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CALIFORNIA ENERGY COMMISSION
IEPR JOINT AGENCY WORKSHOP

In the Matter of:) Docket No. 18-IEPR-03
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2018 Integrated Energy Policy) Re: Southern California
Report Update) Natural Gas Prices
(2018 IEPR Update))
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CALIFORNIA ENERGY COMMISSION
1516 NINTH STREET
FIRST FLOOR, ART ROSENFELD HEARING ROOM
SACRAMENTO, CALIFORNIA

FRIDAY, JANUARY 11, 2019

10:00 A.M.

Reported by:

Peter Petty

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PUBLIC COMMENT

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AGENDA

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P R O C E E D I N G S

10:04 A.M.

SACRAMENTO, CALIFORNIA, FRIDAY, JANUARY 11, 2019

MS. RAITT: Good morning everybody.

Welcome to today's 2018 IEPR Update Joint Agency
Workshop on Southern California Natural Gas
Prices.

I'm Heather Raitt, the Program Manager
for the IEPR. I'll go over some of our standard
housekeeping items.

Restrooms are out the door in the atrium.
And if there's an emergency and we need to
evacuate the building, please follow the staff to
Roosevelt Park which is across the street,
diagonal to this building.

Please be aware that today's workshop is
being broadcast through our WebEx conferencing
systems and so it is being recorded. We will
post an audio recording on the Energy
Commission's website in about a week. And we'll
have a written transcript posted in about a
month.

At the end of the day, we'll have an
opportunity for public comments and we're
limiting those to three minutes. And so if

1 anyone in the room wants to make a comment,
2 please fill out a blue card and give it to me.
3 It's at the entrance to the workshop.

4 For our WebEx participants, you can use
5 the raise-your-hand feature that WebEx provides
6 if you'd like to comment at the end of the day
7 and we'll call on you during the public comment
8 period. Using that same feature, the raise-your-
9 hand feature, you can ask to lower your hand if
10 you choose to withdraw your comment. And you can
11 use the chat function to make contact with our
12 WebEx coordinator.

13 For phone-in only participants, we will
14 open the lines at the end of the day.

15 Materials for the meeting are available
16 at the entrance to the workshop and will also be
17 available on our website.

18 Comments are -- written comments are
19 welcome and they are due by January 25th. And
20 the notice gives you all the information about
21 the process for submitting comments.

22 And our Legal Team has advised that I
23 make the following statement.

24 The CPUC and the Energy Commission have
25 called this workshop to discuss the relationship

1 between gas supply challenges and high spot-
2 market gas prices in Southern California,
3 particularly at the Southern California Gas
4 Company citygate, and high spot-market
5 electricity prices and the consequent rate
6 impacts on ratepayers.

7 We appreciate the participation of
8 numerous stakeholders and are in an information-
9 gathering and solution-brainstorming mode,
10 looking for a pure exchange of ideas. The CPUC
11 and Energy Commission are actively monitoring the
12 situation to determine if and what solutions
13 might be appropriate and whether such measures
14 require the Agency's oversight and regulation.
15 No participants are compelled to disclose
16 proprietary or commercially-sensitive
17 information.

18 The CPUC and Energy Commission are
19 keeping an eye on antitrust and unfair
20 competition issues, as should all the
21 participants in consultation with our legal
22 representatives

23 So finally, I'd just like to thank our
24 participants for being here today and request
25 that you identify yourselves each time that you

1 speak. That's helpful to those in the room and
2 is particularly needed for our folks
3 participating remotely via WebEx, and also to
4 have an accurate transcript of the conversation.

5 So with that, I will turn it over to the
6 Commissioners at the dais for opening remarks.

7 Thank you.

8 CHAIR WEISENMILLER: Good morning. I'd
9 like to welcome everyone here. Thank you for
10 your participation. In terms of context, you
11 know, California is very reliant on gas supplies
12 for both home and, let's say, commercial heating,
13 and also for power production.

14 We've had, you know, basically, an
15 incident at Aliso Canyon that resulted in major
16 methane releases. We've been struggling with
17 that going forward, or the implications. That's
18 been compounded now by a series of pipeline
19 failures in Southern California.

20 Obviously, in a situation where you've
21 got constraints on supply, that can result in
22 higher prices. I think we all realize that. The
23 question is: What's reasonable?

24 What we have seen at this stage is fairly
25 strong price increases. And I think at this

1 point, most people's attention has really gone to
2 the Southern California Edison ERRA filing, which
3 I believe is about \$1 billion, with a B, and
4 that's because of higher gas prices than
5 expected.

6 And that comes into the question then of
7 supply strategy. Obviously, you can do short-
8 term or you can do long-term contracts. You can
9 do contracts at different points, back in the
10 basin, at the border or at the city gate, so
11 there's pretty complicated tradeoffs there.
12 Obviously, Edison has had a lot of experience in
13 this area and has a lot of sophistication. But
14 at this point, one of the major tools they've at
15 least had historically was reliance on storage.
16 Well, I mean, basically giving our storage
17 limits, at this point it's really needed to deal
18 with reliability in the core, and also some of
19 the tradeoffs. So we have that situation.

20 So we really wanted to -- we pulled this
21 meeting together today to talk about the pricing
22 issues in Southern California to make sure there
23 isn't -- obviously, we all know the market, at
24 some time, can get carried away, with
25 opportunities, to make sure there's no

1 unreasonable prices going on here as far as we
2 can probe it.

3 And as the same time that we've been
4 marching forward, I think everyone's attention
5 has also been drawn to look at, in Southern
6 California, where we've had a cold spell. I
7 mean, we've been lucky, you know, as we have gone
8 into like last winter where things could have
9 been pretty bad, depending upon what the weather
10 was, and it got -- we went through relatively
11 smoothly until the end.

12 And this year, we're not as lucky and we
13 had a cold spell. With the cold spell, we have,
14 obviously, asked for conservation measures. And
15 there is some degree of reliance on Aliso Canyon
16 withdrawals to really get us through that point.
17 And this is pretty early in the winter. So I
18 mean, going forward I'm sure people want to have
19 some focus today not just on the supply question
20 and supply prices, but at least we want to get on
21 the record what happened on the demand side.

22 And again, you know, we're fact finding
23 today. Obviously, there's no real decisions that
24 will come out of this. But I think all of us
25 felt like it would be good to get a, you know,

1 transparent public discussion of what's going on
2 and the consequences and what some of the options
3 might be.

4 PRESIDENT PICKER: Thank you. I want to
5 thank everybody for joining us here on this cold
6 day here in Sacramento. It's quite gray, even
7 though it's sunny in other parts of the state.
8 This is the return of the Tule Fogs that we used
9 to traditionally see at this time of year, which
10 probably is a good sign that some of our
11 mitigation measures are starting to kick in since
12 the heat islands around the cities are not
13 preventing the annual return of the dense fogs
14 that actually help to nourish the local tree
15 canopies. But that's the south -- that's the
16 north part of the state. I want to talk a little
17 bit about the challenges we're seeing in Southern
18 California.

19 You know, again, Bob covered the fact the
20 planned and unplanned pipeline maintenance
21 outages have created bottlenecks in the Southern
22 California Gas system. We've talked at great
23 length about the challenges that are posed by the
24 constraints of the operation of Aliso Canyon.
25 We're just really starting to see the impacts of

1 all this.

2 The higher prices have affected some
3 electric generators and utilities that are under
4 contract with the generators. It's starting to
5 affect some of the other third-party remarketers
6 of electricity. And we're slowly trying to grasp
7 all the ramifications of the impact these price
8 fluctuations will have on customers. It's
9 starting to trickle out through the SCE ERRRA
10 proceeding into our price charging difference
11 adjustment proceeding.

12 Again, the data shows there's been
13 several price spikes since the rupture, the Line
14 235, in October of 2017, a year-and-a-half ago.
15 The price spikes have been fairly significant.
16 And they're exacerbated by the weather, well, big
17 surprise, multi-day cold spells and heat waves.

18 I am always more concerned about the cold
19 spells because they tend to affect, ultimately,
20 the core customers more, since 60 percent of the
21 SoCalGas system that is served by Aliso Canyon
22 goes to those residential customers. So these
23 price spikes have resulted in prices as high as
24 about 40 million metric ton -- \$40.00 per million
25 metric tons per BTU, which is about ten times the

1 city-gate prices of \$4.00 per million metric tons
2 per BTU that existed before Line 235 ruptured.

3 So I will say that it's starting to
4 affect LADWP because they started to postpone
5 some of their necessary maintenance and upgrades
6 on their electric transmission line to reduce the
7 overall liability risks caused by outages in the
8 SoCalGas system. So those delays that affect the
9 needed enhancements that LADWP has to make to
10 upgrade its system, it may ultimately even have
11 impacts on their ability to meet their renewable
12 portfolio standard requirements.

13 So it's been over a year, again, since
14 the rupture of Line 235. And I think that other
15 critical lines have been out of service with no
16 completely clear timeline for bringing those
17 pipelines back into service.

18 So as Commissioner Weisenmiller pointed
19 out, this gives us a chance to explore, not only
20 the causes but to look at specific opportunities
21 to mitigate the price spikes. I certainly hope
22 we'll learn more about plans to bring the out-of-
23 service lines back.

24 But I also do want to hear more about the
25 strategies for demand reduction. We have very

1 robust programs around demand response that have
2 been very productive in the L.A. Basin on the
3 electricity side, and some of that it's in
4 response to a shortage of gas capacity. How do
5 we deal with that on the residential side and in
6 other uses of gas, other than electricity
7 generation? I'm not so sure that we've having
8 the same degree of success.

9 So thank you.

10 COMMISSIONER RANDOLPH: Thank you,
11 everyone for participating in this workshop. I
12 think President Picker and Chairman Weisenmiller
13 succinctly summarized the problem. And I think
14 the most important opportunity for today is to
15 make sure we all have the same set of facts, that
16 we understand what's happening out there in the
17 market right now, so that we can think about some
18 solutions going forward. So I look forward to
19 our discussion.

20 Thanks.

21 COMMISSIONER DOUGLAS: Yes. Thank you,
22 Chairman Weisenmiller, President Picker. I also
23 appreciate the opportunity to be here today. I'm
24 very much in listening mode and look forward to
25 hearing what people have to say.

1 Thank you.

2 COMMISSIONER GUZMAN ACEVES: Thank you.

3 And thank you all for being here, as well.

4 I do think it's important to really learn
5 what's happening, what's happening today, what
6 happened this past year, but also what the
7 prospect is happening for the future, both for
8 the immediate, next year, and for longer-term
9 portfolio management. I'm really interested, not
10 just in this demand-side management but also the
11 contracting and other requirements that we may be
12 imposing on the utilities for management of
13 supplies, both for different reasons.

14 So I'm very interested in learning if
15 there are other mitigation measures that are not
16 being considered yet and looking at how the --
17 how, potentially, the management of the portfolio
18 could be improved within the gas leak and outside
19 of the gas leak.

20 I think it's really troubling to be
21 looking at \$1 billion variance in this particular
22 set of expenditures. It's a hard thing to
23 communicate to customers. It's not easy for us
24 to just accept that as a normal, that this type
25 of fluctuation should be accepted moving forward.

1 So I really hope to learn today and to hear what
2 all of us can do to make this less volatile and
3 not a reality in the future.

4 Thank you.

5 MR. RIDER: I may be unfamiliar to some
6 of you -- is it -- am I just not close enough?
7 There you go.

8 I'm here today representing Commissioner
9 David Hochschild. I'm his Advisor, Ken Rider.
10 We're lead on the IEPR this year and we're really
11 happy to convene this meeting today and really
12 thank the Chair for his leadership in the IEPR
13 and overall on Southern California reliability.

14 The Warren-Alquist, which creates this
15 Energy Commission, really leads with this fact.
16 It says that, you know, the reliability of price
17 of natural gas and electricity is fundamental to
18 the operation in the state. And this is -- and
19 price volatility is, obviously, a direct threat
20 to that.

21 So I think this is really bread and
22 butter of, you know, what this agency is here for
23 and really happy that we can get together and
24 talk about ways to mitigate and, you know,
25 maintain the reliability and reasonable cost of

1 the system.

2 Thank you.

3 MS. RAITT: Great. So again, this is
4 Heather Raitt for folks on WebEx.

5 So we'll move to our first presentation,
6 Southern California Natural Gas Prices and
7 Electricity -- Electric Generation Costs. And
8 it's a joint presentation with Lana Wong from the
9 Energy Commission and Scott Simon from the CPUC.

10 MS. WONG: Good morning and thank you all
11 for coming today. I'm Lana Wong with the Energy
12 Commission.

13 Natural gas prices have been especially
14 volatile at SoCal citygate this past year with
15 significant price spikes on occasion. We've
16 observed that these high prices are translating
17 into high electricity prices.

18 Is it --

19 (Microphone is adjusted.)

20 MS. WONG: Whoops. You will hear
21 discussion later today on the alignment of gas
22 and electricity markets and how the timing of the
23 markets can impact what we're observing. We've
24 heard from stakeholders that they are being
25 negatively impacted, which is what prompted this

1 workshop. So we want to hear from stakeholders
2 about what you are experiencing.

3 After a short presentation on prices,
4 there will be three panel discussions on supply
5 impacts on electric generation, impacts on core
6 customers and non-core/non-electric generators.

7 So this first slide presents historical
8 gas prices for 2017 and 2018 and SoCalGas
9 composite temperature. What you can see is that
10 in 2017, gas prices were fairly stable, in the
11 \$3.00 per MMBtu range until Line 235 ruptured in
12 October 2017, and that's denoted by the black
13 line.

14 So prior to the rupture, the border and
15 citygate prices closely track together. And you
16 can see that price volatility increases after the
17 rupture, which clearly shows that the outages,
18 and not Aliso Canyon, are a key factor in the
19 price volatility.

20 SoCal citygate has shown several price
21 spikes compared to SoCal Border since the
22 rupture. And PG&E citygate prices in blue have
23 been relatively stable during this time. And you
24 can also see, with the yellow line is the
25 composite temperature. The largest price spikes

1 occurred during extreme weather, either a cold
2 spell or a heat wave, and prices spiked as high
3 as \$39.00 per MMBtu this past summer.

4 So this is a map of the SoCalGas system.
5 And it's just to remind us where the outages are.
6 The red X is Line 235. The yellow X below it is
7 Line 4000. The yellow X on the far right is Line
8 3000. The yellow denotes that they're operating
9 at reduced pressure and capacity. And the red
10 line denotes that that line is out. So these
11 outages translate to about a loss of 770 million
12 cubic feet a day of capacity, or about 20 percent
13 of their nominal system capacity.

14 So for a frame of reference, SoCalGas has
15 stated that their gas transmission system is
16 nominally designed to receive up to 3,775 million
17 cubic feet a day of flowing supply on a firm
18 basis.

19 This slide shows SoCalGas receipt point
20 capacity and the reductions from the outages.
21 These numbers were used in the Aliso Canyon
22 Winter Technical Assessment that was published
23 last October. It shows that capacity is about a
24 BCF lower than the nominal 3,775 million cubic
25 feet a day capacity.

1 So these reductions will remain for some
2 time, at least through this winter. And no
3 return-to-service date has yet been identified on
4 ENVOY, which is SoCalGas' electronic bulletin
5 board.

6 What this slide doesn't capture are any
7 operational constraints on SoCalGas' system
8 that's impacting receipt-point capacity. So in
9 looking at the data on ENVOY, we've seen reduced
10 available capacity on the southern system this
11 winter. The available capacity may be lower than
12 what is shown here. And the southern system is,
13 essentially, Ehrenberg and Otay Mesa receipt
14 points on this slide.

15 We've also seen that that amount can be
16 changing daily, so we'd like to understand better
17 why this is happening and why it can change
18 daily.

19 This slide shows the basis differential
20 between citygate and SoCal border for 2016, 2017
21 and 2018. And so what you can see is that the
22 differential for 2016 and '17 are fairly stable,
23 14 cents in an MMBtu in 2016, 32 cents an MMBtu
24 in 2017 before the rupture. But after the
25 rupture, you can see that the basis differential

1 starts to widen in the latter part of 2017. And
2 then in 2018, it continues. And you know, the
3 average for 2018 is in the \$2.00 range. So it
4 shows that there's a larger basis differential
5 overall in 2018.

6 So in trying to understand some of the
7 reasons for that widening basis differential, we
8 looked at data for November and December of 2017
9 and 2018. So for those periods, Line 235 was out
10 during both times. But I had to remind myself
11 that when I was looking at this data that in
12 November and December 2017, Line 4000 was out of
13 service, so capacity was a little bit lower in
14 those two months in 2017 compared to these past
15 two months in 2018.

16 And so this slide shows send-out. And
17 what we found is that the send-out for these two
18 months are similar between 2017 and 2018. The
19 total for 2018 for these two months is just
20 slightly lower than 2017. But it just tells us
21 that send-out doesn't really explain what we're
22 seeing or these differences.

23 I also looked at OFOs to see, okay, is
24 that an indicator of what we're seeing? But that
25 also doesn't help explain that when I look at

1 November, there were more OFOs in November 2018
2 compared to November 2017, but it's the reverse
3 in December, that December shows fewer OFOs this
4 year compared to December 2017. So that doesn't
5 explain why we're seeing a higher differential
6 this year compared to last year.

7 What this slide shows is planned
8 maintenance activity. And what we have found is
9 that planned maintenance events can exacerbate
10 already constrained conditions.

11 So this past November there was a price
12 spike to \$19.00 in MMBtu at the citygate, and
13 that occurred on November 16th. And so when we
14 looked at the data, we could see that receipts at
15 Wheeler Ridge dropped in 2016. And we found a
16 planned maintenance event that began at Wheeler
17 Ridge on November 16th, causing that price spike.

18 So it's not clear whether these planned
19 maintenance events can be rescheduled at other
20 times, but they certainly can exacerbate already
21 constrained conditions.

22 So this slide shows receipt and whether
23 the pipelines are full. Southern California
24 recently experienced a cold snap earlier this
25 month and the electric generators were asked for

1 voluntary curtailments. There were five of them
2 around this period. And the first notice went
3 out December 28th. So customers are put on
4 notice and asked for voluntary curtailments.

5 So the green bar shows total receipts and
6 that they are not necessarily full. The orange
7 bar shows core withdrawals. And the gray bar
8 shows withdrawals for balancing. The yellow and
9 blue lines are the receipt capacity from the
10 earlier slide. So it just seems like receipt
11 points should be full if the system operator is
12 asking for voluntary curtailments. We can also
13 see that during this time there were Aliso Canyon
14 withdrawals. Aliso Canyon withdrawals occurred
15 on January 2nd, a day with a notice requesting
16 voluntary curtailments.

17 And so if the pipelines were full, less
18 would be needed to be withdrawn from storage. So
19 we want to understand better why the pipelines
20 aren't full and what can be done to increase
21 utilization.

22 So the next couple of slides are on
23 electricity prices. And I'm going to turn it
24 over to Simon Baker.

25 MR. BAKER: Good morning, Chair

1 Weisenmiller, Energy Commissioners, President
2 Picker, PUC Commissioner. So this is -- the
3 purpose of this is to just show some data that
4 was presented in an earlier slide here, just to
5 explain a little bit about how the electricity
6 markets have been behaving.

7 By way of background, the electricity
8 markets, they clear at the lowest cost marginal
9 resource. And in CAISO, natural gas generators
10 are often the marginal resource. So electricity
11 prices reflect natural gas price trends. The
12 market clearing price applies to all
13 participants, even though some resources have
14 lower costs. In addition to the energy prices,
15 electricity prices include marginal prices for
16 losses and congestion which are more localized.
17 SoCal citygate prices often impact overall system
18 electricity prices because there are a large
19 number of natural gas resources in the south and
20 they often experience greater congestion.

21 So this slide is showing some of this
22 behavior and effect. Even after the Aliso event,
23 SoCal border and SoCal citygate prices largely
24 followed each other, as was said before. But
25 after the Line 235 rupture, we started to see

1 deviations between the SoCal border and citygate
2 more frequently and more severe, and that's what
3 you're seeing here in the red and the green
4 lines.

5 On July 24th, gas prices at the citygate
6 reached \$40.00 per MMBtu, the highest in 2018.
7 And on the 7th, there was a second gas peak at
8 \$27.00 per MMBtu. And this had a knock-on effect
9 on the day-ahead electricity prices in SB 15
10 peaking at \$250 per megawatt hour and then \$200
11 per megawatt hour, respectively. Just to
12 clarify, these data on this slide, these are
13 daily average data.

14 So these electricity prices this past
15 summer, they've increased significantly compared
16 to 2017 levels. So this shows a trend line going
17 from January of 2017 all the way through
18 beginning of November of 2018. These tight
19 supply conditions, high demand, high gas prices
20 have driven the high electricity prices that
21 we've seen more recently. The record-breaking
22 temperatures across the state, and particular in
23 Southern California, increased demand. And in
24 the winter, load temperatures contributed to
25 higher demand.

1 From July to September, average natural
2 gas prices at the citygate increased by 134
3 percent from the same time in 2017. And this was
4 one of the main drivers that we saw in high
5 energy prices across CAISO. We saw higher
6 average monthly day-ahead electricity prices in
7 July and August this year compared to 2017, and
8 this is shown in the graph. If you look at the
9 period kind of in the middle of this graph, the
10 prices are not nearly as high as on the right
11 side of the graph.

12 You also see this split in prices and
13 electricity prices between the Northern
14 California prices in orange and the Southern
15 California prices in yellow there. And that
16 spread is primarily due to the difference in
17 congestion and losses because the same higher-
18 priced units in Southern California are setting
19 the price there in those instances.

20 So across the system, we also saw more
21 frequent day-ahead hourly prices above \$200 per
22 megawatt hour. And again, as said earlier, on
23 July 24th the system reached a record peak of
24 day-ahead prices at about \$980 per megawatt hour
25 in the hour ending 8:00 p.m.

1 So that's what we have for the staff
2 presentation. We'd be happy to take questions at
3 this time.

4 MS. RAITT: Thank you, Simon and Lana.
5 So we'll move on to our first panel.

6 COMMISSIONER GUZMAN ACEVES: Mr.
7 Weisenmiller --

8 MS. RAITT: Oh, I'm sorry.

9 COMMISSIONER GUZMAN ACEVES: -- just a
10 follow-up question for Lana.

11 There's a -- you had on slide eight the
12 correlation of what you looked to be the spikes
13 with planned maintenance. Is there anything,
14 any -- not that it -- not necessarily planned
15 maintenance, but are there any thoughts on
16 additional causes for the July-August spike?

17 MS. WONG: So temperature is definitely a
18 driver. So one of the earlier slides, I pointed
19 out that the price spikes tended to occur during
20 extreme weather conditions. So when it's --
21 during these extremes, the system is just
22 operating under more constrained conditions. So
23 that's one of the key drivers of what -- of some
24 of these price spikes we've seen, you know, that
25 it's been during extreme weather conditions.

1 But certainly in this, when we were
2 looking at data for -- I was looking at November
3 to December. And when gas prices hit that \$19.00
4 per aMMBtu range, we're all circling around going
5 why are gas prices this high? What's going on?
6 You know, we started asking questions, trying to
7 understand what's going on in the market. And
8 that led to this discovery about the planned
9 maintenance event. And it does seem somewhat
10 correlated to the price spike that we saw.

11 MS. RAITT: Okay. Thanks.

12 So I think now we're ready to move on to
13 the first panel on Southern California Natural
14 Gas Supply. And it is being moderated by
15 Catherine Elder from the Aspen Environmental
16 Group.

17 MS. ELDER: I guess that's my queue to
18 take it away. Good morning, Commissioners. I'll
19 just say, my mother would be very grateful that I
20 got called Catherine, but you all know me as
21 Katie, so with that, good morning.

22 We want to spend some time following up
23 from the price graphs, so the story that Lana and
24 Simon laid out, and talk about what folks see
25 going on in the market with gas supply.

1 So to try to help lay that out for you, I
2 am going to turn this over to Rodger Schwecke
3 from SoCalGas, whose team manages the
4 transmission system at SoCalGas. They're not the
5 folks who order gas supply in for customers.
6 Rather, they're the folks who see it come into
7 the system and operate the system to deliver it,
8 which means that they're in a position to see how
9 nominations are changing on a daily basis; what
10 kind of fluctuations and activity did they see on
11 the system?

12 And then I always -- if I say Evie, it
13 comes out as "Evie Elser" Kahl (phonetic). That
14 just proves how old I am and how long I've known
15 Evie. She represents a large group of customers,
16 who are also gas suppliers. So they experience -
17 - they nominate gas on the system, they sell gas
18 on the system to customers, so they're in a
19 position to have observations about what we see
20 going on with gas supply.

21 So with that, I'm going to be quiet and
22 Rodger is going to talk.

23 MR. SCHWECKE: Thanks, Katie. And thank
24 you, Commissioners. I appreciate having the
25 opportunity to talk here and then answer some

1 questions to maybe add some clarity around some
2 of the issues that Lana and Simon mentioned from
3 our perspective, from an operator perspective.

4 I want to kind of go back, I think that
5 it was mentioned in the presentation, to the cold
6 period that we just had January 2nd through about
7 the 5th or 7th, and to look at those days and
8 what transpired. I think if you look at the
9 graph up here you'll see, where our receipts come
10 into the system is the orange bar. Those
11 receipts were below what our receipt point
12 capacity was at the time. How much of that was
13 attributed to the holidays? And then you had --
14 you know, a Monday is typically a day that people
15 will schedule gas on the Friday before. Here we
16 had January 1st, so you had a period of holidays,
17 and whether that made a difference in how much
18 receipts we were getting.

19 But we started seeing demand on our
20 system grow fairly large. And if you really look
21 at the amount of gas that was used, we were
22 exceeding demand on our system, what would be on
23 an hourly basis the equivalent of a 4.8 BCF day.
24 Well, the demand on our system was very high on
25 an hourly basis. And as you could see, we

1 started to withdraw gas. And we felt that
2 without the use of Aliso Canyon, we could not
3 meet demand.

4 And going through the Aliso protocol, one
5 of the first steps is to work with the balancing
6 authorities, CAISO and LADWP. And that's where
7 we requested of them for a voluntary curtailment,
8 can they reduce their load? We really did not
9 expect that CAISO and DWP would be able to help
10 much. Their load was very low on the system
11 already. It was probably at lows that, you know,
12 we probably don't even expect. It was probably,
13 you know, somewhere around the 200 to 250 million
14 cubic feet a day, so it was a small portion of
15 the entire load. We did really not expect them
16 to be able to provide, you know, a lot of gas to
17 help the situation.

18 And that's when we began withdrawals from
19 Aliso Canyon and continued those for, you know,
20 almost three days. Over the period of the three
21 -- two-and-a-half days, we withdrew about 1.2 BCF
22 of gas at Aliso Canyon.

23 I would also say that on an hourly basis,
24 and I mentioned the demand in an hour, the hourly
25 demand -- or withdrawals from Aliso Canyon were,

1 at times, exceeding a billion cubic feet a day
2 equivalent. But when you look at the hourly
3 amount, that really played a key part. And you
4 can see where it peaked during those morning
5 hours. It was really the critical part for Aliso
6 Canyon, let alone across the entire period of the
7 withdrawals.

8 We, basically, actually did expect
9 weather to occur on Monday of this week. That
10 weather did not materialize. We had a voluntary
11 curtailment on Monday. But the weather was, what
12 we had forecasted, probably about 400 million
13 cubic feet a day less than what we had forecasted
14 earlier on Friday and Saturday, so that actually
15 helped. And receipts -- you know, demand now is
16 running more at the typical level, 2.8, 2.9 BCF.
17 We're still withdrawing gas, no doubt about it.

18 And I think when you look at the event,
19 as I mentioned, some of the forecasted demands
20 that we had, the actual use, we also relied
21 heavily on our other storage fields. And the
22 inventory levels, we pulled out over 6 billion
23 cubic feet out of those fields over a nine-day
24 period.

25 The impact that has on a going-forward

1 basis is that our withdrawal capability at those
2 fields is diminishing. We're probably below 900
3 million cubic feet, probably approaching 850
4 million cubic feet of capability withdrawal out
5 of those fields which, looking forward, the use
6 of Aliso Canyon may be more needed again later in
7 the winter. If you look at last year, the
8 coldest weather we had was at the end of
9 February.

10 So that's where we sat on these days, the
11 period from the 26th of December to the 4th of
12 January. The use of Aliso Canyon was critical in
13 meeting the demand. Demand was fairly high and
14 it continues to be above our receipt-point
15 capacity.

16 We talked about demand response. And I
17 apologize, this slide is very small. We did use
18 our two programs we have. One is our DialIt-Down
19 Program, which is similar to the Smart Flex Alert
20 Program. It's really a campaign to get people
21 aware of the cold weather and to turn the
22 thermostats down. We don't have much data on
23 what the impact on that is. It's really the
24 first time we even used it.

25 We did also institute our demand

1 response, which is our Smart Therm Program where
2 we actually have the manufacturers turn the Smart
3 Therm down, thermostats down, by four degrees.
4 Of the some-odd 10,000 registered customers we
5 have in that program, we probably got about a 50
6 percent activation. In other words, there's some
7 you can't contact, some that they override, some
8 that, you know, really are partially overridden.

9 In that, when you look at the amount of
10 gas that was saved during that period of time,
11 it's relatively small. And, you know, so you're
12 talking about 5,000 thermostats turning it down
13 four degrees. Our estimate right now, and these
14 are only estimates, we're going to have to
15 provide the information, but it's less than a
16 third of a million cubic feet of gas. So it's not
17 that much gas savings that we are able to achieve
18 through the demand response at these levels of
19 people signing up to the program.

20 One other thing I wanted to bring it up,
21 this kind of change, and we talk about a lot of
22 change, but has not been mentioned. The capacity
23 rights on our system, I think what we've seen,
24 and once we had the incident on Line 235, there
25 was capacity available on a firm basis at that

1 time. A lot of people went out and bought the
2 remaining firm capacity that was available.

3 And I think as you can see when you look
4 at the period, while the percentages don't change
5 much on the total annual, really, if you look at
6 the July through September period, if you look at
7 the amount of capacity that's being held by what
8 I have titled Core and Non-Core Balancing Agents,
9 those are people that have customers, whether
10 they're core customers, non-core customers. And
11 then we have those that are just the core
12 balancing agents which is, you know, almost --
13 most of that is made up by SoCalGas' Gas
14 Acquisition Department. And then you have those
15 that only have non-core customers as balancing
16 agents. And then you also have customers that
17 have purchase capacity that are not balancing
18 agents. In other words, they're not associated
19 with the customer.

20 And you could see that when you look at
21 those summer periods that we talked about,
22 there's been -- there was a large uptick between
23 '17 and '18 on people that held capacity. For
24 the first column, you can see it was probably
25 about a 40 percent uptick, if not larger. I

1 think, you know, people saw the outage, they
2 basically saw the capacity available, they
3 prudently went out and bought that capacity to
4 ensure themselves the capability to move gas from
5 the border to the citygate.

6 I think that really resonates, for me
7 anyways, that you also still have a large portion
8 of capacity, somewhere around 50 percent of the
9 capacity being held by non-balancing agents or
10 people that aren't currently associated with the
11 customer. They could be selling gas to
12 customers; we just don't have that association in
13 our information.

14 The question was also raised where the
15 OFOs work that we have in our system. And it's
16 clear when you look at these two graphs, over the
17 2018 period, this is average numbers, that going
18 from a Cycle 2, in which we call an OFO, for a
19 Stage 3, you can see that it goes from a negative
20 imbalance on average to a negative imbalance of
21 about 225,000 decatherms (phonetic). So there is
22 an uptick. It changes people's behavior. It
23 brings more gas on the system. I think when you
24 go into a Stage 4, you're getting to see that the
25 line is higher and that we do see that we

1 actually get a greater increase. I think people
2 will say that that's driven by the price; it
3 could very well be.

4 But there is an impact when we do call
5 OFOs that we get more gas in the system. And I
6 think when you look at some of the periods that
7 we talked about, 2018 in the summer, we were
8 short in excess, like on July 23rd, 2018, we were
9 short in excess of about a half-a-billion cubic
10 feet of gas on a receipt versus estimated burn
11 basis. We called the OFO and that changed. And,
12 in fact, on July 24th the supply picture changed
13 so much that there was no OFO.

14 Interesting how the market reacted.
15 There was still a pricing increase on the 24th
16 and that was the high price, but we were not in
17 an OFO on that day. Now a lot of it happens the
18 day before and the day of, so -- but I just
19 wanted to point that out, that we do see a
20 dramatic increase in supplies when an OFO is
21 called.

22 One point I would like to make, and I
23 think I saw some of the other presentations, we
24 have had a lot of OFOs, there's no doubt about
25 it. Since December 2015, we've had almost 300

1 OFOs. What I would like to point out is that's
2 all done based on a calculation and estimate of
3 available capacities and hourly withdrawal
4 capacity on low OFOs. Had you taken that same
5 look with Aliso Canyon in the calculation, we
6 would reduce those overflows by about 80 percent.

7 So there is a dramatic impact when you
8 start looking at what's driving gas prices if
9 it's OFOs. One way to do it is not have OFOs.
10 And we could actually have a dramatic change in
11 OFOs just by using the capacity in the
12 calculation of Aliso Canyon. But Aliso Canyon
13 can't be used as a market tool.

14 So the one recommendation that -- you
15 asked for recommendations that I have -- that's
16 something that can happen quickly is to actually
17 be able to use Aliso Canyon as a market tool as
18 participants can use that capacity to meet their
19 demands, to meet their swings. It will clearly
20 reduce the number of OFOs. And, really, it
21 brings additional supply into the marketplace.
22 That could happen, you know, up until the
23 pipeline capacities are back in service.

24 I look at it as this is an immediate
25 thing that can happen quickly. There's no

1 additional decision that has to be made by the
2 Commission but it's something that could be
3 looked at. And I just put that out there as a
4 possible recommendation for us to look at.

5 And that's all I've got, so if there's
6 any questions now or later?

7 CHAIR WEISENMILLER: I've got a couple
8 before we go on. I think just focusing on the
9 pipelines for a second, the 235, 3000 and 4000,
10 how old are each of those pipes?

11 MR. SCHWECKE: The 235 pipe is a 1950
12 vintage pipe. And I think 4000 is around the
13 same age, along with Line 3000. They're all
14 basically around that 1950s vintage.

15 CHAIR WEISENMILLER: Yeah, so they're
16 pretty old. Yeah.

17 We've had the conversation a couple of
18 times, you know, in the Aliso workshops, just in
19 terms of what can we do to get them back online?
20 What's your estimate? And again, it comes back
21 to, I think each time, you still don't know.

22 MR. SCHWECKE: Well, at least we have
23 been able to begin work on Line 235.

24 CHAIR WEISENMILLER: Um-hmm.

25 MR. SCHWECKE: We just recently received

1 our permits from the California Fish and Wildlife
2 to perform work in the streambeds that we have to
3 work in. So we're looking that that line will
4 come back into service at a reduced pressure
5 because it did have a rupture. Our plan is that
6 we will have to run an ILI or a pig run through
7 that line just to make sure everything's safe
8 before we were to feel comfortable in bringing it
9 back to its original pressure.

10 When you look at Line 4000, we have a pig
11 line run on that line. We have to do some
12 validation digs on that line. And a validation
13 dig is you get the tool that runs through the
14 pipe and it tells you, you have an anomaly, but
15 you have to go and dig it up and validate it to
16 make sure that the tool is giving you the correct
17 reads. Even though those pipelines are 1950s
18 vintage, we have seen a lot of issues with regard
19 to how the pipes are, you know, holding up over
20 time in those areas in the desert.

21 CHAIR WEISENMILLER: Do you -- going back
22 on the basis question of looking at this winter,
23 is there any reason to think any of those lines
24 can come back?

25 MR. SCHWECKE: For this winter?

1 CHAIR WEISENMILLER: Yeah, this winter.

2 MR. SCHWECKE: No.

3 CHAIR WEISENMILLER: No? Nothing can be
4 done to move it?

5 MR. SCHWECKE: We're moving as quickly as
6 possible and we have probably a timeframe that is
7 working. We don't want to work out in the desert
8 where unsafe for our workers.

9 CHAIR WEISENMILLER: Right.

10 MR. SCHWECKE: And our schedule we have
11 is pushing that envelope and we don't expect to
12 have that line back into service until sometime
13 in the spring, probably the April timeframe.

14 CHAIR WEISENMILLER: And they are still
15 all on rate base?

16 MR. SCHWECKE: Yes, they are.

17 CHAIR WEISENMILLER: Okay. Next question
18 is in terms of when you see -- in terms of the
19 pricing spikes, is there anything you can do as a
20 transmission entity to reduce prices, other than
21 the Aliso option you've thrown out?

22 MR. SCHWECKE: From an operator, from a
23 system operator standpoint there's not much we
24 can do. We have made all the capacity available
25 that's available to the market participants. We

1 do, on a reliability basis, use our storage
2 assets but we can't push gas. We deliver gas out
3 of the storage fields to meet demand. We don't
4 necessarily have the ability to change that, to
5 change the price structure and the prices.

6 CHAIR WEISENMILLER: And --

7 MR. SCHWECKE: We don't have that
8 ability.

9 CHAIR WEISENMILLER: -- and maintenance
10 scheduling; I mean, do you have any flex, or you
11 don't? I'm assuming, when it's bad you only do
12 it because you feel like there's a reliability or
13 safety issue?

14 MR. SCHWECKE: We have, over the last
15 three years, been pushing off maintenance,
16 pushing off the activities. And we try to
17 schedule those at periods of time when we see the
18 lowest demand. From an operator's standpoint, we
19 don't want to disrupt the demand.

20 The outage that was talked about at
21 Wheeler Ridge was a relocation that we had to
22 complete. That was the period of time when we
23 thought we could complete it, so not have to do
24 it during the middle of the winter, right --

25 CHAIR WEISENMILLER: Yeah.

1 MR. SCHWECKE: -- or into the summer. So
2 that was, we were looking at it from a
3 reliability standpoint, not a price standpoint.

4 CHAIR WEISENMILLER: So the next question
5 is in terms of do you have an assessment of
6 what's driving the price spikes? Is there any
7 difference than what you've heard from our
8 staffs?

9 MR. SCHWECKE: No. It's a supply and
10 demand issue. And, you know, that's all I can
11 look at it from my perspective. I can't
12 speculate on who's doing what in the marketplace
13 or not doing. That would be my only perspective,
14 so I'd have to look at it that, you know, if we
15 had more supply in the system, I would expect
16 prices to reflect that.

17 CHAIR WEISENMILLER: Okay. But your
18 bottom line is you agree with the conclusions
19 we've heard so far on that topic from the staffs?

20 MR. SCHWECKE: There is a couple points I
21 would like to make --

22 CHAIR WEISENMILLER: Sure.

23 MR. SCHWECKE: -- that when they looked
24 at the mitigation, I think there was some item
25 about Otay Mesa. Otay Mesa is not an additive to

1 the Blythe capacity. Those numbers have to be
2 consistent. And they don't just add straight
3 across. Any gas that comes into Otay Mesa takes
4 gas away from Blythe.

5 There was also a comment about the Blythe
6 capacities. What we have seen in our Ehrenberg
7 capacity coming through Blythe is that area, our
8 southern system, is now dependent upon demand for
9 capacity. Our demand levels are such that we
10 can't take any more gas than the demand, plus
11 what we can move into the L.A. Basin. So there's
12 a limiting factor. And we're seeing, and it
13 could be a lot with regard to the electric
14 generation load, is that we're not seeing
15 electric generation load on our southern system,
16 so we can't take as much gas in. That's why it
17 varies on a daily basis. We're trying to
18 maximize it based on our forecasted demand on our
19 southern system.

20 CHAIR WEISENMILLER: Right. The last
21 question I have is, obviously, on the non-Aliso
22 storage, capacity has been reduced substantially.
23 And as you indicated, future cold spells would
24 mean, you know, you'd have to shift more to Aliso
25 in that circumstance.

1 Assuming average weather, how long do we
2 have before you start dipping more into Aliso?

3 MR. SCHWECKE: I'd probably say Monday,
4 last Monday. We're at a point where we have
5 presented what we feel are minimum storage levels
6 that are non-Aliso storage fields to be able to
7 meet core reliability demands, and I'm talking
8 core customer reliability demands for February.
9 We're very close to those numbers already. I
10 think what we're looking at, and I think it's
11 consistent with the protocol, is to actually
12 start using Aliso Canyon to preserve that
13 inventory, to preserve the minimum withdrawal
14 capability of those fields. And I think we're at
15 that point today to start that process.

16 And when you look at our Playa del Rey
17 storage field, we're actually working to inject
18 gas into that field to bring that capacity back
19 up because it's those hourly demands that really
20 concern me, that we cannot meet a 4.8 BCF-
21 equivalent day demand if we keep going at the
22 rates we are at our non-Aliso storage fields.

23 CHAIR WEISENMILLER: Yeah. How much
24 opportunity to have to replenish those fields in
25 this time of year?

1 MR. SCHWECKE: Well, if I -- I think I
2 have considerable opportunity if I had the
3 ability to withdraw gas from Aliso Canyon and
4 then inject gas in the other fields. Because
5 Aliso Canyon is sitting with somewhere around 32
6 BCF of gas. It has withdrawal capability in
7 excess of a billion cubic feet a day. So to move
8 3, 4 or 5 BCF from that field to our Honor Rancho
9 and Playa del Rey storage fields, that's a good
10 tradeoff. I don't lose much withdrawal capacity
11 at Aliso Canyon but I gain a lot at Honor Rancho,
12 so that's the tradeoff.

13 CHAIR WEISENMILLER: Yeah. I was just
14 trying to understand if there's any opportunity
15 without Aliso to replenish?

16 MR. SCHWECKE: I think when we look at
17 it, that our average demand, even in a mild -- if
18 you were to look at the December temperature, and
19 this is December of 2018, and use that number,
20 it's about 2.8 billion cubic feet a day demand,
21 2.8, 2.5. With receipts of 2.6, you're on
22 withdrawal every day.

23 COMMISSIONER RANDOLPH: I had a question
24 about Lana's slide nine where she talks about the
25 flowing capacity in the pipelines. I just want

1 your thoughts on the question she raised about
2 whether there was adequate supply in the --
3 flowing supply in the pipe?

4 MR. SCHWECKE: Well, and this is where I
5 brought the issue because you've got the two
6 lines we talked about, the addition of Otay Mesa,
7 so I'll just look at the second line, the lower
8 lines.

9 Customers will bring in gas, and you'll
10 have an opportunity to ask, you know, some of the
11 participants, our participants, to meet what
12 their demand forecasts are. Do their demand
13 forecasts change? Yes.

14 We're at, actually, a fairly high, I
15 think, utilization of our receipt-point capacity.
16 But, and I may sound like a broken record, but we
17 -- also, the customers don't want us to flip into
18 what would be a high OFO, where we have too much
19 gas in the system. So they're trying to manage
20 their supply deliveries.

21 We're at a fairly high receipt capacity
22 percentage utilization. So -- but the numbers
23 are what the numbers are. As you can see, when
24 we got people back, that you did have an uptick
25 in supplies coming into the system. And we're

1 still running at about 2.5, 2.6 BCF in receipts.
2 We're fairly full.

3 PRESIDENT PICKER: Can you -- what can
4 you tell us about growth and demand across the
5 last calendar year and what do you expect in the
6 next calendar year, or if you have a different
7 calendar you're using for measuring?

8 MR. SCHWECKE: Yeah. I think from a
9 demand perspective; we don't see much growth. I
10 think we actually, on an overall basis, probably
11 see a decline. And it's probably experienced by
12 the decline in electric generation on our system.
13 Now whether that generation has just shifted to
14 Northern California or outside the state, I don't
15 know. But from a perspective, we probably see
16 less demand on our system on a going-forward
17 basis.

18 PRESIDENT PICKER: So some decline in
19 demand from electricity. Do you see growth in
20 other sectors?

21 MR. SCHWECKE: No. We -- you know; I
22 really don't know. That's not my area. We have
23 not seen much demand growth in other areas. We
24 do see continuing new business but nothing
25 abnormal, growth-wise. I think it's offset a lot

1 by just, you know, energy conservation, building
2 standards, tighter homes, tighter envelopes,
3 individual customers use less, so we're seeing
4 that offsetting any of the demand growth.

5 PRESIDENT PICKER: And given the limited
6 experience you've had with your demand response
7 programs, which is kind of a timebomb reduction,
8 do you see any opportunities to actually improve
9 or increase the overall effectiveness of those
10 programs? Is it a pricing issue? Is it an
11 experience issue? Or is it a lack of suppliers
12 who really are proficient in this area?

13 MR. SCHWECKE: Again, that's not in my
14 area. I think we see, you know, the numbers of
15 the 10,000. I can't really say whether we can
16 actually increase it or not. No, I'm worried
17 about operating the system. Others are looking
18 at the demand response area.

19 COMMISSIONER GUZMAN ACEVES: Just a
20 couple of follow-ups on Line 235. You -- what
21 other variables do you have in constraining the
22 repair? You mentioned the Fish and Wildlife
23 permit. Is there --

24 MR. SCHWECKE: Well, so we got the Fish
25 and Wildlife permit. And it's basically just the

1 amount of work we have to do. And when you're
2 working out on a right-of-way out in the desert,
3 you basically have what could have a four- to
4 five-mile drive every day to and from the
5 worksite across the desert, across right-of-ways
6 in which you can only drive five to ten miles an
7 hour. So just the ingress and egress eats into a
8 good part of your day. And a lot of that is
9 because of, not as much during the winter, but
10 when we start getting into the warmer months,
11 it's the tortoise habitat and not being able to
12 drive the right-of-ways any faster than that.

13 COMMISSIONER GUZMAN ACEVES: And so what
14 is the timeline now?

15 MR. SCHWECKE: We're expecting to have
16 the Line 235 back, if everything goes well,
17 sometime at the end of April.

18 COMMISSIONER GUZMAN ACEVES: Okay. So
19 your proposal to hedge with Aliso is in duration
20 until April?

21 MR. SCHWECKE: Well, I think when you
22 look at it, because we have to -- this is what
23 concerns me, we have to then, at some point, run
24 an ILI, in-line inspection tool, through Line
25 235. Anytime we run one of those it worries me

1 that we find an immediate condition in which we
2 have to take the line out of service.

3 We also have Line 4000 in which we have
4 to do validation digs. We have to take that line
5 out of service to do those validation digs. I
6 would think that probably more like through the
7 summer to make sure that we are ready to go is
8 probably the more likely timeframe to have that
9 available is summer because I think when you look
10 at electric generation customers, they want that
11 ability to use that storage during their peak
12 period. Well, they have to have the opportunity
13 to put gas into storage to be able to use it in
14 the summer. So knowing that it would flow
15 through the summer period could be beneficial.

16 MS. ELDER: Any other questions? Then
17 we'll, yeah, we'll pass the slide clicker thing-
18 a-ma-bobber, which is a technical term, and Evie
19 will take it from here.

20 MS. KAHL: Thank you. Good morning,
21 Chair Weisenmiller, President Picker and
22 Commissioners. I'm here today on behalf of the
23 Indicated Shippers and the Energy Producers and
24 Users Coalition which is, essentially, a group of
25 overlapping companies who are large users and

1 producers of natural gas and electricity, and
2 also get engaged in the marketing of natural gas.
3 So in order to prepare for today, they prepared
4 me. I spoke with each of them individually for
5 the antitrust reasons Lana mentioned. So what
6 I'm going to provide you is kind of an overview
7 of the picture that I got in terms of a common
8 message.

9 And the most common message doesn't come
10 as any surprise to you because I've heard it
11 several times already today, which is it's the
12 supply-demand balance.

13 Aliso created some very challenging and,
14 in fact, threatening conditions. But it is the
15 pipeline outages and the supply constraints that
16 threw the market into a spin, and I'll show you a
17 picture of that shortly.

18 And while the problem seems pretty
19 apparent when you look at the numbers, the
20 solution isn't, and neither is the urgency for
21 the solution. So I'd like to get to that at the
22 end and talk about what are we doing about
23 pipeline maintenance.

24 But I wanted to start with a little
25 perspective, back to 2006, and Chair Weisenmiller

1 will remember this, 2005, 2006 the Commission,
2 the PUC, was looking at the question of how much
3 slack pipeline capacity do you need in order to
4 have supply diversity and in order to have, you
5 know, active price competition? And at that
6 time, SoCalGas' position was that you needed 25
7 percent more than your average year's demand.
8 And if you look at that today, that's probably
9 around 3.3 BCF, I think. And at the time that
10 the Commission made that assessment and SoCalGas
11 made those comments, they had Aliso Canyon in
12 full operation, so we had all of Aliso Canyon.
13 And even then they said to have active price
14 competition, you needed to have 25 percent slack
15 capacity.

16 And I guess I'll start with the first
17 slide here. And look, if you look in the lower
18 left corner, what you see is what happened to our
19 capacity. Starting in January of 2015, combining
20 receipt-point capacity with the storage
21 withdrawal, we were at 7.6 BCF. In October of
22 '17, we were down to a combination of 3.5. And
23 now we're around 3.9, so we're far, far, far
24 below what the PUC said was adequate and what
25 SoCalGas said was adequate for price competition.

1 And up on the screen right now I have a
2 map. I think you saw one earlier that looks
3 something like this. This is not a slice of time,
4 it is just kind of an overall view of receipt
5 points and constraints on the SoCalGas system.

6 So the green arrows are the receipt
7 points and you see there are many of them, which
8 is a good thing because we have a lot of supply
9 sources coming into California, but it can be a
10 hard thing for those sourcing gas. If you have a
11 maintenance outage or other condition on one of
12 the pipelines and you were planning on sourcing
13 your gas from that pipeline, now you have to go
14 rearrange your supply when there is an
15 interruption or when there is a reduction in
16 capacity. So your regularly seeing folks behind
17 the border trading to try to keep up with what's
18 going on with maintenance, outage and supply
19 constraints. So that's part of what goes on. And
20 there is a cost to that activity.

21 The red crosses or Xs are the constraints
22 on the system. And those aren't the constraints
23 today necessarily, but I wanted to give you a
24 feel for the pervasiveness of the constraints and
25 the outage problems on the system. It's

1 California production from time to time, it's the
2 northern zone, it's the southern zone, it's
3 everywhere. This isn't an isolated problem.

4 So I wanted to talk a little bit about
5 what the picture looks like when you put all
6 together on these constraints with supply and
7 demand and the price spikes.

8 So first, what you see before you right
9 now, that blue line is supply capability. So it
10 is kind of a combination of pipeline capacity to
11 the extent that there's supply behind it that is
12 available to the market at any time. And you can
13 see, it changes markedly over time. And,
14 obviously, more recently there have been some
15 very significant changes.

16 The next line is demand over time. And
17 so you can see, there are all kinds of different
18 spikes and demand that are going on. At the same
19 time, our capacity availability is changing.

20 And so if you look along that top line,
21 you can see pre-Aliso Canyon, some of the things
22 that were happening. And what you see in prices
23 is the prices, the red line here, they were
24 fairly stable, despite the changes in capacity
25 and supply and demand because there was still a

1 healthy difference between the supply and demand,
2 and that's the white area between the blue and
3 the green.

4 But as you see, the supply constraints
5 start coming on with Aliso Canyon Line 3000 which
6 was a two-year outage, Line 4000 and 235, which
7 is -- we're at 16 months at this point. That's
8 when the problems arise. And what you can see is
9 that white area between the supply availability,
10 the blue line, and the green has almost
11 collapsed. And so, not coincidentally, that's
12 when you see the price spikes happening between
13 the citygate and the border.

14 So from the perspective of our group,
15 it's a supply-demand problem, which is what
16 Rodger said. It's very clear that it's a supply
17 and demand problem.

18 And in addition, we're talking about a
19 lot of things today but the solution seems fairly
20 obvious, too, and I think Chair Weisenmiller has
21 been hinting toward that, look when the problems
22 arose, Line 4000, Line 236-A. The simple
23 solution is fix it, just do it. And I'll get to
24 that a little bit, as well, in terms of, you
25 know, what's really going on here.

1 As I said, when you look at the Line 4000
2 and 235A outage, it's been about 2 years, I guess
3 not 2 years, 16 months, and it was 2 years for
4 Line 3000, and I want to compare this with what
5 happened on the Enbridge system in British
6 Columbia.

7 In October of 2018, Enbridge had a
8 rupture on their pipeline. It was a 36-inch
9 pipeline, so SoCalGas' is a 30-inch pipeline. It
10 was in a very rural and remote area. And lo' and
11 behold, Enbridge managed to repair the rupture in
12 30 days. Granted, they didn't bring it back up
13 to full capacity in 30 days and they're still
14 working on that, but they repaired the rupture in
15 30 days in a rural area on a similar pipeline.

16 And so the question is: Why is it taking
17 us 16 months, 2 years to get these repairs done?
18 It's, from the outside, without any inside
19 information, it's very, very puzzling.

20 And I think another point I wanted to
21 make is it's puzzling because we really don't
22 have any information. I think it was
23 illuminating, Chair Weisenmiller's questions
24 today, about what is going on.

25 But another problem is the amount of

1 information that is available to the market. And
2 that information is critical because they're
3 making decisions about how to source supply, so
4 they're always looking at what's going to be
5 available and what's going to be constrained.

6 And today, what we have available in the
7 market is a daily maintenance schedule that
8 SoCalGas posts. And on there they post the line,
9 the start date of maintenance, and then the end
10 date of maintenance, and then a description.
11 Virtually all of the end dates on the maintenance
12 schedule are TBD. So what you see is you may
13 have a start date and that start date may or may
14 not hold and you have absolutely no idea when
15 that line is going to come back. And if you look
16 at the descriptions that they provide, you know,
17 I'm looking at one restriction where we're
18 talking about 4000 and 235, it says, "Restricted
19 operation of Line 4000 and Line 235 outage."
20 That's the message. That's all we know.

21 And so you've got a whole market sitting
22 out here trying to figure out what to do, where
23 to source the supply, where the constraints are
24 going to be, how long they're going to last, and
25 that's what we get for a message. We don't have

1 any information.

2 And I'm going to come back to Enbridge
3 again because when Enbridge had their rupture, if
4 you go back and look at what was going on there
5 they had, I think I counted nine notices between
6 the time it occurred and the time they completed
7 the repairs. And this notices, they were
8 providing information, like we are building an
9 access road so that we can get to the site. That
10 was one of the messages. Another message was
11 we're laying down construction. They're giving
12 very detailed information about what's actually
13 going on in the project.

14 We don't have any of that. We have very
15 little information about what's going on with
16 235. And rumor has it, nothing is going on with
17 Line 4000. So we sit out here and we wonder,
18 when is this problem going to be solved?

19 And I think there has been a lot of
20 expression that we've dodged a bullet over and
21 over and over again. But the supply-demand
22 imbalance is so tight and the system is so
23 exposed that we can't really afford any upstream
24 interruptions on upstream pipelines. So we are
25 really kind of living on the precipice here each

1 and every day. And for the businesses that I
2 work with that are running refineries or running
3 oil and [gas] production, that's threatening;
4 right? Because the supply reliability is
5 critical. And as we see in the electric side, as
6 well, it's very, very critical.

7 So in terms of what can we do about this?
8 I think the first thing is, and I'll ask Rodger,
9 better communication. Let's start to provide
10 more information. Let's provide regular
11 information on your outages in terms of what
12 steps have you taken? Where are you in the
13 process? Where is permitting?

14 And then the second point, I'll say it
15 again, just do it. I mean, at some point here
16 it's starting to look strange that it's been this
17 long and we can't get it fixed. With all the
18 talent in this room and all the resources, if
19 it's a permitting problem, we can fix that;
20 right? You can fix that. If there is a
21 workforce problem, that can be fixed. There are
22 all kinds of problems that could be there.

23 I would suggest we also think about
24 whether there's an incentive problem here. You
25 know, to date, it is the end users that are

1 bearing the costs of all of this. It's not
2 SoCalGas. And so the query is: Is there enough
3 motivation for SoCalGas to complete these repairs
4 since they aren't feeling the same pain their
5 customers are feeling?

6 So I guess those would be our two
7 requests, is better communication, and let's just
8 do it. Let's just get this done.

9 Thank you.

10 COMMISSIONER DOUGLAS: So I have
11 question, and your comments were a really good
12 segue to it. I'm actually going to ask the
13 question or make a comment more to SoCalGas. But
14 you know, I have seen a lot of permits and a lot
15 of permitting processes. And I'm very familiar
16 with the fact that, as you say, there are things
17 you have to do when you have a permit, and there
18 are timeframes and sequences. And sometimes
19 there are seasonal challenges and requirements,
20 and so I'm aware of all that.

21 And at the same time, I have, in my time
22 on the Commission, sometimes seen permitting or
23 permitting agencies kind of held up as a reason
24 for delay. You know, when you really, really
25 look at nuts and bolts, either it really kind of

1 wasn't or there were problems that could have
2 been solved with proactive action or asking for
3 help or basic coordination and things that we
4 know how to do.

5 So I'd like to invite you to comment on
6 that. But I'd also be very interested in a more
7 detailed conversation, maybe subsequently, about
8 the permitting requirements and timelines and how
9 you see yourselves able to potentially accelerate
10 schedule and keep the schedule?

11 MR. SCHWECKE: So, excuse me, you asked a
12 lot of questions -- or in your statement. You
13 know, we started the -- once we knew the work
14 that we had identified, you know, we started the
15 permitting process. There are multiple agencies.
16 I only mentioned one, which is the last one. And
17 we actually went to them and they have their
18 timeframe for review. They have their
19 requirements. When they came back with their
20 initial response of the permit, it would,
21 basically, probably not allow us to do the
22 project.

23 We have now accepted conditions of the
24 permit. They're probably precedent setting. In
25 other words, I'll give you an example. We have

1 to stop work in any wash when the forecast of
2 rain is 20 percent.

3 So when you talk about getting out there
4 and mobilizing and demobilizing, to be able to go
5 out there and then all of a sudden you have a
6 forecast of 20 percent rain, you have to stop
7 work and you have to leave the site.

8 So that permitting process extends for
9 six to nine months, that's if we don't have to
10 have a CEQA requirement. This is a repair,
11 emergency repair.

12 So that's -- I don't know if I'm
13 answering your question or providing a comment,
14 but it's just, it's frustrating for us when we
15 have put together a plan and mitigation for the
16 potential issues that we have used in the past.

17 Another example is that we used to be
18 able to file for an individual incentive project.
19 In other words, if we had, you know, 20 creek
20 crossings, we could add for one project. Now we
21 have to submit 20 different ones, one for each of
22 the creek crossings.

23 So there's a lot more, as far as the
24 requirements, that we have today than we've had
25 in the past and they've become more and more

1 onerous.

2 COMMISSIONER DOUGLAS: So that's helpful
3 and it's also anecdotal, and understandably so.
4 You weren't necessarily expecting the question.
5 But it would probably help me to have a more
6 detailed understanding then of, again, timelines
7 and the big picture on that.

8 We have, and a number of us on this dais
9 right now, lived through some pretty detailed
10 work around permitting and I think we have an
11 understanding of that. So on one hand, I hear
12 you, that you may have encountered some
13 conditions that you consider onerous. And at the
14 same time, you know, this is a high priority and
15 there are sometimes, you know, there are -- I
16 guess I don't have a good enough sense of the big
17 picture from the examples.

18 MR. SCHWECKE: Yeah. And maybe we can
19 take it offline and we can talk --

20 COMMISSIONER DOUGLAS: Sure.

21 MR. SCHWECKE: -- more about some of the
22 issues around that.

23 COMMISSIONER DOUGLAS: Sure.

24 CHAIR WEISENMILLER: Yeah. Um-hmm.

25 COMMISSIONER RANDOLPH: Can I just follow

1 up on that a little bit? Because it's -- you
2 know, there's obviously going to be permitting
3 issues. But then what about your workforce? You
4 know, what are the opportunities to just increase
5 the pace of work by making sure that you have an
6 adequate workforce? As you're moving forward
7 with each segment, are you able to effectively do
8 the work as soon as you're permitted to do it?

9 MR. SCHWECKE: I would say, yes, we are.
10 Most of the work that is being done is done by
11 contractors on these types of projects. And we
12 have maximized the amount of contractors we can
13 use within the limited space we have and the
14 limited ingress and egress we have. So we've
15 maximized those resources.

16 We are working what is limited hours
17 because it is unsafe to be working in the desert,
18 necessarily, in these type of projects during the
19 nighttime hours. Also, you end up with
20 contractor fatigue.

21 We're not having an issue with resources.
22 We are maximizing those and we're accelerating
23 those. We have multiple locations and sometimes,
24 at those locations, we'd actually delay work if
25 we tried to bring more people on.

1 CHAIR WEISENMILLER: Yeah. I still think
2 that it would be a good opportunity to see if the
3 PUC and permitting folks, the Energy Commission
4 permitting folks could figure out a way to
5 expedite some of the permitting. Now you're
6 pretty far down the path but, you know, let's at
7 least try.

8 COMMISSIONER RANDOLPH: Oh, we have made
9 ourselves very available in terms of working with
10 other agencies and asking for help. So I don't
11 think they -- I hope you're not saying that we
12 haven't been because we definitely have been
13 making ourselves available in terms of trying to
14 facilitate the back and forth. So I'm not sure
15 that's really the issue.

16 MR. SCHWECKE: So we did come and ask for
17 assistance. That assistance was then directed to
18 the Governor's Office. Whether that assistance
19 allowed us to get the permit now, had we not had
20 that, it would have been more months. But we did
21 come to try to work on everything internally to
22 try to move that forward. So we're just happy to
23 have the permit now that there is not any delay.
24 And we've actually accelerated work because our
25 original plan was to end in, you know, the April

1 timeframe. And as we were delayed really
2 starting the work, it's been about six weeks, I
3 think, now, but we're still accelerating the work
4 as much as we can to get it done in the April
5 timeframe.

6 MS. ELDER: I thought I'd jump in with
7 one little question.

8 Rodger, remind me, there's still non-
9 balancing account treatment for non-core
10 throughput, isn't there?

11 MR. SCHWECKE: That is correct. We are
12 completely decoupled from throughput with regard
13 to our (indiscernible).

14 MS. ELDER: And, Evie, you were
15 talking -- we were talking earlier a little bit
16 about some of your clients and their experience
17 with maintenance of really important, reliable
18 facilities and how they do that and how it seems
19 to be kind of different than what we see in the
20 maintenance notices on ENVOY. Could you
21 elaborate a little bit?

22 MS. KAHL: I think what you may be
23 referring to is the discussion we had about risk
24 management and safety. And I think that's
25 something that the CPUC has been working on since

1 San Bruno, so we're eight years out now. And
2 there's been a lot of proceeding going on around
3 safety, risk management, reliability and
4 planning. And the question is: With all that's
5 taken place, with all the encouragement, with
6 everything that's been going on, now is it that
7 today we're still in a position, you know,
8 looking back at the map where we have all these
9 different outages coming up and difficulty
10 resolving them?

11 So, I mean, we're supposed to have a risk
12 management system that allows forward-looking
13 management of these problems. And so do we need
14 to take another look at that? Is it working
15 properly? Is it enough? I think that was the
16 point I made.

17 MS. ELDER: Right. And I realize we're
18 over our time allotment.

19 But, Rodger, I thought I'd ask, when you
20 bring 235 back on, and you think that's going to
21 be in April, you then have to do some ILI work.
22 And could you remind the Commissioners how long
23 it will usually take to do the ILI? And then I
24 think you have to wait to have a report to come
25 back. Talk a little bit more about that process.

1 MR. SCHWECKE: So every time we run an
2 in-line inspection tool, or commonly referred to
3 as a pig, we basically get an initial report. To
4 actually run the tool is probably a day or two at
5 the most, assuming you get good data as you run
6 the tool. The issue we have is that you get a
7 report back from the vendor fairly quickly on
8 immediate conditions, in other words, if
9 something just jumps out. An immediate condition
10 is where you actually have to take action
11 immediately and that is, either reduce the
12 pressure in the pipe or taking it out of service,
13 and then fix that immediate condition. And then
14 several months thereafter you get the full report
15 which identifies the anomalies along the pipe.

16 Think about, you know, thousands if not
17 tens of thousands of datapoints that you have and
18 it identifies anomalies that now says you have a,
19 an example, a wall loss of 60 percent. That's
20 not necessarily an immediate condition based on
21 the pipe and pressure. But what it amounts to,
22 it says, well, that tool says it's 60 percent.
23 Is the tool within its tolerance? Because I
24 think what we've seen on Line 235 in some of the
25 validations was the tool was not in tolerance.

1 The tool was reading anomalies, missed anomalies
2 by 10, 20, 30 percent. And when you have a
3 situation where you have a 60 percent anomaly and
4 if that tool tolerance is outside 30 percent,
5 that's a 90 percent. That would be an immediate
6 condition.

7 So what's we're finding and it's really
8 for the pipelines in that north desert zone,
9 that's where we're finding the tool tolerances
10 just aren't living up to what the vendor specked
11 it; elsewhere it is.

12 So that's what has drawn a lot of concern
13 because the issue with the potential for rupture
14 is great. And we're using, you know, various
15 risk management tools and risk ranking and
16 looking at what is the probability that we could
17 have another incident? And some of the numbers
18 that we're getting back are very disturbing for
19 me to bring that line back into service.
20 Fortunately, enough, on Line 235, no one got
21 hurt. Very, very fortunate.

22 So I'll leave with that.

23 MS. ELDER: And when you are done with
24 Line 235, do you by chance have a sense of how
25 much of 235 will have effectively been replaced?

1 Are we talking -- I don't know if the problem is
2 just with the little segment that ruptured or is
3 there work further along the line, along the
4 right-of-way, that sort of thing?

5 MR. SCHWECKE: Well, you know, that whole
6 section of Line 235 is about 50 miles, give or
7 take. I think we're, in this whole process,
8 probably replacing-- I'll have to check-- but
9 it's several miles of pipe because of the rupture
10 anomalies we've had. It's different. It's not
11 one section of pipe, it's several different
12 sections.

13 COMMISSIONER GUZMAN ACEVES: Can you
14 just -- one follow-up question.

15 Based on what was just said and certainly
16 the worst case scenario, a question for Evie, are
17 some of your clients, particularly some of the
18 more lucrative ones, like the refineries,
19 actually stepping back and seeing, given the
20 amount of expenditure on these higher cost of
21 electricity from these gas prices or other costs
22 that you're using gas for, are you looking to
23 switch your fuel to a different non-fossil-based
24 source, which may be ironic for the refineries?
25 But is that something that you're stepping back

1 from, given this uncertainty and fluctuation?

2 MS. KAHL: Yeah, I can't speak for their
3 internal thoughts about what they're planning or
4 looking for at the refineries. I can say that it
5 effects the use of alternate fuels, which is
6 refinery-produced gas. Certainly, there's more
7 use made of the refinery-produced gas. But with
8 respect to future plans, I can't comment.

9 COMMISSIONER RANDOLPH: Can I ask one
10 more question?

11 This is a question for Evie and her chart
12 with the -- that illustrates the price spikes.
13 And this is more of an educational question of
14 trying to understand why you do see gaps where
15 your demand is still high and you're still
16 limited in your capacity but the price is not
17 necessarily high. Like explain. Can you kind of
18 walk me through?

19 MS. KAHL: I really wish I could --

20 COMMISSIONER RANDOLPH: Okay.

21 MS. KAHL: -- but I'm already beyond my
22 comfort zone as a lawyer.

23 COMMISSIONER RANDOLPH: Okay. That's
24 fair.

25 MS. KAHL: What I can say is I know there

1 is some lag in the behavior sometimes to what's
2 going on. And obviously, market information is
3 going to change what you're thinking about those,
4 you know, the supply and demand balance. So I
5 can't really comment beyond that.

6 COMMISSIONER RANDOLPH: Okay. Thank you.

7 MS. ELDER: With that, I'm not seeing
8 anybody else pop up with a question, so we'll
9 wrap up this panel.

10 And that means I'll turn this back over
11 to IEPR boss, Heather.

12 MS. RAITT: Great. So thank you. And
13 we're conferring on timing for a minute. Okay.
14 Super.

15 So we'll move on to the next panel, and
16 it is on Natural Gas Price Impacts and Electric
17 Generation Market.

18 And if you could go ahead and we'll have
19 our panelists come to the tables. We'll have a
20 place for you. And the Moderator is Simon Baker
21 from the CPUC.

22 MR. BAKER: Good morning, Commissioners.
23 Once again, I'm Simon Baker, the Deputy Director
24 of the Energy Division of the PUC. And the
25 purpose of this panel is to hear from the

1 electric generator community and some of the load
2 serving entities that have been experiencing some
3 of these price effects on the electric side. And
4 this is a really complex set of issues, so
5 looking forward to the expertise of the group to
6 help to unpack some of this for all of us in
7 terms of how these knock-on effects happen from
8 the gas system onto the electric system.

9 So we'll do an initial round of opening
10 remarks and ask the panelists to please try to
11 keep your remarks to about five to seven minutes,
12 given the time, and then we'll take questions, as
13 well, from the dais. A reminder to everyone to
14 please introduce yourself as you begin to speak.

15 So we'll start with you, Colin, Mr.
16 Cushnie.

17 MR. CUSHNIE: Good morning,
18 Commissioners. My name is Colin Cushnie. I'm
19 the Vice President of Power Supply for Southern
20 California Edison. And I definitely appreciate
21 the opportunity to be here today to discuss
22 what's happening in Southern California.

23 As Simon noted, you know, the
24 interrelationship of the gas and power system is
25 quite complicated. There's a lot of linkages.

1 But what I'm going to try to do here is keep it
2 simple.

3 And when I think about the challenges
4 before us, I think of it in three dimensions.
5 The first dimension is the physical system
6 constraints, which there was a fair amount of
7 discussion on just before this panel, and that's
8 the supply and demand tensions that we have
9 today. The second dimension is the scheduling
10 conventions and the impact that the Gas Company's
11 overall pricing structure has on power prices.
12 And then the third dimension is the economic
13 incentives that are presented to electric
14 generators participating both in gas and power
15 markets.

16 And, Simon, is there a --

17 MR. BAKER: The clicker is right there.
18 Thank you.

19 MR. CUSHNIE: So we've already had some
20 discussion around the physical constraints on the
21 SoCal system. The Aliso Canyon field is greatly
22 limited, just really operating for reliability
23 purposes. And there's a significant amount of
24 pipeline maintenance.

25 And so what's -- you know, moving into

1 the dimension of how do gas and power scheduling
2 conventions interrelate and impact power prices,
3 if you look at the bottom of the chart here for
4 those that have it, the way the gas system
5 operates is most gas supplies, probably greater
6 than 90 percent of gas supply for electric
7 generators, large shippers, is procured early in
8 the morning, say by 7:00 a.m. for the following
9 days operations. And we schedule that gas on the
10 Gas Company's system by 11:00 a.m.

11 Meanwhile, on the power side, we are
12 submitting our electric bids to the CAISO at
13 10:00 a.m. and we're -- and so we have some idea
14 of what gas prices are because we just transacted
15 at the market place, and so we put those gas
16 prices into our bid curves. But we don't know
17 what our actual generation schedules are going to
18 be until about 1:00 p.m. So we've bought and
19 scheduled our gas, over 90 percent of the gas
20 that we're flowing, before we know what our power
21 schedules are.

22 And the OFOs that get called have been
23 almost entirely five percent balancing
24 tolerances. And for most generators, a five
25 percent balancing tolerance is darn near

1 impossible to stay within electric because
2 there's just so much uncertainty and variability
3 on the electric system. There's a lot of things
4 on the electric system that can greatly change
5 your generation dispatch on a day-to-day basis
6 that may not be knowable by the generator at the
7 time that they're bidding.

8 So at one o'clock, when we get our power
9 schedules back, we do have an opportunity to try
10 to change our flow in gas supplies. There's four
11 more nomination cycles on the gas system.
12 There's one still on a day-ahead basis at 4:00
13 p.m.; we call that cycle two. And then the other
14 three opportunities are intra-day opportunities
15 the following day but very, very little in the
16 way of available gas. And your gas supplies are
17 prorated because you're already in the middle of
18 the scheduling day.

19 So right here, we just have sort of a
20 structural challenge for electric generators to
21 be able to accurately predict their gas burns and
22 flow gas accordingly.

23 The OFO impact is particularly pronounced
24 when the Gas Company calls or needs to call high-
25 level OFOs. So we saw this in the summer last

1 year. The Gas Company had called what we call a
2 Stage 4 OFO, which meant that if you were out of
3 tolerance, you were going to pay a \$25.00 per
4 million BTU penalty. Keep in mind, the average
5 price of gas at the border is running about
6 \$4.00, so that \$25.00 penalty is significant. It
7 would translate to, you know, let's just say
8 that's a \$200 to \$250 per megawatt hour price of
9 power. And so generators will be, to the extent
10 that they may have incremental dispatches to the
11 CAISO that they weren't expecting, they'll need
12 to bake that at a very high penalty price into
13 their bidcurves.

14 And it just sort of becomes a self-
15 fulfilling event at this point in time that the
16 market psychology is concerned about high penalty
17 prices, so you know, the electric prices rise in
18 response to that to prevent dispatch if there's
19 not gas flowing. And customer costs are
20 unnecessarily increased.

21 A key consideration here, I have it up
22 here there on a bullet point, is it only takes
23 one generator that believes they're exposed to
24 that penalty price to put that \$25.00 per million
25 BTU penalty price into their bid curve and for

1 the CAISO to dispatch that resource to now set
2 the market clearing price on that much higher
3 marginal cost of gas. So it could be a very
4 small package of gas that led to tens of millions
5 if not hundreds of millions of dollars of
6 increased power costs.

7 So I know we're, you know, short on time
8 here, but there are a few times things that I
9 think are also important for the Commissioners
10 and folks here to realize.

11 There's a number of incentives or
12 disincentives, depending on how you think about
13 it for, you know, how electric generators
14 participate in the gas market. CAISO
15 interconnected electric generators in particular,
16 I refer to them as CAISO EGs, they recover their
17 fuel costs when they are dispatched by the CAISO.
18 So if they buy gas, they only get cost recovery
19 for that gas if they are operated in CAISO's
20 market and get market revenues from the power
21 side.

22 And so, you know, in a normally
23 functioning gas market, most generators will
24 typically not procure firm pipeline capacity or
25 firm storage because they have a monthly payment

1 that they have to make for that transportation
2 capacity, that storage, that they are not
3 necessarily able to recover through the CAISO's
4 marketplace. If they were to do it, they would
5 be, you know, speculating that they could bid
6 high enough and be competitive enough to clear
7 the market and get enough revenues to collect
8 those costs.

9 I'd say investor-owned utilities, like
10 Edison, municipalities are positioned differently
11 because, in Edison's case, we have an ERRA
12 balancing account, so we can go out and buy
13 storage and pipeline capacity and recover those
14 costs, regardless of whether the resource
15 operates or not. But Edison controls a small
16 percentage of the gas-fired generation in the
17 Southern California area, so it's the other
18 generators economic incentives or disincentives
19 and their bidding practices that are what really
20 influences power prices in many hours, and
21 therefore exposes electric customers to the shock
22 impact of high gas prices.

23 Just a few other points here I'd like to
24 make before touching on possible solutions.

25 When the backbone system is constrained,

1 like it is on the SoCal system and there is no
2 storage available to purchase, we have a broken
3 market, if we want to call this a market.
4 Markets don't function when there's insufficient
5 physical capability to meet all the demand.

6 And so, you know, despite the fact that,
7 you know, generators are taking all action
8 appropriate, I assume, on a daily basis to flow a
9 sufficient amount of gas, they've become price
10 takers at the SoCal citygate. And so whatever
11 the marketers are able to command for gas prices
12 is what's going to set the market clearing price,
13 and that ceiling increases the higher the threat
14 of an OFO penalty price. So if we're going from
15 a \$5.00 penalty phase to a \$25.00 penalty phase,
16 that becomes sort of the de facto ceiling that
17 market participants are willing to pay to avoid
18 being short on gas.

19 A few other points here which just, I
20 think are really important to remember.

21 We can't assume that all electric
22 generators are necessarily concerned about
23 controlling gas prices. Electric generators are
24 paid at a market clearing price. And so to the
25 extent that they have what we refer to as

1 inframarginal resources, resources that are in
2 the money, having another generator exposed to
3 high penalty price, paying a high gas price,
4 putting it into their bid curve will increase
5 power prices and it will increase the market
6 rents that the inframarginal generators captured.
7 So, you know, it's just another version of the
8 hockey-stick bidding that we saw during the
9 energy crisis. But again, I won't say that it's
10 anyone being a bad actor. Folks are just
11 responding to the economic signals that they
12 have.

13 At least in Edison's case, you know,
14 Edison, as I mentioned, does not control most of
15 the gas-fired generation in Southern California.
16 We did for a period of time. So these IPPs are
17 now responsible for bidding their generation
18 resources into the marketplace. They are not
19 responsible for electric system reliability.
20 They're not responsible for retail customer cost
21 impacts. So we don't have least-cost dispatch
22 occurring, presumably, on these resources like
23 the utilities do. And I'll leave it at that.

24 Final, final slide here, and my apology,
25 Simon, we were asked to talk about some of the

1 recommendations for potentially addressing the
2 situation. So recognizing that as long as we
3 have a constrained physical system, we're going
4 to be limited in what we can do to completely
5 address the situation.

6 But one thing that we could immediately
7 do, and Edison and SCGC have a PFM in front of
8 the Commission on this, is we could reduce the
9 maximum penalty price that we charge, maybe just
10 electric generators if you wanted to do it that
11 way, but that you would charge non-core shippers
12 in the OFO events. The level of price of the OFO
13 does not do anything to change our incentive to
14 deliver an appropriate amount of gas.

15 You know, Edison in particular has an
16 incentive to have a reliable gas and electric
17 system, we are a utility. And all the \$25.00
18 penalty does is means we'll pay more for the same
19 amount of gas that's flowing at the border if
20 there is, as you saw on some of the other slides,
21 no ability to flow additional gas. All we're
22 doing is saying pay more and more and more for
23 the gas that is available and let's impact power
24 prices through the function of that very high
25 penalty price.

1 Things we could do in the near term, and
2 I'm happy to answer, you know, questions, you
3 know, in detail on this later, I think, you know,
4 there are a fair number of days where the system
5 is constrained and where, you know, where the
6 core had under-forecasted its gas demand, that
7 will happen. But the gas balancing rules
8 actually prevent the core from trying to bring in
9 more flowing supplies because, in doing so, then
10 they would be out of balance with their forecast,
11 even though their forecast was wrong, their
12 forecast was below the actual flowing supplies.
13 So in the winter when the core is 60 percent of
14 demand and they've under-forecasted their usage,
15 we don't want to have an artificial constraint
16 telling them not to deliver more gas. We want
17 them to actually deliver more gas.

18 Something else that we can do is, in
19 recognition that the system is constrained, and
20 as regulators, you know, there is an obligation
21 to ensure just and reasonable rates and services,
22 is we could temporarily suspend the backbone
23 transportation system that the Gas Company
24 operates under right now.

25 What happens today is that shippers, as

1 Mr. Schwecke said, that had acquired firm
2 capacity on the backbone system, they're the ones
3 that have access to the gas at the border. And
4 then they're the ones that get to set the price
5 of the gas at the citygate. Electric generators
6 which do not have firm backbone capacity, either
7 because it's not available or they don't have the
8 incentive to buy it, can't access gas at the
9 border. They're price takers at the citygate.

10 So by temporarily suspending that tariff,
11 we could revert to our historical system where
12 all shippers are treated equally at the border
13 and we would just prorate gas supplies as
14 shippers tried to bring gas in.

15 A couple other very quick things here.
16 There's sort of a nuance in the way the penalty
17 structure works. There's daily penalties for
18 being out of balance and then there's monthly
19 penalties for accumulative monthly imbalance.

20 Right now, at least speaking for Southern
21 California Edison, when we see that the Gas
22 Company says they have a low OFO, so they need
23 more gas in the system, we will buy us our
24 procurement to delivery more gas to the system.
25 But what that can do if we have, you know, a

1 series of days of where they're low OFOs called
2 and we've over delivered, we will then, on a
3 monthly basis, be considered to have over
4 delivered gas and be subject to a penalty for
5 having over delivered gas.

6 So I think if we could change those rules
7 to not penalize shippers who deliver gas in a
8 contrary direction, in a way that helped the
9 system be more reliable.

10 And then finally, as we think about where
11 California is headed, you know, we're hoping to
12 rely a lot less on gas on the electric system as
13 we decarbonize the electric sector. We probably
14 should just really rethink the role of natural
15 gas as a fuel source for the electric sector and
16 perhaps move to a full requirements cost-based
17 gas supply tariff system where we would look to
18 the Gas Company to provide gas on a cost basis --
19 or cost of service basis, excuse me, and then
20 require electric generators to use that in their
21 burner tip price through the resource adequacy
22 mechanism. That will allow the CAISO to provide
23 better forecasts of overall aggregate gas demand,
24 and for the operator to therefore ensure that the
25 right amount of gas is flowing on the system.

1 Today, with multiple generators, we're all
2 individually trying to forecast our gas demands
3 and we may collectively over or under forecast
4 because we're seeing the same market signals, and
5 that puts a lot of stress on the pipeline system.

6 And I think at this point in time, you
7 know, our efforts to decarbonize the electric
8 sector are going to be put at risk if we continue
9 to have small amounts of gas significantly
10 increasing the price of power on the system. It's
11 going to put a lot of stress on other sectors
12 that may have been looking to use electricity to
13 decarbonize their sectors.

14 So with that, I'll stop. Thanks Simon.

15 MR. BAKER: Thank you.

16 Chair Weisenmiller, did you want to go
17 with questions from the dais now or hear from the
18 panelists before?

19 CHAIR WEISENMILLER: Yeah. I thought,
20 probably, I was going to suggest we go through
21 all of it and then ask questions. I certainly
22 have some for Colin, but probably better --

23 MR. BAKER: Okay.

24 CHAIR WEISENMILLER: -- just to roll on.

25 MR. BAKER: That sounds good. Okay.

1 CHAIR WEISENMILLER: Okay. Thanks.

2 MR. BAKER: Kendall?

3 MS. HELM: Sure. Good morning. My name
4 is Kendall Helm and I am the Vice President of
5 Energy Supply for SDG&E. Thank you for inviting
6 me today. I don't have a presentation or
7 extensive opening remarks, but I'm happy to
8 answer your questions and those that Simon may
9 raise for discussion.

10 I do want to remind you that I'm here
11 today in the capacity that we -- I oversee the
12 purchasing of gas for our electric generation.
13 So the information perspectives I'll provide are
14 those of a market participant. It's SoCalGas
15 that provides sort of the gas service to our core
16 customers, so that's one important
17 differentiator.

18 The other thing that I'll just say before
19 we get started is I think at the 10,000-foot
20 level, SDG&E does purchase most of our gas at
21 SoCal citygate for our electric generation. And
22 as such, we certainly are concerned about the
23 high SoCal citygate prices, and we've seen that
24 translate into our power prices.

25 We do, as others have mentioned here

1 today, see it ultimately as a supply and demand
2 issue, and that there are a number of structural
3 constraints that have contributed to that --
4 thank you -- a number of structural constraints
5 that have contributed to that. I don't know that
6 we necessarily see any one structural constraint,
7 like Line 235 being the particular constraint
8 that causes the problem, but much more a host of
9 factors that reach a tipping point, both on the
10 supply and demand side, and that's where you see
11 the price spikes.

12 Certainly, our access to information as
13 electric generators, whether it comes through the
14 timing of the CAISO bids, information can
15 exacerbate those constraints. But at the end of
16 the day, I think I'm a fan of the idea that the
17 simplest solution is usually the best. And so I
18 think SDG&E would first prioritize what we can do
19 to address some of those structural constraints,
20 and there were a host of factors raised on the
21 first panel. But I think that's where we'd like
22 to first see our actions.

23 We are open and willing to considering
24 and analyzing different kinds of market
25 interventions to the degree we can't address the

1 structural constraints. But I would remind us
2 that market interventions do require, I think, a
3 good amount of analysis to understand sort of the
4 pros and cons because they typically introduce
5 both intended and unintended consequences, both
6 on the positive and negative, so I'm happy to
7 talk more about that as we go through the panel,
8 but I'll stop there.

9 MR. BAKER: Thank you, Kendall.

10 So next, we're going to go to Jan Smutny-
11 Jones.

12 MR. SMUTNY-JONES: Good morning. I'm Jan
13 Smutny-Jones, CEO of the Independent Energy
14 Producers Association. And we've been around for
15 a very long time under a number of different
16 markets. We represent a significant amount of
17 the independently-owned gas fleet here in
18 California, as well as pretty much one of
19 everything in the renewable sphere, as well as
20 energy storage, so we're pretty active in the
21 energy markets.

22 I want to say that -- let me get the
23 clicker, wherever that is -- I'm not going to
24 speak a lot off of slides, but I think between
25 some of the early statements that were made with

1 respect to supply issues here, the map that
2 popped up earlier, and I think Evie had a map
3 that showed, I think, three or four different Xs,
4 I took a map out of a presentation that was done
5 in May of this year, there are no fewer than four
6 red Xs which are outages, and there were two
7 additional yellow Xs which were restrictions.

8 Now if you looked at the map of Southern
9 California as a human body and those pipelines as
10 arteries, there are certain days of the week that
11 that body wouldn't be able to get out of bed.
12 And I think that's the problem we're facing here
13 from the standpoint of restrictions on the system
14 that are causing supply problems for people who
15 are generating electricity in Southern
16 California.

17 So the -- you can see I'm -- there we go.
18 Okay.

19 So this is -- Colin's was a lot prettier
20 than mine. This the procurement schedule. And I
21 just put it up there because when I was trying to
22 sort this out in my own brain in terms of who's
23 scheduling what, when, it could be kind of
24 confusing. But the key issue here is that the
25 markets are not aligned and that may not be a

1 problem under normal circumstances. But when the
2 system becomes stressed, that misalignment leads
3 to issues in the following day.

4 So the California ISO market pretty much,
5 you know, Colin bids his resources in, my members
6 bid their resources in at one o'clock -- earlier
7 in the day, probably at ten o'clock, then we get
8 a schedule back from the ISO at one o'clock and
9 that pretty much tells you what you're supposed
10 to be doing tomorrow. Things change between that
11 time point and when you're actually generating
12 electricity and that's where the pricing issues
13 become pretty significant, particularly as you
14 get into the actual day of because now you have
15 significant issues that could be problematic.
16 That's just a description of what's going on
17 here.

18 I wanted to put this out here because
19 this is, you know, sort of -- I think you saw in
20 the aggregate 300-and-some-odd OFOs since 2015,
21 but I think this tells you a little bit more. In
22 2015, you had three. Okay. In 2018, you had
23 136. Now if that's one OFO a day, and I may be
24 oversimplifying that, that's a third of the days
25 where this popped up as a problem or it popped up

1 as an issue. Now, you may have had multiple OFOs
2 on any given day, I don't know. I'm not an
3 expert in that area. But the point is there's a
4 significant number of OFOs that are occurring now
5 that historically did not occur, historically, so
6 the system has changed significantly.

7 As was indicated earlier, the current
8 generation fleet, and this is operating
9 differently than it has historically, but the
10 current generation, electric generator fleet that
11 operates under natural gas, there's basically two
12 types of plants on there. One are generators
13 that have contracts with the IOUs and those are
14 tolled, so the IOUs are responsible for the gas
15 for those power plants. And the others are
16 market generation that basically sells into the
17 ISO market on a daily basis. And there may be
18 days they don't participate, there are other days
19 they do.

20 Some of the questions that were asked,
21 they do not -- by and large, most of them buy at
22 the citygate for two reasons. One, that's where
23 they are. Two, given the way that they are
24 dispatched and how they participate in the market
25 today as opposed to, perhaps, ten years ago, they

1 do not have any sort of firm transmission rights
2 from the border to the citygate. So they're
3 buying, basically, at the citygate. In a similar
4 venue -- pardon me, a similar view, they are not
5 purchasing -- they are not, basically, hedging
6 and for the same reason. They're basically --
7 how they operate, when they operate depends on a
8 lot of fairly short-term market issues, so you
9 can be on the wrong side of a hedge. So you're
10 not going to hedge your resources if you don't
11 know with some sense of certainty what that's
12 going to look like.

13 And so at any rate, so that's basically
14 how that operates. Most of those resources that
15 are popping into the ISO market are going to be
16 sort of bid merit order resources, so they may
17 have -- they may not have the lowest heat rate
18 out there. They're popping into the system as
19 they're needed. They are required, if they're in
20 the market, to operate, so they take that very
21 seriously. They're not allowed to say, well, I
22 didn't, you know, I didn't believe I was going to
23 need that much additional gas so I'm not going to
24 operate. They basically have to buy that gas in
25 the daily market, which I think is, if you looked

1 at Evie's slide, can be a significant challenge.

2 One of the challenges for the generators
3 in that mix is that if they are outside of 125
4 percent of the bandwidth that the ISO has
5 utilized to establish what the price of gas is
6 and it's a lagging index, the only way to
7 basically fully recover their gas costs is to
8 file a 205 at FERC, which, to us, does not seem
9 to be a particularly healthy way of dealing with
10 issues. It's time consuming and it's not
11 particularly helpful.

12 There is a potential for resolving this.
13 And I know that there's an active issue at the
14 ISO which we may hear more about, something
15 called a CCDEBE, which is not a hip-hop artist.
16 It stands for Commitment Cost and Default Energy
17 Bid Enhancements. And what that would basically
18 allow for is for this issue to be more or less
19 resolved, you know, in the ISO markets where
20 these actual gas prices can be transparent and
21 audited.

22 So the one other thing I want to -- I
23 agreed with a significant amount of what was
24 previously spoken of by other folks with regards
25 to supply. You know, the ISO operates their

1 schedules on least-cost dispatch. And I'm
2 assuming that when they tell plants to operate,
3 that's the least-cost plants that's supposed to
4 be operating.

5 The first I've heard of hockey-stick
6 bidding was today. I am not sure that's going on
7 at all and we may have to have a discussion on
8 that further because I certainly don't want the
9 dead cat of high prices to land on the porch of
10 the IPP industry. I've been in that movie
11 before, thank you very much, and I don't sense
12 that that's the case. We are basically price
13 takers in terms of generating electricity. And
14 we are hopeful that the supply constraints, based
15 upon the infrastructure in Southern California,
16 are resolved fairly quickly and that those gas
17 prices are stabilized in the long term. Thank
18 you.

19 MR. BAKER: Thank you.

20 Rodger, we wanted to bring you back, and
21 we thought it was important to have you on this
22 panel, as well, to hear some responses you might
23 have to what's been said so far.

24 MR. SCHWECKE: Yeah. And I don't have
25 any additional comments. I think I've probably

1 talked enough already earlier, so I'll wait until
2 the Q and A.

3 MR. BAKER: Okay. Moving on And I believe
4 to Marlon. Thank you.

5 MR. SANTA CRUZ: Good morning. My name
6 is Marlon Santa Cruz. I'm the Natural Gas Supply
7 Supervisor for the Los Angeles Department of
8 Water and Power. Good morning, President, Chair
9 and respective Commissioners. I have a couple of
10 brief introductory remarks for LADWP, once we get
11 the slides up. So I'll keep this high level.

12 We're, essentially, with regards to
13 natural gas supply and daily operations, we are
14 strictly an end user. So being a municipality,
15 our first primary function is, indeed, to meet
16 native load from an electric standpoint for the
17 ratepayer in Los Angeles. As such, we have
18 several responsibilities on our shoulders as
19 balancing authority. That includes maintaining
20 electric system reliability, including the Aliso
21 Canyon withdrawal protocol and the mitigation
22 measures that were published then, along with our
23 responsibilities to NERC, making sure that not
24 only do we meet load, but that we have sufficient
25 reserves in our back pocket to sustain any degree

1 of varying emergencies that could arise on the
2 system.

3 Additionally, we have our goals toward
4 renewable integration and including, now,
5 renewable energy on the system. So not only are
6 we out there purchasing renewable energy, but we
7 are also doing everything we can to make sure
8 that we regulate it, that we firm and shape it
9 and include it, and bring that to the customers
10 within the L.A. Basin.

11 As such, as if we didn't have enough on
12 our plate as a balancing authority, we have to
13 regulate the voltage, the frequency, maintain the
14 grid reliability, and that includes not only
15 determining what generating resources we will
16 have on in the basin, but also from our
17 portfolio, what resources outside of our basin,
18 including our transmission lines and so on and so
19 forth. It's basically one giant puzzle every day
20 that our Wholesale Energy Resource Management
21 Team is operating in such they are my client.

22 I directly support them and their
23 secondary function, also, of then marketing. If
24 they happen to have any excess energy that they
25 can introduce into the electric market, they will

1 do so. And it is my responsibility to support
2 that by bringing enough gas into the system. And
3 also, if they have any energy that they would
4 like to procure from the market and lower their
5 generation, then it is my responsibility, also,
6 to get rid of the gas that we have in excess.

7 So it's a bit of a balancing act that we
8 perform every day. We operate a little bit
9 differently than the CAISO in that we are a
10 vertically-integrated operator in that we have
11 our own resources and we have our own load and we
12 serve them. However, I'm not here to highlight
13 the differences in our generation between us and
14 the CAISO.

15 What I would like to highlight is that
16 despite our differences, we are still exposed to
17 the price volatility that happens from the
18 natural gas market at the SoCal citygate. Of
19 course, we do have our own natural gas that we
20 procure outside of the state and we have
21 transportation agreements to bring that into the
22 system.

23 But with regards to the OFOs, we are
24 still very much on the hook for any noncompliance
25 charges or the penalties, as we've been lovingly

1 referring to, and also the monthly imbalances
2 which we, as I want to echo Mr. Cushnie,
3 sometimes just can't catch up. We behave in a
4 certain way to cushion ourselves to avoid
5 penalties on a daily basis but by the end of the
6 month, we have not had an opportunity to cushion
7 in the other direction. And thus, we are then
8 subject to different penalties. And of course,
9 on a daily basis, whether it be an OFO, a
10 curtailment-watch or actual curtailments, the
11 market reacts.

12 And our primary responsibility is to
13 perform economic dispatch to provide low-cost
14 reliable energy to the ratepayer. And anything
15 that happens in the market causes our grid
16 operations folks to have to make decisions. Some
17 of them may not be economic, but they have to
18 keep the lights on. And thus, LADWP is still
19 very much exposed in that regard.

20 So those are my introductory comments.
21 And I should have probably touched base with you
22 at first, Simon. I was assuming that the pre-
23 formed questions, we'll be addressing as we go
24 along or should I address them now?

25 MR. BAKER: Well, they were to help you

1 to prepare your opening remarks. If you have
2 anything in addition you want to add now, I think
3 now is a good moment.

4 MR. SANTA CRUZ: All right. Fair enough.
5 Thank you.

6 Then I actually just really want to
7 clarify a little bit regarding some of these
8 questions and the way that they were worded. It
9 seems like they were more so from an energy
10 perspective. Specifically, "Why do California
11 natural gas-fired electric generators depend
12 heavily on interruptible service?" It's not
13 necessarily our choice. This is the choice that
14 we have been given.

15 Essentially, in 2015 when the leak
16 happened at Aliso Canyon, LADWP had some non-firm
17 or interruptible contracts or master service
18 agreements with SoCalGas. We then promptly
19 changed those to firm transportation, but all
20 that was a moot point because when the balancing
21 settlement was agreed upon, effective November
22 1st, 2016, part of that was that we agreed to the
23 Aliso Canyon withdrawal protocol which was
24 published, I believe, in the first winter
25 technical report, such that we agreed to certain

1 protocols and steps that will be taken before gas
2 can be withdrawn.

3 But additionally, the differentiation in
4 the subcategories was removed. There's now no
5 longer interruptible or firm transportation
6 services for transmission-local service for non-
7 core customers or, essentially, electric
8 generators. Thus, being a non-core customer,
9 this is the deal we got; we basically are non-
10 core and we will always be secondary to
11 SoCalGas's responsibility to their core
12 customers.

13 And in responses to why we don't procure
14 more at the border, well, we would love to if
15 there were BTS transmission available;
16 unfortunately, it is not. But even if it were,
17 we are still a non-core customer. When it gets
18 down to the, I'll refer to it as the
19 distribution-level service down within the basin,
20 there is no guarantee that fuel will be delivered
21 to us because, again, we are a non-core customer.

22 Again, regarding the CAISO and how it
23 operates, I cannot speak for them. They will
24 probably be speaking next as the experts on that
25 matter. We operate differently in that we bring

1 in gas from Wyoming. We have our own pipeline
2 transportation contracts on the Kern River
3 Pipeline and we match it volume per volume on the
4 SoCalGas system and that's it, that's what we
5 got.

6 If we need any more gas other than that,
7 we have to purchase it at SoCalGas citygate and,
8 thus, we are exposed to those high prices. But
9 that would be a last resort for us because if we
10 have other opportunities to generate from some of
11 our generators outside of California, run hydro,
12 or even buy electricity that would be cheaper
13 than generating it at \$39.00 an MMBtu, we would
14 then elect to do that.

15 And in a nutshell, that is how LADWP
16 generates.

17 MR. BAKER: Thank you.

18 Mark?

19 MR. ROTHLEDER: Thank you very much for
20 the opportunity to discuss this important topic.
21 I'm Mark Rothleder, Vice President of Market
22 Quality and Renewable Integration at the
23 California ISO. I have been involved in this
24 topic since the Aliso Canyon issue first arose
25 and the years following that, that we started to

1 do assessments and tried to come up with
2 mitigation measures.

3 At that time, initially, the focus was
4 how do we keep the lights on? How do we maintain
5 reliability? The focus was not how do we address
6 some of the potential economic issues that could
7 arise. And so the mitigation measures that were
8 put in place were largely to address those
9 reliability issues.

10 What we started to experience, as has
11 already been discussed by others, is we started
12 to see last year some more pronounced economic
13 impacts of some of the underlying pipeline
14 constraints and supply constraints in Southern
15 California gas. February of last year during
16 President's Day, we started to see this. There
17 was a curtailment watch during the cold weather
18 spell and we basically were asked through the
19 protocol during that time whether we could
20 curtail or limit the amount of gas burned on the
21 electric generation?

22 I should say, we don't operate any of the
23 electric generation. We only, basically, operate
24 the market and we are a balancing authority area.
25 And in that regard, we do least-cost dispatch to

1 minimize the cost of overall cost to meet
2 electric demand, subject to certain constraints.
3 And some of those constraints are regarding
4 transmission constraints or local constraints
5 that require certain generation in local areas.

6 And in the particular case in February of
7 last year, that was a case where we needed a
8 certain amount of generation on in the local area
9 to address some of the electric transmission work
10 that was going on. And as a result of that,
11 while we put the constraint on the gas burn, it
12 did cause congestion and higher costs in the
13 local area as a result of trying to manage the
14 gas burn in that way.

15 I contrast that to the summer of last
16 year where we started to see high prices as a
17 result of gas prices escalating as a result of
18 the OFOs. And during the summer period, we
19 basically have a very high demand in the
20 electricity sector. And as a result of that, gas
21 resources in Southern California are not only
22 needed locally but they actually are needed to
23 meet the system demand. And as a result, you see
24 the correlation between the high gas prices
25 escalating in Southern California and the

1 escalation of the average systemwide prices, not
2 just prices in Southern California but the
3 systemwide processes in the day-ahead market.

4 And then lastly, in the November time
5 period, we also saw another round of gas spikes
6 but it was, again, during this time period the
7 system loads are lower so the effect was more of
8 a localized impact, although we did see some rise
9 in overall system prices during this time, as
10 well.

11 So that's the dynamics and the
12 correlation between the gas and electricity
13 market.

14 In terms of the timing -- oh.

15 I will say that as the gas prices do
16 increase they do have, especially if it happens
17 after the day-ahead market, they do have the
18 effect of actually reducing the gas burn in
19 Southern California on the gas fleet. Because if
20 you have an escalation of gas prices, you can see
21 here that that shadowy portion below zero is the
22 amount of reduction between real time, in real
23 time, relative to the day-ahead gas burn.

24 And so the effect of OFOs does have the
25 desired effect of starting to reduce the gas

1 burn, shifting electric supply outside the L.A.
2 Basin to other areas. It may still be more
3 costly, but physically, it's addressing that
4 balancing of gas demand and what we can move in
5 terms of electric supply. We can't always move
6 all the electric supply out of Southern
7 California, and therein lies the challenge.

8 And therein lies, like in November, we
9 couldn't move -- we were down to, basically, one
10 or two units, non-QF units that are online. When
11 they were -- when we were asked whether we can
12 reduce our gas burn by doing a voluntary
13 curtailment, pursuant to the withdrawal protocol,
14 we looked at it and we said we couldn't, we
15 couldn't shut off any more than the one or two
16 gas resources we had on. And as a result of that
17 we said, no. And subsequently, SoCalGas basically
18 had to withdraw from Aliso Canyon during some of
19 those periods of time.

20 I won't get into the complications of the
21 timeline except to say, because it's already been
22 discussed before, I will say that this timeline
23 and the misalignment has been discussed several
24 times in the industry. And we've also, in the
25 ISO, has taken up, can we move our timeline

1 around? And the consensus view of all the
2 stakeholders was, no, don't move the timeline
3 around. You start backing it up and you get into
4 bilateral activity and it becomes problematic.
5 So we considered it but we have since -- there is
6 no desire, there's no market desire to move that
7 timeline around.

8 That said, we have enhanced, as a result
9 of Aliso Canyon, some of the coordination and
10 information that we make available. For example,
11 we now provide a forecast or information two days
12 ahead about the potential gas burn, the expected
13 gas burn of resources in Southern California. We
14 provide that on a total basis to Southern Cal Gas
15 to coordinate with them as a system operator, as
16 a gas operator. We also make the megawatts
17 available on the resources, available to the
18 generators if they want to use that to kind of
19 guide their gas procurement before the actual
20 day-ahead market that starts at 10:00 a.m. So we
21 do that.

22 But to the extent these OFOs come in
23 after the day-ahead market, the day-ahead market
24 is over, we've already done -- determined the
25 amount of megawatts for the most part. And if

1 they have to then buy gas at that higher price,
2 they're exposed.

3 There was a reference to the -- we do
4 have market power mitigation in place to protect
5 against exercise of market power. Some of those
6 measures put limits on the amount of costs a
7 resource can receive for commitment cost, startup
8 cost. And if they're, in the case, mitigated,
9 they're default energy bid in the case of
10 mitigation.

11 These are tied to these indices. And to
12 the extent these indices move from one day to the
13 next or intra-day, there is, what we've seen, is
14 we've seen these situations where the index or
15 our use of the index is not keeping up with that
16 change.

17 And as a result, at least in the summer,
18 we had the occurrence where even with our
19 mitigation and our caps on our constraints on
20 commitment costs, it was -- the prices that were
21 paid to these resources were insufficient to
22 cover their costs. And as a result, at least
23 three suppliers did avail themselves of the FERC
24 process to recover those unrecovered costs. And
25 they're in the middle of that process today. So

1 that was the first time that was exercised and
2 used to account for that.

3 I'll just say that we have done a
4 significant amount of increased coordination.
5 We've done month -- seasonal assessments in
6 response to the Aliso Canyon situation. We do
7 daily coordination where we talk about -- we
8 communicate our gas burns, our expected gas
9 burns. And in response, we get information
10 whether there's a potential or risk of gas
11 curtailment and we take that into consideration.
12 And it allows us, if we need, to put some
13 constraints around the day-ahead market run.

14 Further, in the real time, we continue
15 this coordination all the way down to real time.
16 And if we need to continue to perform any
17 additional constraint management to reduce the
18 gas burn, it gives us the opportunity to do so if
19 we can accommodate that. If we can't accommodate
20 that, we will inform the gas operator that we
21 can't and then have to move on in terms of the
22 protocol.

23 In terms of solutions, I'll just end my
24 statement with this, that, obviously, if we had
25 the gas infrastructure and the gas pipeline back,

1 that would obviously help. Absent that, I think
2 we do have to look for other measures.

3 Mr. Cushnie mentioned, is there some way
4 to that mechanism through resource adequacy to
5 require resource adequacy resources to buy firm
6 gas or have a mechanism that there is sufficient
7 gas supply and hedging for those resource
8 adequacy resources? Largely, these are resources
9 that are in the local area anyway. Perhaps
10 that's a mechanism that can be explored.

11 The third one is perhaps there needs to
12 be a relook or a revisit of the protocol itself.
13 Currently, the withdraw protocol says you do
14 not -- they do not withdraw until the point where
15 they've evaluated and asked whether there was any
16 voluntary curtailment that could be accommodated.
17 That's already largely at a point where they've
18 already exercised their OFOs, Stage 3, Stage 4,
19 and it's already had the effect on the prices.

20 So perhaps there's a mechanism for
21 consideration and that is, do you back up the
22 protocol to allow for withdrawal, limited
23 withdrawal for the purposes of mitigating or
24 reducing the risk of going into the higher OFO
25 protocol or OFO levels and protecting the

1 potential economic risk?

2 So I will stop there and I look forward
3 to the questions.

4 CHAIR WEISENMILLER: And let's start with
5 a couple, just setting some context.

6 LADWP, I assume you were asked, also, to
7 curtail. Did you curtail in December? Could you?
8 Could you and did you?

9 MR. SANTA CRUZ: I have to clarify that I
10 speak for the, I guess what would be considered
11 the marketing and the public side. So I can say
12 that, yes, a public notice went out after the
13 fact. I do not know any of the details that
14 happened between the grid operations folks at
15 LADWP and the operations folks at SoCalGas.

16 CHAIR WEISENMILLER: I would like you to
17 supplement and file that information of whether
18 you were able --

19 MR. SANTA CRUZ: Sure.

20 CHAIR WEISENMILLER: -- LADWP was able to
21 reduce.

22 MR. PEDERSEN: Chair Weisenmiller, I have
23 that information.

24 CHAIR WEISENMILLER: Sure.

25 MR. PEDERSEN: And we did ask, not only

1 CAISO but LADWP. LADWP was able to move a small
2 amount of gas in all three days that we were
3 looking at, except for July 4th.

4 CHAIR WEISENMILLER: Okay.

5 MR. PEDERSEN: The numbers for July 3rd
6 was about 19 million cubic feet, about 38 million
7 cubic feet for January 7th, excuse me, January.

8 CHAIR WEISENMILLER: In January.

9 MR. PEDERSEN: So they were actually able
10 to move some supply. Where they went, I don't
11 know, but they were able to reduce their demands.

12 CHAIR WEISENMILLER: That's good. I was
13 just trying to figure out, obviously, the ISO
14 wasn't able to, whether or not anyone else was
15 able to. I suspect neither were burning much gas
16 so that there wasn't a big impact. But it would
17 be good for the record, just to get that.

18 Also, Rodger, you had --

19 UNIDENTIFIED MALE: Chair Weisenmiller --

20 CHAIR WEISENMILLER: Go ahead.

21 UNIDENTIFIED MALE: -- we do have John
22 Giese from LADWP who can answer your questions, I
23 believe.

24 CHAIR WEISENMILLER: Please come up to
25 the microphone and introduce yourself.

1 MR. GIESE: Chairman and Commissioners,
2 my name is John Giese.

3 CHAIR WEISENMILLER: Push the green
4 button.

5 MR. GIESE: How's that?

6 CHAIR WEISENMILLER: Better.

7 MR. GIESE: Good morning, Chairman and
8 Commissioners. My name is John Giese. I work in
9 the Wholesale Energy Resource Management section
10 at L.A. Water and Power. And when the voluntary
11 curtailments come through, I'm in the
12 organization that actually works to comply with
13 them.

14 Recently, we've had some voluntary
15 curtailments in the last couple of weeks. And I
16 would say in the last couple of weeks a typical
17 burn that we were working with before the
18 voluntary curtailment is asked for is somewhere
19 in the 80,000 MMBtu per day range. We are
20 typically able to cut anywhere from 20,000 to
21 30,000 from that.

22 Also, currently, when we believe that
23 voluntary curtailments might continue, it would
24 be common for us to go and make a purchase to
25 proactively remove a little bit of gas from the

1 system in a period of time where we believe that
2 the curtailments might happen. And we actually
3 have a purchase like that going right now which
4 has removed probably about 5,000 to 8,000 MMBtu
5 of our burn per day from the system because we
6 weren't sure if a voluntary curtailment would be
7 called and we wanted to make sure that we were
8 doing something to address it proactively.

9 CHAIR WEISENMILLER: Thank you.

10 Actually, I'm going to ask Mark a similar
11 question, then ask a general question. I'm not
12 quite sure which of you could respond, so it may
13 be easier if you just stay standing.

14 MR. GIESE: Sure.

15 CHAIR WEISENMILLER: So, Mark, what were
16 the comparable figures for the ISO in terms of
17 throughput?

18 MR. ROTHLEDER: I don't have the exact
19 figure. I can give them to you after I --

20 CHAIR WEISENMILLER: That's fine.

21 MR. ROTHLEDER: Yeah.

22 CHAIR WEISENMILLER: And just submit it
23 later.

24 MR. ROTHLEDER: Yeah. I will say that we
25 do have the incentive, an incentive, to comply

1 with a voluntary curtailment, especially if there
2 is a risk of an involuntary curtailment coming
3 because an involuntary curtailment is even less
4 in our control in terms of what resources are
5 curtailed. And so we would much rather manage
6 this and avoid an involuntary curtailment if we
7 can. And so we have the incentive, if we can, to
8 accommodate that.

9 CHAIR WEISENMILLER: Okay. Obviously,
10 one of the things that's gotten people's
11 attention is the billion-dollar number. And so
12 just starting out, first, the proverbial question
13 of how well did -- you know, obviously, LADWP
14 doesn't have an ERRA account, but how well did
15 you do on forecasting gas procurement costs this
16 year? Do you know how much larger they were this
17 year?

18 MR. GIESE: I think I'd have to defer on
19 that because I typically think of how much we
20 use, not what we pay for it.

21 CHAIR WEISENMILLER: Okay.

22 MR. SANTA CRUZ: Sorry. If I could just
23 clarify the question? Are you asking how much
24 additionally we had to purchase natural gas from
25 a dollar standpoint?

1 CHAIR WEISENMILLER: Yeah.

2 MR. SANTA CRUZ: I might actually have
3 that. Well, all I can say is that we are keeping
4 costs month to month. And in 2018, it was to the
5 tune of, I believe, several hundred thousand
6 dollars. I would have to get back to you with
7 the actual figure.

8 CHAIR WEISENMILLER: And, SDG&E, do you
9 have a sense of what your power filing is or will
10 look like?

11 MR. HELM: Sure. So I think with the
12 ERRR filing and what we looked at over the
13 summer, we did, in fact, face higher SoCalGas
14 citygate prices -- or citygate prices that we had
15 forecasted, and so that was certainly something
16 that impacted our ERRR forecast.

17 Overall, there were a host of factors,
18 however, that effected our ERRR so that we sort
19 of quickly self-corrected and we do not expect --
20 we did not trigger in 2018. And a number of
21 those factors include we did accelerate some of
22 our forward buying of gas prior to the summer and
23 I think realized a benefit of that relative to
24 what we normally do. We normally buy most of our
25 gas forward a month ahead and we accelerated that

1 a couple of months.

2 But in addition to that and some of, I
3 think, the larger impacts on our ERRA were a
4 result of the fact that renewable generation
5 during the time period was lower than we had
6 forecasted, and so that reduced our renewable
7 related costs. We had higher revenues from the
8 market for our gas generation. And then we also
9 had the high usage charge over the summer. And
10 so while we're not in a situation where we
11 triggered in 2018, I think when you look at all
12 of those factors together, I can't guarantee that
13 that would be the same going forward.

14 CHAIR WEISENMILLER: Yeah. I think it
15 would be useful for us just to know across all of
16 you what the impact of the congestion has been --

17 MR. SANTA CRUZ: If I may?

18 CHAIR WEISENMILLER: -- you know?

19 MR. SANTA CRUZ: I just actually found I
20 had the chart with me.

21 CHAIR WEISENMILLER: Okay.

22 MR. SANTA CRUZ: We compiled from January
23 to November of 2018 alone. The losses from
24 natural gas procurement standpoint alone, because
25 we have two different accounts, the Energy is

1 keeping their bank account, not including
2 December because we haven't received our invoice
3 yet, we have already exceeded \$2 million.

4 CHAIR WEISENMILLER: So again, if, Simon,
5 if you can just reach out afterward and so we get
6 a sense of what, comprehensively, things look
7 like.

8 Yeah, Colin?

9 MR. BAKER: May we hear from Colin?

10 CHAIR WEISENMILLER: Yeah.

11 MR. CUSHNIE: Yeah. I think this has
12 been a really good conversation to kind of
13 highlight what at least the challenge has been on
14 the Southern California Edison system.

15 Our ERRA under-collection is almost
16 entirely the result of higher power prices, not
17 gas prices.

18 CHAIR WEISENMILLER: Um-hmm.

19 MR. CUSHNIE: I made a comment in my
20 opening remarks that it's very small packages of
21 gas that are being priced at these, you know,
22 these higher penalty prices or high prices on the
23 margin as generators are trying to get into
24 balance. But that single package of gas can then
25 set the power prices for the entire grid. And so

1 it really depends on what is your physical
2 position as a utility?

3 So DWP, I'm assuming, based on my
4 knowledge, is largely a resource so they're
5 physically self-hedged. I think San Diego Gas
6 and Electric has a much larger physical position
7 relative to their load than Edison does. Edison
8 only owns about 20 percent of the generation
9 that's used on our system. And then we have a
10 small amount of tolls that we do, as well. Our
11 hedging activity, we do hedge natural gas prices.
12 But natural gas prices are at Lakewood at the
13 Southern California border and have been for
14 many, many years, and so that's where the hedges
15 occur.

16 We're not seeing a lot of volatility at
17 the SoCal border, we're seeing volatility at the
18 SoCal citygate. And it is very difficult to
19 hedge at the citygate because you have a
20 constrained system and you need to have folks on
21 the other side of that transaction that are
22 willing to take the risk of what the citygate
23 price is going to be to sell you a hedge. So
24 we're just positioned differently than all other
25 entities here that I think you're asking about.

1 We can also -- you know, we're happy to
2 work with you and CPUC staff to talk about how
3 our procurement plan construct works and the T-
4 Board construct that the CPUC asked us to use.
5 It doesn't look at constrained pipeline capacity
6 risk. It looks at macroeconomic risk and that's
7 what we're being asked to hedge to.

8 CHAIR WEISENMILLER: Okay. And how -- of
9 your total costs, what's been the economic
10 impacts of the OFOs for the monthly imbalance
11 charges?

12 MR. CUSHNIE: Yeah. So I'll -- we can
13 break it out. Our total gas, actual direct gas-
14 related impacts from the OFOs and so forth is
15 very, very modest. And it's the power price
16 impact from that that is driving our costs.

17 And just if I may for Mr. Smutny-Jones
18 benefit, if I wasn't articulate, I apologize.
19 What I was trying to communicate is that
20 generators, when they buy their gas and they pay
21 whatever the price is for gas, they may be paying
22 \$4.00 or \$5.00. But if they are faced for
23 penalty gas that they haven't procured, their bid
24 curve, presumably, will then put the penalty
25 price in. And so it makes it look like the

1 hockey-stick bidding that we saw before. I
2 wasn't suggesting that people were exercising
3 market power, it's just that you have two states
4 of gas and you have to price, you know, your
5 volume risk based on penalty prices.

6 MR. SMUTNY-JONES: Yeah. It's my
7 understanding that once an OFO is declared the
8 people who sell gas, basically, bake that into
9 the price. So it's not so much the generator,
10 that's what you're going to pay, at least that's
11 what I've been told by the generators.

12 CHAIR WEISENMILLER: And so back, same
13 question to LADWP and SDG&E in terms of the
14 impact on your procurement cost of either OFOs,
15 direct costs, OFOs or the monthly?

16 MR. SANTA CRUZ: If I may put into
17 context? Los Angeles, for the most part, we
18 have, again, our pipeline transportation that
19 covers our needs for the majority of the year.
20 It is particularly in Q3, July through September,
21 that we see our high loads and then we are
22 susceptible. But the OFOs, we face throughout
23 the year --

24 CHAIR WEISENMILLER: Right.

25 MR. SANTA CRUZ: -- of course, throughout

1 the entire system. So our financial services
2 organization did actually run a model as to one
3 specific event, which was the summer on July
4 23rd, and what that impacted our ratepayer. And
5 it turns out that it affected our rate by about
6 two percent. So it seems small, but that was
7 just one instance and they're still running their
8 tabulated calculation for the entire year,
9 whether or not that's going to have an overall
10 impact for the next year when we request our rate
11 to stay or not.

12 MR. GIESE: And on a daily basis, that
13 one percent is pretty common on the electricity
14 dispatch side, as well. So if we do uneconomic
15 dispatch, it's usually about a one to two percent
16 hit, sometimes a little bit more.

17 MS. HELM: For us at SDG&E, we'll follow
18 up with you, Simon, with actual numbers. But for
19 SDG&E, it's very similar to the case of Edison.
20 We don't -- we didn't incur a lot of penalty
21 cost. Instead, we went out and bought the gas
22 that we needed to buy. And so the cost impact
23 really came through the price of -- the market
24 price of gas and then how that translated into
25 the market price of power, so --

1 CHAIR WEISENMILLER: Yeah. I was going
2 to ask, Colin, on your solutions slide, can we
3 just put that back up for a second?

4 COMMISSIONER GUZMAN ACEVES: Mr.
5 Chairman, while you're pulling that up, can I ask
6 a follow-up question of Kendall?

7 Can you describe again how you shifted in
8 increasing more forward procurement and what,
9 like what exactly that looked like in a little
10 more detail?

11 MS. HELM: Sure. So our purchasing of
12 gas forward, the physical gas that we purchase,
13 is typically done a month ahead within the limits
14 of our BPP, our Bundled Procurement Plan, that
15 governs how much of that we can do and how
16 quickly we can do it. We did, prior to the
17 summer, accelerate some of that purchasing of
18 forward gas that either are fixed or index-based
19 price, a little bit sooner than a month ahead,
20 maybe to a couple of months ahead. And I would
21 say that looking back, that was a decision that
22 did provide benefits for us.

23 But I think, you know, we can talk about
24 hedging strategies, that's a form of hedging your
25 price exposure. Hedging strategies are certainly

1 something that, you know, if you had perfect
2 information and always knew how to hedge, there
3 wouldn't be a market for it. Hedging works for
4 you sometimes, it doesn't work for you other
5 times. It's a way to limit volatility and your
6 exposure to price changes. But it's very
7 difficult to predict where prices will be, so
8 it's not a strategy that's cost free. There's
9 benefits and costs to hedging.

10 CHAIR WEISENMILLER: Yeah. So what
11 I --

12 COMMISSIONER RANDOLPH: Chair
13 Weisenmiller, could I ask, before we move on to
14 the solutions question, I kind of wanted to
15 follow -- ask a last question about
16 quantification --

17 CHAIR WEISENMILLER: Okay.

18 COMMISSIONER RANDOLPH: -- which is I
19 think both Colin and Marlon mentioned procuring
20 power from outside of the basin. Is that sort of
21 a strategy you used to kind of reduce the price
22 impact? And did that have more -- did that
23 result in more reliance on out-of-state coal
24 generation or any other potential impacts?

25 MR. CUSHNIE: Commissioner Randolph, so

1 Edison does procure a fair amount of energy from
2 outside of Southern California. We import
3 energy. A lot of that is actually tied to our
4 resource adequacy obligations. It's procured
5 almost entirely as system energy. And so
6 whichever control area it's coming from that, you
7 know, that -- you know, the supply mix in that
8 control area is dictating what the, we'll call it
9 the incremental carbon emissions are will be
10 assessed the system average, but we're not able
11 to track what the marginal carbon impact is from
12 that.

13 Yeah, the firm energy imports provide
14 price stability, to Kendall's point. And I would
15 also note, Commissioner Guzman Aceves, I mean,
16 Edison also does hedge natural gas. But again
17 Edison, you know, controls maybe ten percent of
18 the gas that its system needs on a peak day. And
19 so it's not the gas costs that we're incurring
20 for our native load, it's the gas cost that other
21 generators are incurring that are driving up our
22 power prices and impact our customers' costs.

23 But, yeah, we do try to bring in firm
24 energy, but there's going to be a limit as to how
25 much you can do because then, you know, the ties

1 start to become constrained. And then the
2 liquidity in the marketplace starts to thin out
3 pretty fast as you start to move up the stacks of
4 other control areas resources.

5 MR. SANTA CRUZ: I'd like to qualify
6 before I quantify in that DWP, again, we have our
7 portfolio. And of course, we are primarily
8 trying to keep the cost of the energy low, so the
9 lowest cost resources get dispatched first.

10 Now in the event of a high price spikes,
11 as just what happened at citygate, and in the
12 event that we are caught in that, that we need to
13 find ourselves purchasing more gas than what we
14 can bring in from out of state, our economic
15 dispatch dictates that we go to the next lowest
16 cost resource, so if that resource is something
17 cheaper. We have natural gas-fired generation
18 outside out of the state, we do have some coal-
19 fired generation, depending on the price basis
20 that happens on any given day, it may get ramped
21 up to support the load. And also, we might even
22 find ourselves running some of our hydro in the
23 event of an emergency, that we need to ramp up
24 suddenly, those resources can't bring in the
25 energy that we need.

1 So we have a potpourri of options ahead
2 of us. It's not necessarily that we look to the
3 market to purchase energy as a strategy, it's
4 just another tool that we have in our bag.

5 COMMISSIONER RANDOLPH: Thank you.

6 CHAIR WEISENMILLER: Okay. So again,
7 what I was trying to understand was looking at
8 Colin's list, at least two things flagged, were
9 the OFO and the monthly balance issue. So on the
10 one hand, we heard from Rodger earlier that an
11 OFO results in some increase in supply. And I
12 assume part of what you're trying to do is sort
13 of dampen demand. But again, as you look at, at
14 least, these options it comes to trying to
15 understand what the cost impact has been on the
16 power prices and what the resource benefits have
17 been on the gas operations.

18 So at least at this point, Rodger, do you
19 have a sense of how much the power sector -- how
20 is the power sector responding to either the OFOs
21 or the monthly penalties in terms of benefits for
22 you operationally?

23 MR. SCHWECKE: Yeah. Chairman, I think
24 we -- what I have is how the whole system, okay,
25 and whether it's a particular sector is

1 increasing deliveries, but I think we had -- I
2 had one slide and it shows -- and we do see a
3 swing up in deliveries, all the way up to, you
4 know, potentially 300,000, 400,000 decatherms,
5 that supply into the system is increasing. It's
6 having that effect. I can't say whether it's
7 electric generators. I can't say whether it's
8 refineries or whoever it might be. You know,
9 there's probably information that if we wanted to
10 get down to and dig a little deeper into that
11 data, we could probably come up with that
12 information and look specifically, who was short
13 and who then reacted.

14 CHAIR WEISENMILLER: Yeah. Well, back
15 on, Colin, you had made the recommendation. But
16 again, have you been able to get any additional
17 supply? I mean how, generically, how do you
18 respond? I mean, what's the benefit
19 operationally relative to the cost to you?

20 MR. CUSHNIE: Yeah. So, you know, that's
21 the Moneyball question. So when the OFO was
22 called the OFO was called in the afternoon to
23 early evening for the following operating day.
24 But at least in the case of CAISO interconnected
25 electric generators, we've already purchased our

1 natural gas from the market. We've received our
2 awards back from the CAISO and, therefore, there
3 may be a mismatch between our generation awards
4 and our flowing gas supplies.

5 But when the OFO comes out we will, if we
6 are long or short on the wrong side of the OFO,
7 we will engage with the marketplace and
8 effectively pay prices up to the penalties that
9 we would otherwise incur to our imbalance to
10 close that physical shortfall.

11 Now I think, you know, something that's
12 helpful for some folks to remember about the gas
13 system is, you know, the gas flows very slowly by
14 electric standards, right, you know, 30 miles an
15 hour or so. So when we're trying to buy gas at
16 eight o'clock at night, there's not -- you know,
17 we're not able to access, you know, the Texas
18 basins or the Canadian basins to move gas.
19 You're really, what you're doing is you're moving
20 gas around in the western United States at that
21 point in time and having somebody take a little
22 bit less upstream and maybe move that incremental
23 gas into California.

24 So we think the OFOs are helpful, so
25 Edison is not suggesting to not have OFOs. What

1 we're saying is that, you know, the penalty
2 prices associated with the OFOs are not making
3 any sort of a meaningful difference to the
4 reliability of the physical gas supplies flowing.
5 When the Gas Company calls an OFO, it doesn't
6 matter whether it's \$1.00 or \$5.00 per million
7 BTU, Edison is still going to take whatever
8 actions it needs to try to get it into balance
9 because we don't want to incur that extra \$1.00
10 or \$5.00 penalty. Charging \$25.00, all it does
11 is we just, we'll pay up to \$25.00, but it
12 doesn't change the amount of gas that's available
13 to us to procure.

14 And so it seems like it's just
15 amplifying, to a great extent, in an unnecessary
16 way the high power prices that all customers have
17 to pay.

18 MR. BAKER: Mr. Smutny-Jones, I see you
19 might want to jump in here.

20 MR. SMUTNY-JONES: Yeah. I would just
21 caution on this. My understanding of it, there
22 are five stages. And the stages are designed to
23 basically, you know, you ramp up to the higher
24 price. I think that when you're trying to change
25 behavior at lower prices, the imbalance

1 tolerances are reduced in each of those stages.

2 So I think the point is you're trying to
3 get behavior changed in each one of those stages
4 and go and just do, it's either zero or \$5.00 or
5 zero, pick a number. There is some concern about
6 the efficacy of that, if that's really the best
7 way to go. So I think that that would warrant,
8 perhaps, a little further discussion as to
9 whether or not that's --

10 CHAIR WEISENMILLER: Well, I was going to
11 ask --

12 MR. SMUTNY-JONES: -- (indiscernible).

13 CHAIR WEISENMILLER: -- in terms of
14 LADWP, in terms of your behavior, or SDG&E's, how
15 does the \$25.00 effect you on a Stage 4?

16 MR. SANTA CRUZ: Well, again, when it
17 comes to a Stage 3 or Stage 4, I can only comment
18 on what we've observed.

19 CHAIR WEISENMILLER: Right.

20 MR. SANTA CRUZ: And I'm going to second
21 what Jan Smutny-Jones has said, is that it
22 appears that if marketers are concerned that
23 they're going to be hit with a potential penalty,
24 they roll that into the price of the commodity.
25 And DWP has been exposed to that, namely in Q3

1 when we had to procure at the SoCal citygate. It
2 hurts us because, of course, the generation is
3 going to suffer. It doesn't hit us as hard as it
4 might hit some of my fellow utilities here in the
5 room because, again, we have these other options
6 in our tool bag that we can shift generation
7 outside of California. But there are some
8 instances when we've noticed that, indeed, it
9 does affect the price.

10 Now I'll just defer a little bit of
11 opinion that if the penalty regarding traveling
12 ten miles an hour above the speed limit versus
13 100 miles an hour is the same, I would have
14 gladly driven here from Los Angeles this morning,
15 but that's not the case.

16 And so I understand what SoCalGas is
17 doing, that it's a tool meant to incentivize end
18 users to meet their load because they're trying
19 to protect system reliability. And I guess that's
20 all I'll comment on that.

21 For the pricing structure, it is what it
22 is.

23 MR. GIESE: I could maybe add one thing
24 to do that. When we're on the floor trying to
25 meet our load, the reliability of meeting our

1 load is really our core issue. When the gas
2 supply gets threatened the reliability of meeting
3 our load is threatened, so we're going to take a
4 lot of actions to make sure that that gas supply
5 is reliable and that we don't end up with a
6 bigger problem than we would have.

7 So the size of the penalty, yes, it does
8 get our attention and it affects our economics.
9 But a lot of our behavior is designed to support
10 that gas system no matter what because the RMR
11 generation that we have to run that is going to
12 rely on the gas that's in that system, if that
13 RMR goes away we have a much bigger problem than
14 an OFO penalty.

15 MS. HELM: Certainly. And I would just
16 add that when there is an OFO and we see that
17 there is an imbalance, we certainly try to avoid
18 the penalty. And so we'll, if we have a short
19 position, we'll go buy gas to eliminate that
20 imbalance. And during those situations, we are
21 price takers, so we will pay the higher prices
22 and, usually, the penalty price is priced in and
23 so we do see higher power prices.

24 I think in general, though, this goes
25 back to one of the points that I made earlier in

1 terms of as an individual market participant, I
2 really don't have the visibility to determine
3 what is the magic price that's going to be
4 effective at incentivizing behavioral change
5 without penalizing parties that don't have the
6 ability to fully respond to that market
7 incentive. There's a lot of complexity about
8 what that price level would be, as well as how
9 you would want to apply those penalties to
10 different market participants. And it may be
11 such that some differentiation in how that
12 applies is warranted economically.

13 But again, I think this is where we get
14 into complexities around market solutions and
15 some of the intended and unintended consequences
16 and why I think it does warrant more analysis,
17 but certainly before we go into these complex
18 solutions, revisiting the simple solution to see
19 where we can address some of the structural
20 constraints is important. I think some of the
21 charts that have been shown today have shown that
22 before we hit some of those tipping points, the
23 OFOs that were issued didn't have the same kind
24 of market price impacts.

25 CHAIR WEISENMILLER: Yeah. I think --

1 MR. SCHWECKE: One thing --

2 CHAIR WEISENMILLER: Go ahead.

3 MR. SCHWECKE: I'd like to add one thing.
4 We talked a lot about the stages and the prices
5 of those stages. Those are all set after the
6 price for the next day has been set in the
7 marketplace. And we're basing what that number
8 is, whether it's the \$5.00 or the \$25.00, based
9 on what the gas price expectation has already
10 been set by the marketplace. And if you start
11 looking at how you change things and change that
12 price, Colin mentioned Stage 4 and 5, but there's
13 still the ultimate which were, you know, to try
14 do as our emergency OFO. Will we get there
15 sooner? And will that set a different
16 marketplace expectation of what customers
17 (indiscernible)? That's a higher than \$25.00
18 price.

19 So we have to be cautious going in that
20 we are not making a change that actually will
21 have a negative result.

22 CHAIR WEISENMILLER: I guess the last
23 thing I wanted to explore was, you know, Mark had
24 shown a chart on the timelines and the
25 misalignment there and indicated last time it was

1 looked at everyone was like, god, don't get into
2 that.

3 I guess looking at where we are now as
4 opposed to where we were then, is that still the
5 feeling of not adjusting the various timelines?

6 I'm looking particularly at Colin. If
7 you, you know, knew then what you now, are going
8 through, would you have the same position on
9 don't touch that dial?

10 MR. CUSHNIE: It's an incredibly
11 complicated consideration because it's just which
12 side are you going to move the problem to? So
13 today the problem is we buy our gas on a
14 constrained gas system before we know what the
15 electric demands are. If we were scheduling the
16 power before we knew -- before we had to buy the
17 gas in a constrained gas system, we'd be
18 projecting what the gas costs are. We would be
19 putting our schedules in. We would get our
20 rewards back from the CAISO. And then we would
21 seek to go match those gas supplies with our --
22 with the gas demand that results from our
23 generation schedules. But then there would be an
24 economic disconnect potentially for generators,
25 that did they bid appropriately in the CAISO

1 market for gas?

2 So I don't know that either one is a
3 better outcome. The reason that we ultimately
4 supported the current framework is that the gas
5 market is a national market. And so to, you
6 know, to expect the rest of the country to change
7 the way they were going to -- you know, the hours
8 that they would work and so forth, it didn't make
9 a lot of sense. And asking the CAISO to move its
10 market forward 12 hours would impact the
11 bilateral markets, as Mark mentioned. It would
12 also put more uncertainty between the day-ahead
13 awards and actual market operations because now
14 you have a larger expanse of time that you're
15 covering before you get to actual operations.
16 And a lot can happen on electric grid in the
17 interim.

18 So, I think, you know, the reason we
19 pointed out these timing disconnects is to
20 highlight that it's not that generators aren't
21 willing to buy the gas that they're required to
22 flow; they just don't know what it is until after
23 they've done their purchases. And when we get
24 into the intra-day gas procurement, and, you
25 know, I won't take up everyone's time, maybe

1 we'll have a sidebar conversation with my
2 colleagues here. There really, there's not, if
3 you look -- you know, if the receipt points are
4 full, there is no more gas to buy intra-day, so
5 it doesn't matter what price you charge. It's
6 just going to -- all it does is impact power
7 prices.

8 What you're doing now is on -- you know,
9 what you're having is a shipper is willing to
10 change that economic risk amongst themselves. So
11 you might have refineries willing to back down a
12 little bit because they can get a lot more money
13 for their gas by selling it to a generator. But
14 there's no meaningful supply on the system for us
15 to procure, regardless of the price we're willing
16 to pay.

17 MR. SMUTNY-JONES: Yeah. The only thing
18 I can add there is I'm not sure, you know, if
19 realigning all this makes sense or not, for some
20 of the reasons that Colin indicated.

21 Again, from the standpoint of the
22 generators that are bidding into the system, you
23 can find yourself in the daily market spending a
24 lot more on gas operating under dispatch orders
25 that are there to keep the lights on, you're

1 buying the gas. And if it's out of a certain
2 bandwidth, your only alternative is to file the
3 205 at FERC which is very expensive and time
4 consuming. This has happened. This hasn't been
5 a real current experience but it's happened. It
6 has happened. And the concern, of course, is if
7 that starts becoming more common. Then you have
8 less people, potentially, willing to participate
9 in a market where, you know, the only way they
10 can recover the costs that they spend in terms of
11 meeting the dispatch order to keep the lights on
12 is to spend a lot of money going to FERC to
13 recover, you know, their costs.

14 And so we think that that's resolvable
15 her in California. And I know there's been
16 discussions going on at the ISO to resolve that.
17 And that would -- hopefully, we'd be able to see
18 that sometime this year. But that's the key
19 problem there.

20 MR. BAKER: Mr. Santa Cruz, did you want
21 to give a brief remark?

22 MR. SANTA CRUZ: Yeah. I just actually
23 want to take a segue from Mr. Cushnie and Ms.
24 Helm in that, again, forgive me for being
25 longwinded but I didn't get a chance to offer my

1 potential solutions, in that the structure of the
2 OFO has its place. And I think we're all in
3 agreement that this incentivized tool is there
4 for a reason. I just want to comment and
5 highlight that it loses its effectiveness when
6 not all of the participants are obligated to meet
7 it.

8 And what I'm trying to highlight here is
9 that the Gas Acquisition Department at SoCalGas,
10 particularly, balances to a forecast and not to a
11 burn.

12 What that means is that, for example, in
13 the event of a low OFO, when the participants are
14 concerned about potentially being faced with a
15 penalty will, on the day of, purchase more gas if
16 we see that our burns are going to increase. And
17 we might even pad ourselves a little bit by
18 buying some extra, again, to avoid the penalties,
19 everyone except the Gas Acquisition Department
20 which balances to the forecast which, even if
21 their burn ran away from their forecast, they are
22 kept whole; they are not facing any penalties
23 because they matched their forecast. And what
24 happened to all the padding that everyone else
25 brought into the system? Well, they appear to be

1 the direct beneficiary of all that padding.

2 Again, I'm really painting this in the
3 extreme case. But I just want to highlight that
4 that is what's effecting the OFO structure
5 itself. It's not as effective as it could be.

6 MR. SCHWECKE: So you know, I know
7 there's someone from our Gas Acquisition here,
8 but I want to kind of comment on that.

9 You know, if we're looking at prices and
10 we're concerned about supply and demand, I don't
11 agree with the assumption that that is driving
12 OFOs with regards to the core balancing to the
13 forecast because that forecast, as we know, all
14 forecasts are wrong. They're either high or
15 they're low. And also, core does have, as Colin
16 mentioned, have access to storage that they would
17 just balance the storage. But if they had to go
18 out and buy supplies, that would actually drive
19 the price up. There would be another participant
20 in the marketplace trying to buy gas in a short
21 situation, which could have a negative impact.

22 I think Colin's point about not having
23 resources available, historically, that's what
24 natural gas storage has been available for
25 customers to do. I need gas today. Where can I

1 get it today? There is gas that's already in the
2 basin.

3 So I'll stop there and allow other
4 comments.

5 MR. CUSHNIE: And so this is a very
6 complicated issue. And you know, I already made
7 a point on it earlier. I had one thing I wanted
8 to make sure all the Commissioners understood
9 about Edison's ERRR balancing account.

10 So we have done our year-end closing and
11 our under collection is now at 833 million, so
12 it's less than what we had projected in our
13 filing. That's partly a function of prices in
14 December came off quite a bit in the latter half
15 of the month. But some of the hedges that we had
16 put in place earlier in the year were in the
17 money and so some other offsetting factors. So
18 we're under collected by 833 million, not the
19 900-plus million that we were projecting. So
20 that's ultimately what we would want to be able
21 to put into rates at the end of the day and
22 recover from customers.

23 But the point is that's just a lot of
24 money. That makes -- that causes rates to go up
25 over one cent a kilowatt hour. And there's a

1 tremendous amount of energy being spent at the
2 Commission, within my company certainly, to try
3 to keep rates as low as possible and that one
4 cent overwhelms everything that we do.

5 COMMISSIONER GUZMAN ACEVES: I just
6 wanted to go back to a couple of your other
7 suggestions. One was the immediate PFM. Did you
8 say you filed that jointly with SoCalGas?

9 MR. CUSHNIE: I would have liked to. I
10 couldn't get them there. SCGC; the folks to your
11 left and my right.

12 COMMISSIONER GUZMAN ACEVES: Okay. And
13 does that include this additional fix that Mr.
14 Santa Cruz suggested on the participation of the
15 SoCalGas purchasing authority? I'm probably
16 getting that name wrong.

17 MR. SANTA CRUZ: Southern California
18 Generation Coalition. Actually, to speak to that
19 effect, can I ask Norm to answer that question?
20 This is Norman Pedersen with the Southern
21 California Generation Coalition, he represents
22 that. And I'm not sure if what she's asking is
23 exactly in that same --

24 MR. PEDERSEN: No, I didn't catch it was
25 exactly the same.

1 Would you restate your question which was
2 directed, I thought, to Rodger Schwecke?

3 COMMISSIONER GUZMAN ACEVES: No.
4 Initially it was a little -- a question to Colin.
5 But I think my question is actually for the
6 suggestion you were just making regarding the
7 additional fix, not just on fixing the price
8 increase on the OFO penalty.

9 MR. SANTA CRUZ: The balancing to the
10 burn instead of fix?

11 COMMISSIONER GUZMAN ACEVES: Yeah.

12 MR. PEDERSEN: That's an entirely
13 separate issue. It is in the proceeding. It's an
14 issue in a proceeding that's currently pending
15 before the Commission. The docket number is
16 A1710002. The opening briefs are due on next
17 Wednesday, the 16th.

18 And the position that we have taken, as
19 Marlon explained quite straightforwardly, is that
20 the Gas Acquisition Department should, like all
21 other customers on the SoCalGas system, or non-
22 core customers at least, they should balance to
23 their actual daily burn which can now be
24 determined through the Automated Metering
25 Infrastructure system that SoCalGas has put in

1 place at a cost of over \$1 billion. We ought to
2 be getting more for our billion dollars than just
3 getting rid of a lot of meter readers. And what
4 we ought to be getting is the Gas Acquisition
5 Department doing just exactly what the non-core
6 customers do, and that is balance their actuals.

7 And actually, in the testimony that has
8 been filed in the proceeding jointly with SCGC
9 and The Indicated Shippers, we have data that
10 shows, and this will be in our brief, we have
11 data that shows that the Gas Acquisition
12 Department avoids noncompliance charges by
13 balancing to a forecast.

14 But when you take into account the error
15 in the forecast, for a substantial number of days
16 when OFOs are declared they are actually putting
17 the entire system out of balance. And the
18 overage that Marlon was talking about, that Mr.
19 Santa Cruz was talking about, when non-core
20 customers overreact to say a low OFO declaration
21 and buy even more gas than they need, they err on
22 the far side, they go high, okay, instead of
23 being low. The Gas Acquisition Department not
24 only just gets up within the five percent
25 negative imbalance tolerance, but because of the

1 error in the forecast, they're way below what
2 they would have needed to bring into the system
3 to be in balance. And as a result, the entire
4 system is out of balance and the differential
5 can't be made up by the overage that occurs
6 because of the non-core customers overshooting
7 the mark.

8 COMMISSIONER GUZMAN ACEVES: Okay. Thank
9 you.

10 And I just wanted to also get another one
11 of Colin's suggestions, the slide is not back up,
12 but his longer-term suggestion and get some
13 feedback from some of the others here on that
14 suggestion. And this was, again, to implement a
15 gas supply procurement tariff.

16 MR. SCHWECKE: Commissioner, I'll go
17 ahead and jump in. You know, very interesting
18 proposal. It takes us back to the 1980s in which
19 SoCalGas used to buy all the gas for all the
20 generators until it was unbundled and that non-
21 core customers started buying their own supplies.
22 I think it's something that has to be, obviously,
23 looked at, can be looked at. We'll have to look
24 at what requirements there are because now you'll
25 be putting the requirement -- their concerned

1 about gas acquisition group balancing to a core
2 forecast, this will -- is a magnitude of ten.
3 And then also, is there any cost subsidy that
4 would occur by doing this between -- to non-core
5 customers to core customers?

6 Gas acquisition, and they can talk more
7 about it, their mission is to buy gas at the
8 lowest price possible for their core customers.
9 Adding this in, what will it do? Obviously,
10 something that could be explored.

11 CHAIR WEISENMILLER: I was actually going
12 to ask in -- well, Heather, tell people when
13 comments are -- written comments are due. But I
14 would assume they're going to ask for any and all
15 suggestions, but part of it would be, certainly,
16 reacting to this list in your written comments.
17 And again, certainly happy to have other ideas
18 thrown in. But let's at least make sure that we
19 get some thorough vetting. I don't know if
20 anyone else has got --

21 MS. RAITT: Written --

22 CHAIR WEISENMILLER: -- specific
23 recommendations. But again, in getting comments
24 on this, any and all specific recommendations
25 would be useful.

1 MR. SMUTNY-JONES: Can I ask just a quick
2 question? Sorry, Mr. Chairman.

3 Who is actually procuring this gas?

4 CHAIR WEISENMILLER: Go ahead.

5 MR. CUSHNIE: So the proposal is that the
6 Gas Company would procure this gas under -- with
7 CPUC oversight. It would be a cost-of-service-
8 based tariff. There's a lot of different ways it
9 could be structured but, you know, conceptually,
10 you would probably want it to be a daily reset
11 based on actual costs. And there would be a
12 balancing account so if they over collected one
13 day, they'd refund down the road. If they under
14 collect, they have to recover more. But they
15 would be able to publish a tariff price for the
16 commodity that would be available to electric
17 generators. And then you would look to the munis
18 and the CAISO to give forecast of what the next
19 day's gas demand is so that the Gas Company could
20 procure to those gas demands.

21 You know, I mentioned in our comments,
22 each of us as individual generators have a lot of
23 variability in our gas burns on a day-to-day
24 basis. But the CAISO's system in aggregate has a
25 lot less variability, so the CAISO can forecast

1 with much greater certainty what the total gas
2 demand is, and therefore it will reduce the
3 operating pressure that the Gas Company is
4 currently having to manage with electric
5 generators swinging high or low on their system.

6 MR. SMUTNY-JONES: Mr. Chairman, we'll be
7 happy to look at this. I'm just cautious about
8 going back to a system that we deliberately left
9 for some good reasons.

10 CHAIR WEISENMILLER: Back to the future.
11 Yeah.

12 COMMISSIONER GUZMAN ACEVES: Mr. Smutny,
13 are you saying you don't like the central buyer?

14 MR. SMUTNY-JONES: I don't want to wander
15 in -- I don't want to wander into other subject
16 matters. But, you know, I do think we've moved
17 in the direction we're in today. It seems to me
18 that based on what I heard today the primary
19 problem is the infrastructure that's used to
20 deliver gas has some fundamental problems to it.
21 That's not only just Aliso Canyon, which we might
22 want to look at is, is there any more
23 flexibility? I know that's a third rail and I
24 don't want to go necessarily down that road. But
25 is there more flexibility out of that? And can

1 we get the rest of the pipelines fixed?

2 And I recognize the big elephant in the
3 room is we have a state that's making commitments
4 that we're going to get off fossil fuels, so how
5 much money do we -- are we supposed to spend on
6 the existing infrastructure? I think the
7 existing infrastructure is going to be with us
8 for a while. That gas leak needs to be there to
9 keep the lights on. And it is less utilized
10 today than it was ten years ago but it still --
11 we still have nighttime here and we still utilize
12 those power plants to meet some pretty
13 incredible, you know, ramps.

14 So the question from my perspective is
15 what's it going to take to fix the pipes? What's
16 going to fix -- what's it going to take to fix
17 the storage and recognize the fact that we're
18 basically going to be maintaining this system for
19 a bright and beautiful tomorrow where you can,
20 you know, take hovercraft and tunnels underneath
21 Los Angeles, and it's going to be a much
22 different world.

23 But I think for the meantime, we have to
24 maintain what we have. It was working okay.
25 This is kind of a new problem here. And before

1 we start going back to where we were, you know,
2 20 years ago, maybe we ought to look at what we
3 can do with the existing infrastructure to make
4 sure that these cost issues, which sound to me
5 that's everyone is in agreement, this is a supply
6 and demand problem, get fixed.

7 CHAIR WEISENMILLER: Yeah. Okay. So
8 we're going to take a break. Be back here by, I
9 was going to say quarter to.

10 MS. RAITT: Okay.

11 CHAIR WEISENMILLER: Yeah. So we'll
12 split. We're, you know, we're running a little
13 bit late.

14 (Off the record at 1:03 p.m.)

15 (On the record at 1:48 p.m.)

16 MS. RAITT: So we can go ahead and get
17 started back with the workshop on Southern
18 California Natural Gas Prices.

19 And so our third and last panel for today
20 is on Natural Gas Price Impacts on Core and Non-
21 Core and Non-Electric Generation Users. And the
22 Moderator is Jean Spencer from the CPUC.

23 So thank you, Jean.

24 MS. SPENCER: Good afternoon and welcome
25 back. So this panel will be focusing on -- we've

1 heard already -- closer.

2 So earlier today, we heard about getting
3 gas onto the system, and we've heard from the
4 non-core electric generators. So this panel will
5 give a chance for other market participants to
6 let us know their views, including non-core/non-
7 electric generators, and the core customers of
8 the Gas Acquisition Department which purchases
9 gas for the core customers at SoCalGas.

10 So I'll let you all introduce yourselves
11 as you begin your presentation, but we'll start
12 with Evelyn 'Evie' Kahl.

13 MS. KAHL: Good afternoon and thank you
14 again for the opportunity to talk about this
15 issue.

16 I wanted to start with an observation of
17 what's gone right from the perspective of
18 customers. And two things happened a few years
19 ago that prepared, to some degree, for this set
20 of circumstances.

21 One was we worked hard on curtailment
22 priorities to figure out who to protect, how much
23 to protect, and what the curtailment order would
24 be in the event of an actual need for a
25 curtailment. The other thing we did was to work

1 on balancing rules which led to the OFO rules and
2 which have really helped, I think, keep the
3 system in balance. So those things have gone
4 right. And it's really important to us that
5 those continue to stay on the books.

6 When I look at the EPUC cost impacts, and
7 again, I probably can't talk about those in
8 detail, but they came in three flavors. They
9 came as increases in electricity prices that they
10 purchased from Edison, increases in gas costs and
11 that was basically the co-gen gas or the
12 operational gas, and then the OFO penalties or
13 noncompliance charges. So they have been
14 affected in many ways by what has been going on
15 in the last few months and they've handled it
16 differently. They're all differently situated,
17 so some have handled it better than others.

18 And just to give you a sense of the hurt
19 with respect to the SCE under collection, my
20 group alone will bear 10 to 15 percent of that
21 over the next year, so it's a big hit for this
22 industry.

23 But the thing I did want to touch on was
24 the core balancing issue, just briefly again. I
25 know we talked about it this morning.

1 And I don't have the advancer.

2 So as was explained this morning, non-
3 core balances to actual core does not, or
4 balances to forecast. And so the consequences for
5 that are when the core is out of balance what can
6 happen is they can actually cause an OFO. They
7 can increase the penalties for an OFO and just
8 generally have an effect on all other non-core
9 customers. And they don't affect the core,
10 really, because they don't really pay the
11 noncompliance charge because they're balancing
12 the forecast. So again, what the core does
13 deeply affects the non-core costs.

14 And I pulled out of the Commission's
15 report Figure 8-A there. And it was just a
16 snapshot of how the core did in its forecasting
17 during the period of February to March of 2018,
18 and so it's basically 30 datapoints. And the
19 report noted that there was some problem with
20 forecasting, but I think it understates the
21 problem with forecasting.

22 If you look at that particular slide and
23 you look at how much is below the line, which was
24 the amount that's really impacting the low
25 deliveries, it's pretty significant and it's

1 pretty regular; it's about two-thirds of the
2 time. And so sometimes that might be, you know,
3 a couple percent, sometimes it might be more, but
4 it's a very important amount.

5 And as Norman Pedersen was mentioning
6 earlier, Cathy Yap did some analysis of the core
7 balancing in the case before the PUC and she
8 found that in 2016 and '17, they were exceeding
9 their tolerance by 103 percent on average, and
10 for 2017 to 2018, they exceeded their tolerance
11 62 percent on average.

12 So to us this is a really, really
13 important matter that needs to be fixed. It's
14 something we've known about, again, for years.
15 You know, like the lines, these are not new
16 issues. We've been talking about this for a long
17 time. And so it's really critical to us that
18 this gets done and this gets done quickly at the
19 PUC so that core has the right incentives to
20 start balancing.

21 So I won't go on, on the maintenance
22 issues since I've already touched on those. But
23 again, I think that's our key message, is it's
24 the maintenance. And there are many other things
25 that we need to do to prepare the system for all

1 kinds of events. But if we get the maintenance
2 solved and get it solved soon, it's going to
3 provide a relief to the increased costs and
4 operational effects we've been experiencing.

5 So thank you.

6 MS. KAHL: So we'll hold for questions
7 from the Commissioners until everyone has spoken.

8 Carolyn?

9 MS. KEHREIN: Hi. Carolyn Kehrein, and
10 I'm representing Energy Users Forum.

11 Oh, thank you, I will. Let's see, I
12 guess I should get situated. Yeah. Please bring
13 the slides up.

14 MS. RAITT: I am sorry.

15 MS. KEHREIN: Bring the slides up. Thank
16 you.

17 So EUF represents a broad group from
18 medium commercial to large industrial customers.

19 A little bit, sorry, closer? Is that
20 better? Sorry.

21 EUF represents a diverse group of medium
22 commercial to large industrial customers across a
23 number of industries. I am here today to talk
24 about the impact on electric consumers. And so
25 far we've talked a lot about the Edison billion

1 and the ISO day-ahead market. I wanted to hit a
2 few other aspects.

3 Let's see. Oops, not that one.

4 MS. RAITT: Okay.

5 MS. KEHREIN: That's the prices. There
6 is a .pdf of a PowerPoint.

7 MS. RAITT: Okay.

8 MS. KEHREIN: Sorry. Ignore what's up
9 there until she finds it. But, sorry.

10 So the unusually high prices at the SoCal
11 citygate have significantly increased not just
12 the short-term prices, the ISO day-ahead prices,
13 they've also had a significant impact on the
14 forward curve. And what went up, there we go,
15 what was -- wait, there we go -- sorry about
16 that.

17 MS. RAITT: I'm sorry.

18 MS. KEHREIN: Which button?

19 MS. RAITT: I can --

20 MS. KEHREIN: There we go. Thank you.

21 What she had up earlier was a tabulation
22 of the different prices. And I've included that
23 just to show you how the prices have changed over
24 time, but we'll get to that later.

25 Edison's ratepayers, those of us that are

1 involved are aware of the billion dollar
2 shortfall. But the average customer doesn't see
3 the impact today; they will see it down the road
4 but they're not seeing it as it happens. But
5 there is a group of customers that see the impact
6 immediately, and that is direct-access customers.
7 The reason why the utility customers don't see it
8 is because of balancing accounts and mushing this
9 with that and, you know, all the different
10 shortfalls and over collections get mixed
11 together and sometime down the road it will get
12 put into rates.

13 But direct access customers, they drive
14 their own procurement, so they're deciding when
15 to purchase. So they are watching market prices
16 and so they have seen forward prices go up and,
17 also, ISO passthrough charges. Those, they don't
18 see quite as quickly. There's like a one- to
19 five-month lag. But still, I mean, compared to
20 the old utility timing, five months of a direct
21 impact is a lot better than what you see as a
22 utility customer.

23 And I was thinking that Michael Shaw was
24 going to be here and talk about the ways that all
25 these high costs have impacted customers. But

1 just one quick example of what happens when the
2 utility bill goes over, they don't have money to
3 put on their energy efficiency budget. You know,
4 if you have to find money somewhere to pay a
5 really high utility bill, it's got to come from
6 somewhere. And so one of the places it comes
7 from is discretionary capital spending.

8 But as far as -- could you flip the
9 next one, since I'm really poor at doing that?
10 Thank you.

11 So where are the increases coming from?
12 Customers buy their power in four different
13 markets. They buy it in the ISO day-ahead
14 market. And because nobody can get their
15 schedule perfect to the, you know, hundredth of,
16 you know, a megawatt, you also buy in the ISO
17 imbalance market, the ISO real-time market. The
18 third place is fixed forward financial contracts
19 and then, also, physical contracts. For
20 instance, a lot of the RPS contracts are long-
21 term physical contracts. So the supply is a mix
22 of those things. And the physical contracts, of
23 course, are normally fixed price.

24 The other -- so there's the power --
25 there's the cost of power that direct access

1 customer sees. And then it also sees a number of
2 ISO passthrough costs. One of them is
3 congestion. And earlier today, I saw a slide
4 that had SB 15 pricing. One of the things you
5 need to realize is that there's congestion
6 between SB 15 and the SCE trading hub. So
7 there's additional money that the customers, when
8 you see those prices and the change in prices,
9 the congestion went up, also, so that understates
10 the change. I just noted that when I saw SB 15
11 prices today. So there's been a lot of
12 congestion.

13 I just took a little snip there from one
14 of the recent ISO reports. It's a two-year trend
15 by quarter of congestion, so just to give you an
16 idea of how much congestion has gone up.

17 The other thing is bid cost recovery.
18 ISO recently noted that this year -- 2018 was the
19 highest by a lot since 2011. And then different
20 types of real-time offsets. And once again,
21 they're up about 60 percent this year, so ISO
22 costs have also gone up. So it isn't just the
23 day-ahead prices, it's also the forward prices
24 and the ISO prices.

25 And I'm glad somebody mentioned, I think

1 it was Mark, this is not just an Edison problem
2 or San Diego problem. PG&E's customers, their
3 costs have gone up, too, because of the way the
4 congestion causes dispatch which then causes a
5 more expensive unit from PG&E to be called on,
6 which then raises the price in PG&E. So
7 everybody is seeing this.

8 Next slide. Sorry.

9 What I wanted to do is give you an idea
10 of what the bill impacts really were. So I
11 mocked up three different types of direct access
12 customers here. The first one is what I would
13 recommend which is a balanced approach. You're
14 not betting your horses all on one thing. It's
15 got a mix of the day-ahead, some short-term fix.
16 Short-term fix is, for instance, if you were in
17 November, it would be buying December. So some
18 of it would be a fixed forward price a month
19 ahead. Some of it would be one year ahead. And
20 actually, we buy much further out than that but
21 this is a simple example. And also, you can
22 avoid being in the imbalance market. I assume,
23 just because it was easier, didn't want to make
24 it more complicated, this is just -- I assumed
25 the customer only operated on peak.

1 What it does is the columns there, one
2 has what the price was for November '16. The
3 other -- next column is November '18. So if you
4 go from 2016 to 2018, for each one of those
5 markets, how did the price change? And so for
6 the balanced approach, the cost of electricity
7 commodity would have gone up 32 percent.

8 If somebody -- a lot of companies talk
9 about, you know, especially on the gas side, they
10 do index, so I wanted to do an index example.
11 And this one assumes that about half the energy
12 is bought at a fixed price the month before and
13 half the energy is bought at the day-ahead
14 market, and with a little bit of the real-time.
15 That one, your price would have gone up 84
16 percent from 2016, November 2016 to November
17 2018. And if you only bought fixed forward, so
18 you locked it all year out, it still would have
19 gone up 50 percent.

20 Now there's a chart that was put -- was
21 up earlier. But I just wanted to note that the
22 whole fixed price curve has gone up. I mean,
23 just like, for instance, in November, August was
24 up quite a bit. So August, you know, if you
25 compare August from '16 to August of '18 or

1 August of '19, the prices have gone up a lot. So
2 it isn't just a short-term problem, it's driven
3 up the whole forward price curve and not just
4 for, you know, electricity, also for gas.

5 But the point is, is that these are --
6 have been real -- the increases have been real,
7 they've been significant, and they've harmed
8 businesses in California.

9 Sorry for taking a little bit extra time.
10 Thank you.

11 MS. SPENCER: Thank you.

12 So we'll go to JaWaad Malik.

13 I think I forgot to mention that, as Ms.
14 Carolyn mentioned, that Michael Shaw will not be
15 with us.

16 MR. MALIK: Thank you. Is the mic
17 distance -- this is fine? Closer? Okay.
18 Better? All right.

19 Good afternoon, respected Commissioners
20 and Panel. It's good to be here to be able to
21 participate in this very important workshop. My
22 name is JaWaad Malik. I'm the Vice President of
23 Gas Acquisition at SoCalGas. I've had that role
24 for about the last six months. Prior to that, I
25 was the Vice President of Accounting and Finance

1 for SoCalGas.

2 As a reminder, I am a market participant.

3 And we are an independent body at SoCalGas that
4 operates on the behalf of core customers, both
5 for SoCalGas core customers and San Diego Gas and
6 Electric core customers.

7 The goal of my role in my organization,
8 Gas Acquisition, is to provide core gas
9 reliability at the lowest cost possible. And we
10 use several tools in order to do so, to help our
11 customers have core gas reliability and core
12 pricing.

13 I just have one visual that I wanted to
14 share, that will help some of the discussion
15 here.

16 This is a pretty old chart. Most folks
17 have seen it. But what I wanted to talk about as
18 far as some of the tools and assets we have to
19 protect the core from price variability and
20 provide a low cost is our price supply is diverse
21 across the western half of the basins. We buy
22 gas up in the Canada area, the Rockies, San Juan
23 and Permian Basin. We try to make sure we have a
24 nice diverse supply of gas suppliers. And
25 coupled with that, we ensure that we have

1 adequate interstate transmission pipeline to
2 ensure that we can bring some of that gas into
3 the border areas.

4 And then coupled with that, we're
5 proactive in ensuring that we have proper BTS or
6 local transmission rights, as well, so we can
7 bring gas from point A to point B, and also limit
8 some of the exposure to one particular point,
9 whether it be citygate or the basin or the
10 border, whatever the case may be, just bringing
11 some diversity to our portfolio.

12 Also being responsible for the core, we
13 do have core rights to storage. We ensure that
14 we are maintaining those rights as far as their
15 injection rights are concerned and withdrawal
16 rights are concerned to ensure, again, we're
17 providing core reliability and low cost to our
18 customers.

19 Some of the things that we've done to do
20 so is ensuring that storage levels are adequately
21 being utilized. Although, as we've discussed
22 earlier in some of the other panels, over the
23 last several years, we've had restrictions on
24 Aliso Canyon usage which has restricted some of
25 the flexibility that the core has had in the past

1 to provide, you know, price variability
2 protection during certain times of demand spikes

3 The other thing the Gas Acquisition Team
4 does, we have a bunch of professionals that are
5 very, very skilled at what they do. And we also
6 have open communication with the PUC, including
7 the Energy Division and the Public Advocates
8 Office, I got that right. And we have biweekly
9 meetings with that body where we talk about some
10 of the things that we're working on as far as
11 strategy is concerned, and also winter
12 reliability which is top of the mind for me and
13 my organization, to make sure we have winter
14 reliability for our customers.

15 And, you know, we've talked about the
16 pricing issues. We've talked about OFOs. We've
17 talked about infrastructure. You know, what my
18 focus today really is, is an overview of what Gas
19 Acquisition does, our responsibility to core
20 customers, our responsibility to make sure we
21 have core reliability. And also to talk about
22 during times of high demand, like we saw last
23 summer. And when citygate prices can be much
24 higher than border prices, by proactively
25 acquiring various assets, as I described, making

1 sure you have a diverse supply of gas sources,
2 and you have local transmission coupled with
3 interstate transmission, you know, SoCalGas core
4 customers were also seeing certain price
5 increases. But it was mitigated by the fact that
6 we had lots of our purchases in the basin and
7 border areas.

8 So again, we are not protected from
9 higher prices if it's at citygate, or it could be
10 border. We saw higher prices at the border back
11 in 2014 when we had really, really cold
12 temperatures in the east, so it can flip. But
13 recently, with the higher prices at citygate, we
14 have a portfolio that's been able to protect our
15 core customers from some of the higher pricing
16 and also continue to provide the core
17 reliability.

18 With that, those are kind of my prepared
19 remarks. And I'll answer any questions, as
20 mentioned.

21 CHAIR WEISENMILLER: Yeah. This is Bob
22 Weisenmiller again. In general, how does your
23 price forecast match actuals over say
24 your --

25 MR. MALIK: I'm sorry. Our price

1 forecast?

2 CHAIR WEISENMILLER: Yeah.

3 MR. MALIK: So we receive our forecasting
4 for demand use from an independent department.

5 CHAIR WEISENMILLER: Really?

6 MR. MALIK: It's the gas forecast that's
7 provided the day of gas flow. And that is the
8 forecast that we balance to on a daily basis.

9 CHAIR WEISENMILLER: Yeah. No, my
10 question was if you looked at what you had
11 expected to pay, what your gas procurement costs
12 were expected to be last year, how did you do?

13 MR. MALIK: Well, we have a mechanism
14 that measures that performance. It's called a
15 gas cost incentive mechanism. Every year there's
16 an annual review of how purchases performed on
17 behalf of the core by Gas Acquisition compared
18 against publicly-provided indices, whether it's
19 inside FERC --

20 CHAIR WEISENMILLER: Yeah.

21 MR. MALIK: -- or other public indices,
22 as well.

23 CHAIR WEISENMILLER: Yeah. But again,
24 I'm just -- we've heard earlier about Edison
25 having a big gap. I'm just trying to understand

1 how you did in a comparable period of time, you
2 know, if you also paid much higher or lower or
3 what?

4 Yeah, go ahead, Carolyn, if you have the
5 number.

6 MS. KEHREIN: Well, I just -- from an
7 electric side.

8 CHAIR WEISENMILLER: Right.

9 MS. KEHREIN: So having this flow through
10 electric, of course --

11 CHAIR WEISENMILLER: Well, actually, no.
12 I'm trying to understand their --

13 MS. KEHREIN: All right. Yeah.

14 CHAIR WEISENMILLER: We've talked a lot
15 about --

16 MS. KEHREIN: Okay.

17 CHAIR WEISENMILLER: -- their core
18 procurement. And I'm just trying to get that
19 number for that.

20 MS. KEHREIN: Yeah.

21 COMMISSIONER GUZMAN ACEVES: Mr.
22 Chairman --

23 MS. KEHREIN: Okay.

24 COMMISSIONER GUZMAN ACEVES: -- perhaps a
25 more specific question is did you have to trigger

1 on your five percent margin for your gas
2 incentive program? You stayed within the -- you
3 didn't have to put a trigger application because
4 you were out of bounds of your forecast?

5 MR. MALIK: No, we were not. But the gas
6 purchase, I think you're talking about a gas
7 purchase forecast. That is a regulatory account
8 that we balance against. I do not know offhand
9 how we did versus that. That is something we can
10 follow up with.

11 CHAIR WEISENMILLER: Yeah. No, that
12 would be good. Just if you could submit it
13 later, that would be good.

14 MS. KEHREIN: I just wanted to note that
15 from an end use customer point of view and
16 budgeting that this -- the variance between what
17 people thought was going to happen and what
18 happened varied because not everybody did the
19 same thing, but probably about 10 to 30 percent
20 on the commodity they were off in 2018.

21 COMMISSIONER GUZMAN ACEVES: I guess I
22 wonder, I know, Evie, you provided some
23 recommended solutions earlier, but I wonder, you
24 certainly have outlined the problem but were
25 you -- did you have specific suggestions or

1 recommendations?

2 MS. KAHL: Ours aren't new. Ours were
3 already mentioned today, which is fix the
4 infrastructure. The system was tight. You know,
5 we don't have surplus infrastructure. We -- and
6 so whenever a piece falls out something happens.
7 And so -- and I -- it was educational to hear
8 what the constraints were in getting the pipeline
9 back in service. And it sounds like at this
10 point there's nothing else we can do but it's
11 doing everything we can do make sure that the
12 pipelines are operating at full capacity as soon
13 as possible. And I support using Aliso, more
14 flexibility.

15 I mean, the amount of money that it has
16 cost, I mean, we're talking, you know, millions
17 of dollars for particular customers that the
18 improvement -- you know, the \$25.00 penalty on
19 OFO and the impact of that on the gas prices that
20 day and the volatility. And the volatility is
21 killing us. I mean, that's something else that
22 we haven't talked about today. But the fact that
23 the OFO penalties are there, it's been increasing
24 the volatility on the basis price. And so I know
25 I'm -- so it's costing us so much, we're having a

1 hard time seeing the benefit that was gained.

2 And so we hope that some of the proposals
3 that were made earlier today by SoCalGas, as far
4 as getting a little bit more leeway on Aliso
5 Canyon, we'd support that, and also getting rid
6 of the \$25.00 level on the OFO penalty. Yeah,
7 that's a thing that could be done right away that
8 we would totally support is getting rid of the
9 \$25.00 level on OFO penalties.

10 CHAIR WEISENMILLER: I'm just going to
11 thank folks. I think we've hit things pretty
12 well in general.

13 So, Jean, if you have questions, go
14 ahead.

15 MS. SPENCER: I have one follow-up
16 question. And this is directed at Evie, but if
17 anyone else would like to explain, as well.

18 This morning Rodger Schwecke was saying
19 that if core had to balance the actuals, then
20 they would be (indiscernible).

21 COURT REPORTER: Could you speak more
22 directly into the microphone? Thank you.

23 MS. SPENCER: Do you feel like that is a
24 legitimate concern or what are your thoughts
25 about that?

1 MS. KAHL: Again, you're asking a lawyer
2 a question about economics. But with that
3 caveat, I guess that's not something I hear
4 inside our group. That's not a dialogue I hear.

5 What I hear more often is that the core,
6 basically, that the core has access to cost-of-
7 service asset. They have all the storage and
8 they are paying cost of service for that asset.
9 And they are using that asset when there is
10 excess storage capability to trade in the market,
11 so they're driving up our cost by using a cost-
12 of-service asset and charging us market prices.
13 That's the complaint hear more often than if you
14 get the core out there, you know, they'll drive
15 up prices. That's not something I hear.

16 MR. MALIK: Yeah. I can respond to that.
17 Again, the basic fundamentals of the core
18 Gas Acquisition Group is reliability for the core
19 and providing lowest prices for our core
20 customers.

21 When it comes to the asset, I think one
22 thing that's changed since the restrictions on
23 Aliso is our -- the Gas Acquisition purchasing
24 strategies have modified, meaning in the past
25 when we had full access to storage the baseload,

1 which is an annual purchase plan from the border
2 or basin, would be adequate to meet a full year's
3 load because you can balance some of the demand
4 off the storage.

5 With some of the restrictions in Aliso,
6 to meet winter reliability, as I mentioned
7 earlier which is one of our key goals, during the
8 winter months if there is not sufficient storage,
9 SoCalGas is also -- or Gas Acquisition is also in
10 the market trying to procure gas to make sure
11 that we are providing the supply availability for
12 our core customers.

13 So back to the OFO and balancing issue,
14 you know, right now the rules are Gas Acquisition
15 balances to a forecast, and that forecast is
16 provided the morning of the gas trading day by an
17 independent function. OFOs are typically called
18 the day before, so an OFO is typically called the
19 day before, the forecast is received the gas day
20 of, and then we balance or Gas Acquisition
21 balances to that forecast. This was under the
22 Omnibus Decision a few years back and that's
23 currently what we, you know, what we participate
24 under.

25 CHAIR WEISENMILLER: Okay. But how have

1 you modified your procurement strategy, given the
2 pipeline outages?

3 MR. MALIK: So --

4 CHAIR WEISENMILLER: Since you've
5 modified for Aliso, how have you done it for the
6 pipeline outages?

7 MR. MALIK: Great, great question. As I
8 alluded to when I started my prepared remarks, we
9 have a supply that's very diverse. We have
10 supplies in different areas. We have a lot of
11 interstate pipeline capacity, also a lot of local
12 capacity. Now there is some outages. It's
13 allowed us to make sure that we're all, you know,
14 making sure that the capacity that we have on the
15 BTS, on the local transmission, matches
16 completely what we're purchasing out in the
17 basins with our interstate supply. The interstate
18 supply contracts are something that we're
19 mandated by the CPUC for us to have. By having
20 those flowing supplies, we're able to meet
21 demand.

22 However, when we look at in the 1-in-35
23 conditions, that's where we have concern, as
24 well, where without the use of additional
25 supplies or use of storage assets, some of those

1 very, very cool days get very close when it comes
2 to a supply and demand match, so it is a concern.

3 The way that we're trying to continue to
4 meet demand is, again, procuring at all of our
5 available points, ensuring that we have long
6 supplies. And the only change that I mentioned
7 before is we're purchasing in times where we
8 normally would be relying on withdrawals from the
9 full use of assets, and that's what I meant
10 earlier.

11 MS. ELDER: Then if I can jump in.
12 Sorry. I'm getting the impression that you're
13 having to buy your last increment of gas at the
14 citygate more often than you used to. Is that a
15 reasonable interpretation?

16 MR. MALIK: Again, I'll address the
17 question, but just being a market participant, I
18 didn't want to get into any of our procurement
19 strategies. But citygate, along with all of the
20 other different areas that I talked about from
21 supply purchases, they're all part of our
22 portfolio. We do make purchases at the border,
23 the basin, and at times it could be citygate. I
24 can't get into that exact strategy of where we
25 purchase our gas.

1 MS. ELDER: And then my next question was
2 going to be, have you talked to the Gas
3 Transmission Group and Storage Group about ways
4 that within these restrictions on communication
5 between market participants and the system
6 operator, that you could potentially use some
7 additional space on the system to get a little
8 bit more gas into storage?

9 MR. MALIK: I heard conversations this
10 morning about some of the ideas on utilizing
11 storage, whether it's shifting storage capability
12 from Aliso into the non-Aliso fields. But the
13 way we're set up today, Gas Acquisition does not
14 have discussions with the operator, so we are
15 not.

16 MS. ELDER: Okay.

17 MS. SPENCER: I just wanted to clarify,
18 if you could clarify something you said earlier,
19 which is that you're now purchasing when you
20 would normally be withdrawing. Do you mean in
21 shoulder seasons or in the summer? Sorry. I
22 should be closer to the microphone.

23 MR. MALIK: So I'll give a general
24 response to that. The purpose of that point was
25 typically in winter, winter months, we rely on

1 storage for normal demand and peak demand. Given
2 the 1-in-35 aspects, there are times where the
3 flowing supplies that we have, coupled with the
4 storage that is available to Gas Acquisition, may
5 not be enough to meet some of the peak demand
6 days. So whether it's usage of Aliso or going
7 out and being involved in active market
8 transactions could be a possibility.

9 MS. SPENCER: Sorry. Did you mean that
10 you're purchasing in the winter, just in case,
11 more than you would normally be?

12 MR. MALIK: I'm not saying we are or
13 we're not. I'm saying it's a possibility, given
14 the restrictions on storage.

15 COMMISSIONER GUZMAN ACEVES: Can I go
16 back to the pipeline question?

17 And in the first panel, I think it was
18 Evie who suggested potential incentives for the
19 company. And I wondered, did you have specific
20 thoughts?

21 I was mentioning to one of my colleagues,
22 you know, in the other -- some of our sister
23 agencies on infrastructure projects, they have
24 both carrots and sticks for getting projects
25 completed. And I wasn't sure if you had

1 something specific in mind.

2 MS. KAHL: No, I didn't. I didn't have
3 any structure in mine. But I just did want to
4 observe that the consequences all fall to
5 customers with none.

6 MS. ELDER: Commissioner -- oops.
7 Commissioner, that was exactly why I asked the
8 question about the balancing account treatment on
9 non-core throughput. I mean, in essence -- and
10 there are reasons why we have that balancing
11 account protection and I don't want to minimize
12 those. But it is the case that one of the
13 consequences of that is that when a pipeline is
14 out of service, if SoCalGas' throughput is lower,
15 there would be no financial consequence to the
16 company because of that.

17 CHAIR WEISENMILLER: Yeah. I observed in
18 May, there are code sections that if assets are
19 not being used and useful, that they can pull out
20 of rate base. That came out of some of the
21 reactions to the nuclear plants in the '70s. I'm
22 sure Ms. Kahl might be able to give you the code
23 section cite.

24 MS. KAHL: Is there a question?

25 MS. KEHREIN: Commissioner, you bring up

1 an interesting point, which is a thought that's
2 been going through my mind. There's a reason we
3 don't have way too much infrastructure and that
4 is because you have to pay for it, so you only
5 want enough infrastructure to -- so that when
6 things like this happen, you don't have price
7 spikes. You just want enough buffer, whether
8 it's a 1-in-35 or whatever it is you want to
9 build to protect.

10 And unfortunately, the way our system is
11 set up, if somebody makes a mistake, if an
12 investor-owned utility makes a mistake and over-
13 forecasts and builds more than they need, they're
14 at risk, so they've got this big stick. There's
15 no carrot for them but there's a stick as far as
16 not overinvesting. And as a ratepayer, I don't
17 want them, you know, I don't want them
18 excessively overinvesting.

19 But we went through this over a decade
20 ago on the electricity side where, you know,
21 where there were a lot of things, a lot of
22 different passthrough costs and prices that were
23 high because we didn't have enough
24 infrastructure. And now we have more
25 transmission, we have, you know, generators that

1 are more appropriately located.

2 And the same thing, when you think about
3 San Francisco when they, you know,
4 (indiscernible), oh, no, you know, no more.
5 We're not going to have any transmission lines.
6 We're not going to have anything. But they don't
7 get it; you don't have it, you don't have power.
8 You've got to pick.

9 And so with respect to Southern
10 California and the opposition to Aliso, if it
11 isn't going to be Aliso, it's got to be something
12 else. I mean, we need more infrastructure in
13 Southern California than we currently are using,
14 even if the pipelines are back in. And so, I
15 mean, that's -- people have to think about, you
16 know, if we aren't going to put Aliso back in,
17 I'm sure they don't want an LNG facility, you
18 know, in Long Beach to bring natural gas on the
19 1-in-35 days. So I mean, it's just -- and I
20 don't think -- it's hard to build more pipelines,
21 so I don't think we're going to get more
22 pipelines.

23 So I think to some extent you have to
24 pick the lesser of the evils, even if, you know,
25 for those that think Aliso Canyon is evil.

1 CHAIR WEISENMILLER: If this is done,
2 we'll get to public comment. Any other questions
3 for this panel? Thank you.

4 And as I said, Porter Ranch. Let's go to
5 public comment. And I have a blue card from
6 Porter Ranch. Please come up.

7 MS. RAITT: If you could go to the
8 center?

9 CHAIR WEISENMILLER: Yeah. If you go to
10 right there, that's great.

11 MR. NAJM: Good afternoon. Good
12 afternoon. My name is Issam Najm. I'm the
13 President of the Porter Ranch Council. And I
14 appreciate the time to be here. And
15 before(indiscernible), Aliso Canyon is evil.
16 We're good? That? Okay.

17 I know I have three minutes, so I will do
18 my best because I have a lot to say.

19 I've never been to a workshop where the
20 main point of the workshop was made in the first
21 slide of the workshop, and that was the
22 relationship between the prices that we
23 ratepayers are paying as a function of the
24 pipeline outages.

25 You know, people have gotten married,

1 conceived, had babies, baptized them since that
2 pipeline has been out, and it's still out. I do
3 not understand, where is the level where you say
4 enough is enough?

5 As a ratepayer, we're looking to you to
6 be the body that tells them, here's what needs to
7 happen and there will be consequences. I look
8 around the room, everybody in the room is hurting
9 except one entity, SoCalGas. There is no
10 consequence to them for any of this, of these
11 events, and we are still simply asking them, when
12 will it be back?

13 So I would implore you to say this is
14 when we need it to be back. And if it's not back
15 at that date, you should have the authority to
16 impose consequences on them. They are the only
17 ones that are not hurting in this room.

18 We went through a Northridge Earthquake
19 with pipelines busted and buildings fell down all
20 over the place, the entire valley, and we were
21 back in a lot faster time than a year-and-a-half,
22 which are still waiting for. This is
23 inconceivable to me.

24 And to say that it's too dangerous to
25 work in the desert, maybe it is time that you

1 hire someone else to do that work and send the
2 bill to them. Because if it weren't sad, I would
3 be laughing, but to say that this is because it
4 is too dangerous to work in the desert, I mean,
5 who buys that?

6 And also I would like to suggest that
7 maybe you can walk over to the Fish and Game and
8 ask them directly, when did the application for
9 the permit come in? What was the process? Why
10 did it take this long? And have it come directly
11 from them, not from the person who's telling you
12 that story.

13 You know, we have an alcoholic in the
14 room and we're simply asking them to hand over
15 the bottle. We need to take it.

16 Thank you.

17 CHAIR WEISENMILLER: Thank you. Any
18 other public comment from anyone in the room?

19 You want to check the phones?

20 MS. RAITT: Yeah. Anyone on WebEx, if
21 you can use the raise-hand function?

22 Otherwise, we'll go ahead and open up the
23 lines.

24 (Background WebEx conversation.)

25 MS. RAITT: So I'm opening up the lines,

1 so if you don't want to make a comment, please
2 mute your line. I don't think --

3 (Background WebEx conversation.)

4 MS. RAITT: I don't think we have any
5 comments. I don't think so. Do you have any?
6 We don't have any from --

7 CHAIR WEISENMILLER: Great. Let me start
8 out and say I think, you know, I'd like to thank
9 everyone for their participation today. I would
10 like to remind everyone that we have a written
11 comment period.

12 And, Heather, could you remind them of
13 the date again?

14 MS. RAITT: Yeah. January 25th, written
15 comments. And I'd just like to note that we do
16 have all the presentations posted on our website
17 now.

18 CHAIR WEISENMILLER: That's good. And
19 you know, again, I think this has been
20 informative. I certainly would like to have
21 people's comments on specific solutions going
22 forward. And you know, again, encourage people
23 to be creative on thinking through these issues.
24 Obviously, difficult time. We're trying to come
25 up with ways to move forward, you know,

1 particularly on trying to deal with the price
2 issues. But certainly, I think the issues have
3 been framed pretty well, depending upon what
4 happens, just in terms of what we're going to do
5 for the rest of the winter in terms of supply.

6 COMMISSIONER RANDOLPH: Yeah. I want to
7 thank everybody for participating. It was useful
8 to hear thoughts about possible solutions. I
9 think Dr. Najm raises a good point, that getting
10 the pipelines up and running is the most critical
11 step, but there are some less, sort of quicker-
12 term options we can take a look at, least for
13 winter reliability, so we will certainly be
14 thinking about all of those as we move forward.
15 And I really thank everyone for all the input
16 you've provided.

17 COMMISSIONER DOUGLAS: I just also
18 appreciated the comments and the input and
19 appreciate everyone being here.

20 COMMISSIONER GUZMAN ACEVES: Thank you,
21 Mr. Chairman, and to President Picker for putting
22 this together so we can have this dialogue. And
23 I certainly heard a lot of things that we can
24 move on quickly. And I know that in our brief
25 conversations, it's something -- there are things

1 we can act on that we need to very quickly, and
2 some longer-term solutions regardless, actually,
3 of the supply issue to really make sure we keep
4 some pricing constraints.

5 So thank you for your time and your
6 continued involvement. And if you have some even
7 more creative ideas or you have some thoughts on
8 your way home, please send them in. We do -- we
9 don't actually read them all the time but our
10 staff does and they tell us some of the great
11 ideas you have, so thank you very much.

12 MR. RIDER: Okay. Not much to add, just
13 thank you all for coming here today and helping
14 us figure out potential solutions and helping us
15 understand some of the issues a little bit
16 better.

17 CHAIR WEISENMILLER: The meeting is
18 adjourned. Thanks.

19 (Off the record at 2:31 p.m.)

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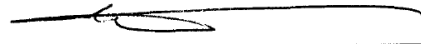
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IN WITNESS WHEREOF, I have hereunto set my hand this 13th day of February, 2019.




PETER PETTY
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Myra Severtson
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