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BEFORE THE  
ILLINOIS COMMERCE COMMISSION

ELECTRIC AND GAS POLICY SESSION  
2014 SUMMER PREPAREDNESS

Springfield and Chicago, Illinois  
Wednesday, May 14, 2014

Met, pursuant to notice, at 10:00 a.m., May  
14, 2014.

PRESENT:

- MR. JOHN T. COLGAN, Commissioner
- MS. ANN McCABE, Commissioner
- MR. MIGUEL DEL VALLE, Commissioner
- MS. SHERINA MAYE, Commissioner

Court Reporter:  
Jennifer L. Crowe, CSR  
Illinois CSR #084-003786  
Midwest Litigation Services

1 PROCEEDINGS

2 COMMISSIONER COLGAN: My name is John  
3 Colgan. Pursuant to the provisions of the Illinois  
4 Open Meetings Act, I now convene this Electric and  
5 Gas Policy Session of the Illinois Commerce  
6 Commission to address 2014 summer preparedness.  
7 With me in Springfield is Commissioner Del Valle.  
8 In Chicago we have Commissioner McCabe and  
9 Commissioner Maye. We have a quorum.

10 I'd like to thank today's panelists for the  
11 effort they have put into the presentations and all  
12 of the participants for taking the time to attend  
13 today's Electric and Gas Policy Session.

14 Today our policy forum has a little  
15 deviation from the past summer preparedness  
16 meetings. As we are all aware, natural gas and gas  
17 pricing are no longer exclusively winter heating  
18 issues. With gas increasingly becoming a choice  
19 for electricity generation, it has equally become a  
20 summer issue.

21 There's been some discussion of concerns  
22 that natural gas storage has been depleted after  
23 the extreme weather of this past winter, and as a  
24 result of this depletion, given the demand for gas

1 is now so high in the summer, it may not be a  
2 simple task to maintain proper inventory levels.  
3 I am sure everyone sees this as somewhat of a  
4 concerning issue. So I'm looking forward today to  
5 hearing about the manner in which utilities and  
6 RTO's will address this concern.

7           Since natural gas is expected to be relied  
8 on much more heavily in electricity generation, the  
9 interdependencies of these industries merits  
10 careful attention. As a result of that, on July  
11 9th of this year, the ICC will hold a Gas and  
12 Electricity Policy Session in Chicago to explore  
13 the very complicated issues surrounding  
14 coordination between the natural gas and  
15 electricity industries and the impact of that  
16 coordination on reliability, the potential impact  
17 of that coordination on reliability in pricing in  
18 Illinois. So I hope you will mark your calendars  
19 for the afternoon of July 9th and plan to attend  
20 that important policy meeting. I will look forward  
21 to seeing all of you there at that time.

22           Now I would like to turn this session over  
23 to Commissioner McCabe to offer some comments and  
24 to introduce the first two panelists. Commissioner

1 McCabe?

2           COMMISSIONER McCABE: Thank you,  
3 Commissioner Colgan. Each spring and fall the  
4 Commission holds meetings on preparedness. As last  
5 year and other years demonstrate, we are subject to  
6 severe storms, unexpected warm spells such as last  
7 September and prolonged cold spells in the winter.  
8 It can be difficult to predict the weather and  
9 modeling is complex. Our utilities and RTO's  
10 strive to handle a variety of situations to ensure  
11 resiliency and reliability. Grid modernization, as  
12 we will hear today, is helping reduce outages and  
13 increase resiliency.

14           Alex Trebek and Geraldo Rivera renowned not  
15 necessarily philosophers but TV personalities have  
16 commented on Mother Nature. Trebek said if you  
17 can't be in awe of Mother Nature, there is  
18 something wrong with you. Rivera commented Mother  
19 Nature may be forgiving this year or next year, but  
20 eventually she is going to come around and whack  
21 you. You have got to be prepared, and Preparation  
22 is what we are going to hear about today. Utility  
23 and RTO reps will address issues and questions  
24 posed in the meeting agenda. Speakers, please

1 keep in mind that your time allocation includes  
2 questions and answers which we will try to save for  
3 the end of each panel when we are transitioning  
4 from Chicago to Springfield. We may have a few  
5 minutes of video reconnecting, so we can use that  
6 time for questions as well. And again, presenters,  
7 please identify yourselves.

8           Our first panel will be on summer  
9 electricity preparedness by the utility  
10 Commonwealth Edison. We have Terry Donnelly,  
11 Executive Vice President and Chief Operating  
12 Officer and Cheryl Maletich, Vice President,  
13 Distribution System Operations. It will be  
14 followed by MidAmerican Energy Company on the  
15 phone, Barry Campbell, Vice President of Energy  
16 Supply Management; Joe Moore, Vice President,  
17 Energy Delivery; Brian Wiese, Director of Gas  
18 Portfolio Planning and Trading.

19           And then from Springfield we will have  
20 Ameren Illinois Company. The panel will include  
21 Jackie Voiles, Senior Director of Regulatory  
22 Affairs; Maureen Borkowski, Senior Vice President;  
23 Ron Pate, Senior Vice President, Operations and  
24 Technical Services; Stan Ogden, Vice President,

1 Customer Service and Metering Operations.

2 So with that we will turn it over to Terry  
3 and Cheryl.

4 MR. DONNELLY: Thank you. Good morning,  
5 Commissioners. I'm Terry Donnelly, ComEd Executive  
6 Vice President and Chief Operating Officer, and  
7 with me is Cheryl Maletich, Vice President,  
8 Distribution System Operations.

9 I want to thank the Commissioners for  
10 conducting these hearings thereby communicating  
11 your perspective on the importance and criticality  
12 of the state's electric NTS infrastructure.

13 I will make some opening remarks on the  
14 first two slides and then turn it over to Cheryl  
15 for some additional details on our preparedness.

16 Just to make a couple of points about 2013,  
17 last year, it was our best reliability performance  
18 year on record. Our SAIFI year of frequency of  
19 outages with or without storms was a best on  
20 record, and our CAIDI, or duration, was favorable  
21 to the five year mean and was the second best on  
22 record.

23 We did have less storms than some prior  
24 years but still a fair amount of activity. We had

1 17 storms impacting 1.3 million customers.  
2 Historically we may have had about approximately 2  
3 million customers interrupted by storms. There  
4 were some heavy rainfall storms, about seven inches  
5 of rain on the April 17th storm which resulted in  
6 some flooding issues and, of course, in November --  
7 certainly not the summer -- we had four tornados  
8 touch down in our service territory and interrupted  
9 about 200,000 customers and a devastating impact to  
10 some of our communities.

11 Our peak load was just over 22,000 megawatts  
12 on July 18th. That is not our all-time peak which  
13 was in July of 2011 which was 23,753 megawatts.

14 The one thing I wanted to highlight, most  
15 proud is our safety performance. Our safety  
16 performance is measured by our OSHA recordable  
17 rates. The best we have had in the history of  
18 ComEd. We are most proud of our initiatives in the  
19 area of safety.

20 EIMA investments, we will summarize a couple  
21 of those points later in the presentation. Last  
22 year benefited over a million customers and avoided  
23 300,000 customer interruptions on the various  
24 programs.

1           Our storm task force is in its third year,  
2   and we improved restoration times by 17% last year,  
3   and our customer complaints, reliability complaints  
4   are the lowest on record.

5           As we look ahead to the summer of 2014,  
6   simply put we are prepared. Our peak load, what we  
7   might call worst case scenario, a one in ten year  
8   weather, is 23,500 megawatts, and we have our  
9   demand response programs in place. We have  
10  completed all our summer maintenance. Our capacity  
11  works will all be done by June 1st.

12          We will highlight some of our storm task  
13  force improvements which is our third year of  
14  improvements in storm restoration. Also EIMA storm  
15  hardening work, resiliency work and reliability  
16  work continue delivering benefits, and we will also  
17  briefly touch on our drills and training in  
18  emergency preparedness, contingency plans, spare  
19  equipment all in place.

20          We mention the flooding last year. We have  
21  flood mitigation plans in place. Those are  
22  temporary with permanent plans underway, and then  
23  we will talk about a little bit about messaging  
24  with our mobile ap and our text messaging for

1 outage communications which continues to increase.

2 I will, at this point, turn it over to  
3 Cheryl for the balance of the presentation and then  
4 Q & A.

5 MS. MALETICH: Thank you, Terry. I'm Cheryl  
6 Maletich, Vice President, Distribution System  
7 Operations for ComEd.

8 On slide 4 we indicate our, as Terry spoke  
9 about, peak load is projected at 23,500 megawatts  
10 for 2014 which is below our all-time peak that we  
11 did hit. We have no transmission constraints and  
12 generation retirements have been mitigated, which I  
13 will discuss further in a few slides. Our demand  
14 response estimates are about 1300 megawatts which  
15 is about 6% of our projected peak for the year.

16 From a capacity standpoint we are about 97%  
17 complete to date, and we do, as Terry mentioned,  
18 expect to be complete prior to June 1st. We will  
19 have no transmission facility or distribution  
20 substation projected over 100% and no distribution  
21 circuits projected over 105%.

22 Our 2014 reliability programs are all  
23 progressing well with our lightening enhancements,  
24 one --

1           COMMISSIONER COLGAN: Can you go back with  
2 lightning enhancements?

3           MS. MALETICH: Okay. For 2014 our  
4 reliability programs are progressing as expected  
5 including our lightning enhancement, our 1%  
6 circuits and our cycle trimming.

7           As of part of our smart substations we are  
8 installing transformer monitoring which we have  
9 seen a significant reduction in substation  
10 transformer failures from nine that we had in 2012  
11 to only one that we had in 2013. So we are seeing  
12 benefits to that program as well.

13           Slide 6 talks about our EIMA investments,  
14 and these graphs indicate all of the programs that  
15 we currently have. The percent completions for the  
16 EIMA programs are from program inception in 2012  
17 through March of 2014, and as of March 2014 we are  
18 about 37% complete with the program benefiting  
19 about 1.7 million customers. I will talk about a  
20 couple of those programs in more detail.

21           The next slide is around storm hardening.  
22 This is really looking at targeted areas. So we  
23 have engineering solutions which we are about 53%  
24 complete. It is really targeting areas for either

1 overhead to underground solutions, spacer cable for  
2 heavily treed areas or even potentially reroutes or  
3 distribution automation. And with these solutions  
4 we are actually benefiting 227 municipalities.

5 The second part of our storm hardening is  
6 around our enhanced vegetation management. We are  
7 about 60% complete with that program with more than  
8 120 municipalities affected, and this is really  
9 looking at more aggressive solutions to our tree  
10 trimming, tree removal, more aggressive tree  
11 trimming, and we have really had enhanced outreach  
12 to our customers both prior to either removal or  
13 trimming and afterwards as well. We have increased  
14 our investments by over 20% from 2011.

15 Slide 8 discusses a little more about our  
16 benefits of our IEMA program. So from a  
17 distribution automation standpoint we are actually  
18 benefiting about 60% of our current customer base  
19 based on the program's progression to date. Our  
20 mainline program we are seeing the best, the best  
21 we have ever had in a decade from a mainline  
22 underground fault perspective in 2013. So we are  
23 really starting to see that the enhancements that  
24 we are making are benefiting our customers.

1           From an underground residential cable  
2 program, although we have had the least amount of  
3 faults in only the last three years rather than the  
4 last decade, the average number of customers that  
5 are affected per fault has been our best on record  
6 in 2013. So we are targeting the largest segments  
7 of our poorest performers.

8           Storm hardening, I discussed previously  
9 really looking to reduce our long duration  
10 interruptions, and in our advanced metering  
11 infrastructure we're eliminating more than 280,000  
12 manual reads.

13           Slide 9, from a capacity and reliability  
14 perspective, we have some significant projects that  
15 are going on. We have a new veterans substation  
16 that is going to be installed in Lockport and will  
17 be live June of 2014, and we have Plano and Lisle  
18 substation upgrades that also will be complete by  
19 June of 2014. We have hardened some of the 34kV  
20 sources that go into O'Hare Airport and reduce our  
21 overhead exposure. That was complete in March.

22           From a generation retirement preparedness,  
23 we have three key projects that are on the way or  
24 complete. We have a new Waukegan substation that's

1 on track to complete by June of 2014. The  
2 Burnham-Taylor 345 circuit upgrades in place. It  
3 was as actually in place and in service in March,  
4 and we have a new static var compensator in  
5 Prospect Heights that contracts to be in service by  
6 June 2014.

7 This is really assuring that we have the  
8 infrastructure in place for either any retirements  
9 that have already occurred or that we anticipate  
10 may occur.

11 Slide 10, from emergency preparedness  
12 standpoint, there is really two items i would like  
13 to cover. One is around mutual assistance. We  
14 really partnered a lot in the last year to increase  
15 our ability to provide and to receive mutual  
16 assistance. We have partnered with the Edison  
17 Electric Institute (EEI) on a National Response  
18 Event which is really designed around some major  
19 catastrophe somewhere in the United States to  
20 ensure utilities will, can and will share resources  
21 among each other, something like Hurricane Sandy.

22 We have also added our mutual assistance  
23 groups that we have been incorporated with, and we  
24 have added SEE, which is Southeast Electric

1 Exchange. We are not only involved with mutual  
2 assistance groups in the Midwest, but we have  
3 expanded and have added mutual assistance groups  
4 that are in the southern and eastern parts of the  
5 state as well.

6 From storm response improvements, Terry  
7 mentioned our storm task force. We are in our  
8 third year in a row. This year we have really  
9 concentrated on seven main areas, and we have about  
10 105 changes that we are making to our processes to  
11 really help improve.

12 I will talk about a couple key areas.  
13 Communication is one. So we really look a lot at  
14 our Joint Information Center and our Joint  
15 Operation Center process, improving to ensure that  
16 from a municipality's perspective we understand  
17 what their concerns and their priorities are as  
18 well as any of the critical customers that we have  
19 in the service territory to ensure that we are  
20 appropriately prioritizing those outages.

21 We have looked at improving a lot of the  
22 efficiencies, especially around our vegetation  
23 management crews and our material delivery during  
24 storms to ensure that we have everything available

1 for the crews when they need it and they are ready  
2 to work from an efficiency standpoint. And we have  
3 actually instituted some technology improvements  
4 for management and tracking of our crew makeups as  
5 well.

6 Slide 11, I will say this slide really has  
7 two parts. One section is really, I will say to  
8 prepare for the big, bad events that none of us  
9 hope happen. The first is around a blackout  
10 restoration preparedness. What the blackout  
11 restoration really is if we had a cascading event  
12 across the states that eliminated all of our  
13 transmission system and our entire system went  
14 down. This really is the procedure and process how  
15 we would pick the system back up.

16 Every utility has a plan. We have drilled  
17 the plan every year. We actually partnered with  
18 PJM in a system-wide exercise this year, and we  
19 also did benchmarking with Sand Diego Gas &  
20 Electric who unfortunately did experience a  
21 blackout in 2011 to get lessons learned from them  
22 as well.

23 We are also partnering in the fall with the  
24 City of Chicago and many of the state agencies on a

1 drill to enact a terrorist-type event. So we are  
2 actually going to partner with them for a not only  
3 the city OEMC, FBI, Department of Homeland Security  
4 but others as well to really mimic a terrorist-type  
5 event that would have an effect on some of our  
6 infrastructure, drill not only internally what our  
7 response would be, but the communication, the  
8 coordination with the state entities as well.

9           You will see additional drills that are  
10 noted on the slide. We do have drills across all  
11 of the Exelon utilities. So from Philadelphia,  
12 Baltimore, we actually have individuals there that  
13 can seamlessly come onto the ComEd system if we  
14 would need them in the event of a storm just like  
15 they would be ComEd personnel.

16           Slide 12 focuses little more around  
17 communicating to our customers from a readiness  
18 standpoint for the summer. We obviously will have  
19 additional CSR staff that will be available from a  
20 call center perspective, and we continue to have  
21 the technology that is available that we have  
22 discussed before, our mobile ap, texting and our  
23 outage map as well.

24           One other key point that we improved this

1 year was our bill redesign. We actually utilize a  
2 crowd sourcing to create more user-friendly bill,  
3 and we have gotten some good feedback from that as  
4 well.

5 From a contingency plan perspective we do  
6 have multiple pieces of emergency equipment that  
7 are ready and available for the storm season. We  
8 have six mobile substations. There is a picture of  
9 one there. And these are really if we have a  
10 failure of one of our substation transformers, we  
11 can roll this mobile piece of equipment into the  
12 substation to maintain our contingencies.

13 We have multiple generators that we own and  
14 that are available through a vendor that we have a,  
15 we have a contract with. We have spare transformer  
16 fleet. You will note in the middle of this slide,  
17 as Terry mentioned, our substation flood mitigation  
18 plan. We did have the flooding issues in April.  
19 We do have temporary flood mitigation measures in  
20 place for our flood prone stations, and we have  
21 permanent flood mitigation that is in progress that  
22 will complete later in 2014 and into 2015.

23 MR. DONNELLY: Thank you, Cheryl. That  
24 concludes our presentation pending questions.

1           COMMISSIONER McCABE: We will move onto  
2 MidAmerican. Would you please announce who is  
3 speaking?

4           MR. CAMPBELL: Yes, this is Barry Campbell,  
5 Vice President, Energy Supply Management,  
6 MidAmerican Energy. Thank you for the opportunity  
7 to talk with you in the alliance and to participate  
8 through a conference call.

9           We have for an underlying on slide 2 our  
10 presentation we will talk initially about the  
11 demand and capability reserves. Joe Moore, Vice  
12 President of Energy Delivery will provide  
13 information on delivery and customer response  
14 issues, I will provide and document energy  
15 efficiency briefly and give a high-level summary of  
16 the gas electric challenges, and then we will be  
17 open to questions following that. Brian Wiese,  
18 Director of Gas Portfolio Planning, is also with us  
19 to help answer any questions of the gas portion as  
20 well as participate in the panel later in the  
21 conference.

22           So with that, we will start on slide 3. Our  
23 2014 expected net peak demand is 4,575 megawatts  
24 under normal weather cases. Our extreme weather

1 forecast is at 4,881. We have resources to manage  
2 that very adequately.

3 In 2013 our actual peak demand was at 4,659.  
4 That occurred August 28th. Kind of an unusual,  
5 little bit of an unusual day. We didn't actually  
6 have any load reductions or load control going out  
7 toward the end of the month at that particular  
8 time, but it still did not exceed our all-time peak  
9 which occurred in 2011, and that was at 4,752  
10 megawatts in July at that time.

11 Moving onto slide 4, from a reserve  
12 perspective just to show how adequately we have  
13 this covered, from a 2014 perspective under normal  
14 weather conditions we have a capability of 18%,  
15 even under extreme weather conditions almost 11%  
16 reserve capability. The 2013 actual net peak  
17 demand we had about 16% during the peak. So we  
18 have been able to manage that accordingly.

19 On slide 5, from an available resource  
20 perspective, our net capability is approximately  
21 5,400 megawatts. It is a mixture of coal, gas,  
22 nuclear, oil, wind and hydro. We have some jointly  
23 owned resources as integrated utility at this  
24 point. With Illinois we obviously manage the

1 generation resources on a high end as part of the  
2 MISO regional transmission organization.

3 From the demand side management, we do have  
4 a totally integrated type system at 330 megawatts,  
5 61 megawatts of direct load control, 270 megawatts  
6 of interruptible demand. We also have as backup 85  
7 megawatts of generation designated as capacity  
8 recourses in MISO.

9 From slide 6, just to give an overall  
10 picture of where we are currently, we have gone  
11 back and shown some history back in 2005 actuals  
12 and as described earlier 2011 was our sort of peak  
13 situation. The last bar on slide 6 shows our 2014  
14 forecasted normal 4,575 with a high of 4,881. So  
15 that shows, kind of gives us perspective of where  
16 we are, we are managing with items such as energy  
17 efficiency or other programs to manage the peak  
18 demand.

19 With that I will turn it over to Joe Moore.

20 MR. MOORE: All right. Good afternoon or  
21 good morning. Joe Moore, Vice President of Energy  
22 Delivery.

23 On the transmission system, again, similar  
24 to prior years. We expect our system to perform

1 well. We have no more transmission facilities that  
2 will be loaded above our normal ratings at the  
3 system peak or even in the worst case summer peak.  
4 We have no transmission or substation,  
5 sub-transmission facilities expected to load above  
6 normal readings either for single contingency  
7 events on the system.

8           And then on operating we have operating  
9 procedures as well here for some certain double  
10 contingency events. For example, we may end up  
11 ultimately using some MISO congestion management  
12 tools, redispatching our transmission loading  
13 relief in those particular cases.

14           Slide 9, MidAmerican doesn't expect any  
15 limitations in serving our customers through the  
16 summer of 2014. We continue to experience on  
17 occasion significant west to east flows in our  
18 system, specifically at the Quad Cities and  
19 Galesburg flow gates. And we have -- we will use  
20 those to help us maintain overloading issues across  
21 the flow gates.

22           Moving to slide 10, Storm Preparedness and  
23 Emergency Response. We continue to monitor daily  
24 and extended forecasts for severe weather.

1           We hold pre-storm calls as each system  
2 approaches our system, working on additional  
3 on-call crews and standby crews, and remote  
4 contract resources get contacted in advance of  
5 those systems' approach to make sure that we are  
6 prepared and ready to respond upon any issues.

7           We do monitor the radar in our electric  
8 system operations on a 24 by 7 basis, and over the  
9 last year we have also added an emergency  
10 preparedness manager. We have also added a  
11 distribution control training coordinator to help  
12 us train our distribution operators in an efficient  
13 and effective restoration.

14           And we have also established six additional  
15 positions in the distribution operator  
16 classification to make sure we have got enough  
17 staff to help us in system restoration.

18           Slide 11, pending the magnitude of the  
19 impacts from storms, we do operate -- beyond our  
20 control center we have local and remote storm  
21 centers that we open and can dispatch field  
22 resources basically across our entire system in one  
23 particular area. We also have remote company field  
24 services folks and contract recourses that also get

1 dispatched and moved within our system to respond.  
2 We also use wire watchers and wire clearing crews  
3 to make sure that we get after downed wire calls,  
4 and we are part of the Midwest mutual assistance,  
5 and we do call on our Berkshire Hathaway Energy  
6 resources across all of the other system platforms  
7 when we have more major events, and they have  
8 responded.

9 We also have status calls throughout various  
10 events. We hold them usually about every four  
11 hours or so to make sure we understand the progress  
12 and make sure we have got the appropriate resources  
13 and to talk about estimated restoration times to  
14 get that communicated out to the customers.

15 We also, after each storm, perform a lessons  
16 learned, basically getting all the personnel  
17 involved in that particular storm together and  
18 gathering up all of the lessons to make adjustments  
19 to policies and procedures, and that's been going  
20 well.

21 Slide 12 is related to outage  
22 communications. We use a host of different  
23 communication strategies, using radio and  
24 television advertising.

1           Social media has kind of been picking up  
2 quite a bit, trying to get information out and take  
3 care of customers' concerns via social media.

4           We also use earned media, safety news  
5 releases and live interviews that come from various  
6 events, and we do have some level of web  
7 communication related to safety tips and  
8 information out on our web page.

9           We just recently updated our Outage Watch  
10 web page on our home page for MidAmerican Energy.  
11 It's got a bunch of information now related to  
12 individual outage information so people can go out  
13 and see estimated times of restoration and whether  
14 the crews are en route or the status, you know,  
15 working, et cetera, et cetera.

16           We also provide who to call information,  
17 specifically during downed wire type events. We  
18 put out a lot of information related to who to call  
19 if you find one of those downed wires so we can get  
20 resources out there to either protect that wire or  
21 to get it put into a safe condition.

22           Moving to slide 13, vegetation management,  
23 we continue on our three-year trim cycle in the  
24 distribution system and continue our annual

1 inspection and remediation program of our  
2 transmission system.

3 We do put out fall and spring bill inserts  
4 related to tree safety and make sure that the  
5 customers understand that they can call us if they  
6 have any particular issues so we can avoid people  
7 getting hurt.

8 And this last year in 2013, 17.7% of all  
9 Illinois customer outage minutes were tree-related.  
10 That excludes the major storm events. And the  
11 customer outage minutes due to trees were down  
12 about 10%, almost 11%, in 2013 compared to 2012.  
13 So the effectiveness in our tree trimming has been  
14 shown there in the numbers.

15 Slide 14, our NESC Corrective Action Plan,  
16 back in 2008 per the ICC Orders, MidAmerican  
17 initiated a four-year program to identify issues  
18 with the National Electric Safety Code guidelines.  
19 All of those inspections were completed in 2011 and  
20 all the issues on company-owned equipment were  
21 corrected by the end of 2012.

22 During those inspections we discovered about  
23 7,000 instances that were attachment point issues  
24 on customer-owned electrical equipment were

1 occurring that were in violation of NESC. We have  
2 just about 6700 of those completed at this point.  
3 We expect here by the end of 2014 to have all of  
4 those complete, and we continue to inspect our  
5 system distribution system on a four-year cycle.

6 With that I turn it back to Barry for energy  
7 efficiency.

8 MR. CAMPBELL: Thank you, Joe. Very Briefly  
9 on slide 16, with regard to our energy efficiency  
10 program we have got a new five-year program in  
11 place for Illinois that was approved January 1 of  
12 this year through 2018. Most costs are covered via  
13 efficiency energy adjustment clause now shown  
14 separately on the bill.

15 In 2013 we had refunded \$2.3 million to  
16 customers on that bill. The total Illinois  
17 spending was about 3.5 million. The difference  
18 there is associated with energy efficiency  
19 education through training, school curriculum,  
20 other type programs that may not be directly  
21 customer related.

22 The Savings overall for Illinois was from a  
23 demand perspective was approximately 18 megawatts  
24 for electric demand and from a gas perspective 316

1 therms and during peak time of 2,600 therms. So  
2 that is certainly a big help to us overall.

3 Moving onto slide 18, from a gas electric  
4 challenges perspective, this is kind of the high  
5 level of this point. More details will be  
6 discussed later. Basically we managed this winter  
7 utilizing our coal and wind resources. Future  
8 years, though, we do believe we are going to be  
9 more dependant on gas as mentioned earlier. That  
10 means more reliance on infrastructure.

11 We will continue -- we have in place and  
12 will continue to maintain the firm pipeline  
13 capacity contracts that we have for the combined  
14 cycle generation we have in place. We do believe  
15 there is going to be increased storage injections  
16 required for the coming winters as this was so  
17 depleted, but we do have a clear plan in place to  
18 meet that as required for the winter time frame.

19 We do believe as more gas generation comes  
20 on the system, there may be interstate pipeline  
21 that's not necessarily LDC or local distribution  
22 companies, but I believe that will require  
23 additional interstate pipeline advancements.

24 And then so from a conclusion overall

1 summary perspective, on slide 19, basically from  
2 load capability our 2014 reserves are nearly 11%  
3 even under extreme weather conditions.

4 From a delivery and customer response, our  
5 transmission ratings, operating procedures and  
6 contingency planning are in place, and the  
7 vegetation management program is working.

8 Energy efficiency, we have a five-year plan  
9 in place as noted and the gas/electric challenges  
10 will be managed with firm pipeline contracts and  
11 increased storage injections.

12 That concludes MidAmerican Energy's  
13 presentation at this time. If you would like, we  
14 will take any questions.

15 COMMISSIONER McCABE: Thank you.

16 MR. CAMPBELL: Thank you.

17 COMMISSIONER McCABE: We will see how  
18 quickly we transition to Ameren in Springfield.

19 Any questions in the interim?

20 COMMISSIONER DEL VALLE: Yes.

21 COMMISSIONER McCABE: Go ahead,  
22 Commissioner.

23 COMMISSIONER DEL VALLE: Thank you,  
24 Commissioner.

1           Both ComEd and now MidAmerican have talked  
2 about improvements in their vegetation management  
3 program. I'd just like to know what is it that we  
4 are doing today that we weren't doing before?

5           COMMISSIONER McCABE: MidAmerican, do you  
6 want to start?

7           MR. MOORE: Yeah, MidAmerican can start. On  
8 our three-year trim cycle we have been working on  
9 expanding our trim distances and things like that  
10 to make sure that we have gotten plenty of  
11 clearance.

12           We have also, we have also been working on  
13 making sure that we don't have overhanging trees  
14 over the top of our facilities which tend to fall  
15 through in major weather events, and we have also  
16 been working on what we call hot spotting which is  
17 where we go out and take a look at the various  
18 circuits prior to the storm season even though they  
19 may not necessarily be on our three-year scheduled  
20 cycle, and we go after those and get those trimmed  
21 up.

22           We have noticed in some cases some of the --  
23 when you get a very wet year, it will grow much,  
24 much faster than expected. So we make sure we trim

1 those back, and I think those have been helpful.

2 Let me give you one statistic here. Back in  
3 2009 and '10, about 6 to 7 million or 6 to 7  
4 million customer outage interruption minutes were  
5 due to trees, and now we are down in the 2 to 3  
6 million. So there's been quite a substantial  
7 improvement. So I think that the teams working on  
8 that have been effective at getting after what the  
9 issues are that are causing these outages.

10 COMMISSIONER DEL VALLE: Do the improvements  
11 include responses, increased responses to customer  
12 complaints, concerns regarding vegetation?

13 MR. MOORE: Yeah, for MidAmerican, Joe  
14 Moore. We do have a pretty aggressive program  
15 where we let folks know we are going to be in the  
16 area so they understand we are going to be there.  
17 So they are getting an opportunity to let us know  
18 if they have any concerns, and then when they do  
19 have an issue, if we are not in that area we do  
20 have crews in that area working pretty  
21 substantially. We tend to get on those within a  
22 24-hour period. COMMISSIONER DEL VALLE: Thank  
23 you.

24 MR. DONNELLY: This is Terry Donnelly from

1 Commonwealth Edison. Just make a couple comments  
2 on our veg -- enhancements to our vegetation  
3 program.

4 I say it is mainly in two areas. One, we  
5 have increased investment targeted, we call it  
6 storm hardening. We have identified areas that  
7 historically may have had increased tree outages  
8 over the past several years, and what we have done  
9 is enhance tree clearing and enhance the standards  
10 in terms of getting the overhang and other  
11 clearances removed from what I would call  
12 predominantly TAPs area.

13 So we have seen pretty significant funding  
14 on what we call storm hardening which is more of an  
15 aggressive focus on additional clearances and  
16 removal which is my second point.

17 The one area we are working on is to have  
18 more aggressive tree removal program in our fixed  
19 price cycle contracts. What we have done is we  
20 represent about 19% of the total trees addressed  
21 through our trimming program is now removals, and  
22 this helps us over the long run with removals.

23 In 2000 -- previously historical rates were maybe  
24 2% if you go way back. So we are up to about 20%

1 in the removal area of trees which helps us year  
2 over year.

3 We are absolutely 100% in compliance with  
4 the 48-month cycle trimming plan, but the  
5 enhancements are mainly on the storm hardening work  
6 targeting specific areas which is enhanced  
7 clearances and the removal, more aggressive focus  
8 on the tree removal program.

9 The additional question on customer  
10 complaints, a lot of our efforts focused  
11 specifically on developing better materials and  
12 outreach before we trim in an area and then  
13 proactively going back to customers after we trim  
14 in an area. So pre and post with some better  
15 materials and outreach is how we are working the  
16 customer issue of tree trimming.

17 COMMISSIONER COLGAN: All right. Thank you.

18 COMMISSIONER McCABE: Thank you. All right.  
19 Moving onto Ameren, the third panelist on the first  
20 panel.

21 MS. VOILES: Yes. Good morning. This is  
22 Jackie Voiles, Senior Director of Regulatory  
23 Affairs for Ameren Illinois. We are pleased to be  
24 here this morning to share information with the

1 Commissioners concerning how we prepare to serve  
2 our customers safely and reliable service not only  
3 this summer, but that's our goal to make sure that  
4 we continue to provide that service to our  
5 customers.

6 We are going to talk about several things  
7 today including the transmission resource adequacy.  
8 We are going to talk about our readiness plan from  
9 a transmission and distribution perspective, our  
10 emergency preparedness and response and our contact  
11 centers and communication strategy.

12 Ameren Illinois serves 1.2 million  
13 customers, electric customers in the state.  
14 We have a significant service territory throughout  
15 the state, and we serve 812,000 natural gas  
16 customers as well.

17 Probably the main message that we want to  
18 relay to you today is that we are prepared to serve  
19 our customers reliably this summer. We have the  
20 generation resources that are committed to serve  
21 the Illinois load. We have the transmission and  
22 distribution capacity as well.

23 Our expected peak loads for this summer are  
24 7,553 megawatts. Worst case scenario, that's the

1 worst in ten years, 8,129 megawatts for the summer.  
2 The 2013 expected peak was at 7,873 megawatts. We  
3 had a mild summer last year. We also had a large  
4 industrial expansion that postponed their expansion  
5 plans until this year. So we did see our actual at  
6 7,234 megawatts compared to the expected peak.

7 From a capacity requirements perspective,  
8 the MISO capacity auction, we are seeing the  
9 clearing prices substantially increase year after  
10 year. In the 2013 2014, period the capacity prices  
11 were a dollar five a megawatt day, and the 2014  
12 2015 period \$16.75 a megawatt day. So we are  
13 seeing those prices increase from a capacity  
14 perspective that is going to send the right price  
15 signal to entities that are looking to build  
16 generation.

17 The MISO reserve requirement for 2014 is  
18 14.8%, and that is based on installed capacity, but  
19 after accounting for load diversity, load diversity  
20 includes the fact that different utilities peak at  
21 different times, and when you take into account the  
22 forced outage history, the resource -- I'm sorry,  
23 the reserve requirement is 7.3%.

24 This slide shows who is going to supply the

1 load to the Ameren Illinois customers. The fixed  
2 price load for the summer peak 1404 megawatts, the  
3 real time price load 376 megawatts, and that's for  
4 Ameren Illinois Company serving that supply. The  
5 retail electric supplier load, 5,773 megawatts for  
6 a total of the 7,553 megawatts. That is our  
7 expected peak for this summer.

8 In the forecast it does show a small  
9 increase in customers moving to third-party  
10 suppliers but not to the extent that we had  
11 previously seen. So it is pretty much flat  
12 compared to previous years.

13 This particular slide shows our forecasted  
14 supply portfolio for the Ameren supply. It shows  
15 what our peak load is for the fixed price and real  
16 time price load and then the capacity associated  
17 with that expected peak load.

18 So what you do is you take the anticipated  
19 peak load, you gross it up for the MISO reserve  
20 requirement of the 7.3% to come up with your  
21 capacity figures. That is rounded to the nearest  
22 10 megawatts.

23 We want to talk on slide 9 about the demand  
24 response resources. There is interruptible load

1 that's been identified. This is interruptible load  
2 through the retail electric suppliers, and that is  
3 significantly increased over the previous year.

4 Then from a real time pricing perspective  
5 for our residential, small C & I and our large  
6 customers greater than 150 kW, we do have the  
7 hourly day ahead MISO prices that are posted. We  
8 settle on that hourly day ahead MISO price.  
9 Customers are required to have interval metering  
10 installed in Orders to participate in those  
11 programs, and I've listed on this slide the  
12 megawatts and the account for those particular real  
13 time pricing products.

14 From a distributed generation and net  
15 metering perspective, we have an easy, simple  
16 process for our customers to connect distributed  
17 generation as well as participate in the net  
18 metering program. These figures on the top part of  
19 this slide under distributed generation include  
20 information beginning April 1 of 2008 when the  
21 Commission put into place the standardized  
22 interconnect rules. And then the net metering  
23 statistics, those are the current numbers that we  
24 have with regard to customers taking net metering.

1 I'm going to turn it over to Maureen  
2 Borkowski to talk about the transmission system.

3 MS. BORKOWSKI: Thank you, Jackie. As  
4 Jackie said, I'm Maureen Borkowski. I'm the Senior  
5 Vice President of Transmission for Ameren Services.  
6 I'm here to talk about our transmission system  
7 readiness.

8 First of all, we do not expect any  
9 constraints on the transmission system for Ameren  
10 Illinois that would inhibit any supplies by the  
11 retail electric suppliers to their customers in our  
12 service territory.

13 We have also ensured, as Jackie already  
14 mentioned, that those retail electric suppliers do  
15 have adequate resources to serve their load. We  
16 actually provide the forecast data to the retail  
17 electric suppliers so they do understand exactly  
18 how much load they are responsible for and then  
19 verify that they have those adequate resources.

20 Ameren Illinois' transmission system has  
21 just under 4600 circuit miles and 174 substations.  
22 None of those transmission facilities are  
23 anticipated to be above 100% of their rated  
24 capability at either the expected load case or the

1 worst case load which is basically the 90/10  
2 weather forecast. So we are in compliance with all  
3 NERC and SERC planning standards and that 100% is  
4 met even under all single contingency conditions.

5 We also participate in a summer operating  
6 study both with MISO and with SERC, and in all  
7 instances we were found to have our system be  
8 adequate to meet the summer loads.

9 To the extent that there on a real-time  
10 operating condition basis any constraints that  
11 would happen to occur, MISO has a congestion  
12 management process, and it would address those  
13 constraints on a real-time basis.

14 The next slide basically shows some of the  
15 new and upgraded facilities that have been placed  
16 in service or are about to be placed in service for  
17 this summer. This has been obviously since the  
18 last calendar year we were here.

19 There are a number of different line  
20 upgrades. Those generally involve reconductors to  
21 raise the rating on those facilities.

22 At the substations, most of those  
23 substations involve breaker replacements. The  
24 Gilman substation is not yet in service. It is

1 scheduled for the new breakers. They are scheduled  
2 to go in service on June the 5th. The Latham  
3 substation was actually just placed in service last  
4 Tuesday. That, the substation work involved three  
5 345 kV breakers and a ring bust, but that's  
6 actually the completion of a much bigger Latham  
7 Oreana project that involved nine miles of new  
8 transmission plus work at two substations, Latham  
9 and Oreana. It was actually completed ahead of  
10 schedule. So that completes that entire project.

11 We are going to be installing in June  
12 capacitor bank at the Fargo substation. That's a  
13 40 megabar capacitor bank that's intended to  
14 improve the voltage in the Peoria area.

15 One other thing that's not on this slide but  
16 I thought you might have some curiosity about is we  
17 do have three major transmission projects that are  
18 underway that have already received certificates  
19 from the Commission for Ameren Illinois. That's  
20 the South Livingston Brokaw Line, the Bondville  
21 Southwest Campus and the Fargo Maple Ridge, and all  
22 of those are on schedule to be completed, the first  
23 two in 2015 and the second in -- third, excuse me,  
24 in 2016.

1           We also obviously have a comprehensive  
2 transmission vegetation management program. We are  
3 in complete compliance with the NERC standards, but  
4 we, too, have kind of upped our game in the  
5 transmission area much like ComEd had expressed.  
6 We, too, are trying to focus on tree removal rather  
7 than just tree trimming. So to the extent that our  
8 easements allow, we are trying to get back and  
9 remove trees to avoid the problems with  
10 continuously going back to trim and the potential  
11 that, you know, something could happen that would  
12 be unanticipated in terms of the rate of tree  
13 growth or what have you.

14           Our vegetation management group does have a  
15 basically target zero for no preventable tree  
16 outages, and certainly in 2013 we did comply with  
17 that performance objective. So we do focus on this  
18 heavily. Obviously at the transmission level, any  
19 kind of transmission outage could have consequences  
20 for customers and the system. So that's a high  
21 priority.

22           From a communication standpoint we do have a  
23 specific area of the Ameren web site for  
24 transmission vegetation management that explains to

1 customers where exactly, what our rules are, what  
2 kind of vegetation is permitted. We also do door  
3 hangers, that kind of thing to notify customers  
4 when we are going to be in the area.

5 So that completes my report on the readiness  
6 of the transmission system. I will turn it over to  
7 Ron Pate.

8 MR. PATE: Thanks, Maureen. I am Ron Pate,  
9 Senior Vice President of Operations and Technical  
10 Services.

11 Maureen touched on the transmission. I'd  
12 like to take just a moment to talk about  
13 reliability on our distribution system. As you can  
14 see from this slide, all sub-transmission and  
15 distribution feeders as well as substations are  
16 expected to be loaded within ratings for expected  
17 summer conditions except for the few that I have  
18 noted here. On those work is either underway or  
19 being planned to alleviate those areas of concern.

20 Under worst case summer loading three  
21 additional substation transformers would exceed the  
22 ratings. One of those is a larger retail customer  
23 that we are working closely with to develop an  
24 upgrade plan with them. Another substation

1 transformer is being replaced, and one more will be  
2 monitored to make sure that it is needed and a plan  
3 put in place for that.

4 So in summary, projects are identified and a  
5 plan to reduce the loadings below 100% for all but  
6 five of the locations and we will continue to  
7 monitor those locations, see if we need an upgraded  
8 plan on those as well.

9 Some of the projects associated with the  
10 Energy Infrastructure and Modernization Act are  
11 listed here. A couple that I will mention are  
12 Viper reclosers reduces the number of customers out  
13 by allowing operation on a single phase as opposed  
14 to all three phases. Also allows remote access so  
15 that we don't have to deal with the older type  
16 switches.

17 When we talk about the underground cable, of  
18 course, we prioritize our underground cable  
19 projects using criteria such as past failures, age,  
20 type of cable like that, prioritize those, get  
21 those replaced before we actually see the failure  
22 on those cables. So we will be able to advance  
23 that.

24 We also have a large reconductor project to

1 increase capacity, and we have many distribution  
2 automation projects to reduce the number of  
3 customers impacted by routing around the fault.

4           These are IntelliRupters, and just to give  
5 you an example there of the improved reliability,  
6 we actually realized a customer interruption  
7 reduction last year of over 9,500 customers that  
8 would have been impacted had these not been in  
9 place. That related to almost 2 million customer  
10 minutes that we were able to avoid. Again, these  
11 IntelliRupters are able to route around a fault and  
12 reduce that number of customer outages.

13           As far as vegetation management, we continue  
14 to meet all legal and regulatory requirements. We  
15 are maintaining a four-year trim cycle. We try to  
16 keep about a two-week cushion on that as well in  
17 case we are called off on storms or to help in  
18 other areas.

19           And one of the questions that you had,  
20 Commissioner, about the enhancements, again, one of  
21 the things that I think has really improved ours is  
22 mid-year cycle that you have heard talked about.  
23 You know, go back where there's been fast growing  
24 species in trees on those circuits and go back that

1 really may not be able to make it a full four  
2 years, and mid-cycle we go back, trim those as well  
3 as a lot more aggressive removal and overhang that  
4 you have heard other utilities talk about and  
5 Maureen as well.

6           You can see up here it has had a very  
7 positive impact on reliability. We see our  
8 tree-related SAIFI drop from within .16 in 2009 to  
9 .09 in 2013. So showing some very good benefits  
10 there. And we continue with our Right Tree Right  
11 Place program through ads that we may have, making  
12 people, the public aware that that's available to  
13 them.

14           And one thing we have really done as well is  
15 enhance that communication with those local  
16 municipalities. You heard Terry from ComEd talk  
17 about that communication beforehand and afterwards.  
18 We are doing the same thing with that as well, and  
19 that provides big benefits to have our supervisor  
20 right there with the municipalities and build a  
21 good relationship with those folks.

22           We also have some ongoing programs to help  
23 continue to improve our reliability as you can see  
24 up here. Early identification of worst-performing

1 circuits and repair work is one of them showing  
2 very good improvement on eliminating future outages  
3 as well as our circuit inspection programs and  
4 device inspection programs.

5 Also customers exceeding reliability  
6 targets, or CERTs as we call them, is defined as  
7 customers that exceeded reliability targets for  
8 three consecutive years. In Order to be proactive  
9 with that, we have actually taken that now and  
10 reduced that so we are tracking at the two-year  
11 interval so we don't get into that third year so we  
12 don't have customers show up on that CERT list.

13 To give you an example of that, this year so  
14 far we have had one that would be identified as  
15 three because we have gone ahead, been doing this  
16 for the last couple of years as far as getting two  
17 years, making those repairs as we go forward.

18 COMMISSIONER McCABE: Mr. Pate, if you could  
19 wrap up in a minute or so.

20 MR. PATE: I certainly can. This slide is  
21 pretty self-explanatory. Just shows you some of  
22 the work we're doing in the dispatch offices. The  
23 guidelines have been covered, the outage requests  
24 and work completed for this summer's loading

1 conditions.

2           And the last slide that I have, no matter  
3 how much planning you do, Mother Nature will take  
4 over at some point. Our focus here is to make  
5 sure, when it does hit us, that we are taking  
6 action to get our restoration activities underway  
7 and completed as safely and efficiently as  
8 possible.

9           We have extensive training in all areas  
10 across all of our divisions and dispatch centers  
11 throughout the year. You can see the number of  
12 events we had in '13 and that we have had to  
13 activate the emergency operating center. This year  
14 we have had six so far with five of those being  
15 storm related. One was a gas event.

16           I might just take a second to brag here to  
17 mention that we did receive an EEI award for  
18 response to the November 17, 2013, storm response.  
19 We had tornadoes come through. Really devastated  
20 several of our communities, Washington, Gifford.  
21 Both of those come to mind. We had about 150,000  
22 customers out there, restored 70% of those in the  
23 first 24 hours and had it completely cleaned up in  
24 72 hours, and that recognition was there.

1           I will turn it over to Stan to talk about  
2 contact centers.

3           MR. OGDEN: I can certainly accommodate and  
4 go through my slides rather briefly here. My name  
5 is Stan Ogden. I'm Vice President of Customer  
6 Service and Metering Operations for Ameren  
7 Illinois.

8           The next slide really gives you the  
9 integrated approach that we take in responding to  
10 storms and responding to customer events. The  
11 integrated approach includes contact center  
12 operations, the community relations folks as well  
13 as the field operations team. We have incorporated  
14 outreaching communities when we have major storm  
15 events. The November 17th tornados are an example  
16 of that. We have mobilized people to be available  
17 in the community.

18           Internet and mobile social media is another  
19 avenue that we have as outreach, and we have  
20 24-hour coverage with media to stay on top of storm  
21 and storm events.

22           We do have municipal education and safety  
23 training that we do throughout our service  
24 territory.

1           The next two slides I will just leave you as  
2 reference. These are the Senate Bill 1652 customer  
3 assistance programs, and they also include programs  
4 that we have had for many, many years, things like  
5 the Warm Neighbors Cool Friends program, we have  
6 our ActOnEnergy energy efficiency programs as well.  
7 The allocation of those dollars to the various  
8 programs assists our custom throughout the service  
9 territory.

10           I will just comment on slide 24. We did,  
11 because of the polar vortex event that we had this  
12 year with the extremely cold winter heating season,  
13 we did a community outreach in East St.  
14 Louis to reach customers who were having  
15 difficulties paying their bills. We also did  
16 statewide media around outreach and efforts to get  
17 to customers and helping them before the April 1st  
18 season, and those proved very beneficial.

19           In the case of East St. Louis, we had about  
20 500 customers participated. We responded to 300  
21 arrangements that day and 200 follow-up calls the  
22 next day.

23           Slide 25 recaps our energy efficiency  
24 activities. We are completing the sixth year of

1 our energy efficiency programs. There you can see  
2 the savings as well as some of the carbon  
3 reductions that are accomplished affiliated with  
4 our energy efficiency programs.

5 Slide 26 does, again, discuss outreach.  
6 Again, one of the more effective outreaches that we  
7 have done is taking curriculum to the schools.  
8 This past spring we did take outreach to the  
9 schools, and this year it is near energy  
10 efficiency, next year it will be safety.

11 I will just comment that I think with some  
12 of the smart grid activities that the Illinois  
13 Science and Energy Innovation Foundation will be  
14 looking at outreach in the area of smart grid in  
15 the future as well, so I'm encouraged by that.

16 I will just point out to you that we have  
17 given you a packet today, and I think those of you  
18 in Chicago may have gotten this electronically. We  
19 do have hard copies available. Some of the  
20 activities and some of the outreach and customer  
21 communications that we have.

22 Finally to summarize the last slide, Ameren  
23 Illinois, as we have explained today has acquired  
24 generation capacity, and we have the transmission

1 distribution capacity to provide reliable service  
2 customers expect for the 2014 season.

3 We are also working to complete critical  
4 maintenance items throughout our service territory.  
5 We have made improvements, and we continue to  
6 enhance our emergency preparedness, our response  
7 and our communication with our customers.

8 So with that I will conclude our  
9 presentation, ask if there are any questions.

10 COMMISSIONER McCABE: Any questions for the  
11 panel?

12 COMMISSIONER COLGAN: I do have one. I do  
13 have one question. And I appreciate your efforts  
14 to stay on time with your comments. I know there  
15 is a lot that you can talk about, and we can  
16 probably talk to each one of your utilities for the  
17 whole period about a lot of the issues that you'd  
18 like to discuss with us and that we'd like to hear  
19 from you.

20 But the one question that I have was on load  
21 forecasting. I notice that I think ComEd is a  
22 little down in their load forecast and MidAmerican  
23 is a little down and Ameren is a little bit up in  
24 your load forecast.

1 I was wondering if maybe I can get one or  
2 two of you to comment just a little bit about what  
3 the process is that you go through for trying to  
4 determine that load forecast.

5 MS. VOILES: Well, if I can just comment  
6 quickly. Our expected peak for 2013 was 7,873  
7 megawatts, and our expected peak for the 2014  
8 summer period is down from that figure.

9 COMMISSIONER COLGAN: Okay.

10 MS. VOILES: Down to 7,553 megawatts. So  
11 ours is down compared to last year's forecast as  
12 well.

13 COMMISSIONER COLGAN: Okay. How do you come  
14 about that number?

15 MS. BORKOWSKI: This really is not in my  
16 transmission hat area, but I actually used to do  
17 this for the company, so that's why I feel  
18 comfortable speaking to it.

19 It is really done at the corporate level  
20 where there is both economic and more customer  
21 specific. So top down kind of economic thing and  
22 bottom up where there are all kinds of econometric  
23 models that are in use to project individual sales  
24 volumes and individual, how that would feed, then,

1 into the overall demand.

2           So it is done at multiple, multiple layers  
3 and assembled up, but that it is also looked at on  
4 an aggregate forecast for the entire state, and,  
5 again, we are looking at the system peak number  
6 represents not only Ameren Illinois' peak demand  
7 but also includes all of the retail electric  
8 supplier demand as well.

9           So really it is looking at the forecast for  
10 the economy as well as recent history. It is  
11 always done on a normal weather basis, and then we  
12 do look for known changes. ADM is adding load for  
13 example. So you do look for known large changes,  
14 take into account energy efficiency programs.  
15 That's kind of one of the modifications.

16           So that is how that works, and, you know,  
17 really that's basically how it is. It is an  
18 econometric type model, but it also uses a bottom  
19 up approach. They look at the sales growth and how  
20 that relates to peak demand growth over time, and  
21 they are not one for one. Usually the actual sales  
22 volume usually tends to grow faster than the peak  
23 demand volume, especially now that we have peak  
24 reducing efforts in place. So --

1 COMMISSIONER COLGAN: Right. Okay.

2 MS. BORKOWSKI: Pretty broad analysis.

3 COMMISSIONER COLGAN: All right.

4 MR. DONNELLY: Terry Donnelly from ComEd.

5 Very similar econometric models just as it was  
6 stated. Also we work with PJM, the interconnection  
7 make sure there is alignment around the load  
8 forecasting across the interconnection. We tie our  
9 local models, econometric models with PJM to make  
10 sure we have the right forecast.

11 Our 90/10 forecast which is one in ten year  
12 weather, we call that worst case. That is slightly  
13 below about 200 megawatts, our all-time peak in  
14 July 2011 which we heard a lot of the companies,  
15 that's when they hit their peak. Actually that  
16 year was, I think, actually worse than the one in  
17 ten, one in ten year weather. So it was probably a  
18 little bit higher than even the worst case but very  
19 similar to what was reported in terms of how we go  
20 about coming up with the forecast.

21 COMMISSIONER COLGAN: Okay. Thank you.

22 MR. CAMPBELL: This is Barry Campbell,  
23 MidAmerican Energy. We also very similar  
24 econometric, but we also depend very much on our

1 managers and individual customer information to  
2 bring it up, and we also perform probabilistic-type  
3 approach as to what could happen. Just bear in  
4 mind the history and actuals includes weather, so  
5 you may see some impacts from the severe weather or  
6 hotter weather than normal, but as going forward we  
7 forecast for a normal weather basis and allow as in  
8 our slides, the normal case above hand.

9 COMMISSIONER DEL VALLE: Just a follow-up  
10 question. Ameren described their method and then  
11 MidAmerican and ComEd said we have similar, similar  
12 methods. Why are there variations at all?

13 MR. CAMPBELL: May have to do --

14 COURT REPORTER: Sir, can you identify  
15 yourself, please? Sir?

16 MR. CAMPBELL: And so we may have the  
17 modeling that we actually use or type of model that  
18 is actually used may be different, but when we say  
19 similar, we mean the methodology is similar, and we  
20 may just differ on what the drivers are, and that  
21 would be dependent on the service territory.

22 COMMISSIONER DEL VALLE: So the methodology  
23 is pretty much the same, but drivers can vary?

24 MR. CAMPBELL: Correct.

1           COMMISSIONER COLGAN: Can you identify  
2 yourself for the court reporter?

3           MR. CAMPBELL: I'm sorry. This is Barry  
4 Campbell with MidAmerican.

5           COMMISSIONER McCABE: I want to thank you.  
6 I think there is a lot of work and investment going  
7 on and learning from prior years.

8           We will move onto the RTO panel. With us in  
9 Springfield will be Joe Gardner, Vice President of  
10 Forward Markets and Operations Services with MISO.  
11 And here in Chicago will be Rich Mathias, Senior  
12 Consultant, PJM Interconnection.

13          Mr. GARDNER: Okay. Good morning. My name  
14 is Joe Gardner, Vice President of Forward Markets  
15 and Operations Services with MISO. Pleased to be  
16 here today to talk about MISO's preparedness for  
17 the summer.

18          We do -- I should wait until the slides are  
19 up.

20          Okay. All right. We do project adequate  
21 reserves from the 2014 summer peak demand on a  
22 footprint wide basis as well as in the central and  
23 north regions. We do have a reduced reserve  
24 requirement that I will talk in more detail about

1 later in the presentation. It does reflect a  
2 tighter supply due to several factors including  
3 retirements that will, potentially cause us to have  
4 to call on our emergency only resources more often  
5 than we have had to in the past.

6 We will continue to work with our neighbors  
7 and try to eliminate barriers and inefficiencies  
8 across seams and further optimize those efforts,  
9 and the outlook beyond the summer is a further  
10 reduction of reserves. I will talk a little bit  
11 more about that later in the presentation.

12 In addition we are exploring the feasibility  
13 of establishing a seasonal resource adequacy model  
14 to reflect the difference between summer and winter  
15 in particular.

16 Next slide, as we have talked about I think  
17 in many different forms, the generation fleet in  
18 MISO overall is being affected by various factors.  
19 For example, the mercury and air toxin standards  
20 that are going into effect in compliant states are  
21 2015 and 2016. That is causing coal retirements to  
22 occur. It is causing us to have to evaluate how we  
23 look at outages, how we plan for outages, the  
24 timing of those outages. It is resulting in

1 shrinking reserve margins in our footprint, and it  
2 is causing, as was noted earlier by the  
3 Commissioner, a growing dependency on natural gas  
4 in the footprint.

5 We are looking forward to the carbon  
6 regulations that are going to be coming out in a  
7 month or so and working with our states in our  
8 jurisdictions as well as all of our utilities on  
9 that draft rule to see how it may affect us going  
10 forward.

11 Next slide. So as I indicated the projected  
12 reserves for our summer speak are 15% on an overall  
13 footprint basis including the south region. I will  
14 talk a little bit more about your central and north  
15 in a second. Our reserve margin target for the  
16 summer is 14.8. So we do have a little bit of  
17 extra above the required target which is a required  
18 target that gives us a one day in ten year standard  
19 for drop in a firm load.

20 The reserve requirement is higher due to  
21 both fleet performance and reduced neighboring  
22 reserve margins. So as we look across the  
23 footprint and as reserve margins change everywhere,  
24 we can count on less imports from our neighbors as

1 well. So we do reflect that in the forecast in the  
2 planning reserve requirement as well.

3 Next slide. So our previous planning  
4 reserve margin from last year was 14.2% due to a  
5 slight reduction in generation fleet performance  
6 and the imports that I just talked about. We did  
7 increase the planning reserve margin target for  
8 2014 by .6%.

9 We do have a diversity benefit our utilities  
10 enjoy as a result of being MISO where the loads do  
11 not peak all at the same time, and so the average  
12 requirement on an ongoing peak basis for our  
13 utilities is 7.9%.

14 Next slide. The reserve margins are  
15 tightening. The slide just gives a little color  
16 associated with what happened. This is just the  
17 north and central region. The 2013 reserves we had  
18 reported were 25.7 gigawatts. Due to requirements  
19 we have had 3.1 gigawatt reduction, and when we  
20 remove non-firm imports that I talked about and  
21 adjusted for those things, we had a reduction of 4  
22 1/2 gigawatts. We did increase the amount that we  
23 can expect to import from the south region into the  
24 north and central by one gigawatt resulting in 2014

1 reserve margin of 19.1 gigawatts for the summer for  
2 the north and central regions.

3           The 2016 resource adequacy forecast, I'm not  
4 going to go into a lot of detail on this. This was  
5 as of January 31st. It did show expected shortfall  
6 of the north and central regions of 2 gigawatts and  
7 in the south region a surplus of 5 1/2 gigawatts.  
8 We are in the process of working with our members  
9 on all of these numbers and expect to release an  
10 updated value during the first week of June.

11           And then finally we continue to evaluate  
12 potential solutions. We do have some generation  
13 that may be trapped behind transmission in various  
14 parts of the footprint. We are working at various  
15 solutions to try and untrap that stranded capacity.  
16 We continue to work with our members to refine our  
17 processes and allow them to offer in, in different  
18 ways, their load modifying resources which includes  
19 your demand response programs as well as behind the  
20 meter generation.

21           We continue to work with our neighbors on  
22 both energy and capacity transactions that can flow  
23 across our seams, and as I mentioned we're  
24 evaluating the seasonal nature as issues associated

1 with natural gas in particular and working with the  
2 gas and electric issues that FERC has recently  
3 issued on as well.

4 With that I will be glad to take any  
5 questions.

6 COMMISSIONER McCABE: Any questions? If  
7 not, Joe, stay at the table. We will have Richard  
8 Mathias, then see if there is questions for both of  
9 you.

10 MR. GARDNER: Okay.

11 MR. MATHIAS: Good morning. My name is Rich  
12 Mathias. I represent PJM Interconnection which is  
13 a regional transmission organization which operates  
14 in parts of all of 13 states and the District of  
15 Columbia. In Illinois PJM manages the transmission  
16 assets which are owned by Commonwealth Edison.

17 Just as the other speakers this morning have  
18 stated, PJM believes it has sufficient committed  
19 resources and transmission system availability to  
20 meet the forecast peak load and reserve margin in  
21 Illinois and in the PJM footprint. If, by some  
22 unusual circumstances, PJM experiences abnormal  
23 availability and/or unusual weather conditions, PJM  
24 may undertake emergency procedures as necessary.

1           I brought along five slides today to recap  
2 very briefly the summer preparedness of PJM.  
3 Slides 2 and 3 show basically the reserve margin  
4 and the capability of PJM to meet the forecasted  
5 summer peak load for 2014 and makes a comparison to  
6 2013 as well.

7           I note EKPC, an Eastern Kentucky company  
8 that became a member of PJM in 2013, and their  
9 numbers were added to this chart that is slide  
10 number 2. We note that PJM will have a reserve  
11 margin of 25.4% footprint wide and is against a  
12 required reserve margin of 16.2%.

13           Just like the representative from Midwest,  
14 you will see that the PJM required reserve margin  
15 increased, and that's due to as well to the three  
16 performers within PJM.

17           As far as forecast mode, the answer to  
18 Commissioner Colgan's inquiry, PJM does its own  
19 load forecast. It does it with, in cooperation  
20 with the members of PJM which include ComEd. The  
21 numbers that are indicated on slide 2, the load  
22 forecast of 157,000 megawatts is the so-called  
23 50/50 load forecast that we anticipate going  
24 forward.

1           I would note that PJM is anticipating only a  
2 1% load growth over the next ten years. Only a 1%  
3 load growth which is quite a change from prior  
4 years when you used to just say automatically going  
5 to be a 2 or 3% increase in load growth, but there  
6 are a number of factors which are to come into play  
7 with regard to that.

8           I would note also with regard to the  
9 upcoming summers of 2015, 2016 and 2017, we are  
10 very concerned about retirements of generation in  
11 the PJM system. We, as you know several months ago  
12 in 2011, we forecast as 25,000 megawatts of  
13 retirements of generation in the PJM footprint.  
14 Quite frankly we are seeing we are very close to  
15 the top end of that. Nonetheless we will have  
16 sufficient resources in the upcoming 2015, 2016 and  
17 2017 years to ensure sufficiency of meeting the  
18 load and the hidden reserve requirement. Due to  
19 the reliability of pricing model, so-called PJM  
20 capacity construct, we have already acquired  
21 sufficient capacity for those three out years.

22           Others have talked about the concerns and  
23 challenges of the past winter, the so-called polar  
24 vortex, and the next two slides really are aimed at

1 highlighting some of the challenges and some of the  
2 responses that PJM and others have had with regard  
3 to these very unusual loads in the winter as well  
4 as in the summertime going forward. We wonder if we  
5 don't have a new normal.

6           As a result of the performance of our  
7 generators and others within the PJM fleet, we are  
8 undertaking these new and more aggressive  
9 challenges going forward, and many of these are  
10 outlined in the summer report or, excuse me, winter  
11 vortex report which was just released yesterday by  
12 PJM Interconnection. I am sure that Joe Gardner  
13 would agree that many of these are the same types  
14 of initiatives that are underway within the Midwest  
15 ISO.

16           I believe the bullets are self-explanatory.  
17 One I would note, though, is with regard to the  
18 load forecasting improvements. That's not  
19 necessarily a load forecasting improvement for the  
20 month or for the year, it is really the day ahead  
21 load forecasting improvements.

22           We did not do as good a job as we would have  
23 liked to have done in January and February and  
24 March in forecasting a day ahead manner, the

1 forecast for the coming day, and as a result we had  
2 to really scramble to make certain that we had  
3 enough assets, generation assets and demand  
4 response and other items to meet the very, very  
5 increased load.

6           Just like the Midwest ISO, eight of the ten  
7 largest, highest peaks in the winter in the past  
8 many years were experienced this January. Eight of  
9 the ten highest peaks in PJM history for winter  
10 operations were experienced in January. Some days  
11 we were at 35,000 megawatts higher than the normal  
12 load for that day. 35,000 megawatts is equal to  
13 what the City of Chicago or Philadelphia and  
14 Washington DC would require for their normal winter  
15 operations.

16           I note that at the end of the bullets here  
17 there is a bullet concerning gas electric  
18 coordination, and I really think this slide, the  
19 final slide, number 5, to be a segue for the  
20 Commission's discussion of gas electric  
21 coordination.

22           You can see why PJM and others in the PJM  
23 footprint as well as the Midwest ISO are very  
24 interested in natural gas coordination with

1 assuring that gas is available when it is needed  
2 both in the summertime and in the wintertime to  
3 drive the generation assets which are in the  
4 Midwest ISO and PJM.

5 As you look at this pie chart you can see  
6 the number of megawatts of the wind PJM has. The  
7 Midwest ISO would have considerable more, probably  
8 twice as much as far as wind assets. There are  
9 around 13 to 14,000 named wind assets. If you look  
10 at the natural gas generation assets, PJM would be  
11 significantly ahead of the number that Midwest ISO  
12 has.

13 But again, when you have got 53,000  
14 megawatts, 53,000 megawatts of natural gas  
15 generating capacity in PJM, you want to make  
16 certain that as many of those megawatts are  
17 available in the summer and winter as possibly that  
18 they can be.

19 We would note that this past January in the  
20 winter vortex that we had a very high outage rate  
21 within PJM. Almost 20% percent of our total  
22 megawatts were out, and about a quarter of that 20%  
23 was from inability for the natural gas generators  
24 to obtain natural gas supply. So when you are

1 discussing later on this morning, we will be taking  
2 notes and be very interested in what is said during  
3 that time.

4 But again, PJM believes it has adequate  
5 resources to meet the forecast load and the reserve  
6 margins for the upcoming summer, and we will also  
7 -- I believe we have sufficient generation assets  
8 and demand response and energy efficiency resources  
9 to meet a much higher load as well.

10 COMMISSIONER McCABE: Rich, your last point  
11 on dependence on natural gas, which will probably  
12 increase with retirement and environmental  
13 compliance, I'd be interested in both PJM and  
14 MISO's thoughts on how this area compares to the  
15 east which seems even more constrained and if we  
16 might be in a better place.

17 MR. MATHIAS: Joe, do you want to lead off?

18 MR. GARDNER: I think -- you know, I will be  
19 glad to. I think we are in a better place than in  
20 particular New England which has a relatively  
21 limited supply of pipes into that area. We do have  
22 many, many pipelines cross our footprint.

23 Having said that, we do expect to continue  
24 to increase our use of natural gas, and we will

1 start utilizing those pipes to a fuller extent than  
2 we have in the past which will put an increased  
3 demand on that, which is one of the reasons why we  
4 are looking at things like doing a seasonal  
5 construct to ensure that -- one of the thoughts  
6 there is to ensure that resources in the winter do  
7 have adequate supply.

8           So I think we are in a better spot than the  
9 northeast, but we will continue to increase our  
10 utilization.

11           MR. MATHIAS: I would agree with what Joe  
12 just mentioned. I would also indicate that in the  
13 polar vortex, beginning of the polar vortex when  
14 people at PJM were talking with the gas pipelines,  
15 number one, we couldn't talk with them and share  
16 confidential information until FERC issued an  
17 emergency Orders that allowed such confidential  
18 communications.

19           And then secondly, just the terminology that  
20 was being used by electric generators, PJM, and  
21 others in the electric generation and transmission  
22 business, the terminology was totally different  
23 from what was being used by the natural gas  
24 pipelines and the natural gas companies such as

1 Peoples. So if we learned one thing during the  
2 past winter, we have learned how to talk the other  
3 guys' language.

4 COMMISSIONER McCABE: Other questions?

5 Okay. Thank you both, Rich Mathias from PJM  
6 and Joe Gardner with MISO.

7 And Commissioner Colgan, are you willing to  
8 just continue?

9 COMMISSIONER COLGAN: Okay. Our final  
10 panel, our final panel this morning consists of  
11 discussion regarding the issues and challenges of  
12 natural gas availability related to winter use.  
13 The panelists for this segment of our forum today  
14 will be Tim Sherwood who is Vice President, Gas and  
15 Supply Operations at Nicor Gas; Rich Dobson,  
16 Manager of Gas Supply for Peoples Gas, and Scott  
17 Glaeser, Vice President, Gas Operations &  
18 Development at Ameren Illinois Company.

19 So if you gentlemen would like to come  
20 forward.

21 UNIDENTIFIED: Who is up first?

22 COMMISSIONER COLGAN: First we will go with  
23 Nicor.

24 MR. SHERWOOD: Good morning. Yeah, my name

1 is Tim Sherwood. I'm the Vice President of Gas  
2 Supply Operations for Nicor Gas. I'm going to  
3 address some of the issues that were asked in the  
4 agenda from the Commission. First I'm going to  
5 review quickly what our experience was this past  
6 winter in dealing with the cold weather and the  
7 supply challenges that we saw and then also a  
8 viewpoint that we have as far as supply  
9 availability of natural gas both in the short term  
10 and long term. So I will just start stepping  
11 through this.

12 This past winter, as everyone has mentioned,  
13 was substantially colder than what we have  
14 typically seen. We saw weather virtually every  
15 month during -- this graph shows every month during  
16 the winter, November through March. It was colder  
17 than what we would normally experience in a kind of  
18 30-year average, and it was a sustained cold for  
19 the entire winter, about 20% larger overall.

20 We saw system throughput. That means  
21 deliveries to our customers both transport gas for  
22 their own use and customers who purchased gas from  
23 Nicor increased by 72 Bcf or about 23% above what  
24 we have seen before. Our purchases for gas for

1 sales to our customers were up about 75 Bcf from  
2 what we would normally have in our plan for a  
3 normal wintertime.

4 Our challenges were exacerbated by the fact  
5 that we had a primary pipeline supplier that had  
6 experienced some performance issues, both with  
7 their storage deliverability and with some  
8 compressor stations that are on their system that  
9 limited their ability to deliver gas on many days  
10 of the winter. So that, coupled with the high  
11 demand, had a pretty strong impact on the pricing  
12 of gas as we went through the winter.

13 As I mentioned before, NGPL, which is a  
14 supplier to a vast majority of our customers on the  
15 Nicor system, had experienced a substantial amount  
16 of operational issues this past winter. The graph  
17 that I show there shows that there were times in  
18 which they issued hourly restrictions. I will kind  
19 of step through those for you. Remind me if not.

20 Kind of getting back to the previous  
21 statement of the language we speak and not maybe  
22 everyone else speaks in, but hourly restrictions  
23 meaning that they were limiting the amount of gas  
24 that we were allowed to take off of the pipeline

1 system per hour to meet demand.

2 Gas demands throughout a day varies greatly  
3 hour to hour. For example, in the morning when the  
4 furnaces come on, people take hot showers, we see  
5 gas demand drive up a lot for the hour, and we were  
6 limited during some of those time periods.

7 We have OFO's, which are operational floors,  
8 which have a variety of things that they can do  
9 that limit your ability to take gas at either  
10 different points or at different times off the  
11 system. The OFO directive was something very  
12 specific which limited access to, NGPL customers'  
13 access to their storage services, critical times  
14 which implemented higher penalties for violations  
15 of your contract or violations of the OFO's that  
16 were in place at the time and force majeure which  
17 typically deal with equipment failures. Most  
18 notably on the NGPL system it was compression  
19 station failures.

20 In Orders to deal with these challenges that  
21 we had and this high demand level, we relied  
22 heavily on Horizon Pipeline. It is a service that  
23 Nicor has that effectively works almost as an  
24 extension of our transmission system where we are

1 able to contract for firm transportation from  
2 Horizon and get service through it as if it were  
3 almost our transmission system to move gas up into  
4 the northwest portion of Illinois. It is very  
5 helpful, and the cost of the service is  
6 substantially lower than if Nicor was to try to  
7 build its own facilities to replicate the  
8 capability of Horizon.

9 We also shifted a lot of our tanks. A good  
10 thing about this area is, as was mentioned earlier,  
11 there are a lot of different pipelines that serve  
12 the Chicago area. So we were able to shift tanks  
13 to pipelines other than NGPL which we were able to  
14 help enhance our supply capability as well.

15 We also operated our system in a manner  
16 somewhat different than we have in the past in  
17 which we lowered pressures in some of our  
18 transmission systems that allowed us to get greater  
19 volumes of gas into our system than we normally  
20 could, and we operate storage in a very robust  
21 manner. There is a substantial amount of on-system  
22 storage on the Nicor system. That really was, for  
23 us, the primary benefit.

24 We deliver almost 140 Bcf a year of gas out

1 of our storage. We can deliver over 2 1/2 Bcf a  
2 day of gas out of storage, and several of our  
3 fields can turn around from withdrawal to inject  
4 from one day to the next. So when we would get  
5 what were warm-ups, which sure didn't feel much  
6 like warm-ups for people, but warm-ups compared to  
7 the extreme cold, we would actually inject gas back  
8 into storage for those days to boost the pressures  
9 back up in those storage fields so that we can  
10 withdraw it the next day when it got colder to help  
11 enhance deliverability.

12           And it is a real testament to Nicor  
13 employees. We had several of them in downstate  
14 Illinois who were shoveling off four or five feet  
15 of snow off of equipment so they could operate that  
16 equipment on some of those days. It was a real  
17 benefit to the system. Thank you.

18           This graph kind of shows where we are  
19 looking for, for the supply of winter for 2014,  
20 '15.

21           Our storage, the storage, the aquifer  
22 storage that we have in the State of Illinois and  
23 the lease storages that we have with the pipeline  
24 companies are currently at or ahead of where we

1 would normally be. Part of that is because we  
2 operate our storage for the operational benefit of  
3 the system. So therefore, we are going to withdraw  
4 that storage to keep the system operating as it  
5 needs to, and we will inject the system unlike in a  
6 lost of the national information that you hear  
7 about storage. Folks are trading around that, and  
8 they are making financial decisions. If it doesn't  
9 look like the value of storage will be enough next  
10 winter for them to want to inject gas now, they may  
11 be putting off on doing those injections.

12 We don't do that. We inject gas into  
13 storage. It will be full by the end of winter, and  
14 for all of our on-system storages we are right on  
15 track to be full before the beginning of winter.  
16 We are slightly ahead because, as I mentioned  
17 before, there were some periods of time which we  
18 were unable to access 100% of our storage from the  
19 leased storage from NGPL. So rather than being  
20 ahead in injections, what we really are is we were  
21 slightly behind on withdrawals. So therefore, we  
22 are ahead at this point in time because we didn't  
23 pull as much gas out of the storage as we normally  
24 would have anticipated doing.

1           So we also use firm pipeline capacity to  
2 fill our storage. We contract for firm supply from  
3 credit-worthy suppliers to fill those storages. We  
4 have no concerns about getting our storage full  
5 whatsoever.

6           The national picture may have a little bit  
7 more of an issue associated with it even though I  
8 think one of the things we have to keep in mind,  
9 there is an unprecedented gap in the amount of  
10 storage fields compared to where we have been in  
11 the past. But a lot of the new storage inventory  
12 that's been added to the national system in the  
13 last ten years is called high deliverability salt  
14 dome storage, meaning you can pull all the gas out  
15 of that storage field in ten days, can put it all  
16 back in about 20.

17           So that's a lot different than the storages  
18 that require an entire summer to get full. So I  
19 think there could be a lot more inherent catch-up  
20 capability than people are anticipating when they  
21 are seeing this large gap based on past levels of  
22 storages when we have seen cold winters in the  
23 past.

24           We are working with NGL as well as the

1 other NGPL customers in understanding what their  
2 operational capabilities are and what our  
3 expectation could be for next year. We are  
4 monitoring their maintenance schedules and working  
5 with them to make sure that we understand what  
6 their capabilities will be for the upcoming winter.

7 We are exploring the availability of  
8 alternate incremental firm capacity. Either that  
9 would be acquiring firm capacity on those alternate  
10 pipelines that we utilized this winter that I spoke  
11 of or potentially getting new capacity built into  
12 the area which would be a more long term. We are  
13 planning to extend our Horizon Pipeline agreement.  
14 As I mentioned before, we used it at its maximum  
15 capability for almost over 30 days this past  
16 winter.

17 For the longer term on supply, you know, we  
18 are really trying to fully evaluate what our  
19 exposure to single source risk is. On the Nicor  
20 system, for example, we have close to 700,000 of  
21 our 2.1 million customers that are dependant on  
22 NGPL. It is the only pipeline that supplies that  
23 particular area of our system, and we are looking  
24 at what might be some alternatives to lessen the

1 risk of supply issue associated with those single  
2 source areas.

3           We are looking at the possibility of  
4 expanding on system storage to reduce unreliability  
5 for deliveries. There is some inherent capability.  
6 Additionally what that could really do is help us  
7 out a lot with that hourly capability that I was  
8 talking about before where we can inject on one  
9 day, withdraw the next and really balance out. The  
10 hourly takes better, and there is some potential  
11 for doing that with our on-system storage that we  
12 need to do some more engineering and economic  
13 analysis on.

14           We will continue to hold firm capacity, all  
15 of our firm customers. We hold firm capacity in  
16 Orders to serve them, and we will obviously continue  
17 to do that, and as I mentioned before, longer term  
18 as the shale supplies grow there is actually the  
19 real potential for gas to kind of back up from the  
20 East Coast back into the Midwest, and that  
21 increases not only the potential for supply into  
22 our existing pipelines but also creates an  
23 opportunity that probably has not been available in  
24 the state in a long time which is a shorter build

1 for even brand new pipeline capacity into the area  
2 where before you would have to build it all of the  
3 way from a supply basin, for example, off the Gulf  
4 of Mexico and build a brand new pipeline. It  
5 wouldn't have been economically viable.

6 But with pipelines that currently exist  
7 having gas being sourced in the east and moving gas  
8 back this direction, you only have to build from  
9 where those pipelines are located already in the  
10 Midwest potentially into the Chicago market which  
11 could turn projects that were not economically  
12 viable before into really good economic options for  
13 not only our customers for enhanced reliability but  
14 as people were talking about increased need for  
15 power generation, it could help support a lot of  
16 new capacity for that power generation as well.

17 Happy to take questions now or if you want  
18 to wait until everyone is done, that's fine.

19 COMMISSIONER DEL VALLE: This is  
20 Commissioner Del Valle. I just said to John here,  
21 I said, man, did he say a lot. You covered a lot  
22 of ground there, and it is good stuff.

23 But there are customers out there that are  
24 struggling with how they are going to pay that

1 bill, right?

2 MR. SHERWOOD: I would anticipate. Demand  
3 was certainly up.

4 COMMISSIONER DEL VALLE: Because demand was  
5 up.

6 So you talked about the need to improve  
7 pipeline capacity diversity, pipeline capacity  
8 diversity, and you talked about the storage and  
9 that, having access to that storage, that that is  
10 going to be good for next year because you will  
11 have access.

12 What, with all of the things that you listed  
13 here is it fair to say that, that we are not going  
14 to have another experience regardless of how rough  
15 the winter is like we have had this time around?

16 MR. SHERWOOD: You know, I really wouldn't  
17 say that there is assurance. If we had an exact  
18 repeat of the weather this year or upcoming winter  
19 that we had this past winter, it would be very  
20 dependant on whether the issues that our pipelines  
21 experienced have been rectified between now and  
22 then, particularly on the issues that you were  
23 talking about related to pricing.

24 For example, when our primary pipeline

1 supplier was having difficulty in delivering our  
2 contracted volumes to us, we were moving to other  
3 pipeline suppliers, then, to deliver that gas,  
4 meaning that whoever was planning on using that  
5 capacity or, you know, there is a limited amount of  
6 capacity. It is classic supply and demand.

7 Therefore, there was more desire for  
8 delivered gas in the Chicago market, and there was  
9 a reduced capacity for delivered gas in the Chicago  
10 market, and that drove the delivered price of gas  
11 up to the Chicago market.

12 So if we experience the exact same  
13 circumstances we had this past year, I would tend  
14 to think they would not be as impactful, certainly  
15 for Nicor because many of the lessons that we  
16 learned as far as how we can operate our system and  
17 take full advantage of the maximum capacity that  
18 was available from the pipeline. We monitored that  
19 as we went along, made sure we can safely serve  
20 customers and orientated our system to allow us to  
21 take more gas off of NGPL even under their  
22 challenged supply scenario.

23 We also would be operating our storage with  
24 an understanding of this could be a more prolonged

1 event as opposed to a short-term, intermittent  
2 event which would also help us to mitigate the  
3 impact.

4 But without real clarity as to whether the  
5 pipeline issues have been resolved, I couldn't  
6 assure you that there wouldn't still be challenges.  
7 I do believe that, as we did this past year, that  
8 we made sure all of the customers were served, but  
9 there would probably still be some pricing impact  
10 associated with it I do believe.

11 COMMISSIONER COLGAN: All right. Thank you  
12 for that.

13 Can we -- are there other questions for Tim  
14 Sherwood now, or can we move onto Rich Dobson?

15 Is Rich there?

16 MR. DOBSON: Yes, I'm here. Just waiting  
17 for them to change the slide for me, sir.

18 COMMISSIONER COLGAN: Okay. While we are  
19 waiting for that, I have a question for you,  
20 Mr. Sherwood.

21 You talked about the difference between  
22 aquifers and salt domes for storage capacity and  
23 how a salt dome can be taken down in ten days and  
24 restored in 20.

1           Isn't there some extended time period for  
2 the aquifer to replenish the storage capacity?

3           Is there something in the physics there that  
4 you can expand on a little bit?

5           MR. SHERWOOD: Absolutely, yeah. Your point  
6 is exactly right. It is probably best understood  
7 through the comparison.

8           A salt dome is literally a cavern, empty  
9 cavern under the ground. There is no geology that  
10 you are dealing with in that the gas is not passing  
11 through porous rock, it is just going into  
12 effectively a hole in the ground. So therefore,  
13 the ability to compress gas and inject it at very  
14 high rates and then there that gas gets up to a  
15 very high pressure and then therefore be able to  
16 pull it out at very high rates is a nature of the  
17 cavern that is created.

18           With aquifer fields, you are really  
19 injecting gas into formations that if you looked at  
20 it, it is more of something that looks more of like  
21 a pumice stone that has water inside of it, and as  
22 you are pushing the gas into that rock formation,  
23 you are slowly pushing the water out of the rock  
24 and, in those small holes within the rock the gas

1 is actually stored within those, that porous rock.

2           If you try to inject too quickly into that,  
3 the gas can bypass past the water, and it gets away  
4 from the production area, and you can't retrieve  
5 the gas back out very easily. So you have to  
6 inject gas relatively slowly to effectively create  
7 a bubble for the gas to -- the folks who are real  
8 geologists are probably cringing at that, but  
9 that's effectively -- and the same thing happens  
10 when you, if you would draw gas out too quickly  
11 from an aquifer, you can start drawing water up  
12 through the wells instead of pulling gas from the  
13 wells.

14           So you have to operate them within a really  
15 defined window in Orders to get the full  
16 capabilities out of them. That's why it is  
17 critically important for our aquifer fields and  
18 many of them to be completely full at the beginning  
19 of the season. So we fill them regardless of  
20 whether it looks like it is a good economic trend  
21 or not and fully withdraw them so you can what we  
22 call cycling of the gas so you maintain their full  
23 capability year after year after year.

24           So that's why we operate and look at it just

1 fundamentally different than what you hear in a lot  
2 of the industry, and it is one of the things that  
3 makes it more of an issue with trying to get those  
4 turned around quickly. That's why the Troy Grove  
5 and Galesville fields which are aquifers, but have  
6 slightly different characteristics which allow us  
7 to switch back and forth from injection and  
8 withdrawal are extremely valuable to our customers.

9 COMMISSIONER COLGAN: Okay. Thank you.

10 Mr. Dobson?

11 MR. DOBSON: Good morning, Commissioners.  
12 Thank you for the opportunity to come in and talk  
13 to you. I am not going to go through some of the  
14 things that Mr. Sherwood just explained.

15 We at Peoples Gas, North Shore Gas  
16 experienced many of those same constraints.  
17 Looking at that just to put the weather in context,  
18 Mr. Sherwood talked about the fact that it was cold  
19 the entire winter. This is one way to look at it  
20 that it was cold a lot. Everything below the zero  
21 line was below normal in weather. That doesn't --  
22 that's not a measurement of temperature completely  
23 but tied to heating degrees days. But think of it  
24 this way. Everything below the line is cold,

1 everything above the line is warm.

2 Even in January it was a little bit warm but  
3 not for very long. Those excursions were not very  
4 far. On January 6th the temperature was minus 9  
5 degrees F or essentially minus 74 to heating  
6 degrees days. So that would be the big spike down  
7 on about 40 degrees below normal. So that's how  
8 you can look at it in context.

9 Looking at storage on a national basis, that  
10 is one of the things we are talking about. You can  
11 see where we are currently. The black dotted line  
12 is the five-year average. The green line was where  
13 we were last year. The span that's on either side  
14 of those lines were the five-year high and low for  
15 any given month or week during the five-year  
16 period. The blue line is where we are today. You  
17 can see we hit the number down about 800. We are  
18 down just over 1,000. We are targeting somewhere  
19 between 3.2 and 3.6 Bcf nationally. That's if  
20 everything works out.

21 Like Nicor, Peoples Gas, North Shore Gas  
22 will be targeting to put enough gas in to meet the  
23 reliability that we have had in the past, and we  
24 will do this regardless for the most part on price.

1 We are going to put the gas in the ground for  
2 reliability purposes.

3 Last winter you can see the prices that we  
4 had there. The January peak load was 1.7 Bcf for  
5 Peoples and 367,000 dekatherms for North Shore. I  
6 would note for North Shore that that was a new high  
7 send out day. It doesn't mean we hit our design  
8 day which is also there.

9 We are taking the experiences that we had  
10 for the winter and re-evaluating the peak day and  
11 incorporating new weather into our most recent peak  
12 day designs for the upcoming year.

13 What are we doing for this upcoming summer  
14 and for the next winter?

15 We are expecting demand of about 48 Bcf and  
16 requirements of about 50 Bcf to buy. The  
17 difference between that is what we have to use to  
18 move the gas around, put it into compressors, use  
19 it for fuel to the pipeline to get it here.

20 We are targeting for Peoples Gas about 52  
21 Bcf in gas storage. We are -- that is  
22 approximately the number we were at last year.  
23 Might be just a little bit above. North Shore is  
24 about 9.1 Bcf again for November 1. For North

1 Shore our total gas storage inventory is 10 Bcf,  
2 and for Peoples Gas it is a little bit more than  
3 52, and the reason we are not going to be quite  
4 full on November 1 is that our on-system storage  
5 field inject is going to be full as of essentially  
6 December 1st. So there is still some gas going  
7 into the ground in November for Peoples Gas and  
8 North Shore Gas.

9           While nationally we tend to look at the  
10 injection cycle running April through October and  
11 withdrawal cycle running from November through  
12 March, for the Peoples Gas storage field it is  
13 November -- sorry, December through February  
14 withdrawal period and a March through November  
15 injection period.

16           We are expecting to hedge the gas going into  
17 the ground. About a third of it is what we are  
18 going to be putting on a financial hedge, and we  
19 are expecting our inventories to be approximately  
20 where they were at the beginning of last year for  
21 the beginning of this winter storage season. Thank  
22 you.

23           COMMISSIONER COLGAN: Okay. Any questions  
24 for Mr. Dobson?

1           COMMISSIONER MAYE: I do have a question,  
2 Commissioner Colgan. Thank you both for your  
3 presentation.

4           My question is directed towards Peoples. I  
5 do know that as well as storage taking a hit, which  
6 obviously that would be replaced by the time next  
7 winter comes, more so than anything infrastructure  
8 took a hit. There were infrastructure repairs that  
9 were needed and are still needed.

10           Where are we in that process, and will we be  
11 in a good place beginning next winter and  
12 particularly if the next winter is as brutal as  
13 this one?

14           MR. DOBSON: You are talking about the  
15 infrastructure at the distribution level?

16           COMMISSIONER MAYE: Sorry, I'm talking about  
17 the pipeline and pipes and a lot of that being  
18 needing to be replaced.

19           MR. DOBSON: There is some ongoing efforts  
20 by the interstate pipeline to meet the requirements  
21 under the PHMSA, P-H-M-S-A.

22           Is that right?

23           Thought I got the acronym right.

24           Those are -- we are monitoring where the

1 pipelines are.

2 Can I tell you they are going to be done?

3 No, I can't.

4 Do I expect them to be as brutal in the  
5 winter? No, I do not.

6 They tend to do, like we do, a lot of our  
7 services and repair maintenance in the summer  
8 months. So there really wasn't that big an issue.

9 One of the issues we had with the interstate  
10 pipeline, NGPL in particular, was how they were  
11 able to maintain pressure in that line. They did  
12 not have that large a compressor outage, but they  
13 were having trouble keeping pressure in their  
14 lines, and for exactly why they have yet to come  
15 clean on it completely to us at this point.

16 Do I expect it to happen again? I hope not.  
17 We, like Nicor, are going to be applying lessons  
18 learned in looking at what alternatives we have,  
19 and we can implement them and also to maintain our  
20 capabilities ourselves.

21 COMMISSIONER COLGAN: Okay. Well,  
22 Mr. Glaeser is here from Ameren, and Ms. Voiles, do  
23 you have some comment that you are going to make?

24 MS. VOILES: I'm here for support and any

1 questions that you all may have.

2 COMMISSIONER COLGAN: Okay. Thank you.

3 Mr. Glaeser?

4 MR. GLAESER: Thank you, Commissioner. My  
5 name is Scott Glaeser. I'm Vice President of Gas  
6 Operations and Development for Ameren Illinois.

7 And like Mr. Sherwood and Mr. Dobson, we  
8 have to talk about this past winter before we can  
9 talk about what to expect this summer and then  
10 going onto next winter. Without being redundant,  
11 to summarize it we had one hell of a winter this  
12 past winter. It is probably the most extreme  
13 winter period we have experienced in almost 25  
14 years.

15 And the good news is, even though we had  
16 some significant operating problems with one of our  
17 interstate pipelines, which I will talk about as  
18 well, we were able to deliver gas supplies to our  
19 customers reliably and, just as important, at very  
20 stable prices.

21 Our PGA rate for this past winter, the  
22 entire winter was about \$.54 per therm. That  
23 stayed that way even though spot market volatility  
24 hit prices of 10, 20, even \$40 premium BTU. We are

1 very proud of the fact maintaining reliability and  
2 maintaining price stability for our customers in  
3 one of the most difficult winters we have seen in  
4 almost a quarter of a century.

5 I do want to cover just briefly our peak day  
6 we experienced. Similar to Nicor and Peoples, we  
7 saw our peak day on January 6th. The good news is  
8 we design our systems, our capacity, our on-system  
9 storage and all of our resources to meet a 30-year  
10 peak design day. So we design everything for the  
11 worst winter event in 30 years. We have basically  
12 just seen a 25-year event. So as you can see by  
13 these numbers here, especially on projected design  
14 day, we actually had some reserve capacity during  
15 this extreme peak day, and we actually had even  
16 more on-system storage reserve margin on that same  
17 day.

18 Important to keep in mind that on-system  
19 storage is our last line of defense. If other  
20 resources have failed, we keep some of our  
21 on-system storage back. In case other systems fail  
22 like the interstate pipeline, we can then bring on  
23 that storage in real time to cover any gaps. So  
24 that's why you see a bigger reserve margin on the

1 on-system storage than any other resources for that  
2 day.

3 Mr. Sherwood did a good job of covering our  
4 operating difficulties with NGPL. I do want to add  
5 a few more key points to give the Commission a full  
6 awareness of what happened.

7 We actually operate on nine different  
8 interstate pipelines for Ameren Illinois. Almost  
9 all of them performed very well in these very  
10 difficult times. Certain pipelines maybe had some  
11 operational flow Orderss or some critical days here  
12 and there, but for the most part they all operated  
13 very well except for NGPL.

14 And to give you some statistics, a normal  
15 winter is about 151 days. NGPL was operating at  
16 what we called impaired for 100 of those 151 days.  
17 When I say "impaired", either they were under  
18 operational flow Orderss, they had force majeure  
19 events where compressor stations failed or they had  
20 critical days announced which basically ratchets up  
21 penalties for being out of balance.

22 Even more important and more troubling to me  
23 personally and to our company was that their main  
24 line delivery pressures dropped to abnormally low

1 levels we have never seen before to a point on  
2 certain days we reached parity with NGPL's main  
3 line pressures and couldn't bring any gas into our  
4 system from NGPL to a point where my transmission  
5 pressures were almost higher than theirs and we  
6 could have started backing gas back into their  
7 system. That was extraordinary, and we have never  
8 seen anything like that before.

9           The other issue that Tim mentioned and I  
10 wanted to enhance as well is that all DSS storage  
11 holders which is us, Nicor, Peoples, MidAmerican, a  
12 few other major LDC's, were forced to do injections  
13 in late February, March. The last thing we want to  
14 do in a critical winter period is inject gas. We  
15 need all those resources flowing into our citygate.  
16 We need those resources for our demand centers.

17           NGPL was forcing us to do injections and  
18 forcing us to specific injection points on their  
19 system, i.e., Ventura, Northern BOrders  
20 Interconnect, on Amarillo, and the Rockies Express  
21 Interconnect on the Gulf Coast. You can imagine  
22 what happened in that situation when all the major  
23 shippers of NGPL are forced to buy huge amounts of  
24 gas to inject. The prices of those points went

1 ballistic. So it really created a huge market  
2 distortion as well. So I wanted to give that  
3 information to the Commission just to have a better  
4 feel.

5 We are working with Nicor, Peoples,  
6 MidAmerican and others to address this issue with  
7 NGPL to make sure this does not happen going  
8 forward.

9 Next slide, this is some examples of some of  
10 the price volatility. These are Chicago citygate  
11 prices, and you can see some extreme weather  
12 events, prices reached upwards of 30, even \$40  
13 premium BTU, not only driven by weather and demand  
14 but also driven by some of these pipeline operating  
15 events and critical notices as well. It is a  
16 combination of those showing that price volatility  
17 at the gate station.

18 It is also important to note we have seen  
19 price volatility in other parts of the country as  
20 well, especially the northeast where there is  
21 significant pipeline constraints. We saw prices  
22 upwards of almost \$100 premium BTU up in the  
23 northeast. What that tells us, the nation, the  
24 industry is that there is real pipeline constraints

1 that need to be addressed going forward.

2           Next slide, talk a little bit about this  
3 summer. We have already discussed about the  
4 storage injection situation for the nation as a  
5 whole. One point I did want to bring up, which is  
6 the second bullet, is that if you look at the  
7 production forecasted for this summer of about 15  
8 Tcf, basically the native load, the normalized load  
9 during the summer season, the off peak season about  
10 7.5 Tcf, you add in our storage injections for the  
11 nation, it is going to be about 3 to 3.5 Tcf. The  
12 wild card becomes gas generation. So gas  
13 generation could push the supply demand balance  
14 pretty hard this summer.

15           If we look back at 2012, gas generation burn  
16 was 6 Tcf. Normalized it is about 5 to 5.2 Tcf.  
17 If we have another hot summer with a lot of gas  
18 generation hitting, it could really cause some  
19 supply and demand, I wouldn't say imbalances but  
20 tightness which can cause some more price  
21 volatility.

22           Now, we do have Canada, imports from Canada  
23 to help make up some of that gap, but there is  
24 still going to be some market tightness if we have

1 another hot summer. Really gas generation is going  
2 to be that tipping point.

3 Now, if we look at the forecast, what the  
4 market is telling us forward for natural gas  
5 prices, they are still relatively calm and stable.  
6 We are looking at this summer on the NYMEX trading  
7 about \$4.52. That is the market telling all of the  
8 participants like us and the other LDC's that they  
9 expect supplies to be there to meet demand at about  
10 a clearing price of four fifty. So the market is  
11 not expecting any big upsets, but weather, as we  
12 talked about, Mother Nature can change the plans of  
13 the market pretty quickly.

14 On the next slide I'm going to drill down to  
15 our storage preparations for this summer. We are  
16 going to need about 37 Bcf to inject this summer.  
17 Our customer demands are about 16 Bcf. That's a  
18 total demand of 53. As of right now we have 42 Bcf  
19 or about 80% is already under firm contract. Now,  
20 that, about 36% is price hedged, and before we get  
21 into the core summer generation season, which is  
22 basically July, August and into early September, we  
23 will have about 50% of those volumes price hedged  
24 to protect our system, our storage inventories and

1 customers from any price volatility from generation  
2 this summer.

3 Finally to wrap up on the last slide, we  
4 successfully met some extreme challenges we have  
5 seen this past winter. We had everything from  
6 extreme weather, snow, wind chills, market price  
7 volatility, but our systems, our people more  
8 importantly met the demands. We delivered gas  
9 safely and reliably to our customers at a very  
10 stable PGA rate. We are very proud of that.

11 We expect to do the same for this coming  
12 winter as well, and our storage injections, again,  
13 critically important for us. We are already well  
14 planned, well prepared, and we should have no  
15 problems even in the event of an extreme summer  
16 temperature event that could cause more price  
17 volatility.

18 With that I will conclude my remarks and be  
19 open for questions.

20 COMMISSIONER COLGAN: Okay. Thank you. Any  
21 questions for our panelists?

22 I have a question. Mr. Sherwood, you talked  
23 about how there is maybe some advantage that when  
24 you might need new pipeline build out to meet our

1 needs, and you talked about how it might be easier  
2 because we can just add onto, tie into and extend  
3 already existing pipelines.

4 Can you talk about some of the -- I don't  
5 understand how that can be. Is there, is there  
6 that much capacity in the existing lines that the  
7 pressure can be increased so that if you tie in and  
8 add on new lines, that you can still pump more gas  
9 through those pipelines?

10 MR. SHERWOOD: Well, the actual  
11 circumstances I was referencing, probably -- again,  
12 this is Tim Sherwood with Nicor, but the  
13 circumstances I was referencing that is probably  
14 the best example of that is you may recall that the  
15 Rockies Express Pipeline got built originally to  
16 bring gas produced in Colorado and the Rockies area  
17 and traverse the country to bring that gas over to  
18 Clarington, Ohio. That was the terminus point of  
19 that pipeline. That was before the unprecedented  
20 level of production started being developed in the  
21 Marcellus and Utica area which happens to be what  
22 was originally the delivery location of that  
23 pipeline.

24 COMMISSIONER COLGAN: Okay.

1           MR. SHERWOOD: Now you have a pipeline  
2 that's got a significant amount of capacity with  
3 relatively large supply sources on both ends of it.

4           COMMISSIONER COLGAN: Okay.

5           MR. SHERWOOD: So it effectively starts to  
6 operate somewhat like a header in which people can  
7 contract and move gas from east to west or west to  
8 east in that pipeline, and since it doesn't have to  
9 cross paths, you've effectively increased the  
10 effective capacity of that, of that pipeline  
11 because they will deliver by displacement to  
12 wherever it needs to be delivered along the  
13 pipeline path.

14           That pipeline cuts across Southern Illinois.  
15 So therefore, there is the potential to build  
16 pipeline capacity from a project such as that up to  
17 the market area and effectively create new capacity  
18 but have a build that's probably more on terms of  
19 100, 120 miles of pipeline, which is not  
20 inexpensive but certainly compared to 5 or 600  
21 miles of pipeline is a substantially cheaper way of  
22 getting additional capacity into the marketplace.

23           And there are current pipelines that we take  
24 service from, we collectively as all the utilities

1 here, that also cross and interconnect with that  
2 pipeline as well who could potentially expand their  
3 systems from that point of interconnect and provide  
4 additional capacity into the marketplace to help  
5 meet, one, from our perspective as Nicor, this  
6 supply diversity need that this last winter seemed  
7 to demonstrate clearly we need to address but also  
8 could meet some of these things we have heard from  
9 the electric generators who are saying we need gas,  
10 and it looks like, based on this past winter, we  
11 might need it at the same time as the gas companies  
12 need it. Obviously if there is a limited amount of  
13 capacity, we can't be sending gas to keep people's  
14 homes and sending gas to power plants to burn or to  
15 generate electricity without expanding the level of  
16 capacity that is available in the state.

17 So I think that's a unique opportunity, new  
18 production area to provide for us and something  
19 that we all need to really investigate as an option  
20 for the future.

21 COMMISSIONER COLGAN: Okay. That kind of  
22 tees up another question that I had. Really the  
23 main topic of this whole segment of our discussion  
24 today is to determine if we are going to be able to

1 replenish the storage capacity that we depleted  
2 over the past cold winter.

3 I think I'm hearing from each of you three  
4 that you don't anticipate that that is going to be  
5 a problem, and I think what I was concerned about  
6 and what I think other Commissioners also were  
7 concerned about is that the competition for the gas  
8 that would be used to replenish the storage would  
9 be somehow taken up by the need for gas to do  
10 electricity generation.

11 I hear you, Mr. Glaeser, you are saying that  
12 you thought there might be some competition in  
13 there, and if you could expand a little bit.

14 Is there a potential risk there that we are  
15 not going to be able to replenish the storage?

16 MR. GLAESER: Yeah, I think there will be  
17 competition with the gas generation this summer.  
18 However, us and the same with Nicor and Peoples, we  
19 made pretty extensive preparations and plans to get  
20 that storage gas lined up and purchased under firm  
21 contract before we go into the summer season.  
22 That's the key issue. We have got the gas supply  
23 locked in under contracts. We have got long haul  
24 firm pipeline capacity to move that gas from

1 protrusion zones to our leased storage on the  
2 pipelines and then our on-system storage and also  
3 doing price hedging on top of that to reduce price  
4 volatility.

5           COMMISSIONER COLGAN: But you were also  
6 saying that there were complications with the  
7 pipeline being able to deliver the capacity --

8           MR. GLAESER: Yes.

9           COMMISSIONER COLGAN: -- the firm capacity  
10 that you had in place.

11           Is that an ongoing problem?

12           MR. GLAESER: That is an ongoing problem  
13 with NGPL primarily. We have already done some  
14 resource changes on our system to help reduce our  
15 reliance on NGPL, and we will continue to work on  
16 those issues, and we, along with Nicor and Peoples,  
17 other utilities, are working directly with NGPL to  
18 make sure these problems do not happen again.

19           I will give you some precise examples of  
20 that. One of the big problems NGPL had was failure  
21 of the compressor stations. Then when compressor  
22 stations failed, they didn't have the critical  
23 spare parts in stock or in inventory close by to  
24 get the compressors back online.

1           We have already met with NGPL to talk to  
2 them about that issue as well as Peoples and Nicor.  
3 They are working now to get those critical spares  
4 in inventory at the critical compressor stations  
5 and to beef up compressor station maintenance.

6           I'm still skeptical, but we will be working  
7 closely with NGPL to make sure they carry through  
8 those promises and make sure they are ready for  
9 this summer and next winter as well.

10           COMMISSIONER COLGAN: Mr. Dobson,  
11 Mr. Sherwood, do you have anything to add to that?

12           MR. SHERWOOD: I would agree with  
13 Mr. Glaeser. I mean, I think generally speaking  
14 there is enough capability within the system to get  
15 storage full. I would expect that there is at  
16 least some risk for those folks who are not as  
17 disciplined as utilities tend to be. We start  
18 putting gas in the ground as soon as injection  
19 season starts. Scott's point, we start with plans,  
20 we make contractual arrangements and we start to  
21 fill storage.

22           For those that may be postponing that based  
23 on, for example, the price curve that he was  
24 showing earlier that showed it might be cheaper to

1 put gas in storage later, you might find for some  
2 of those financial trading folks that they might  
3 find out they are all running for the door at the  
4 same time.

5 Now, they all go into the market to try to  
6 inject in October, and they have not price hedged,  
7 they have not contracted for the gas and have not  
8 done that, they may find constraints, and you may  
9 see that price firm up for that later period,  
10 partly due to that fact that if people are  
11 delaying, there is a certain amount of daily  
12 capability to inject that the system has in total.

13 If you delay that, every day you delay it  
14 means you have to go in at a higher rate later  
15 which potentially drives up the demand for gas for  
16 storage injection. But I think that's going to be  
17 more of a pricing effect for those folks who are  
18 traders and not so much for utilities because while  
19 we are certainly concerned about price, gas that  
20 doesn't get to our customers is not worth it at any  
21 price. So we have to make sure it gets delivered  
22 to the customers, and that's our primary concern.  
23 So I tend to agree with them. I don't know if Rich  
24 sees it the same way or not.

1           MR. DOBSON: The only difference I would add  
2 is that there is a certain amount of flexibility  
3 over the entire season for us to make sure we do  
4 hit our targets so that while I'd like to put it in  
5 relatively rapidly, there is an ability to either  
6 speed up or slow down some but not much. Again,  
7 that is where the plans have built into that, take  
8 that into account so that if there is a facility  
9 problem, we can adjust for it and still stay on  
10 track.

11           COMMISSIONER COLGAN: Okay. Thank you.

12           MR. GLAESER: Commissioner, there is one key  
13 point I wanted to add to that as well. A lot of  
14 the power generators operating today do not have  
15 firm pipeline capacity, they don't have firm  
16 transportation. They rely on interruptible or  
17 capacity release. So when the system, the pipeline  
18 systems get tight, the LDC's, us with the primary  
19 firm capacity, will maintain our flows to storage  
20 injections and those generators that try to come on  
21 but on interruptible will get kicked off.

22           That's the big issue about the gas and  
23 electric coordination I assume we will be talking  
24 about in July, how the generators are operating on

1 interstate pipelines.

2 COMMISSIONER COLGAN: Right. All right.

3 Very good. Anymore questions for our panelists?

4 Hearing none, I thank you for this  
5 discussion, and I think it is a topic of keen  
6 interest for everybody. I think it was a topic of  
7 great interest, and then the winter that we had  
8 kind of brought it so firmly into focus that it  
9 became a really big issue for everybody. I think  
10 it is a topic that we need to focus on more towards  
11 the future.

12 I want to thank all of the panelists for  
13 your presentations and the time that you put into  
14 preparing for being here today. We look forward to  
15 your participation on July 9th at the Gas and  
16 Electric Policy Session regarding coordination  
17 between natural gas and electricity.

18 The Commission will be asking the panelists  
19 at that meeting to address questions of what are  
20 the issues of most concern regarding infrastructure  
21 adequacy and reliability, what changes should be  
22 made to current natural gas and electric market  
23 business practices to improve interoperability,  
24 what problems could occur because of the

1 uncertainty surrounding the life cycle of shale  
2 formations and possible shifts in shale gas  
3 production due to environmental or other factors  
4 and what are the lessons that we have learned from  
5 this last winter that, that were the issues that  
6 made things so extreme.

7           So with that, I would like to thank you  
8 again, and this meeting stands adjourned.

9                           (Electric and Gas Policy Session  
10                           adjourned at 12:16 p.m.)

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