

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

BEFORE THE
ILLINOIS COMMERCE COMMISSION

GAS AND ELECTRIC POLICY SESSION
2014-2015 WINTER PREPAREDNESS

Wednesday, October 22, 2014

Springfield, Illinois

Met, pursuant to notice, at 1:30 P.M., at
527 East Capitol Avenue, Springfield, Illinois.

PRESENT:

- Douglas P. Scott, Chairman
- John T. Colgan, Commissioner
- Ann McCabe, Commissioner
- Sherina E. Maye, Commissioner
- Miguel del Valle, Commissioner

MIDWEST LITIGATION SERVICES, by
Robin A. Enstrom, RPR, CSR
CSR No. 084-002046

1 PROCEEDINGS

2 CHAIRMAN SCOTT: I'm told everything
3 is ready in Springfield.

4 COMMISSIONER COLGAN: We're in
5 Springfield.

6 CHAIRMAN SCOTT: Or excuse me. In
7 Chicago. One of those weeks, you know.

8 COMMISSIONER DEL VALLE: It's all
9 that flying.

10 CHAIRMAN SCOTT: That's right.

11 Like to welcome everyone and convene
12 the Illinois Commerce Commission Gas and Electric
13 Policy Session, the 2014-2015 Winter Preparedness
14 Meeting.

15 With me here in Springfield are
16 Commissioner Colgan, Commissioner McCabe,
17 Commissioner del Valle, and Commissioner Maye.
18 I'm Chairman Scott.

19 As you know, we do the winter
20 preparedness meeting every year. This year I
21 think it takes on a little more significance
22 given the events of last winter and trying to
23 make sure that -- that we're prepared for a
24 winter hopefully not as bad as we had last year,

1 but obviously the conditions that we had last
2 year -- and we saw the price spikes and
3 everything else -- makes this meeting that much
4 more important.

5 So we appreciate everybody coming and
6 giving their testimony to us today. I'm going to
7 turn it over to Commissioner Colgan and also
8 thank him and Linda Wagner for the great work in
9 putting all of this together. We really
10 appreciate it and look forward to a good meeting.

11 Commissioner.

12 COMMISSIONER COLGAN: Thank you,
13 Chairman, and I echo your thanks to -- especially
14 to Linda Wagner for the work that she's done in
15 helping put this together. It's been a lot of
16 work, and I think we've got a good lineup for you
17 today.

18 As we're all aware, as the Chairman
19 just mentioned, the winter of 2014 was
20 characterized by historically cold weather,
21 record high natural gas and electric demand, and
22 in some areas of the country, very high natural
23 gas prices which translated into abnormally high
24 electric prices. The cold weather tested the

1 performance of the natural gas and electricity
2 systems and the functioning of markets which at
3 times came under extreme stress.

4 Shortly the winter months of 2014-15
5 will be upon us, and while we can hope for more
6 moderate weather, we need to be prepared for
7 similar conditions.

8 And, by the way, welcome to central
9 Illinois, and isn't it a nice day out there
10 today. Thank you all for being in here while we
11 could be out there.

12 As a result of all of this, we have
13 designed this Gas and Electricity Policy Session
14 to explore the many issues surrounding the
15 2014-2015 winter preparedness. We're privileged
16 today to have a group of national, regional, and
17 state experts on this topic who will share their
18 thoughts and experiences with us. Included are
19 representatives of RBN Energy; the American Gas
20 Association; the Midcontinent Independent System
21 Operator, MISO; PJM Interconnection; and the four
22 Illinois local distribution companies: Ameren,
23 Nicor, Peoples Gas/North Shore, and MidAmerican.

24 The Commission has asked these

1 panelists to address questions such as how is the
2 U.S. natural gas market positioned to meet the
3 2014-2015 winter demand?

4 Have the appropriate adjustments been
5 made in the coordination between gas and
6 electricity markets to avoid some of the problems
7 we experienced last winter?

8 What challenges are the RTOs facing
9 with respect to assuring electricity reliability
10 during the 2014-2015 winter months, and how are
11 they addressing those challenges?

12 Have the LDCs, the local distribution
13 companies, been able to refill gas storage
14 facilities or otherwise assure access to supply
15 for the 2014-2015 winter months?

16 Given the transmission pipeline
17 operating restrictions the utilities experienced
18 during the 2014 winter months, how have the
19 pipelines addressed those operating issues?

20 And I'm sure we're all looking
21 forward today to hearing our panelists address
22 these issues.

23 Today's Policy Session includes three
24 panels. The panels will address issues regarding

1 the upcoming winter from a national perspective,
2 then from the RTO perspective, and from the
3 Illinois distribution company perspective,
4 respectively.

5 Our first panel will address the
6 national perspective, and we have two panelists
7 for that, and if they would come forward -- Rick
8 Smead from RBN, and Brendan O'Brien, who is from
9 the American Gas Association. And I'll just
10 briefly introduce both of you, and then I'll turn
11 it over to you, Rick.

12 Rick is the managing director of
13 Advisory Services for RBN Energy, an analytics
14 and consulting firm based in the fundamentals of
15 natural gas and natural gas liquids industries.
16 He specializes primarily in the natural gas
17 sector, offering expert policy analysis and
18 advice, litigation support, and strategic advice
19 with respect to gas pipelines, potential
20 supplies, and market initiatives.

21 His background includes over nine
22 years as a director with Navigant Consulting and
23 over three decades in the natural gas industry.
24 That experience included over 20 years in senior

1 management of major interstate pipeline systems.
2 His consulting practice has spanned the domestic
3 natural gas industry, all aspects of the shale
4 gas boom, liquefied natural gas trade, and
5 consumption opportunities.

6 He was a pioneer in understanding the
7 shale boom, managing and coauthoring the first
8 major quantification of the U.S. shale potential
9 in 2008, the pivotal North American Natural Gas
10 Supply Assessment.

11 Most recently, he's been deeply
12 involved in the opportunities for the use of
13 natural gas abundance, including power
14 generation, LNG exports, and gas-to-liquid
15 technology.

16 He holds a bachelor of science in
17 mechanical engineering from the University of
18 Maryland and a law degree from George Washington
19 University.

20 Mr. Smead, we look forward to your
21 comments.

22 MR. SMEAD: Thank you, Commissioner.

23 Well, that's a complicated
24 background. I'm going to try to keep this real

1 simple.

2 Brendan and I are going to try to
3 establish the -- sort of the background against
4 which this winter will be occurring at the
5 national level and, in my case in particular, in
6 terms of just how does supply stack up this year
7 versus last year and what's been happening.

8 You know, first, in this region, the
9 thing that I've always noticed about Illinois and
10 this part of the Midwest is you got a lot of
11 pipes, got a tremendously complex network. But
12 the most important aspect of it, you got the old
13 Legacy pipes, Natural Gas Pipeline Company,
14 Panhandle Eastern, Northern Natural coming up
15 from the southwest. Got ANR coming up from the
16 southwest and the Gulf Coast. Midwestern, Texas
17 Eastern, and Texas Gas from the Gulf Coast.
18 Trunkline from the Gulf Coast. All these
19 pipelines from Canada: Great Lakes, Viking,
20 Northern Border, Alliance. And then the
21 interaction with the storage at Dawn and
22 Michigan. So a tremendously robust interaction
23 with the Canadian market. So, basically, you're
24 served from every possible direction.

1 More recently, they built Rockies
2 Express to bring Rockies gas straight into the
3 region, but the region it was going to didn't
4 actually need it. So Rockies Express goes both
5 ways and is starting up its first backhaul this
6 year -- just 200 million cubic feet a day;
7 ultimately they're moving to 1.4 Bcf a day --
8 moving Northeastern gas back into the Midwest,
9 primarily into Chicago.

10 Similarly, ANR has its Lebanon
11 project. Longer term, couple of really big
12 pipelines, Nexus and Rover, have been proposed to
13 go up into the Dawn area, but they're not this
14 winter.

15 But the bottom line is that the
16 supply abundance in the Northeast is showing
17 really major benefits in this region because of
18 its ability both to get back here physically or
19 just to free up gas that's coming from other
20 sources.

21 So what's been happening with that
22 supply? Last year the production in the
23 Northeast -- meaning basically Pennsylvania,
24 Ohio, and West Virginia -- ramped up until it got

1 to about 15 Bcf a day by March. And, of course,
2 it spiked a bit in January, dropped a bit in
3 February -- or late January and February with
4 some freeze-offs. This year it's a lot more.

5 These are numbers from Bentek -- the
6 forecasts are. They've got it flattening out,
7 but every indication is it's not actually
8 flattening out; it's following the same trend.
9 Northeast production appears to be running about
10 a total of 4 Bcf a day more than it was last
11 year. That is the equivalent of 400 Bcf of
12 storage inventory, and these fields are all in
13 the same place as the Northeastern storage
14 fields, meaning basically this production
15 supplants what the storage relied upon for last
16 year to the extent of about 4 Bcf a day, and it
17 can get back here. So it's a very, very healthy
18 situation.

19 The challenges of getting it to some
20 of the Northeastern markets are still there.
21 Pipe has not been expanded to the extent it needs
22 to be, but the middle of the country should be
23 isolated from that.

24 Meanwhile, these estimates of

1 Northeastern production keep jumping. Bentek
2 last year said that by 2018 be up to about 18 Bcf
3 a day. This year they say it will be up around
4 26 a day. Between the two years is actually an
5 increase of 7 Bcf a day in their estimate by the
6 time they get out to 2019. So that's the sort of
7 step function that's occurring every year as the
8 efficiency of development in the Marcellus shale
9 and Utica shale are just yielding
10 deliverabilities nobody ever thought could
11 happen.

12 So the implications of this
13 production growth:

14 First, with the REX reversal, the
15 Northeast is feeding Illinois directly.

16 Second, the fields are in the same
17 place as the storage fields; so production
18 replaces storage deliverability.

19 When the Northeast is oversupplied,
20 it significantly reduces the stress on other
21 supplies to the combined market.

22 Last winter a lot of stress was put
23 on Canadian supplies which was one of the things
24 that pulled prices up in the Chicago area. This

1 relieves all that. We're exporting to Canada now
2 from the Northeast. So it's a real benefit.

3 So bottom line is gas service in
4 Illinois should be very secure as a result of the
5 national backdrop against which it's working,
6 which doesn't relieve us of having to resolve the
7 various mechanical issues that are addressed in
8 the inquiry here, and we'll be happy to talk
9 about those, but it's -- every reason to believe
10 or to expect to be very optimistic.

11 I do direct everybody to our free
12 blog that we do at RBN where we tell you all
13 about this until you're sick of hearing it, and
14 the price is right.

15 And with that, I will turn it over to
16 Brendan.

17 COMMISSIONER COLGAN: Next we have
18 Brendan O'Brien. Brendan is an energy analyst at
19 the American Gas Association located in
20 Washington, D.C. He's been at AGA for the last
21 two years working on natural gas distribution
22 company core market analytics and industry
23 financial benchmark studies. Brendan also
24 manages a national scale macroeconomic modeling

1 platform for evaluating energy-related policy
2 topics.

3 Prior to joining AGA, he worked as a
4 contractor at the Department of Energy providing
5 data analysis for offices such as the Energy
6 Information Agency and the Office of
7 Weatherization and Intergovernmental Program.

8 Brendan holds a B.S. in industrial
9 engineering from Purdue University.

10 Brendan, the floor is yours.

11 MR. O'BRIEN: Thanks for having me
12 here today.

13 I'm going to talk a little bit about
14 not only our expectations for this winter but
15 also how we saw the performance on the national
16 level for the natural gas industry and
17 specifically LDCs this past winter.

18 First off, I kind of want to stress
19 our outlook for this upcoming winter,
20 particularly how prices will look for the average
21 consumer because, as we all know, winter is
22 coming.

23 So demand: We expect for the actual
24 consumption to be much more like a normal winter,

1 perhaps not, of course, like last winter but the
2 winter before.

3 In addition, something that we've
4 always noticed is that -- thinking about not last
5 winter but the winter before -- that homeowners
6 are continually expected to conserve more, and
7 certainly a long, ongoing trend of energy
8 efficiency will continue so that is part of our
9 analysis.

10 We also think that the commodity
11 price will probably increase a little bit
12 compared to the year before with only a small
13 increase to the fixed delivery cost. This comes
14 from an AGA survey that looks at year-to-year
15 bills, and we just see a small change in what
16 that was from the previous year.

17 So putting this all together, the
18 fact that we don't expect the same severe winter
19 temperatures that we saw last year and with the
20 slightly higher gas costs, we expect the price
21 for the average consumer to be pretty much not
22 dramatically different than it was in the
23 previous years. So nothing out of the ordinary.

24 So thinking about how last winter

1 will affect this winter, storage -- a very
2 important factor for everyone to think about --
3 reached an all-time low of withdrawals of over 3
4 Tcf at its lowest point sometime in the middle of
5 the winter.

6 Now, since then, we've actually
7 noticed that it's been increasing almost triple
8 digits for many, many weeks, and so going into
9 this winter we expect to be at the same point
10 that we were in the previous winter, completely
11 reclaiming all losses that had taken place with
12 the increased temperatures -- or sorry --
13 decreased temperatures that took place.

14 Going along with that, last year we
15 certainly saw increased production from the year
16 before. This year we see another 3 or 4 Bcf per
17 day of production nationwide and that, of course,
18 throws in other -- a couple hundred Bcf of
19 storage equivalent. That -- again, this was
20 something that helped last year with the cold
21 winter, and this year we have an even higher
22 margin to work from.

23 And to further reiterate, this is a
24 graph showing how much the plays with shale gas

1 has actually increased -- most notably Marcellus,
2 Eagle Ford, and then the Utica where you have gas
3 actually coming from a much closer region like
4 Ohio.

5 So going along with that, there
6 certainly are going to be potential increases in
7 demand in the future. Nothing here should be too
8 surprising. Some of these aren't necessarily in
9 concrete. Of course, we don't know how LNG
10 exports will work out in the future, but in
11 hand-in-hand with this increase in production,
12 certainly demand will help grow that because
13 there will be further need for pipelines and
14 continued production.

15 So this graph right here shows more
16 or less what the last couple years of prices have
17 been on the Henry Hub. This fits more or less
18 with what our expectations going out well into
19 2020s as far as the 4 to \$6 range. The one spike
20 noted took place during this winter, but relative
21 to what the price range was in the earlier half
22 of the last decade, we don't have the same price
23 swings that took place before.

24 And so when also talking about this

1 current winter and how we might see the prices of
2 the commodity gas going up a little bit, that's
3 relative to prices in 2013 and 2012, which are
4 significantly lower than what the long-term trend
5 has been.

6 So looking towards the future:
7 Growth in natural gas infrastructure -- talking
8 production, transportation, storage,
9 distribution -- these are all how we've gotten to
10 where we are today -- by growing these assets.
11 Well-planned, critical infrastructure development
12 is certainly a key to our future. We definitely
13 see this as a continuing trend in the long run.

14 Demand signals, among many factors,
15 have certainly facilitated real growth, not just
16 more wells being put into play. Certainly
17 there's a need for those wells.

18 Regulatory principles and precepts
19 evolve. The future of the natural gas industry
20 may include new regulatory challenges, but the
21 iterative process of industry opportunity and
22 regulatory responsibility certainly help to serve
23 all classes of customers.

24 The future of natural gas is a strong

1 and bright future with efficiency of production,
2 transportation, and, of course, direct use at its
3 core.

4 I guess at that point I'd like to
5 open up for questions, and for anyone who wants
6 to contact me, here is my personal information.

7 COMMISSIONER COLGAN: Okay. Thank
8 you, Brendan.

9 Questions?

10 CHAIRMAN SCOTT: Sure. So going back
11 to the theory about the winter not being
12 necessarily as bad, since weather is more -- is
13 localized and last year we kind of had it where
14 we got hit bad in several parts of the country at
15 the same time -- does that have to happen to mess
16 things up? I mean, if -- say, what if the
17 Northeast gets hit with another hard winter, even
18 if we don't have the same thing here, what does
19 that do to the -- to the outlook?

20 MR. SMEAD: Well, as you'd expect,
21 Mr. Chairman, the -- if another region is having
22 very severe conditions but you've still got a
23 fair amount of flexibility here, then you
24 wouldn't see any effect.

1 It would be -- it would be similar to
2 what the Northeast saw last winter where, on the
3 day that the gas price hit \$120 in New York City,
4 275 miles away it was \$4.30. And so basically it
5 depends on where the constraints happen because
6 of volatility of weather.

7 CHAIRMAN SCOTT: Okay. And, second,
8 the -- we're seeing all the trends now for more
9 natural gas being used for electricity generation
10 directly. I'm assuming there's not a lot of
11 impact from that yet, but is that -- is that a
12 fair statement? But obviously it's something we
13 expect to happen more as time goes on? For
14 either of you or both of you.

15 MR. SMEAD: Yeah. There is a fair
16 amount -- or I guess one of the things that
17 happened last winter was that, for the first
18 time, gas-fire generation was running in the
19 winter, as you know, and wasn't set up to run in
20 the winter. They did not have firm commitments
21 on pipelines to the extent that they would have
22 if it had been designed to run in the winter. So
23 we're starting to see that from existing
24 facilities.

1 The actual coal retirements have not
2 really been happening yet; and, of course, a
3 number of them are being argued about in some of
4 the regions as to, after last winter, whether
5 they should happen yet, but -- but we're seeing
6 some effect.

7 We've seen a significant increase in
8 gas-fired generation. The biggest increase that
9 we've seen, though, historically was in 2012 in
10 the summer when prices went into the basement
11 because of a very mild winter and gas-fired
12 generation swung up about 6 Bcf a day, and then
13 it swung right back down as soon as prices
14 recovered. So, in a sense, that was a pretty
15 good stress test of the system.

16 So, yeah, we're starting to see it.

17 CHAIRMAN SCOTT: Mr. O'Brien, did you
18 have anything you want --

19 MR. O'BRIEN: No, I don't have
20 anything to add to that.

21 CHAIRMAN SCOTT: Last, exports. Now
22 we're starting to -- we've seen a couple places
23 get approval to do that. Is that -- does that
24 have any impact on us here?

1 MR. O'BRIEN: I mean, there is no
2 real consensus of how much that export will look
3 like. But, I mean, we certainly don't think that
4 it will have any serious, significant impact on
5 consumer prices.

6 MR. SMEAD: Yeah. Yeah. It's --
7 basically, something around 10 or 12 Bcf a day
8 looks like an upper limit on what the world will
9 absorb, and at that level that's way within the
10 ability of the production industry to swing up or
11 down without any change in prices. So it should
12 not have an effect on prices.

13 And, in fact, we -- the industry --
14 because of this huge surge in Northeast
15 production, the industry really needs the
16 exports.

17 COURT REPORTER: I'm sorry.

18 MR. SMEAD: Sorry. The industry
19 really needs the exports. Excuse me. Yes, I
20 choke up when I talk about exports.

21 CHAIRMAN SCOTT: I guess. We can get
22 you a tissue or something.

23 The industry needs the exports
24 because?

1 MR. SMEAD: To balance the market.

2 CHAIRMAN SCOTT: To balance the
3 market. Okay.

4 MR. SMEAD: Yeah. Yeah.

5 CHAIRMAN SCOTT: Thanks. Thanks.

6 COMMISSIONER COLGAN: I had a
7 question along that same line. With the
8 increased production -- and it seems like it's a
9 significant increase -- where does all the gas
10 go? Is it -- is LNG the route that that is all
11 going to go to, or are you looking at other
12 markets for it in addition to LNG?

13 MR. SMEAD: There's also a lot of
14 expansion in the petrochemical industry along the
15 Gulf Coast. We expect -- at RBN we expect the
16 Gulf Coast to really be the epicenter of demand
17 with Henry Hub, which used to be the epicenter of
18 supply, being where it's all going; and the
19 exports, petrochemical, steel, and otherwise, we
20 look oversupplied for a while.

21 COMMISSIONER COLGAN: Mr. O'Brien,
22 you talked a little bit about how you were going
23 to expect -- we could expect prices for consumers
24 to go up slightly. Can you go into that a little

1 bit in terms of why you think -- with such a high
2 supply, why the are prices going to go up?

3 MR. O'BRIEN: Well, to reiterate,
4 when I showed the chart of recent prices -- at
5 least the Henry Hub prices -- we have been at a
6 relatively lower price point for the commodity
7 cost of the gas.

8 And so looking at this next winter,
9 we do see that the price will be a little bit
10 more what you'd expect in the long run. So that
11 certainly has a factor on it.

12 And then when you're thinking of
13 winters like the last one, you certainly had a
14 very high usage per customer. So we're coming
15 down from that.

16 So the combination of the two sort of
17 balances out to being about, you know, the same
18 as what we've had the past. Actually, I think
19 EIA has revised their outlook and are now showing
20 pretty much the same thing or even maybe a few
21 percentage points lower.

22 COMMISSIONER COLGAN: How much
23 reliability can we put on that we're going to
24 have a more moderate winter? I don't recall last

1 year predictions that we were going to have a
2 polar vortex. You know, what's the -- I guess
3 there's no way to really project that with any
4 sort of absolute certainty, but what are the
5 models that are being used for that?

6 MR. O'BRIEN: I mean, we've been
7 tracking what the NOAA climate center has been
8 proposing, and so far they've been sticking to, I
9 think, somewhere around 367 heating degree days
10 nationally at least, and compared to last year,
11 that's over 420 -- or 4,020 -- or 200 heating
12 degree days. And so that -- that 360 -- or
13 sorry -- 3,600 is more or less what we've seen in
14 years past. And so they really haven't revised
15 that much, and I think EIA has also proposed very
16 similar numbers as well.

17 COMMISSIONER COLGAN: Last --

18 MR. SMEAD: In Houston, my wife said
19 we couldn't buy a pool heater. So we're hoping
20 it stays warm.

21 COMMISSIONER COLGAN: Last year we
22 heard a lot of discussion about the coordination
23 between the electricity markets and the gas
24 markets. And I know NAESB has done a lot of work

1 in this space to try to figure out where we need
2 to be headed. Can someone -- and, Mr. Smead, can
3 you bring us up to date in terms of that process
4 and where things sit from your perspective?

5 MR. SMEAD: Sure. The issues that
6 NAESB took on all had to do with the nomination
7 timeline and the timing of the gas day, when
8 would it start.

9 You know, historically the gas day
10 starts at 9:00 A.M. central time, which is way
11 after the time that power generators need to be
12 able to change their nominations.

13 And so the FERC started this process
14 by first issuing a proposed rulemaking that would
15 make -- that would change the time to 4:00 A.M.,
16 and then saying, "Okay, Industry. Go work out a
17 consensus standard."

18 We had a lot of meetings at NAESB,
19 and all had a frank exchange of views, and
20 ultimately there was not agreement on the timing
21 of the gas day. There have been standards being
22 developed now through NAESB for all of the other
23 pieces, for the timing of the intraday
24 nominations and the sort of notice periods. A

1 lot of things to smooth the way.

2 But right now the timing of the gas
3 day stills remains largely unresolved but with
4 the understanding that both sides can probably
5 find a middle ground to make it work.

6 What that means for this winter: In
7 practical terms, I usually hear that it really
8 doesn't matter that much if you've got a little
9 bit of flexibility in the system. In essence,
10 the pipelines can juggle and make things work.
11 But it's when it gets as strained as it did last
12 year that it matters a lot.

13 And so progress is being made. FERC
14 has made it pretty clear that, if the industry
15 doesn't resolve the issue, they're willing to,
16 and that scares enough people that I think
17 something will happen at some point.

18 COMMISSIONER COLGAN: Yeah.
19 Yesterday I was at the OMS annual meeting over in
20 Carmel, Indiana, and I asked John Bear of MISO a
21 similar question. And I think an accurate
22 summary of his response was he thinks process has
23 been made, but there's a lot more that needs to
24 be made.

1 MR. SMEAD: Yes.

2 COMMISSIONER COLGAN: So would that
3 be a similar assessment that you have?

4 MR. SMEAD: Exactly. Exactly. And a
5 lot of work did go into it, but it's just
6 difficult issues and -- and it was -- it was
7 frankly made somewhat difficult for the gas
8 industry in that the FERC basically put out a
9 rulemaking that said "We hereby propose that the
10 electric industry win. Why don't you guys go
11 negotiate." And so that was how it got
12 characterized for a while; but, honestly,
13 everybody -- everybody really worked on -- and
14 pretty honestly with each other to try to find
15 the right answer, and I think we're -- I think
16 we're close.

17 COMMISSIONER COLGAN: So if we have a
18 winter that comes up and if the predictions are
19 it's going to be a more moderate winter, we can
20 expect that there won't be the kind of problems
21 that we anticipated last year. If we did have
22 another, you know, incident like we had last
23 year, would we be under similar stress, or do you
24 think we're -- we've mitigated that somewhat?

1 MR. SMEAD: It's -- it's mitigated by
2 the little bit of additional pipeline capacity,
3 by the massive addition of supply capability,
4 and -- and in some -- in a lot of ways,
5 especially in the power markets, everybody
6 learned a lot last winter. So the operational
7 expertise on both the gas and electric sides was
8 significantly enhanced because people were
9 dealing with situations they'd never seen before.

10 COMMISSIONER COLGAN: Adversity is a
11 great teacher.

12 MR. SMEAD: Yeah.

13 COMMISSIONER COLGAN: Did you have
14 something to add?

15 MR. O'BRIEN: Yeah, actually. So
16 every year AGA surveys our membership to try to
17 get an idea of how they reacted during the winter
18 heating season.

19 And one of the questions we had in
20 this past winter, being a particularly serious
21 winter, was in regards to did you have to do
22 anything special or out of the ordinary in order
23 to handle your demand.

24 And the response was around 85, 90

1 percent of the utilities said that their resource
2 plans were more than adequate to be able to react
3 to whatever challenges they faced over the
4 winter.

5 And then for those who replied that
6 there might have been something different, their
7 replies were more along the lines of we maybe had
8 to go and purchase gas on the daily market. It
9 wasn't anything out of the ordinary or anything,
10 certainly, dramatic.

11 MR. SMEAD: Yeah. That's a useful
12 comment because the -- we -- the electric
13 industry got so much focus and its interaction
14 with the gas industry. But the gas LDC
15 business -- with their -- with firm contracts,
16 with storage, and with their resource planning --
17 were just dealing with the designed condition
18 that they designed for, and it was very
19 straightforward.

20 COMMISSIONER MAYE: Commissioner
21 Colgan, may I ask a question?

22 COMMISSIONER COLGAN: Certainly.

23 COMMISSIONER MAYE: Thank you both
24 for coming all the way to wonderful and warm

1 Springfield.

2 But I wanted to ask -- maybe this
3 question might be better directed toward Brendan.
4 So I know, just in speaking to colleagues across
5 the nation, and I think a concern or, you know,
6 something that has been mentioned a lot was that
7 a lot of the gas utilities need to probably look
8 at their procurement policies and, you know, in
9 trying to think about what happened last winter
10 but also in preparing for the next one. Is that
11 something that you all discuss at AGA and your
12 members -- you know, trying to determine whether
13 or not they actually had enough in the first
14 place?

15 I mean, there was obviously a lot
16 that went wrong, and while we weren't necessarily
17 expecting what happened last winter, I think
18 across the board a lot of people think we could
19 have been better prepared anyway. So is that
20 something that has come up at all at AGA --
21 procurement policies?

22 MR. O'BRIEN: Not something that's,
23 certainly, a wide stroke across the country. I
24 can't speak to any specific scenarios where that

1 might have been an issue.

2 We actually did release a special
3 report this year that is talking about this past
4 winter and how we saw LDCs respond to it. I've
5 actually made it available for you guys for
6 afterwards to take a look at, but --

7 COMMISSIONER MAYE: Can I ask another
8 question?

9 So I know that this is not something
10 that is imminent. Obviously, we have not -- with
11 111(d), they have proposed regulations, but we
12 don't know. I mean, let's say there will be, you
13 know, a carbon rule put in effect over the next
14 couple years. With the reduction, if there is,
15 of coal plants -- with the retirement, rather,
16 of -- and that's what will happen if this rule
17 actually does go into effect. How will that
18 necessarily have an effect on future winters
19 coming, in particular to the -- as it relates to
20 the gas industry and what happened last winter
21 and what may happen in the next couple?

22 MR. SMEAD: Commissioner, it all
23 depends on what you design for. If the gas-fired
24 generation fleet is designed to run at a baseload

1 to really replace the way coal runs now, then the
2 economics of firm pipeline transportation work
3 out because you're spreading it over a much
4 bigger volume. You can have the full reliability
5 year-round and do things that can't really be
6 economically done right now by a lot of
7 generators.

8 So, in essence, a gas fleet that is
9 designed to run like a coal fleet can be
10 absolutely as reliable and as cost effective.
11 The challenge we've had has been that there are
12 other things that gas generation -- only gas
13 generation can do in terms of swinging up and
14 down to make up for intermittent renewables and
15 that sort of thing. And it's when it's filling
16 that role that a lot of these issues get really
17 complicated.

18 But the coal replacement -- as long
19 as the system is designed to run properly in the
20 coal replacement scenario, there should be no
21 issues at all, and we have more than enough
22 supply to serve it.

23 COMMISSIONER MAYE: That's good to
24 know. Thank you.

1 COMMISSIONER COLGAN: Chairman Scott.

2 CHAIRMAN SCOTT: Just a follow-up on
3 that. So that applies to both the ramp-up to 70
4 percent that's in building block two of 111(d)
5 regs, but also the anticipated kind of new gas
6 that's going to end up getting built. Because
7 one of the contentions is that the interim
8 targets, the 2020 targets, kind of force the hand
9 of a lot of new gas because that's one thing that
10 people can do that quickly to make that kind of
11 an impact.

12 MR. SMEAD: Yes.

13 CHAIRMAN SCOTT: So your answer is
14 the same concerning both?

15 MR. SMEAD: Yes. Yes. That if --
16 really, if gas -- if gas just continued on the --
17 if the gas and coal market shares of generation
18 just continued on the path they've been on since
19 1990 with no EPA overlay, they would intersect in
20 2028 and be running at about a 60 percent capacity
21 factor.

22 So it's way within the operating
23 envelope for the existing generators to move up
24 into the 70 percent range if they have -- if they

1 have sufficient pipeline capacity, and then new
2 generation layers will come in after that.

3 It is very important that each new
4 facility be designed, including the system that
5 serves it, as a total system.

6 COMMISSIONER COLGAN: Any more
7 questions?

8 Thank you, gentlemen.

9 CHAIRMAN SCOTT: Thank you.

10 MR. SMEAD: Thank you.

11 COMMISSIONER COLGAN: Our next panel
12 will be giving us the regional transmission
13 organization perspective, and we have Mike Kormos
14 from PJM Interconnection and Melissa Seymour from
15 MISO.

16 Michael, we'll kick this off with
17 you. Michael is the executive vice president of
18 operations at PJM Interconnection, and he's
19 responsible for all services that touch
20 reliability, including system operations, system
21 planning, information and technology services,
22 security, and regional coordination.

23 Previously, Mr. Kormos was the vice
24 president of system operations and has served in

1 various management and engineering positions in
2 the operations division. He was responsible for
3 the oversight of the day-to-day operations of
4 implementation of locational marginal pricing and
5 the new market structure.

6 Formerly, he was a member of the
7 operating committee of the North American
8 Electric Reliability Corporation, NERC, and
9 currently sits on the board of directors of the
10 ReliabilityFirst Corporation, the executive
11 committee of the Eastern Interconnection Planning
12 Collaborative, and the Industry Leaders Council
13 for the Consortium of Electric Reliability
14 Technology Solutions.

15 Mr. Kormos earned a bachelor of
16 science in electrical engineering from Drexel
17 University and a master's of business
18 administration from Villanova University.

19 Mr. Kormos, welcome.

20 MR. KORMOS: Thank you, and thank you
21 for having me.

22 And I will try to go through real
23 quick what we're looking for as far as this
24 coming winter and some of the steps we are taking

1 and continue to take to be better prepared from
2 the lessons we learned last winter and then even
3 touch a little bit on where we'll continue to go
4 even after this. We're not going to necessarily
5 just stop at the stuff we can get done this year.

6 So, first off, just for our
7 projections for this coming winter.

8 Looking at our load right now, what
9 we call an unrestricted load forecast, a 50/50
10 load forecast, we're looking at about 133,500
11 megawatts for our peak load. The 50/50 is
12 basically there's an equal probability we'll come
13 in higher than that if the weather is colder than
14 average, 50 percent chance we'll come in lower
15 than that if the winter is more mild than normal.
16 It also has no demand response at this point
17 taken out of that load.

18 You'll see on the capacity we are
19 summer peaking. So we are going into the winter
20 with 183,000 megawatts of capacity. While you
21 would look -- on paper we look like we have a
22 great reserve margin there, we had pretty much
23 similar margins last year as well, and we know
24 some of the challenges we had in last winter.

1 The mix of our generation hasn't
2 really significantly changed the last year.
3 We're pretty much going in with the same mix we
4 had last year as far as coal to gas. Right now
5 we have about 12,000 megawatts of coal scheduled
6 to retire, but it will not retire until after
7 this winter. It is scheduled to retire in the
8 April time frame of next year. So we're pretty
9 much going in with -- and more -- mostly a slight
10 increase in some of our gas productions. We do
11 have a couple new units coming online. Other
12 than that, our mix is pretty much as we saw last
13 year.

14 Some of the upgrades that we have
15 undertaken on the transmission side:

16 This is the ComEd footprint, our part
17 of Illinois. We put in new SVCs, static VAR
18 compensators, reactive devices that are able to
19 support the voltage, gives us dynamic control for
20 voltage. We have a fairly large one at Prospect
21 Heights substation.

22 We also put some transformers in at
23 the Waukegan and Plano substations. A number of
24 lines you'll see on that map out west where the

1 wind is, as well as into the Chicago area, have
2 been reconductored to increase their ratings as
3 well, and we do have a new generator coming
4 online. The Nelson Energy Center is scheduled to
5 start production early this winter. We expect at
6 least half that output, about 300 megawatts, to
7 be available this winter; hopefully maybe getting
8 even the other half sometime during the winter.
9 It's all expected to be online prior to next
10 summer.

11 This is just the rest of PJM. Again,
12 similar upgrades. A lot of SVCs, static VAR
13 compensators. They're the little sort of
14 turquoise dots you see at many different
15 substations that allow us to better control our
16 voltages.

17 We do have some generators in this
18 part of the footprint. They are the blue
19 circles. They are generation that is retiring or
20 has retired since last winter, but we also have
21 two new units coming on: The Crown Point unit,
22 which is all the way in New Jersey -- it's a
23 600-megawatt combined cycle -- as well as a
24 larger generation in -- it's not on the map.

1 It's actually in northwest Virginia called Warren
2 County. That's actually a 1,300-megawatt
3 combined-cycle plant as well. So there are
4 increased gas supplies. And, again, similar
5 thing here: A lot of reconductoring that has
6 been put in place to upgrade the transmission
7 system going forward.

8 We, as part of our winter
9 preparedness, run base case winter studies.
10 These are the conditions we looked at. You can
11 see we used a little higher than average load in
12 our model mainly because we put -- that -- that
13 load forecast is based on the systems in our
14 footprint not all peaking at the same time;
15 typically, the weather is diverse enough.

16 In this case, we actually have all
17 our subsystems peak at the same time. That's why
18 we have a little bit of a higher load. We are
19 looking at about a 4,000-megawatt import into
20 PJM, predominantly from MISO where we do have
21 some units that are our capacity resources. We
22 used a 183,000. And in this case, we took out
23 23,000 megawatts of generation. That is more
24 than our average but not necessarily what we saw

1 last winter, but we'll talk about that in a
2 minute.

3 In this case, we actually -- we see
4 no problems. Some of the issues we see can be
5 easily mitigated with either switching procedures
6 or off cost, running generation out of merit
7 order --- what we would see and what we've
8 normally seen during previous winters. This is
9 not necessarily unexpected.

10 In addition, though, to that base
11 case, we are going to stress the system based on
12 what we saw last winter. So in this case, we're
13 running what we call now a 90/10 load forecast,
14 which is there's only a 10 percent probability we
15 would expect to get a higher load than this.
16 This is at 142,550. That is pretty much the
17 load -- little higher than we saw last year. It
18 basically was a 90/10 event we saw last year.

19 We have also put in higher outages.
20 In this case, 41,000 megawatts of outages. That
21 is very similar to what we saw last year.

22 And this year we're also going to run
23 some pipeline contingencies. One of our concerns
24 is the fact that we know we have, in some cases,

1 significant generation running off individual
2 pipelines. But if we were to lose that pipeline,
3 if it would suffer a catastrophic failure, how
4 would that impact our ability on the electric
5 side? Those studies are being run. We expect to
6 have them finalized very shortly. They'll be out
7 for the public; and, again, we'll be happy to
8 provide those to the Commission when they're done
9 to identify if there are any new issues.

10 So a couple things coming -- the
11 recommendations that we've been working on since
12 last year. I'll try to go through these real
13 quickly.

14 The first one is winter resource
15 capability testing and preparation checklist. So
16 we've done -- gone through with all our
17 generators a winter checklist to make sure they
18 are doing the winterization. A lot of this comes
19 out of NERC and some of the experiences they've
20 had at other places. All our generation have
21 gone through that and are signing off that they
22 have gone through that process.

23 We are also offering this year the
24 ability for a generator that did not run most

1 likely since last summer -- or, in some cases,
2 since last winter -- the opportunity to come on
3 and test themselves prior to the winter. While
4 we saw a lot of weather-related outages last
5 January, we also saw some just normal outages
6 where units that had not run or had not run on
7 their secondary fuel literally in months -- in
8 some cases, years -- when they tried to start up,
9 they had non-weather-related issues. A mouse can
10 chew through control wiring and things of that
11 nature. One of the things we want to do --

12 COMMISSIONER MCCABE: How does -- how
13 does the test you're doing this year and the
14 checklist compare to what you did last year?

15 MR. KORMOS: We didn't do either last
16 year. That's the thing.

17 So, hopefully, now they'll have the
18 opportunity, if the unit hasn't run, to bring the
19 unit on and get the bugs out. So, hopefully, if
20 there is an issue that they did not realize,
21 we'll find it early in December, and then they'll
22 be better prepared to then come on. It's not
23 necessarily going to help the very cold
24 weather-related issues. It's tough to test for

1 those if we don't have those conditions.

2 The next one: A lot of it -- and
3 there's a couple of these. A lot of the issues
4 last year came in scheduling and the coordination
5 with the gas thing. Now, interestingly enough,
6 it was not a physical issue with us and the gas
7 system. From a reliability perspective, the
8 coordination we had with the pipelines last year
9 was excellent. I don't think either of us were
10 surprised. We understood what units could run.
11 They understood what units we were going to run.
12 I don't think they had any pressure problems that
13 we've seen in previous years where we didn't have
14 that coordination. For us, a lot of it came
15 down -- our biggest issue was commercial terms
16 and the scheduling issues. You know, there's the
17 idea that we don't have firm transmission. We
18 ran 30,000 megawatts of gas last year, and it was
19 all on firm transmission on the gas side. Almost
20 every one of our pipelines had an OFO against it
21 during that period of time.

22 The issue for us, though, was some of
23 the commercial terms on the commodity side that
24 generators were dealing with with ratable takes,

1 weekend packages, the price. I think everybody
2 knows what happened on the price side of it.
3 That made scheduling units very difficult for us,
4 and the fact that, in some cases, we were trying
5 to make decisions on a Friday for a Tuesday
6 because of the Martin Luther King holiday and the
7 way the gas was being packaged to the generators
8 at that time.

9 We've done a lot of work to try to
10 get more clarity, better modeling. Ultimately,
11 so if we need to make those decisions again this
12 winter, we can, but we'll hopefully make them
13 smarter, wiser than we did previously to minimize
14 any financial impact to it. I won't sit here and
15 tell you that we've solved that problem. That
16 problem still exists. Ratable take is still out
17 there. The price can still go to \$100 on us.
18 There are things that at this point we're really
19 not going to be in any position to control.
20 A lot of that has do with uplift.

21 One of the things we are looking at
22 is our cost-based and price-based offers. One of
23 the things we are trying to push through is the
24 ability for generators to at least change their

1 cost. So one of the things we saw last year was,
2 because of the volatility on the commodity side
3 of the gas, the prices were changing during the
4 day, and generators that had estimated their
5 costs were no longer able to procure the fuel at
6 that cost and were making themselves unavailable.
7 They couldn't afford to run at a loss. We're
8 putting steps in place where they'll be able to
9 update those costs. So we'll be able to at least
10 get the generator, if they can, at least
11 understanding what that price impact may be.

12 We continue to do a lot of data
13 sharing and coordination with the gas industry.
14 As I said, I think from a reliability
15 perspective, we made real significant gains last
16 year. We're continuing to work with them going
17 forward. We're also doing a lot of other -- just
18 improvements both with our neighbors on the --
19 mostly that was with our southern neighbor, and I
20 think us and MISO -- I think we -- we're very
21 comfortable we came through last winter very
22 well. Our issues were probably more to us to the
23 south at this point.

24 COMMISSIONER COLGAN: Would you agree

1 with the assessment that there's been progress
2 made, but there's a lot more work to do in the
3 coordination?

4 MR. KORMOS: Absolutely. Absolutely.

5 COMMISSIONER COLGAN: Okay.

6 MR. KORMOS: Here's another couple
7 slides: just the studies, the training, the
8 drills we do. One of the things we are doing is
9 a generation outage survey. We're going out to
10 actually find out what the inventories are, what
11 the gas commitments are, what their gas contracts
12 are, with all of our generators, to have a much
13 better handle. Last year I think that was one of
14 the other lessons we learned -- is we were trying
15 to manage who could get gas, who couldn't get
16 gas, who had dual fuel, who had maybe fuel issues
17 where we had truck drivers who ran out of times
18 on their CDL and couldn't make deliveries. We
19 had probably every issue you can imagine. Trying
20 to get a better handle. It's all going to be in
21 a database this year. It's all going to be
22 automatically updated as we contract that so,
23 again, we're better prepared.

24 You also see the meetings we have

1 with obviously all our neighbors as well as
2 ReliabilityFirst, and then I said the
3 gas-electric coordination. We've had a number of
4 meetings -- and, actually, we have a meeting
5 tomorrow at our site with all of our major
6 pipelines to talk about winter preparedness and
7 just making sure we all understand how we're
8 going into the winter.

9 My last thing is, again, as I said,
10 we're not necessarily going to stop. We'll
11 continue going on in PJM dealing with this issue.
12 In some cases, as I think the previous speaker
13 said, if we go in a normal winter, we're
14 obviously not expecting major price impacts or
15 reliability impacts. But I think last winter
16 gave us a glimpse into what the future could be
17 as we become more dependent on gas. So even if
18 we get through this winter, we still think we
19 need to make improvements. You'll see a couple
20 of things we're doing regarding how we do our
21 drills based on it.

22 We have a very big effort going
23 through -- I think most people know -- which is
24 what we call the Capacity Performance Product.

1 One of the things we recognize is we need to tell
2 the gas industry what we need. We understand
3 there is probably a need for infrastructure.
4 There will be a cost associated with that, but at
5 the same time we need the products that we need.
6 We need the services we need. We are not an LDC.
7 Our generation cannot operate like an LDC. And
8 so maybe while some of these contractual terms
9 work for an LDC who have large storage, long --
10 you know, large draws every day, for generation,
11 it does run intermittently, and we need that
12 flexibility. Obviously, at this point some of
13 that needs to be done. But what we feel we best
14 can do is basically say what we're willing to pay
15 for and hopefully have the gas industry respond
16 and being able to provide those services to us.

17 It already was talked about the
18 harmonization of the gas and electric day with
19 the FERC order. We'll wait for that rulemaking.
20 We have very publicly stated we are willing to
21 move our market. That is not an issue for us.
22 We'll move it to where -- ultimately wherever
23 people believe it makes sense to have that
24 coordination be better managed.

1 And with that --

2 COMMISSIONER COLGAN: Do you hear a
3 similar sort of flexibility on the gas side?

4 MR. KORMOS: No.

5 COMMISSIONER COLGAN: No. Okay.

6 All right. Well, next --

7 Any questions for Mr. Kormos before
8 we go?

9 CHAIRMAN SCOTT: One quick question.

10 COMMISSIONER COLGAN: All right. One
11 quick question.

12 CHAIRMAN SCOTT: I noticed in your
13 one chart you didn't anticipate any demand
14 response being out of there. Does the 745 play
15 into this at all?

16 MR. KORMOS: Plays into it a lot.

17 CHAIRMAN SCOTT: Maybe it wasn't a
18 quick question. Sorry.

19 MR. KORMOS: I mean, yeah, there's a
20 lot of uncertainty now. Our demand response has
21 typically been a summer product anyway. We asked
22 for it last year on a voluntary basis, and we did
23 get a good response. One of our issues is going
24 to be probably that the Order 745 -- we will not

1 be able to pay it in the energy market going
2 forward. So even the voluntary response we got,
3 I'm not sure we would get again if we are unable
4 to pay for it.

5 So we have put a proposal out there.
6 We are very serious about keeping demand response
7 as part of our wholesale market. We believe it
8 is absolutely essential for a well-functioning
9 market. So we believe there's a way to get
10 there, but unfortunately the transition is --
11 prevents -- you know, causes some challenges
12 going forward.

13 CHAIRMAN SCOTT: Okay. Thanks.

14 COMMISSIONER COLGAN: Our next
15 speaker is Melissa Seymour. She's executive
16 director of the MISO Central Region. Melissa has
17 16 years of experience and extensive knowledge of
18 the energy industry. In her current role as the
19 executive director for MISO's Central Region, she
20 and her team are responsible for understanding
21 the needs and the issues of stakeholders and
22 regulators and communicating MISO's position on
23 strategic MISO matters.

24 Previously, Melissa was the director

1 of regional markets and regulation for Iberdrola
2 Renewable where she was responsible for advancing
3 changes in transmission and operation rules to
4 better accommodate renewable energy into the
5 power system in both MISO and PJM and create
6 business opportunities for the company.

7 Prior to Iberdrola Renewables,
8 Melissa held various strategic planning, business
9 development, and regulatory positions at the
10 Bonneville Power Administration, PacifiCorp,
11 Southstar Energy Services, and Southern Company
12 Energy Marketing.

13 Melissa holds a B.S. in engineering
14 science and mechanics from University of
15 Tennessee.

16 Melissa, welcome.

17 MS. SEYMOUR: Thank you, and thank
18 you for having me. I appreciate it.

19 It's important, I think -- we believe
20 this is a very important topic, and we're going
21 into 2014-15 thinking through the questions that
22 you asked and preparing for what we -- you know,
23 what we could have for a winter coming forward
24 similar to the polar vortex.

1 We have projects underway that I'm
2 going talk a little bit about that prepare us for
3 this upcoming winter and get us ready and some
4 changes that we've made since we've seen some of
5 the lessons learned from the polar vortex.

6 I want to spend a little bit of time
7 just talking about the events and kind of what we
8 saw so that I can tell you why we have sort of
9 the lessons learned that we did from the polar
10 vortex.

11 Basically, we were able at the time
12 to manage our system effectively and maintain
13 reliability during the polar vortex, and we also
14 assisted our neighbors when they needed it.

15 We did have an all-time peak demand
16 in the winter on, I think, January 6th of 109.3
17 gigawatts, and that was about 9 percent higher
18 than what we've seen our peak be with the current
19 membership previously.

20 We had a maximum emergency generation
21 event that didn't occur on the peak day. It
22 actually occurred on January 7th, and that was
23 after we saw some decrease in wind generation.
24 We have about -- I think 10 percent of our energy

1 is from wind generation or capacity on our
2 systems from wind generation. We had reduced
3 imports and fewer available generating units
4 online. So we did have, on January -- or
5 about 6th or 7th, we saw sort of the biggest hits
6 to the system as a result of the polar vortex.

7 And really what -- when we talk about
8 gas and electric, the coordination and some of
9 the problems we were seeing, we -- you know,
10 basically, we saw many generators on our system
11 didn't run due to frozen components and other
12 mechanical problems. We had -- especially our
13 natural gas were idle because they were unable to
14 obtain fuel. A third problem we actually
15 encountered was generation of weather-related
16 derates, meaning that the generation wasn't able
17 to run -- was able to run but not at full
18 capacity.

19 Because of that, during these extreme
20 cold conditions, there were a number of --
21 significant number of units that weren't able to
22 meet their contractual obligations to produce
23 power when MISO called on them. So we did have a
24 number of those forced outages due to operation.

1 Some of them were due to non-firm pipeline
2 services, and MISO had to sort of rush to find
3 and secure available and often expensive
4 generation to fulfill those obligations and
5 maintain reliability.

6 But, however, we -- we actually --
7 even though we didn't know that the 6th and 7th
8 were going to be quite as -- you know, as
9 significant as they were, we had proactively
10 managed. We saw that coming a little early. We
11 did call conservative operations on the 3rd which
12 helped us, I think, manage the market generations
13 to -- which has the market generators suspending
14 all non-critical maintenance and performance. So
15 we were able to call that, which we think was
16 helpful, so we had more generation remain online
17 than we would have had otherwise.

18 Just a little bit about what we found
19 from firm versus non-firm gas in our footprint.
20 We have about 40 percent of our generation in the
21 MISO footprint is gas fired, and this is
22 basically a breakdown of what -- the generation
23 that has firm gas versus dual-fuel capability
24 versus non-firm -- non-firm gas without a

1 dual-fuel capability.

2 Going back to the event on the 6th,
3 we had about 4, 4.5 gigawatts of gas-fired
4 generation on MISO's footprint was unavailable
5 due to dispatched -- due to weather-related gas
6 restrictions. The problem actually grew worse
7 and caused outages of about 6.6 gigawatts on the
8 7th.

9 Some of these weather-related gas
10 restrictions were purely physical in nature;
11 so -- meaning generators could not actually
12 obtain the gas. However, some of the generators
13 could obtain the gas, but it was at a very high
14 price; so -- and they decided not to do that for
15 economic reasons. The gas restrictions did have
16 less of an impact on the dual-fuel capability
17 resources. We saw that.

18 MISO, as a result of all this,
19 though, doesn't plan on requiring firm pipeline
20 service for gas-fired generators in the
21 footprint. We instead are -- in an effort to
22 better understand our situational awareness or
23 improve our situational awareness, MISO is
24 gathering more detailed information from market

1 participants about the specific causes of forced
2 outages and generation outages, including outages
3 associated with non-firm pipeline service.

4 We're actually doing a very similar
5 survey, I think, to PJM to try to -- as PJM to
6 try to understand sort of what happened last
7 year, what our generators have upcoming this
8 year, and anything they foresee going forward.
9 We sent that out, I think, last week, and we
10 expect to get the results in a couple weeks and
11 use that information.

12 But as our reliance on natural gas
13 increases, we believe -- and I think you heard
14 this from John -- that better coordination
15 between the industries is imperative. We think
16 it's improved, but we think the -- there needs to
17 be more alignment between the sectors, and it's
18 kind of critical in our ability to forecast --
19 you know, to bring the lowest cost to the
20 consumers going forward.

21 So we're pursuing a number of
22 initiatives to get there, and I'm going to walk
23 through those to sort of -- how we're going to
24 coordinate with the electric field and the

1 natural gas industry and some other things that
2 we're doing to sort of improve our situational
3 awareness and the way the market runs in the
4 winter.

5 I wanted to put this slide up because
6 I think this diagram really represents -- just to
7 give you a sense of the activities we do each
8 day. This isn't different and this didn't change
9 as a result of our winter -- the winter we saw.
10 But during the course of business, we actually
11 look at these activities every day as we manage
12 the system. But during an event, some of these
13 become -- happen with more frequency.

14 So we've been doing extensive
15 preparation and coordination and using this
16 winter preparedness sort of diagram to explain
17 how we've been communicating with everyone over
18 the last year. You know, we have daily calls
19 with our neighbors as part of normal operations.
20 We discuss the state of the system. You know, we
21 ask for specific requests from market
22 participants about other data and update their
23 data when units are available and not available.
24 You know, we make sure there's enough staffing

1 both for us and at the sites to make sure that we
2 can handle emergencies or things that are
3 changing. So there's quite a few things that we
4 do already, and I wanted to highlight those
5 before talking about some of the things we're
6 going into.

7 While the extreme weather conditions
8 we did manage, we, as PJM is also doing, continue
9 to explore how we can do a better job at our cold
10 weather operations. We worked with our
11 stakeholders and did internal reporting to try to
12 figure out what specific lessons learned that we
13 had and sort of develop issue statements around
14 these lessons learned. We assigned them to
15 various stakeholder committees for discussion and
16 development and recommendations and potential
17 resolutions, and I'm going to walk just very
18 quickly -- but not too quickly -- through each of
19 those issue statements.

20 So the first one we've been talking
21 about is electric and gas coordination. One of
22 the things that we've done, which we're pretty
23 proud of, is on October 2nd we have -- we
24 implemented the gas pipeline critical

1 notification application. It actually went live
2 in MISO's control centers. It's the result of
3 this year-long field trial that we initiated with
4 many of the pipeline owners across the footprint.

5 And with the reliance on this fuel
6 increasing, as we see retirements occurring with
7 111(d) and some other MATS rules and replacements
8 of natural gas, we've been working to enhance our
9 communication protocols between gas and electric
10 going forward. The web site application is the
11 first in sort of a set of communications that
12 we're going to have to access this critical
13 pipeline information.

14 Later this year our control rooms
15 will actually have integrated real-time displays
16 for gas pipeline applications. And then in 2015
17 we'll be providing operators with more granular
18 information about the impacts of gas pipelines on
19 specific generators serving load in the area.

20 I think we talked a little bit about
21 the -- you know, addressing the misalignment
22 between the gas and electric day. You know,
23 we -- because of this misalignment, gas
24 generators have to submit their offers the next

1 day, before we know for sure the gas will be
2 needed. And so to keep this conversation going,
3 MISO has put forth a straw-man proposal to the
4 stakeholder community. It outlines basically how
5 our electric markets could be better aligned with
6 the gas operating day, and it does discuss moving
7 our day-ahead process up a couple hours and our,
8 you know, reliability commitment process up to be
9 expedited; and we've put that straw man out, and
10 we are getting stakeholder feedback related to
11 that to see if folks think that would be a
12 helpful alternative to the coordination.

13 Demand response resources:

14 One of the things that we learned, of
15 course, during the polar vortex is we really
16 needed to understand -- better understand the
17 seasonal variation in demand response resources.
18 You know, our load modifying resources on peak
19 winter days indicated a reduced availability
20 based on their availability versus summer. So
21 we're looking at seasonal variations in these
22 demand response resources because that can
23 materially impact our resource adequacy in
24 various seasons. And this inconsistency among

1 the periods led us to evaluate -- or is leading
2 us to evaluate the potential of a seasonal
3 construct for these -- for load modifying
4 resources, and we're actually also looking at
5 that for generation resources as well. So we're
6 looking at that more broadly.

7 We also implemented a tool, a
8 voluntary load management -- or a -- an LMR --
9 I'm sorry -- load modifying resource automation
10 tool to help our situational awareness. So that
11 tool actually helps us understand the seasonal
12 variation and the differences in the LMR
13 resources, and so that's been in place for the
14 upcoming season.

15 Communications:

16 I mean, I think this is one area --
17 the protocols and communications protocols --
18 where we did do a pretty good job, and I think
19 we're just continuing to make sure that we have a
20 review of emergency operating procedures, that
21 we're reviewing with our neighboring entities
22 emergency operating procedures and protocols just
23 to make sure that we're ready when an event
24 occurs.

1 We also figured out that we have --
2 we need to leverage the tools that we have
3 in-house, and we have this look ahead commitment
4 tool that looks out three hours, and a lot of the
5 operators at the time weren't using the tool to
6 see what was going to happen three hours ahead,
7 and the tool was telling us that we might have
8 some issues. So we're increasing the situational
9 awareness and being able to use that tool to
10 actually project what's going on in the control
11 room so that folks are ready for what's happening
12 three hours ahead.

13 The other thing is that we -- you
14 know, to do post-event analysis. When an event
15 likes this happen, you wish you had all the data
16 to support a report. We have an outage system
17 that didn't really capture a lot of information
18 about the reason for the outage or, you know, why
19 units were not being committed, you know, what
20 the cause type for a derate or an outage was. So
21 we've improved that outage system to include
22 those pieces in it so that, when we have an
23 event, we can actually do a better job of
24 understanding what the reason for that event

1 occurred.

2 And the last two are really unit
3 performance and we have market enhancements.
4 But, you know, under unit performance, this is
5 really, you know, our unit commitment process.
6 And we talked a little bit about we need to
7 address the ability to be able to commit
8 resources appropriately and not -- and not, you
9 know, do it in an emergency sit -- you know,
10 always being an emergency where we're creating
11 headroom and other -- or we're creating a lot of
12 uplift. And so we've -- you know, we think the
13 electric-gas coordination will improve our
14 situational awareness so that fuel restrictions
15 -- we understand them better. We'll be able to
16 commit units appropriately.

17 I think the other thing we're looking
18 at is increasing our headroom margin when we see
19 a cold weather event happening so we don't have
20 to commit emergency resources as often.

21 We are posting -- and I think we've
22 already posted -- annual reminders to prepare for
23 cold weather and address mechanical failures. So
24 we're posting information so people understand

1 it. And we haven't done what PJM does yet, but
2 we're looking at longer term sort of winter
3 preparation, evaluating unit testing and
4 processes prior to winter so that, for those
5 units that don't typically run or run on dual
6 fuel, that they're tested before the winter
7 season. So those are some things we're going to
8 do to improve unit performance.

9 And, finally, we have market
10 performance measures. We -- you know, we did
11 see, of course, energy prices in the footprint
12 increase due to the polar vortex and outages and
13 high demand. We think that was actually a
14 natural consequence of our tightening conditions
15 at that time. So we believe they worked -- the
16 markets actually worked as intended.

17 However, you know, right after we
18 issued our maximum generation alert, energy
19 prices actually dropped, and prices got depressed
20 pretty significantly as a result of these
21 emergency actions we were taking. So we were
22 limiting non-firm exports and commitment of
23 emergency only resources, and so it didn't really
24 provide the right price signal to the market that

1 we needed the generation. So we're doing some
2 things to be able to design our pricing under
3 emergency conditions better to better impact that
4 so we don't see that going forward.

5 We're also launching extended
6 marginal -- locational marginal pricing, which we
7 actually delayed a few months -- I think we're
8 doing it now in December -- which will help price
9 setting for our emergency demand resources and
10 our block loaded resources. And, you know, we're
11 trying -- you know, that, combined with
12 redesigning under emergency conditions, will help
13 send the right price signal that we need units
14 online.

15 And, finally, given that natural gas
16 may be more volatile in the future for us in the
17 winter season and our reserve margins are
18 diminishing due to the coal retirements, we're
19 looking at energy -- our energy offer cap and
20 other caps that we have in the market. We
21 haven't made any decisions on moving those or
22 changing those, but we're evaluating the need to
23 be prepared to have to do that if we see a
24 condition that would occur.

1 So with that, I will -- that's all I
2 have.

3 COMMISSIONER COLGAN: Okay. Thank
4 you. There's a lot going on; right?

5 MS. SEYMOUR: Yeah.

6 COMMISSIONER COLGAN: Your shops have
7 been busy, it sounds like.

8 Questions from the panel?

9 Commissioner McCabe.

10 COMMISSIONER MCCABE: We had an
11 Organization of PJM States' meeting last week.
12 So we heard about some of these issues then too,
13 and so I'm interested in hearing more about dual
14 fuel. It sounds like MISO has about 25 percent
15 dual fuel, and I know that PJM's looking at
16 increasing dual fuel. Dual fuel is less
17 expensive than firm gas, but just, you know, to
18 what extent will this be increasing over time,
19 especially with the coal plant retirements? And
20 is it mainly baseline or units that you have to
21 call on? And just more thoughts on the whole
22 dual fuel.

23 MR. KORMOS: Yeah. We're pretty
24 similar to MISO. We have about 20 percent dual

1 fuel right now. And, as you said, I think what
2 we're looking to do, particularly through our
3 capacity markets, is really let the generators
4 pick the best alternative.

5 So one of the things we really want
6 to push on the gas side is, you know, the ability
7 for them to get the gas packages they need to
8 firm themselves up to be available when we need
9 them -- but not necessarily at some of the costs
10 we unfortunately had to deal with in the previous
11 summer -- and be able to compare that against
12 dual fuel.

13 Because, ultimately, you know, we
14 want to make the most economic decisions, and the
15 fact of the matter -- you saw the numbers. We
16 don't need every unit in the winter. So we don't
17 necessarily want to pay for what we don't really
18 need, but we do want to pay for what we do need.
19 So I think that's our challenge right now.

20 And, as I said, I think what we're
21 doing is coming up with performance standards for
22 the generators: This is what we expect. This is
23 what we need from you. This is the operational
24 flexibility we need. The incentive will be

1 increased capacity payments, but there will be a
2 stick. There will be penalties if you fail to
3 deliver, and then allow the generator to then
4 figure out how to meet that the best they can.
5 And then, ultimately, for us to select then the
6 most economic subset of those resources.

7 MS. SEYMOUR: I was just going to say
8 that we haven't actually gone that far. I mean,
9 the generators have to make the decision based on
10 the economics whether -- in our market whether it
11 makes sense to, you know, put in dual-fuel
12 capability. I don't think we even -- we've
13 instituted sort of the incentives that PJM has at
14 this point. I know that we are looking at doing
15 something similar, but I don't think we feel like
16 we're at a point where that's necessary in our
17 market.

18 As we get more gas intense going
19 forward with our coal fleet retiring, I think we
20 will probably be in a position where we're going
21 to need to provide similar sort of incentives,
22 but we haven't -- we haven't actually gone that
23 far yet.

24 COMMISSIONER MCCABE: Thanks.

1 COMMISSIONER MAYE: I have two
2 things: The first one is a comment for Mike. I
3 think when you talked about your capability
4 testing and checklist and you mentioned that that
5 was something that you did not do last year, and
6 then, you know, last year happened and you're
7 adjusting and making changes. I just want to say
8 I think that's great because I think that's
9 what's needed, not just within relation to this
10 particular problem, but more importantly clear
11 across the board to industry. So just wanted to
12 commend PJM on that.

13 Second, Melissa, I wanted to ask you,
14 when you talked about the gas-electric
15 coordination and that you guys have kind of
16 already put a bit of an implementation plan
17 together and some feelers out there, what has
18 been the feedback from the gas and electric
19 industries, respectively, and are they realizing
20 this is as crucial as we know that it is?

21 MS. SEYMOUR: I think so. And we --
22 we had -- we started a few years ago the
23 Electric-Natural Gas Coordination Task Force, I
24 think, as we were looking at retirements of the

1 coal primarily due to MATS, and we were concerned
2 about our supply switching from coal to gas
3 because we've been pretty coal heavy.

4 I think the coordination -- as the
5 gas pipelines and as the suppliers -- they got
6 more involved, they realized the importance and
7 the interconnection between the two as part of
8 that process, and I think that has helped us
9 through the winter time period because we had
10 those relationships with the industry three, you
11 know, to four years ago as we were beginning that
12 task force.

13 And so I think -- I think they see
14 it. I -- you know, I don't know, until we start
15 increasing our gas supply, whether we're going to
16 feel, you know, more -- I mean, they've been
17 very -- the gas industry has been very willing to
18 communicate and provide information and work with
19 us for these things, but I think that should
20 continue.

21 COMMISSIONER COLGAN: You mentioned
22 this issue of evaluating seasonal variations to
23 see if there are market enhancements that are
24 needed. Can you unpack that a little bit, and

1 just talk a little bit about what that -- what
2 you mean there?

3 MS. SEYMOUR: Well, right now we have
4 an annual sort of capacity construct that looks
5 at the peak hour in the summer and determines
6 what your resources would be for that peak hour
7 in the summer. And, as we mentioned, demand
8 response and some other resources may -- and gas
9 resources may have seasonal variations in their
10 output as a result of, you know, just changes in
11 season and the weather.

12 So we're actually looking at having a
13 construct that's not annual, but it's going to be
14 some sort of seasonal where we have -- you know,
15 the season could be a winter-summer. I mean, it
16 could two seasons or it could three where you
17 have shoulder hours and shoulder periods in
18 summer and winter where you're able to say my
19 resource has, you know, an amount of capacity
20 during the summer, but it's derated in the
21 winter, and it can provide something in the
22 shoulders that looks like this. And same for
23 demand response.

24 And it's something that we're working

1 through the stakeholder community with right now
2 to see if that's something. We've gotten a lot
3 of interest from the stakeholders related to that
4 product.

5 COMMISSIONER COLGAN: I think that --
6 that sounds interesting to me -- a creative
7 evolution of the thinking on how to make things
8 come together. I think that sounds interesting.

9 Did you have something else?

10 COMMISSIONER MCCABE: No.

11 COMMISSIONER COLGAN: Any other
12 questions for our panelists?

13 Okay. Well, we're -- yeah, thank you
14 very much.

15 MS. SEYMOUR: Thank you.

16 COMMISSIONER COLGAN: We're about
17 five minutes past -- over time, but why don't we
18 take a ten-minute break and try to get back here
19 by 3:00 o'clock? Will that work out for people?

20 (Short recess.)

21 COMMISSIONER COLGAN: Okay. Well,
22 our next panel is going to be the local
23 distribution companies in Illinois. That's going
24 to be Ameren Illinois. We have Scott Glaeser;

1 right?

2 MR. GLAESER: Glaeser.

3 COMMISSIONER COLGAN: Glaeser.

4 Nicor Gas, Shirley Holmes.

5 Peoples Gas and Coke Company and

6 North Shore Gas, Richard Dobson.

7 And for MidAmerican Energy Company,

8 we have Brian Wiese. Wiese; right?

9 MR. WIESE: It's Wiese, yeah.

10 COMMISSIONER COLGAN: Mr. Glaeser
11 graduated from Missouri University of Science and
12 Technology with a bachelor of science degree in
13 mechanical engineering. He started his career in
14 the steel industry working as a combustion
15 engineer at an integrated steel mill, National
16 Steel Corporation, which is now U.S. Steel. He
17 was responsible for energy supply, distribution,
18 and combustion systems engineering.

19 In '91 Scott moved to Union Electric
20 with responsibilities for natural gas supply
21 supporting the LDC and gas generation facilities.
22 With UE's growth and the acquisition of CIPS --
23 which formed Ameren Corporation -- CILCO and IP,
24 along with the significant growth of the gas

1 business, he was promoted to various management
2 positions up to the vice president level over
3 various areas of gas business, including gas
4 supply, gas control, storage operation/
5 engineering, transmission engineering/
6 construction, pipeline integrity, management,
7 metering, gas training, regulatory compliance,
8 and fleet services. That's a big job
9 description.

10 Scott's current position is vice
11 president of gas operations and development for
12 Ameren.

13 And, Scott, welcome and look forward
14 for your comments.

15 MR. GLAESER: Thank you, Chairman,
16 and thank you, Commissioners. It's a pleasure to
17 be here this afternoon.

18 I think one of our goals here as the
19 Illinois gas utilities is to give the Commission
20 some confidence as we go into this next winter
21 that we are well prepared; and, indeed, I think
22 within the next hour you will find this true.

23 So we can't look forward to the
24 coming winter without looking at the prior

1 winter, at some of the lessons learned, and some
2 of the operational problems we had.

3 Last winter, without question, was
4 probably the most difficult winter we had in all
5 aspects, whether it be demand, operations, of
6 course, weather, snow, wind, and so forth, in
7 more than a quarter century.

8 We had -- of our peak design day, we
9 reached about 97 percent of our peak design day
10 on January 6th of the past winter. Then,
11 overall, the season itself in total from November
12 through March, we exceeded our 30-year maximum
13 normal winter weather. So we basically had the
14 designed winter that we had designed for every
15 year for many years now.

16 The good news is we provided gas to
17 all of our customers with no curtailments, no
18 operational flow orders, and we did not declare a
19 critical day.

20 In addition, we had a stable PGA for
21 the entire winter which averaged about \$.54 a
22 therm. That comes by no coincidence or by
23 accident. That is from very intense system
24 planning, capacity resources, planning for the

1 peak design day of 30 to 35 years plus, pipeline
2 capacity, investments in our gas infrastructure
3 and especially our storage fields. So we're very
4 proud that we made it through the last winter
5 with no real incidents and keeping our customers
6 whole and warm through the cold winter.

7 That, in spite of significant
8 operating problems we encountered with several of
9 our interstate pipelines, and probably the
10 biggest problematics we had was with NGPL. And
11 to give you some examples, on NGPL's Amarillo
12 Line, we experienced extremely low operating
13 pressures from them to a point where our
14 transmission system pressures came into parity
15 with their transmission line pressures. That's a
16 huge problem in the gas industry as a whole.
17 That means no flow is happening.

18 Even more problematic for us was that
19 NGPL's delivered storage service -- the DSS
20 storage service -- was actually -- could not
21 withdraw in February and March, and then we were
22 actually ordered to inject in that time frame.
23 So not only did we lose withdrawal capability,
24 which was critical for us, we actually had to

1 inject. So we had to actually acquire more gas
2 at specific points and inject in those storage
3 fields when we needed that gas at our city gate
4 stations.

5 Why that's so important is that a lot
6 of our on-system storage fields are aquifers. So
7 as we get deep in the winter period, February and
8 March, my deliverability from the aquifers
9 declines significantly. I need that DSS storage
10 to help fill that gap, and right when I needed it
11 the most, we lost that deliverability of NGPL.
12 That was very difficulty. Luckily, with our
13 operations, our storage field personnel, our gas
14 supply folks, our gas control, we kept the
15 systems going in spite of that loss.

16 Other issues we ran into with NGPL:
17 The Amarillo main line capacity was
18 reduced by 50 percent. In other words, of all
19 the firm pipeline capacity we hold on the
20 Amarillo side, which is the west side of their
21 system, we lost half that deliverability and for
22 extended time periods for two different periods.
23 Again, this is difficult to take in a peak winter
24 like we just had.

1 The one key part of our system
2 planning that basically helped save the day is
3 that we have a capacity reserve margin above and
4 beyond our peak design day. That capacity
5 reserve margin came into play and did exactly
6 what it was supposed to do -- is that, when we
7 lose certain resources, we use that reserve
8 margin to fill that gap, and that's exactly what
9 we did. That kept that gas flowing to our
10 customers.

11 COMMISSIONER COLGAN: What is that
12 reserve margin?

13 MR. GLAESER: It's approximately 3.4
14 percent for our entire system.

15 So after the winter is over, we had a
16 series of meetings with NGPL executives -- as did
17 Peoples, Nicor, and other utilities -- and by no
18 means were those meetings very pleasant. We had
19 to lay it on the line to NGPL: Either you get
20 the system back with a high level of operational
21 integrity, or we will move elsewhere.

22 And why that's important is that in
23 Illinois we are blessed with many pipelines
24 across the state, and Ameren Illinois operates on

1 ten different interstate pipelines. So,
2 basically, we made it clear, if you don't get
3 your system back in operational order, we're
4 going to start shifting capacity to other
5 interstate pipelines and start leaving your
6 system. That's a pretty strong message to send
7 to any pipeline.

8 So they got the message. They have
9 been doing many projects, including storage field
10 enhancements in several of their storage fields
11 in the market zone. They're putting in more
12 storage inventory in the market zone this winter,
13 at least another 10 Bcf.

14 And even though we trust them, it's
15 the old trust but verify. So NGPL sends us and
16 Peoples and Nicor weekly reports on their storage
17 injection inventory levels so that we can monitor
18 their progress for this coming winter, and they
19 have been on track so far.

20 Other issues is that we are improving
21 our communications and coordination with the
22 interstate pipelines during peak operating
23 periods. We have done this historically, but
24 we're ramping up those communications even more

1 now as we've come -- face the oncoming winter.
2 So this is typically daily calls with the
3 interstate pipelines between our gas control
4 center and the interstate pipelines' gas control
5 center to coordinate operating flows and
6 pressures and so forth.

7 COMMISSIONER COLGAN: Can you -- I
8 don't want to distract you too much. Before you
9 move on from this issue of the pressure and the
10 NGPL transmission line became equal with your
11 distribution system --

12 MR. GLAESER: Yes.

13 COMMISSIONER COLGAN: -- what was
14 it that happened on their side of the
15 distribution -- the transmission system? What
16 happened over there that had that occur?

17 MR. GLAESER: There was cascading
18 effects, but in summary, their storage realty was
19 declining rapidly. They lost the ability to
20 withdraw from their market area storage in Iowa
21 and Illinois.

22 They lost some of their compressor
23 stations. They had compressor station failures.
24 So they lost horsepower to push gas down the

1 transmission system.

2 COMMISSIONER COLGAN: Was that
3 weather related -- the compression --

4 MR. GLAESER: We think it was a
5 combination of weather and maintenance practice.
6 Part of the discussions we had with NGPL is you
7 have to have critical spares at your key
8 compressor stations -- critical things like
9 rings, pistons, cylinder heads for those
10 compressors -- that, if you have a failure, the
11 parts are there at that station, and you get the
12 rebuild started immediately and not wait to order
13 parts.

14 But there was multiple cascading
15 effects that caused this, and NGPL is addressing
16 all these different impacts.

17 Yes, Commissioner.

18 COMMISSIONER DEL VALLE: Have those
19 maintenance issues occurred in the prior years?

20 MR. GLAESER: Not to this extent.
21 There's been problems with certain compressor
22 stations and certain storage fields over
23 historical years, but just isolated.

24 This winter NGPL experienced

1 cascading problems on both sides -- both the
2 Amarillo side, which is the western side, and the
3 Gulf Coast side, which is their eastern system.

4 As a matter of fact, we took this so
5 seriously that we sent some of our key personnel
6 out to NGPL stations to personally inspect some
7 of these modifications and enhancements. So we
8 take this very seriously.

9 Also, we learned lessons on our own
10 system. Even though we didn't lose any customers
11 during this whole period, we did experience low
12 operating pressures in certain parts of our
13 system. We took those lessons, and this summer
14 we've been making enhancements to our
15 transmission and high pressure distribution
16 systems to make sure those low pressure events
17 don't happen in future winters.

18 So, basically, our infrastructure is
19 going to be better prepared than last winter even
20 though we operated very well last winter. So
21 it's actually enhancing our reliability going
22 forward.

23 We've already had some good
24 discussions about some of the regulatory

1 responses to this, including the FERC
2 gas-electric coordination and also even
3 Commissioner Moeller introducing the new docket
4 to look at physical gas trading platforms.

5 From Ameren Illinois' point of view,
6 change in the gas day or changing intraday
7 nomination cycles -- that's all good and will
8 improve operations; but at the end of the day,
9 there's got to be more steel on the ground,
10 there's got to be more pipeline capacity built,
11 there's got to be more market area storage built
12 to help handle this growth and demand, especially
13 from electric generation. That has to happen.

14 And part B to that is that these
15 generators have to acquire firm pipeline capacity
16 to support their generation. They can't rely on
17 interim transportation capacity and wonder why
18 they've been curtailed when it's 20 below zero in
19 Chicago. That just doesn't work.

20 I hope I emphasized that point well
21 enough.

22 COMMISSIONER COLGAN: Well, to be
23 able to get the firm transmission, you have to
24 have increased capacity to deliver; right?

1 Isn't -- isn't -- don't those go hand in hand?

2 MR. GLAESER: Yeah. Certain
3 pipelines, which are fully subscribed and there's
4 no available front capacity, there will have to
5 be expansion projects, and I'll talk about this
6 at the end of my presentation. There is some
7 expansion projects proposed in the Midwest and in
8 Illinois in particular that will help solve this
9 problem.

10 CHAIRMAN SCOTT: What's the magnitude
11 there? How big of an expansion are we talking
12 about?

13 MR. GLAESER: Well, for example, the
14 Tallgrass Prairie State Project -- that's up to
15 1.2 Bcf of expansion capacity from Rockies
16 Express north to Chicago.

17 CHAIRMAN SCOTT: But I mean -- I
18 didn't ask it very well. I apologize.

19 Based on what you were just saying
20 about the need to have more capacity, looking out
21 into the future, not just the projects that are
22 planned right now, what's that -- how large are
23 we talking about in terms of the percentage of
24 the total that we have now? I mean, are we

1 looking at 20 percent expansion from what we have
2 now?

3 MR. GLAESER: Yeah. It all depends
4 on your growth projections for demand because you
5 have demand for gas generation, and there's two
6 tranches of that: this existing generation fleet
7 that's going to be utilized a lot more, and then
8 this new gas generation that's built to replace
9 retiring coal plants. And then you layer on top
10 of that more industrial use of natural gas, which
11 we see growing already, and then even beyond that
12 we are seeing more growth in the fleet demand for
13 natural gas, CNG; LNG for trucks and cars.

14 So if you start adding up all that,
15 you're talking 10, 20, 30 Bcf a year -- or per
16 day growth. That's significant. Now you're
17 talking 25 to 35 percent of new expansion
18 capacity.

19 It also can be very regional too. So
20 up in the Northeast, they probably need, you
21 know, 40 to 50 percent expansion capacity.
22 They're that tight. They're already so
23 constrained now without any of these new
24 generation facilities coming online.

1 CHAIRMAN SCOTT: Thanks.

2 MR. GLAESER: Looking forward to this
3 winter, again, we have all of our long-haul firm
4 pipeline capacity all under contract with the
5 interstate pipelines, including our reserve
6 margin. So that's an important part of our
7 portfolio.

8 We have all of our firm gas supply
9 under contract, primarily with producers for the
10 coming winter, both to meet our maximum peak day
11 demand and to meet our maximum winter demand; and
12 more importantly -- or just as important -- and
13 Rich will expand on this -- is that we also have
14 the ability to ratchet down in case we have an
15 extremely warm winter. So we have to prepare for
16 the coldest winter in 30 to 35 years, but we also
17 have to operate in the warmest winter in 30 to 35
18 years. Both paths are important to us.

19 On the price side, we have -- 75
20 percent of our expected winter demand or
21 normalized winter demand is hedged against price
22 volatility. That includes the gas I have in
23 storage, both on-system and leased. It includes
24 fixed price gas and then also financial hedged

1 gas. That makes up about three fourths of my
2 expected winter demand, all within the \$4 range.
3 So most of the gas is already ready for the
4 customers at very reasonable prices.

5 And, finally, our storage. We are on
6 target to be filled at both leased and on-system
7 storage by November 15th, ready for the winter
8 demand.

9 I think our key statement we'd like
10 to make to the Commission is that we're fully
11 prepared for this winter season, and we expect
12 very stable PGA rates for our customers. We're
13 looking at a range from \$.53 to \$.55 per therm
14 for our customers this winter even if it gets
15 very, very cold.

16 This graph is our storage inventory
17 starting with last winter, and what you'll note
18 is that decline is from that extreme winter we
19 had. That's the lowest I've seen our storage
20 inventory levels, period. So, believe me, we
21 were getting a bit nervous late March and April,
22 but we made it. More importantly, you see we've
23 filled up and recovered those storage facilities,
24 and the dotted lines are our expected injections

1 for the next three weeks, which we're on track to
2 make. So we'll be at full storage inventory
3 November 15th, and we'll be ready for winter.

4 And, finally, my last slide. As
5 mentioned, we are blessed in Illinois with
6 excellent pipeline capacity. We are the
7 crossroads of pipelines in the Greater Midwest --
8 actually for the country, if you look at it that
9 way.

10 New expansion projects include the
11 Rockies Express Pipeline, which is going to go
12 bi-direction. Rockies was built to move Rockies
13 gas all the way east across the country to the
14 Northeast. It ended up being on top of the
15 Marcellus shale. So they now, wisely, have made
16 their pipeline bi-direction or are making it
17 bi-directional now so they can bring in Marcellus
18 and Utica gas to the Midwest. The Rockies gas
19 comes in from the west, and guess who is in the
20 middle of that target. It's Illinois. So we
21 have a great opportunity in the state of Illinois
22 to take advantage of that.

23 Which leads to the Tallgrass Project,
24 which takes the gas from the Rockies Pipeline

1 which is in red there, directly north to Chicago
2 hub and then basically accessing all of the
3 Illinois LDCs. I think MidAmerican might be a
4 bit far away, but the rest of us are right in
5 path.

6 There's some other projects too with
7 Energy Transfer Partners, Panhandle Eastern.
8 Similar type project where they got the shale gas
9 coming into the eastern part of their system.
10 They're going to be moving that to the Midwest as
11 well, and ANR has another project as well.

12 So, again, we are blessed with
13 significant pipeline capacity resources and
14 access to all these new shale plays in the U.S.

15 And that concludes my formal
16 presentation.

17 COMMISSIONER COLGAN: I don't know if
18 you can answer this question in simple terms, but
19 I was just kind of wondering what you're -- what
20 you're scheme for contracting looks like. How do
21 you layer that in terms of -- you say you have it
22 all contracted for this year. Do you go a few
23 years out with different percentages of it
24 negotiated now?

1 MR. GLAESER: I could talk a couple
2 hours about that, but I'll be very succinct. We
3 intentionally layer our pipeline capacity in
4 three-year tranches. So every three years we
5 have a certain percentage of our portfolio coming
6 due, and what that does for us -- it does two
7 things: We can adjust according to demand. So
8 if we have demand loss or demand growth, we can
9 make adjustments there. More importantly, it
10 gives us the ability to move to other pipelines
11 if needed.

12 COMMISSIONER COLGAN: Yeah. Okay.

13 MR. GLAESER: We've already done some
14 of that with some of our pipelines for this
15 coming winter.

16 COMMISSIONER COLGAN: All right.
17 Thanks.

18 Okay. Our next speaker is going to
19 be Shirley Holmes, and Shirley is the director of
20 gas supply at Nicor Gas. She previously was the
21 manager at Nicor Gas' gas supply department, and
22 Shirley joined Nicor Gas as a staff accountant in
23 August of 1988.

24 Shirley has 26 years of energy

1 experience, mainly in gas procurement and gas
2 accounting. Shirley's current responsibilities
3 include the contracting and purchase of all gas
4 supply for Nicor gas, gas trading, and gas
5 scheduling, financial hedging, and regulatory
6 support for gas purchasing activity.

7 Shirley is a graduate of the
8 University of Arkansas, and she earned her
9 bachelor's degree in accounting. In addition,
10 Shirley has earned a master's degree in business
11 management from Aurora University.

12 Welcome, Ms. Holmes, and look forward
13 to your comments.

14 MS. HOLMES: Thank you.

15 Some of my presentation will sound
16 very similar to Ameren. We all have some similar
17 experience.

18 But I'm going to start with slide two
19 with a look at our peak day sendout, and this is
20 just to give you some comparison of what our peak
21 day looked like on January the 6th, with the
22 common theme here today, compared to the previous
23 years starting with the year 2000.

24 Our deliveries for January the 6th

1 was 4.583 Bcf, and this -- to give some
2 perspective to this, our coldest day was January
3 the 18th, 1994, with an HDD of 80 degrees, and we
4 had 4.6 Bcf sendout.

5 Some of the challenges that we
6 experienced this past winter:

7 November was 22 percent colder than
8 normal. We had 72 Bcf more deliveries than
9 planned, and we purchased 75 Bcf more than we had
10 planned under normal weather conditions.

11 We had the similar experience with
12 NGPL as the other LDCs.

13 One unique factor about Nicor is that
14 one third of our system demand has no access to
15 system storage, and so we are relying strictly on
16 the pipeline for those feeds.

17 Ability to take gas from NGPL dropped
18 significantly for the same reason: low pressure,
19 deliverability, and compression issues.

20 NGPL called numerous OFOs/force
21 majeure restrictions throughout the winter. The
22 challenges were greater as the winter moved on.

23 Managing some of the challenges for
24 this past winter:

1 We were able to use our on-system
2 storage to meet the peak day and specifically
3 peak hour needs, and this is very helpful when
4 the pipeline restricts hourly takes.

5 We targeted non-NGPL supply to help
6 meet our needs, and we talked to the pipelines
7 often, and in the case of NGPL, several times a
8 day.

9 COMMISSIONER COLGAN: Their storage
10 is mainly in aquifers? Is that --

11 MS. HOLMES: Mainly aquifer storage,
12 uh-huh.

13 By maintaining consistent
14 communication with the pipelines and our large
15 transportation customers and also moving our
16 takes around our system, there were no
17 interruption in customer service.

18 Also, similar to Ameren, our
19 gas-electric coordination -- we are working with
20 our customers, RTOs, AGA, and FERC to understand
21 and address gas-electric coordination issues.

22 COMMISSIONER COLGAN: You say you
23 didn't have any interruptions in service. But
24 wasn't there a point where you had to contact

1 some of your major users of natural gas that they
2 may have to cut back or you many have to cut
3 back on them?

4 MS. HOLMES: Well, we did contact
5 some of our large customer and ask them, to the
6 extent they had alternative fuel or dual fuel, to
7 cooperatively not use on certain days. There was
8 a few days there that we did ask that, but we did
9 not interrupt anyone.

10 COMMISSIONER COLGAN: Yeah. And that
11 was driven by this problem that you had with the
12 supply.

13 MS. HOLMES: Yes. It was directly
14 related to the problem we were having with NGPL.

15 COMMISSIONER MAYE: But had -- had no
16 one -- I'm not sure if you have any stats on how
17 many people actually complied with that and did
18 use an alternative source; but had they not, then
19 you -- I mean, the issue could have been there --
20 that you would have had to interrupt some
21 consumers; right?

22 MS. HOLMES: We were being proactive
23 by asking, and to the extent our customers were
24 able to do -- if they chose not to, we did not

1 feel that we were -- would have lost some
2 customers because we were not at the point that
3 we had peaked all of our services. But we were
4 just being precautionous and asked for that
5 voluntarily. We did not know how long NGPL was
6 going to be impacted. Some of the problem that
7 were existing, we weren't sure. So we were just
8 being proactive and asked some of our customer to
9 cooperatively do this for us.

10 COMMISSIONER MAYE: Do you have any
11 idea about how many customers actually decided to
12 use their alternatives, or you don't know?

13 MS. HOLMES: We may have talked to --
14 I would say -- and maybe Lilly can help me with
15 this. But we may have talked to about 40
16 customers or more, but it was not -- we did not
17 go through the whole picking list.

18 COMMISSIONER MAYE: Okay. Thank you.

19 MS. HOLMES: Okay. This slide is our
20 design day, and as you can see, our design day
21 for this coming winter is 5 Bcf.

22 And what I wanted to mainly point out
23 is some of our sources of supply. Our pipeline
24 transport and leased storage would make up about

1 2.3 Bcf of that, end users .6, on-system storage
2 is 2.5, and that leaves us about a half a Bcf of
3 pipeline reserve.

4 We do not expect any significantly
5 improvement over NGPL's performance last year if
6 we have similar weather. So for that reason we
7 have increased our reserve margin to 10 percent
8 for this coming winter.

9 COMMISSIONER COLGAN: Okay. How much
10 of that did you have to get into last year --
11 your reserve margin? If you don't know --

12 MS. HOLMES: Yeah, I don't know
13 offhand.

14 Okay. So for our supply and storage
15 for this coming winter, we have secured 100
16 percent of our firm supply to fill our winter
17 transport, and also our storage is planned to be
18 filled by November the 10th -- on-system storage.

19 Nicor Gas' transportation capacity
20 and other upstream pipeline provide the utility
21 with access to all major supply regions, and this
22 map help us to visualize where the gas is sourced
23 and transported to Nicor to our city gate.

24 Here's a look at our storage fields

1 and our injection updates in preparation for this
2 coming winter. As you can see from the dotted
3 line, the dotted lines are planned, and our --
4 the solid lines for each one of those fields are
5 the actual fill that we've made so far. So we
6 are on target with our on-system storage.

7 Preparation for this winter:

8 Again, we've increased our reserve
9 margin mainly with non-NGPL city-gate firm
10 supply. We've secured 100 percent of our supply
11 for the transport. We also have filled our
12 leased storage. We have met our plans and have
13 those ready for this winter as well.

14 Also, we have either scheduled or
15 completed winter-readiness check with all of our
16 pipelines and, in some cases, rechecks.

17 Also, for future supply to the
18 market, we continue to explore, look at bringing
19 some of the shale supply here to the market.
20 Actually, some of the projects that Scott
21 mentioned -- we're also looking at those
22 projects. The Tallgrass Prairie State Pipeline
23 Project, the ANR East Project -- we are looking
24 at those project very seriously to see what we

1 can do to diversify our supply.

2 We are looking at our system,
3 facilities improvements that would help make our
4 own distribution system more capable of bringing
5 in a diversified supply and make it more
6 reliable.

7 Those are some of the things we are
8 looking at and what we've done to make ourselves
9 ready for this coming winter.

10 COMMISSIONER COLGAN: Your
11 transportation capacity map -- I was just
12 wondering if the circles were proportional to the
13 amount, or is just, in fact, the geographic area
14 of --

15 MS. HOLMES: They are the
16 geographic area.

17 COMMISSIONER COLGAN: Yeah. So has
18 this map changed significantly over the last five
19 years or so?

20 MS. HOLMES: No, it has not.

21 COMMISSIONER COLGAN: Okay.

22 MS. HOLMES: No. We do have our
23 transport shaped similar to Ameren where most of
24 it is about three years, and it's staggered to

1 fall off at a different time so that we're not
2 negotiating all of it at the same time, as well
3 as if the demand would change, we would be able
4 to accommodate that change.

5 COMMISSIONER COLGAN: Thank you.

6 Okay. Our next speaker is Richard
7 Dobson. He's the manager of gas supply, Peoples
8 and North Shore Gas. Mr. Dobson has been with
9 North Shore and Peoples since June of 2006.

10 He's been employed by the Integrys
11 family of companies since 1992 and been involved
12 in the natural gas industry since 1985. With
13 Integrys, Mr. Dobson has held various positions
14 in regulatory gas supply, business and contract
15 administration, and asset development areas.

16 Prior to joining Integrys, Mr. Dobson
17 was employed by the California Public Utilities
18 Commission in both advocacy and advisory
19 positions with an emphasis on natural gas rate
20 and policy activities.

21 Mr. Dobson has a bachelor of science
22 in geology from the U of I and a master's in
23 engineering from the University of California,
24 Berkeley.

1 Welcome, Mr. Dobson.

2 MR. DOBSON: Good afternoon,
3 Commissioner. Thank you for letting me present
4 today.

5 I'm going to go in a slightly
6 different pattern than what's gone on so far.
7 I'm going to start first with the gas-electric
8 coordination at slide two, Scott.

9 Peoples Gas serves two small
10 gas-fired electric units. They're under
11 negotiated rates so that we talk to them all the
12 time. For y'all, it's under -- called a Rate 5
13 for us.

14 During the winter '13-'14, they were
15 restricted on the ability to burn because they
16 did not have a firm contract arrangement with us.
17 They are interruptible in the winter. We are
18 currently talking to them about new contracts.

19 North Shore Gas does not serve any
20 substantive gas-fired electric generations.
21 There's a small one in one of the towns, but for
22 all intents and purposes, they're on a tariff
23 rate; so they're within the system already.

24 We have, as both the utilities and as

1 Integrys generally, been very much involved and
2 actively participating in the FERC gas-electric
3 coordination issues, as well as with the NAESB
4 issues, both with AGA and with EEI or the Edison
5 Electric Institute.

6 Integrys is a combination utility
7 company; so we do cover both sides. One of the
8 things we did find through our own internal
9 discussions is that the gas and electric folks
10 talk different. We've had to --

11 COMMISSIONER COLGAN: Different
12 languages?

13 MR. DOBSON: Yes. We've had to learn
14 how to understand what other each is asking for
15 and seeking even though we're talking about
16 exactly the same thing.

17 As a result of our efforts
18 internally, we have -- through both NAESB and
19 FERC, we support the need for more pipeline
20 capacity. But that capacity is especially those
21 that meets the needs of the electric generation
22 units, and we want capacity that's brought to the
23 market that does not denigrate the ability for
24 the LDCs to continue to meet their requirements.

1 We're all in favor of having new capacity brought
2 in, but should the LDCs for the LDC core
3 customers have to bear all those costs? Or
4 should we lose the ability to have the
5 flexibility that we have today?

6 We're all in favor of having some of
7 those changes come on, and certainly the capacity
8 is going to be needed. As Scott noted, if you
9 look at the Northeast, they need a lot more
10 capacity than they do in the Midwest.

11 We're in favor of regional solutions
12 versus national solutions. In other words, let's
13 solve some of the questions in steps. Oftentimes
14 you make a broad-ranging, wide decision that has
15 unintended consequences. I'm not saying that's
16 where we are today. But that's why we support
17 regional versus national solutions.

18 We have supported and continue to
19 support the revised nomination schedule, but we
20 have not and at this point do not support the
21 change of the gas day to start at 9:00 A.M. So
22 if we look at it and say buy and be able to pay
23 for the services that you need, if that requires
24 additional facilities to be built, we can support

1 helping build those facilities, but let's make
2 sure that the people that are causing those
3 things to be caused are incurring those costs and
4 they're able to be compensated for it.

5 I know that last part is not an easy
6 question. But at the same point in time, I don't
7 want to necessarily see the cost of me serving my
8 gas ratepayers to go from a dollar to ten dollars
9 because the cost of the electrics went from a
10 dollar to a dollar ten.

11 I know the numbers are wrong, but
12 let's just put it in perspective.

13 Typical winter challenges:

14 We've talked very much about how to
15 meet the cold winter day. Well, from my
16 perspective, it's almost as difficult to meet the
17 warm winter day as well. So we need to build a
18 portfolio and design for both a peak day and a
19 warm winter and a warm day.

20 We forecast design peak days. We
21 test winter supply/demand scenarios that cover
22 the whole range, and we also cover the extreme
23 supply/demand days for both warm and cold days in
24 particular.

1 To put it in context, for this winter
2 coming up, for winter '14-'15, we are designing
3 to meet a -- for Peoples Gas to meet a design day
4 of 2.1 Bcf. A warm day is .35 Bcf. It's one
5 sixth. Can I drive the bus right down the middle
6 and be able to swing up to the 2.1 and down to
7 the .35? I hope so. We certainly are trying,
8 and that's how we put our portfolios together to
9 do it.

10 For North Shore Gas it's very
11 similar. Our peak day is designed at 444 M
12 decatherms or a thousand decatherms versus the
13 warm day of 60. So that's a factor of seven.

14 When we're doing our demand
15 forecasting, we're looking at not just the season
16 but the days as well. We buy too much baseload
17 in a warm scenario, we end up selling what could
18 be perceived as very expensive gas into a very
19 poor, very low-priced market. We have to balance
20 that with having to buy a lot of spot gas in the
21 cold winter, which can be very, very pricey, as
22 we saw last winter.

23 We also want to do this and design
24 our portfolio such that we take into

1 consideration how to minimize restrictions on our
2 transportation customers. For Peoples Gas and
3 North Shore Gas, approximately 40 percent of our
4 annual throughput is gas that -- and I'll put it
5 perspective. I'm not responsible for buying.
6 I am responsible for handling and making sure we
7 get it delivered to our customers. So four out
8 of every ten units that comes through our system
9 is brought to me by somebody else, and they want
10 me to redeliver it to themselves as well. We
11 don't want to have that relationship upset any
12 more than necessary either. But we also don't
13 want to and have to balance the obligations we
14 have to the transportation customers to the sales
15 customers. So, in essence, I'm trying to tell
16 you we have to balance a lot of different things.
17 Very similar to your jobs: You're balancing a
18 lot of different stakeholder obligations. It's
19 not a simple task.

20 For the winter preparedness, we have
21 gone through and our design day is revised. In
22 2013, our design day for Peoples was just over 2
23 Bcf, and we're now just over 2.1 Bcf -- about a 4
24 percent increase. North Shore saw about a 6

1 percent increase.

2 We have adjusted our pipeline storage
3 and transportation assets. Some of that's been
4 acquisition. Some of it has been reassignment.
5 Some of it has been planned utilization in a
6 different way.

7 Our storage injections are on track
8 to meet our November and December targets, and I
9 use November and December. Most of our leased
10 storage services, the ones we take from the
11 interstate pipelines, we have a November 1
12 target. For our in-house and our owned -- our
13 company-owned storage, that target is more in the
14 early part of December. We are on target to hit
15 both of those with some additional storage that
16 we've purchased as well. So it's not just what
17 we've already had but those additions that we've
18 put on.

19 Our winter price hedging is complete.
20 We, like Ameren and Nicor, put hedges on
21 throughout the year. My current hedge season --
22 I'm out hedging winter -- or summer '16 already.
23 So we're that far out. My winter '14-'15 hedging
24 is complete. And our winter commodity

1 acquisition is essentially complete.

2 For North Shore Gas, we did use a lot
3 of propane last winter, and we did have to refill
4 our propane tanks, and that has been completed.

5 Last, as in noted by Ameren, Peoples
6 Gas and North Shore Gas have built cross-
7 functional teams that address both the supply and
8 the operational level. On the supply operations
9 level, we meet every morning between gas supply,
10 gas control -- those people that make sure that
11 the gas comes through the city gate meters -- our
12 gas storage people, and our transportation
13 services. Those are the folks that interact
14 directly with our transportation customers.

15 On the utility operations level, our
16 gas control, gas distribution, the customer
17 Care -- the people that answer the phones and
18 have to go out and make the call outs and
19 things -- as well as our corporate
20 communications -- so that we can get the message
21 out -- are all meeting as well.

22 Last winter those meetings went on
23 almost every day. I can tell you for certain
24 that the gas supply meeting happens every day.

1 That's part of the meeting I'm in the office for
2 every morning.

3 The utility operations, during the
4 colder parts -- they were on the phone every day
5 as well, and I'm not talking about five days a
6 week. I'm talking about seven days a week.
7 That's how we're preparing.

8 When RBN was here, they noted that
9 there's a lot of pipes that come through the
10 Chicagoland and the Midwest area. Well, a lot of
11 pipes had many problems. NGPL probably the
12 biggest one of the problems that we faced, but
13 quite honestly, there was a whole list.

14 OFOs means operational flow orders.
15 That's where the pipeline comes in and says, "You
16 have to do this at this point." Critical time --
17 that's also considered an OFO, but it usually has
18 much stricter requirements within it, and it
19 tends to double, triple, quadruple the cost of
20 making a mistake.

21 So under a normal mistake, if we take
22 too much gas, it may cost me a dime. Under an
23 OFO, it may cost me a dollar. Under critical
24 time, it could cost me up to \$10. That's per

1 unit. Yes, they get very pricey very quickly.

2 And, lastly, for NGPL, they had that
3 storage directive where they directed us to buy a
4 substantial amount of gas that, quite honestly, I
5 didn't want to buy. Had to keep the system up,
6 though.

7 Getting off NGPL for a moment, you
8 can quite honestly see that there were others:
9 Northern Natural Gas -- that's what NNG stands
10 for -- ANR, Panhandle, Guardian, and Viking.
11 They all serve -- all except Viking serve
12 indirectly to Peoples Gas system. Panhandle has
13 to come through Trunkline, but they all had
14 system operation issues. The Viking operation in
15 particular was affected by an explosion on a
16 pipeline in Canada feeding them. That affected
17 one of my affiliates, Minnesota Energy Resources,
18 but it also affected ANR and affected us right on
19 down the line.

20 Essentially, when it's cold, you're
21 running a mechanical system that has a big
22 potential to fail. Lots of things moving. Lots
23 of things can be done. Scott talked a little bit
24 about that with NGPL with the increased

1 maintenance and things like that, and we're all
2 working at that. But just remember, just like
3 when it's cold on us and we're out shoveling that
4 snow, there's a lot of stress on our bodies, and
5 you're working out in the cold weather. The
6 system's mechanical as well. It's not to make
7 excuses, but it's to help understand what can go
8 wrong.

9 With respect to the pipeline
10 activities, for winter '13-'14 response, NGPL is
11 performing compressor maintenance and additions.
12 And, in fact, they have just recently, on or
13 about October 20th, put a new compressor unit
14 online in Iowa which is expected to increase
15 their peak day withdrawal capabilities. That
16 allows them, NGPL, to be a little bit more
17 reliable.

18 They are repositioning compressor
19 replacement parts and the maintenance ability.
20 And they have so far met their obligation that
21 they set themselves to increase the amount of
22 market area storage that they have filled.

23 I've been watching those numbers, and
24 they are above the number that they were at last

1 year November 1. I expect they're going to be
2 somewhat higher than that yet since the numbers I
3 looked at were about a week old.

4 That's what happened in there, and
5 the same thing with the other pipes. But, as I
6 said earlier, these are complex mechanical
7 systems and people systems.

8 NGPL is currently experiencing a
9 force majeure outage. It is expected to continue
10 through the end of October. What does that mean?
11 It essentially means that, if I wanted to take a
12 hundred percent of the gas supply through this
13 one piece of pipe, I can't. It's cut already.
14 We're expecting and hopefully it's going to be
15 back by November 1st, but those units and that
16 capacity is down today.

17 Scott talked about it a little bit in
18 November where he said the Amarillo system was
19 down 50 percent for two consecutive periods of
20 time. NGPL is currently experiencing that today.
21 It's a different part of the system, but it's
22 there today.

23 CHAIRMAN SCOTT: What's the
24 underlying problem that -- with the force

1 majeure? I mean, I understand it in --

2 MR. DOBSON: In the winter?

3 CHAIRMAN SCOTT: -- in the winter.
4 I'm missing it right now.

5 MR. DOBSON: I believe this was a --
6 as a result of the PHMSA or the pipeline
7 maintenance folks. They found a spot in their
8 pipe that they had to go in and dig out, and as a
9 result, it needed to be replaced, and that takes
10 some of the capacity down. They have to reduce
11 the volume that will flow through that point so
12 that they can make the mechanical repairs on the
13 system.

14 In some senses, it's good it's
15 happening in October rather than December. In
16 many senses, it's good it's happening today
17 rather than when it breaks and completely fouls
18 up. And I'll talk to that in just a second
19 because that's exactly what's going on with ANR.

20 ARN had a pipe in Michigan that quite
21 simply broke and blew up. It has reduced the
22 ability for ANR to serve the Benton Harbor area
23 and is expected to continue for a little bit of
24 time yet. Exactly timing, I don't know, but that

1 was a pipe that literally broke.

2 With respect to the NGPL system, they
3 could -- they still continue to provide the
4 service. It's just not at the full rated level.

5 So while we are through the winter of
6 '13-'14, the winter of '14-'15 has its challenges
7 in and of itself. Some of those are going to be
8 mechanical. Some of those are going to be
9 weather related.

10 Peoples Gas was able to provide
11 reliable service to our customers throughout
12 winter '13-'14 in the face of unprecedented
13 operating conditions. I've been in the industry
14 and doing gas supply on and off since '92 when I
15 came back to work for Peoples in Chicago here. I
16 can honestly say this is the coldest winter I can
17 remember. I can remember colder days. I can
18 remember colder spurts. But I cannot remember
19 five months colder than normal. I can remember
20 more snow but not shoveling as many times. Those
21 to me are -- as I look at it.

22 Now, when you look at it and say
23 "unprecedented operating conditions," those are
24 conditions where we have people out on the

1 streets working, where we have people and
2 dispatching them to the storage fields. We had
3 people at the storage fields during the cold
4 periods where they were spending the night out
5 there. We had guys that were going out there the
6 day ahead of time or five or six hours before the
7 start of their shift because they were concerned
8 about being able to get out there and do their
9 jobs.

10 Based on current NYMEX prices,
11 natural gas prices are expected to remain
12 relatively stable. You heard that earlier.
13 We're looking at prices between 4 and \$6. Much
14 of our hedge position and much of our storage gas
15 is in that same range. Short of weather spiking
16 pretty hard and driving prices even goofier than
17 they can be, we're expecting to be fairly solid.

18 Finally, if weather's near normal, we
19 are expect our costs will be at or below last
20 year, but customers should still prepare for the
21 cold weather.

22 Thank you for the time.

23 COMMISSIONER COLGAN: Questions?

24 Commissioner del Valle.

1 COMMISSIONER DEL VALLE: Earlier it
2 was indicated that price delivery to residential
3 customers will be higher in 2014-15 than in 2013
4 based on commodity price increases and fixed
5 delivery cost increases, and you say that prices
6 will be lower than last year.

7 MR. DOBSON: I believe that comment
8 came from AGA, and they were talking about on a
9 national basis.

10 COMMISSIONER DEL VALLE: So that's a
11 national average.

12 MR. DOBSON: Yes. And ours are much
13 more parochial.

14 COMMISSIONER DEL VALLE: Will that
15 also be the case for Nicor?

16 MS. HOLMES: Yeah. The -- the
17 price -- the NYMEX is higher this winter than it
18 was last week. So if that's an indication of
19 what the prices would do, that naturally would be
20 a little higher, but as far as -- the weather's
21 going to determine what the range would really
22 be. So if the weather is better than what it was
23 last year, for example, then we wouldn't expect
24 the prices to spike quite as high.

1 COMMISSIONER DEL VALLE: Well, they
2 won't spike quite as high, but will they be lower
3 than --

4 MR. DOBSON: Commissioner, what I'd
5 like to clarify, though, is while the pricing may
6 be slightly higher, because we're expecting much
7 more closer to normal weather, the total bill,
8 total cost --

9 COMMISSIONER DEL VALLE: So you're
10 talking about total costs.

11 MR. DOBSON: Yes. And I'm -- and
12 from my perspective, I'm talking about the cost
13 of the gas. So if you're consuming a hundred
14 units at \$5, if you consume 95 units at \$5.10,
15 you're going to see an overall price reduction.

16 COMMISSIONER DEL VALLE: So the price
17 will be higher, but the total bill cost will be
18 lower because of the weather.

19 MR. DOBSON: We're hoping that the
20 price is less volatile than it was last year.

21 COMMISSIONER DEL VALLE: Well, I
22 mean, I don't know what we can compare to last
23 year. That was just -- I'm thinking about the
24 year prior to that, I mean, when it was closer to

1 normal; right?

2 MR. DOBSON: I can get back to you on
3 that. I'll have one of the rates people get back
4 to you on where we expect those costs --

5 COMMISSIONER DEL VALLE: Yeah. The
6 reason I ask is because that's -- that's what's
7 important.

8 MR. DOBSON: Sure. Overall, we
9 think --

10 COMMISSIONER DEL VALLE: That's what
11 we're talking about. Are we going to get hit
12 with higher prices even though it is predicted
13 that we're not going to experience another polar
14 vortex?

15 MR. DOBSON: I am hopeful that the
16 price I'm paying for gas, based on what we have
17 already purchased, will be similar to the average
18 price we are seeing today. That, overall, should
19 be lower than what we saw for winter '13-'14
20 because we're going to take out those huge
21 spikes. On average, it may be slightly higher
22 because of the quantities, but the total
23 consumption will be down.

24 You're asking me to parse a price

1 forecast, and I'm having challenges responding to
2 you in a way that I think would make you happy.
3 I don't think the prices are going to go crazy.
4 I think we're going to see prices at the national
5 level and in the Chicagoland area where we are
6 around 4.50 to 5.50. As we convert that into the
7 PGA rates, they will be lower than what they were
8 last year because hopefully we won't have the lag
9 that we had last year in the recoveries, and we
10 won't see as much spot purchases at extremely
11 high prices going forward.

12 But, overall, we are expecting, based
13 on a closer to normal weather consumption, the
14 total quantity on each bill to come down, and
15 therefore the total bill on a month-to-month
16 basis to be lower.

17 I'm not sure if that helped you, but
18 it's the best I can do.

19 COMMISSIONER DEL VALLE: No. No. I
20 followed you, but let's just pray for a good
21 winter.

22 MR. DOBSON: I am.

23 COMMISSIONER COLGAN: All right. Our
24 next speaker is Brian Wiese.

1 And I apologize. We're running a
2 little over time here, but I hope you all can
3 stick with us here for another ten minutes or so
4 at least.

5 Brian is responsible for natural gas
6 procurement at MidAmerican Energy Company. He's
7 also responsible for hedging and optimization
8 activities of regulated natural gas utility
9 serving 700,000 customers in Iowa, South Dakota,
10 Illinois, and Nebraska. Also, he's responsible
11 for procuring and managing related
12 transportation, storage, and other supporting
13 services and assets.

14 He assumed his current position in
15 July of 2012. He's employed by the MidAmerican
16 Energy company since 1996 in a variety of finance
17 and risk management positions, most recently as
18 director of risk management from 2007 until
19 assuming his current position which was in 2012.

20 Welcome, Mr. Wiese.

21 MR. WIESE: Thank you. Appreciate
22 the opportunity to present this morning. I'll
23 try to move quickly. We're, you know, last in
24 line of presenters and with some of the many

1 similar observations as we're all similarly
2 situated.

3 On slide two, though, just some
4 statistics on MidAmerican's Illinois system, and
5 Illinois' system really isn't something we manage
6 separately. We manage our Illinois customer base
7 as part of a larger system where we serve a
8 little over 700,000 customers in Iowa and South
9 Dakota as well as Illinois. So we don't manage a
10 separate portfolio, but we manage a part of an
11 integrated system.

12 But you can see our peak day for
13 winter 2014 was about an 11 percent increase over
14 our prior peak day. Coincidentally, January 6th
15 was the day when we experienced the system peak
16 as well.

17 Our Illinois customer base, which is
18 largely the Illinois side of the Quad Cities,
19 represented about 9 percent of our overall system
20 peak on that day.

21 Another statistic: Our peak day for
22 Illinois customers was around 96 percent of our
23 estimated design day going into the winter. So
24 we didn't hit the design day that we planned for,

1 but we came mighty close.

2 And, interestingly enough, on our
3 system as a whole, our peak day was around 97
4 percent of our design day, and that's on our
5 sales customers, not our transportation, just on
6 our sales customers. But we hit that on weather
7 that was just under 90 percent of our theoretical
8 design day weather. So we had some interesting
9 observation on that. We saw customer load a bit
10 higher than what we might have otherwise
11 predicted, and that gives us some data points to
12 work with going forward that I'll talk about.

13 But, again, it was challenging, but
14 we met our peak requirement; and, again, it was
15 below what we had planned for in terms of a
16 design day.

17 Also, in this slide you can see the
18 increase in our design day estimate for next
19 year. For our Illinois customers, it's skewed a
20 little bit by our -- what's on here as expected
21 third-party deliveries or our transport
22 customers. That's not necessarily as weather
23 sensitive as our residential customer base, but
24 we did a see a bit heavier pull by our transport

1 customers.

2 So our overall design day
3 increased -- our estimated increase for Illinois
4 customers was up about 10.4 percent looking ahead
5 to next winter. Our system as a whole, our
6 design day estimate for sales requirements, is up
7 about 3.5 percent based on reevaluation of the
8 data that we got from last winter.

9 On the next slide, just a brief
10 overview of how we -- you know, how we basically
11 plan to supply our customers, and this plan
12 hasn't changed. It's really a function of the
13 assets that we have available. We're not blessed
14 with the geology and geography of on-system
15 storage like the other folks here at the stable.
16 So we rely on contracted services for our storage
17 and transportation.

18 We bring -- we serve our customers
19 with around 90 percent firm transportation that
20 we control, and we do similar to the other
21 utilities: We roll it generally in three-year
22 increments so that we have not all of our eggs in
23 one basket.

24 About 50 to 55 percent is supply

1 purchases that we flow on transportation we
2 control. About 30 to 35 percent is gas that
3 we withdraw from our leased storage. We have
4 about -- just under 17 Bcf of leased storage on
5 three pipelines that we use to serve our
6 customers.

7 And we are fortunate to have a bit
8 of -- I'll call it on-system storage, but we have
9 three liquefied natural gas peaking facilities on
10 our system. In terms of our Illinois customers,
11 we have one that's located in Bettendorf, Iowa,
12 that supports our Quad Cities system primarily.
13 Those assets were hugely beneficial to us this
14 past winter, and we -- I'll get to it on the next
15 slide how we utilized those facilities. They
16 don't supply a big percentage of our peak load,
17 but they really do supplement on intraday when we
18 have peaking hours, when we have pressure issues.
19 Those facilities really proved their worth the
20 past winter.

21 And then, finally, we supplement with
22 city-gate delivered supply, which is gas flowing
23 on somebody else's transportation that they can
24 drop off at our city gate. And, again, we

1 benefit -- our system -- our Illinois customers
2 are on the eastern edge of our system, but we
3 benefit from being on that highway to Chicago
4 with four major interstate pipelines that we can
5 use to serve that part of our territory.

6 So in the next slide, again, just
7 some highlights from our perspective on the past
8 winter. Again, we set a new historical system
9 peak on January 6th, but our previous historical
10 peak was in January of 2009, but we had five days
11 this past winter with system throughput that
12 exceeded our past system peak.

13 We had -- you know, going back to
14 December 2000, really when our companies combined
15 into the utility that looks a little bit more
16 similar to what we have today, we had -- we've
17 had 47 days with system sendout out greater than
18 a Bcf. 18 of those occurred in this past winter,
19 and that's 38 percent in one winter. Going back
20 a long way.

21 So some of that is a function of, you
22 know, the relentless cold weather we saw; and I
23 use "relentless" because it really came in waves,
24 and certainly that played a role in it. But we

1 also saw parts of our system tested by cold
2 weather that have grown, and we knew they had
3 been growing. We just hadn't seen it necessarily
4 before. So it really brought out a lot of good
5 data points really on our system. Our system as
6 a whole performed fairly well, and that's not my
7 doing as much as the folks in the field and the
8 operation side of things. But, anyway, so really
9 challenging year.

10 Again, our sales customer demand
11 reached between 96 and 97 percent of our design
12 day forecast but on weather system-wide that was
13 only about 84 percent of design day. Again,
14 parts of our system -- we have nine weather
15 stations that we group customers into. Some of
16 the weather was closer to what we would say would
17 be peak day weather and others wasn't, but
18 system-wide -- you know, the east side of our
19 service territory was colder than the west, which
20 is unusual. Normally cold weather on the
21 northwest of our system is more of an emphasis.

22 Another observation: Again, record
23 utilization of our on-system liquefied natural
24 gas facilities. You know, we really hadn't

1 vaporized much from those facilities over the
2 past couple winters prior to that. This past
3 winter we used them significantly -- part for
4 system support when we had peak hour needs, when
5 we had pressure support that we needed them for,
6 but part simply for supply optimization. When we
7 could, you know, look to the market and see north
8 of \$30 spot market gas and be able to vaporize
9 out of the tank for an all-in-cost less than \$6,
10 if you will, maybe closer to \$5, it made a lot of
11 sense to use those assets. And they proved
12 hugely valuable to our customers for that reason.

13 Over the past winter we had no firm
14 customers that were interrupted due to lack of
15 supply. We don't have any interruptible
16 customers in Illinois. We have a handful in Iowa
17 and South Dakota. Iowa -- a lot of them are more
18 seasonal. They're crop driers, things like that,
19 where the interruption really didn't have an
20 impact. Some smaller interruptible customers
21 that we did interrupt a number of times have
22 dual-fuel capability, and we were able to work
23 with them, but it's a very, very small component
24 of our system-wide load; and, again, none in

1 Illinois.

2 And then we did -- we don't have
3 third-party generation on our system. We have
4 some gas-fired generation on our own electric
5 utility side. We manage procurement -- gas
6 procurement in a separate group for there to keep
7 it separate from our PGA gas, but we do work with
8 them to help them out when there's supply
9 challenges, and certainly there were challenges.
10 But I think we were able to navigate the
11 conditions for our relatively small gas portfolio
12 fairly well over the course of the winter.

13 Moving on to the next slide, more
14 important -- you know, we survived last winter.
15 Where do we go from here? And really the
16 exercise looking ahead to next winter isn't much
17 different from the exercise we go through every
18 winter in terms of trying to adopt lessons
19 learned and things we could do better to serve
20 our customers, but we have a whole lot of data
21 from the past winter to work with and some good
22 lessons learned and things that we think found
23 merit to do differently.

24 First off, out design day forecast.

1 Again, we incorporated, you know, the new data
2 points in our statistical analysis and resulted
3 in about a 3.5 percent increase system-wide in
4 our sales forecast.

5 We've been actively engaged in
6 dialogue with the pipelines and suppliers -- all
7 of our pipelines and suppliers. I don't -- I
8 won't regurgitate the comments from others, but
9 we've been fully engaged with NGPL, with Northern
10 Natural Gas, with ANR, with Northern Border, all
11 of the pipelines that serve us. We learned last
12 winter that we do rely on others to perform as
13 agreed, and we can make the best plans that work
14 perfectly on paper, but operationally, if folks
15 don't perform, that throws a wrench in
16 everything. And so we're acutely aware of that
17 and been working with our vendors.

18 We have acquired some additional firm
19 capacity on our system. We've done some
20 realignment. We've done some supply portfolio
21 alterations, again, in response to that increased
22 demand we see based on our forecast.

23 We are on track to complete our own
24 leased storage injections by November 1st. It's

1 typical for us to fully cycle our storage. We
2 typically use all the gas we have in storage
3 every year and refill it in the off season. So
4 from our standpoint, that's kind of a normal
5 course of business. We have a supply plan. We
6 have sufficient summer capacity to fill our
7 storage. So we've been -- we're on track to get
8 those inventories where we need them.

9 We're finishing up our fall
10 liquefaction in our three liquefied natural gas
11 facilities. You know, vaporizing is a lot easier
12 than liquefying, and certainly our liquefaction
13 runs have been a lot harder this fall than
14 they've been prior. We have one facility that's
15 maybe struggled a little bit more than others,
16 and what we're doing there is supplementing with
17 some additional delivered supply to take account
18 of probably less inventory we'll have going into
19 the winter, but we'll match that up with some
20 supply and for this winter be able to be in
21 decent shape on that.

22 And then, finally, our price hedging.
23 You know, like the others, we hedge a portion of
24 our winter supply, anticipate customer demand.

1 Our hedging will be completed by November 1st.
2 In fact, it's almost done right now. We're
3 finishing up some positions before the winter,
4 and we'll have our hedging in place prior to the
5 start of the winter.

6 In terms of price, again, we're -- I
7 guess our experience tells us prices -- prices
8 are low and stable. They tend to be that way
9 until they're not. We're hoping for more of the
10 same at least from what current forward prices
11 are right now. We should -- you know, our PGA
12 should be within range of where it was two years
13 ago in a more normal winter. Again, weather, the
14 fickleness of the market will ultimately dictate.

15 But the one observation -- you know,
16 we tend to look at NYMEX, and the NYMEX natural
17 gas contract -- it's the best indicator we have
18 of national gas prices, but I think last winter
19 reminded us all that it's really a local and
20 regional game when it comes to price for our
21 customers. And we're hoping that -- we're hoping
22 that our pipelines -- we're hoping that our
23 suppliers perform as agreed, and we're hoping
24 that the plan that we have that we believe works

1 well on paper comes to fruition at the close of
2 the winter.

3 So with that, certainly happy to take
4 any questions you might have.

5 COMMISSIONER COLGAN: Any questions
6 for Mr. Wiese?

7 (No response.)

8 COMMISSIONER COLGAN: Okay.

9 Well, thank all of you a lot. All
10 the presentations, I think, were right on the
11 mark. I think you paid attention to the
12 questions that we asked and your deliveries were
13 addressing those issues. Thank you for the time
14 to prepare and to travel to be here and to
15 provide your comments to the Commission.

16 Any comments from any other
17 Commissioners? No?

18 COMMISSIONER MAYE: I just wanted
19 again to take the time to thank you, Commissioner
20 Colgan, for putting this on. It was very
21 informative and very beneficial, and it truly is
22 necessary.

23 And, of course, want to thank Linda
24 Wagner for her support.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

CHAIRMAN SCOTT: Ditto.

COMMISSIONER COLGAN: Thank you,

Linda.

With that, we're adjourned.

