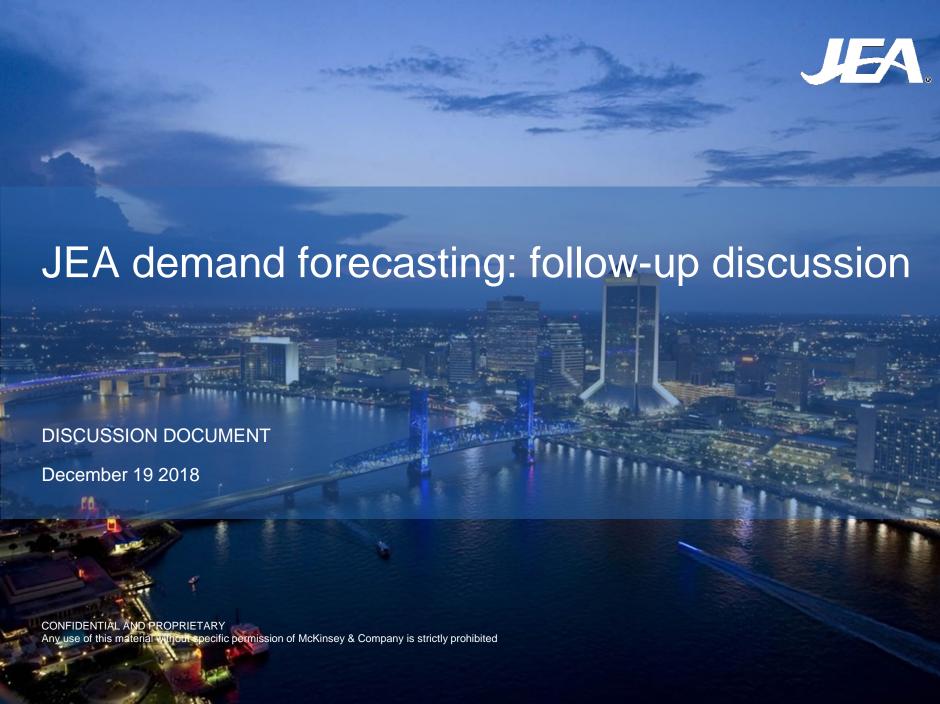
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HOW TO JOIN  MAC (MCKINSEY AUDIO CONFERENCING) for audio: Call your local in-country dial-in number and enter MAC passcode 66592318  United Kingdom (GB) +44-20-7149-7878,,66592318#  United States (US) +1-212-798-0808,,66592318#

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### Goals for today

- Discuss our approach to forecasting demand for JEA and initial results for the base case forecast
- Align on path to finalizing base case demand forecast
- Align on approach to modeling the financial implications of the base case demand forecast and scenarios

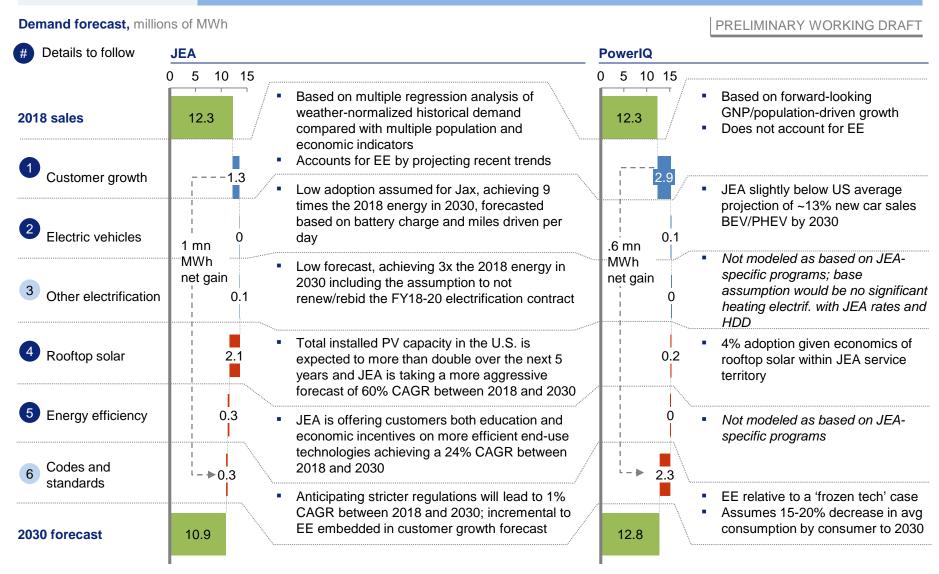


### Contents

- Demand forecast
- Financial modeling potential approach



## PowerIQ-generated view predicts 15% higher sales by 2030 than JEA base case given lower DG losses





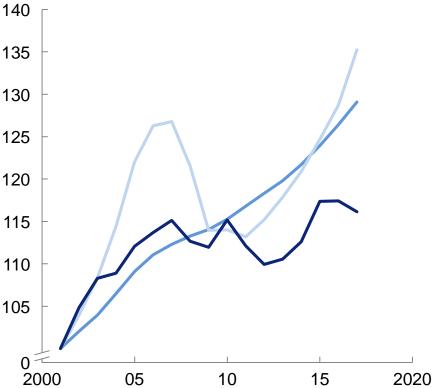
### 1 Historical population, GDP and load growth

PRELIMINARY WORKING DRAFT



### Florida state historical population, gross product, and retail electricity sales,

Indexed to 2001



Annual g	rowth,	%
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Historical '01-'17		Forecast '18-'30		
Florida	US	Florida	US	
1.9	1.9	3.8	2.1	



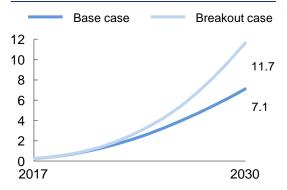
- 0.9 0.6
  - Electric load decoupling from macro parameters, driven largely by organic uptake of EE measures (e.g., LED lighting, EnergyStar appliances, high efficiency climate control and building envelope codes/standards
  - Customer growth forecast is modeled population and GNP, with EE uptake accounted for separately



# We expect ~45k EVs in JEAs territory in 2030 based on our EV forecasting models in the base case

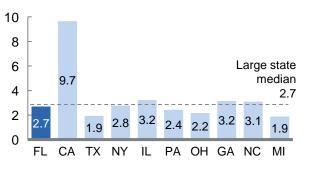
### US EV sales projected to grow 7-12% by 2030

US EV penetration, %



### FL is currently on par with US EV penetration<sup>1</sup>

EV sales as a % of total



### Base case assumptions









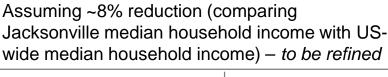


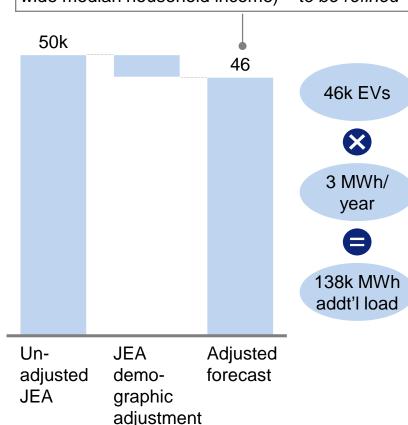






### PRELIMINARY WORKING DRAFT





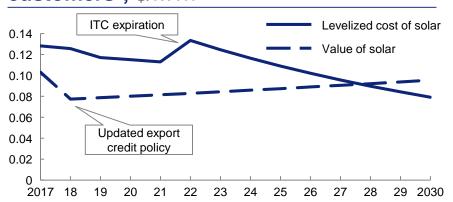
<sup>1</sup> Median of EV penetration for 10 most populous states



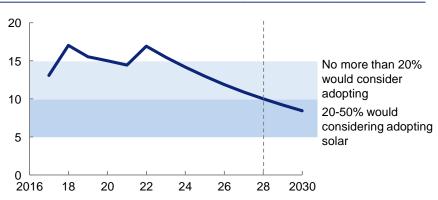
4a

# Residential rooftop solar economics lead to relatively low adoption forecasts for JEA service territory

### Cost and value of solar for JEA customers<sup>1</sup>, \$/kWh



### Simple payback period for JEA customers' rooftop PV systems, years



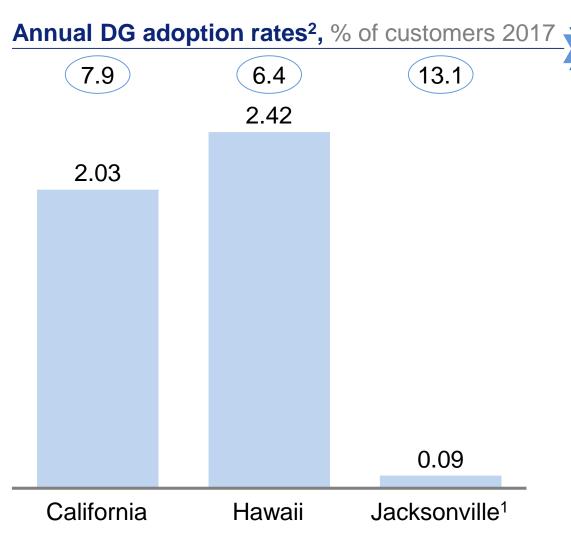
### PRELIMINARY WORKING DRAFT

- With the oncoming expiration of the federal ITC, and fuel-only export value of PV power for rooftop customers, the economics of DG PV installation are not favorable for nearly a decade in JEA's territory
- Therefore, we expect up to ~1% DG adoption through 2027 with an incremental ~3% of JEA residential customers adopting solar once an economic case can be made
  - For residential customers, we expect the total annual load loss to be ~170k MWh by 2030
  - C&I customers likely to adopt at low rates due to a variety of factors, and we expect ~1% adoption (~50k MWh) by 2030



In states where economics of solar have been

4b favorable, adoption rates are ~2% of customers/year, providing confidence to lower JEA adoption forecast



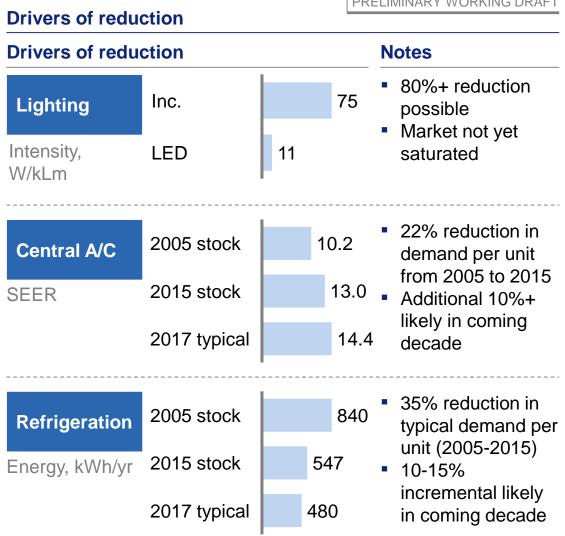
- Payback period, years
- PRELIMINARY WORKING DRAFT
- Adoption rates in CA and HI show that even with favorable paybacks (6-8 years), adoption among customers on an annual basis is only ~2%
- Customer adoption limited by upfront costs, sales effectiveness, attractive siting locations, (relatively) long payback, and customer preference

<sup>1</sup> Assumes JEA territory mirrors FL prior to NEM rule changes 2 Cumulative adoption totals: Hawaii : 21%, CA 8%, FL: 0.14%



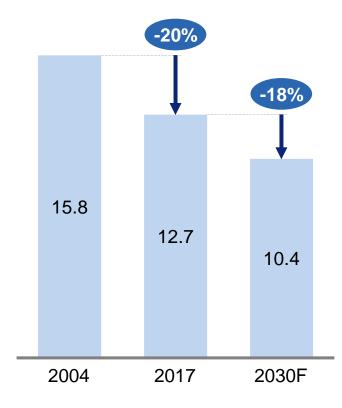
# Energy efficiency gains forecasted for JEA are in line with gains over the past decade





### Impact on sales

### Sales per residential account



### **Number of customers**





### Contents

- Demand forecast
- Financial modeling potential approach



## TETRIS is a financial tool that can create the fact base utilities need to assess potential strategic responses

PRELIMINARY WORKING DRAF

### Total Earnings Trajectory for new Regulatory and Investment Scenarios

### What it is

- A strategic tool to model the impact of forecasted utility investment decisions on earnings and implied rates under different regulatory constructs
- A customizable model that can be tailored to any utility in the US by McKinsey CSTs – typically IOUs but could be customized for municipal utilities
- A flexible model that allows for a wide range of assumptions testing
- Scenario driven, to provide a perspective on the realistic impact of DER penetration and electrification on total value at stake
- A reflection of internal expertise and the firm's understanding of the changing utility landscape

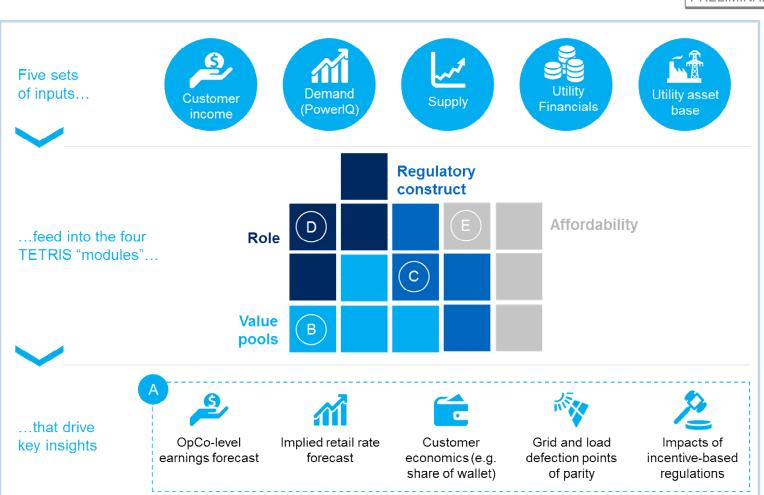
### What it is not

- Intended to replace a rigorous analysis that provides investment-level insights on new products, services, and markets
- A sufficiently granular tool to inform impact on retail rate structures for specific customer segments
- A detailed financial model that accounts for a utility's specific financial situation such as debt covenants, capital structure requirements, etc.
- A model that can report ParentCo level metrics such as impact on earnings per share
- A model to explore non-power opportunities for earnings growth



# TETRIS uses four modules to quantify the impact of disruptive trends on the electric power industry

PRELIMINARY WORKING DRAFT



What we would need to get started (all yearly 2018-2030):

- Rate base forecast (incl. capex, net plant, depreciation)
- Opex forecast (incl SG&A)
- Tax forecast
- Earnings requirements if any
- Leverage ratio and cost of debt