

CHICAGO INFRASTRUCTURE TRUST  
BOARD MEETING  
CITY OF CHICAGO

BOARD MEMBERS:

MR. JAMES BELL, Chairman  
(Appeared telephonically)

ALDERMAN JOHN POPE

MS. DIANA FERGUSON

MR. JORGE RAMIREZ

ADVISORY BOARD MEMBERS:

ALDERMAN LATASHA THOMAS

MR. DAMON SILVERS

TREASURER STEPHANIE NEELY

MS. MARY SUE BARRETT

CHIEF EXECUTIVE OFFICER:

MR. STEPHEN BEITLER

DIRECTOR, ENERGY PROGRAM

MS. CLAIRE TRAMM

February 24, 2014  
10:00 o'clock a.m.  
Metropolitan Planning Council  
140 South Dearborn  
Suite 1400  
Chicago, Illinois

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1 ALDERMAN POPE: Good morning, everyone.  
2 It's a little bit after 10:00, 10:06, and we're  
3 going to call the Infrastructure meeting to  
4 order.

5 Present today, we have on the phone  
6 with us James Bell. James, can you hear us?

7 CHAIRMAN BELL: I can hear you fine.

8 ALDERMAN POPE: James is communicating  
9 with us --

10 CHAIRMAN BELL: Can you hear me okay?

11 ALDERMAN POPE: Yes, we can, sir.

12 Present today are Jorge Ramirez,  
13 Diana Ferguson and John Pope. The first agenda  
14 item is the call to order.

15 Moving on to Item No. 2,  
16 organizational matters. The first item there  
17 is the approval of the November 6th and  
18 November 12th, 2013 minutes.

19 Has the Board had a chance to review  
20 the minutes? Any questions?

21 (No response.)

22 Do I have a motion to approve the  
23 minutes?

MS. FERGUSON: Move approval.

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1 MR. RAMIREZ: Second.

2 ALDERMAN POPE: Moved and seconded.

3 All in favor?

4 (A chorus of ayes.)

5 Opposed?

6 (No response.)

7 The ayes have it.

8 Moving onto Item B is the  
9 contracting manual.

10 MR. BEITLER: So for the contracting  
11 manual, basically, as we've mentioned  
12 previously, it's a living document. We will  
13 probably come to the Board most every session  
14 with some improvements.

15 In this particular case, we are  
16 looking to improve how we deal with unsolicited  
17 proposals much more effectively, and in  
18 particular there were some things that were  
19 missing, such as the need to protect proprietary  
20 information that were omitted from the previous  
21 version of the contracting manual. That's  
22 probably the major item in the unsolicited  
23 proposal section.

So we ask that the Board of the

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1 Trust approve the new version of the contracting  
2 manual.

3 MR. RAMIREZ: Motion.

4 MS. FERGUSON: Second.

5 ALDERMAN POPE: Motion made and  
6 seconded. All in favor?

7 (A chorus of ayes.)

8 Opposed?

9 (No response.)

10 The ayes have it.

11 The next item is the resolution for  
12 the audit RFP.

13 MR. BEITLER: So with the assistance  
14 or the direction of our outside accounting firm  
15 and our legal team, we have drafted an audit  
16 RFP, and this is the resolution to proceed with  
17 the audit RFP to select an auditor so that we  
18 can proceed with the annual audit.

19 While there's no requirement, we  
20 will also do an audit of the stub year from the  
21 beginning of the Trust to just dot all the I's  
22 and cross all the T's.

23 ALDERMAN POPE: And, Steve, any idea  
what the timing of that would be?

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1           MR. BEITLER: We will -- If the Board  
2 approves the RFP proposal, we will issue it  
3 immediately, and with a couple of week  
4 turnaround.

5           MS. FERGUSON: How many firms do you  
6 anticipate sending it out to?

7           MR. BEITLER: Well, probably at least a  
8 dozen firms that we anticipate sending it to.  
9 We're trying to send it to firms that are MBE,  
10 WBE, DBE, et cetera.

11          MR. RAMIREZ: Local?

12          MR. BEITLER: I'm sorry?

13          MR. RAMIREZ: Most of them are local?

14          MR. BEITLER: We're not -- I mean,  
15 there could be a national firm that I suppose  
16 gets it, but we're focusing on local firms.

17          TREASURER NEELY: Why wouldn't we just  
18 post it on the website? Why send it out to a  
19 select few?

20          MR. BEITLER: Well, we are posting it  
21 on the website, so that is our main methodology,  
22 but if somebody brings a name to the Trust and  
23 says this is somebody that ought to respond to  
this, we just want to make sure that they see

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1 it.

2 MS. FERGUSON: And is Washington  
3 Pittman & McKeever exempted from participating  
4 or are they going to --

5 MR. BEITLER: They cannot participate  
6 because they're our accountant.

7 MS. FERGUSON: Thank you.

8 MR. RAMIREZ: Is anyone willing to do  
9 it for free, do we know?

10 MR. BEITLER: You know, I think that  
11 there's actually -- I think there's an issue  
12 with asking a firm to do your audit for free  
13 because of the conflict that's associated.  
14 There may be others who have a different view of  
15 that, but my view is it creates a conflict that  
16 we don't want to have.

17 MR. RAMIREZ: Motion.

18 MS. FERGUSON: Second.

19 ALDERMAN POPE: Before we move on that,  
20 make sure that everyone speaks into the  
21 microphone so the court report can properly  
22 document.

23 So there has been a motion and  
seconded. All in favor?

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1 (A chorus of ayes.)

2 Opposed?

3 (No response.)

4 Once again the ayes have it.

5 The final item under the  
6 organizational matters is the budget.

7 MR. BEITLER: We are going to ask  
8 Vivian Funches from Washington Pittman &  
9 McKeever to come to the podium to discuss budget  
10 matters.

11 This is really information only.  
12 There is no budget item to approve today. It's  
13 just sort of where are we at the moment.

14 MS. FUNCHES: Good morning. The first  
15 statement is the statement of financial  
16 position, and this is December the 31st, 2013.  
17 Our total assets which consists of cash of  
18 \$32,335, grants receivable of 57,760 and prepaid  
19 expenses of 1,525 with a total assets of  
20 \$91,620, with current liabilities of 91,620,  
21 and our total liabilities and net assets is  
22 91,620.

23 Unaudited numbers for the statement  
of activities budget versus actual. Our actual

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1 revenue is 503,748 compared to budget of  
2 835,397, which is a favorable budget of 331,649.

3 The annual budget was 1.4 million  
4 and we're forecasting our total income for the  
5 first quarter of 337,869. Total expenses actual  
6 was 503,748 with a balance of zero. No excess  
7 revenue, no expenses over income.

8 So the total budget, expenses were  
9 835,397, and our expenses were under budget by  
10 331,649. Favorable budget. The annual budget  
11 was 1.4, and our forecast expenses are 337,869.

12 Again, these are unaudited numbers  
13 and we expect to have the audit completed by mid  
14 May. Any questions?

15 (No response.)

16 ALDERMAN POPE: Any questions by the  
17 Board or Advisory Members?

18 (No response.)

19 If not, can I have a motion to  
20 approve the budget? It's not even a matter.  
21 I'm sorry.

22 So we'll move onto the next item,  
23 the Retrofit update. Steve?

MR. BEITLER: So before we launch into

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1 the Retrofit update, I want to call your  
2 attention to this slide, and I think that the  
3 main point of this slide is that the Trust has  
4 actually begun to attract projects from outside  
5 investors.

6 I think that the reason, one in  
7 particular, that we're doing that is because of  
8 the unsolicited proposal process. I'm not going  
9 to go through these projects because we'll be  
10 discussing them at length with the individuals  
11 who are working on them, but I think that it's  
12 just very important to note that the initiatives  
13 that we're beginning to see are as a direct  
14 result of creating processes that are beginning  
15 to attract private sector investors, and it's a  
16 nice feeling to begin to have that occur.

17 So with that, the first program that  
18 we'll delve into is Municipal Retrofit. I'll  
19 ask Clair Tramm to come up and discuss that with  
20 us.

21 I do want to make one point before  
22 Claire takes the podium, which is that the only  
23 change from a material standpoint in this  
program since we've been talking about it and

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1 passed the resolutions is that the size of the  
2 program has decreased.

3 Claire will go into that, but as the  
4 size is decreased, it is still within the  
5 constraints of the resolution that the Board  
6 passed.

7 MS. TRAMM: Thanks, Steve.

8 So I think we've seen slide 11  
9 before. It's just an overall profile of the  
10 Retrofit 1 project.

11 I think slide 12 goes into a little  
12 bit more depth on the actual details of the  
13 final transaction. So as you reviewed in  
14 November, selected an efficiency services  
15 agreement and that was approved by City Council  
16 in January.

17 This involves an off credit, off  
18 balance sheet financing for the City by  
19 structuring the agreement in a way where the  
20 Trust is both taking an ESCO guarantee for the  
21 savings as well as letting the City pay per  
22 units of energy saved.

23 The final scope of the deal was 60  
buildings, 18 percent reduction in energy use in

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1 these buildings, 36 wards, 108 jobs and a  
2 savings of \$1.5 million annually to pay for that  
3 1.2 upfront million project cost.

4 We did close it at a 4.95 percent  
5 interest rate. We're finalizing that  
6 transaction right now and expect to have the  
7 actual work begun by the end of March.

8 We were able to do it with a  
9 15-year contract, and so that is one of the  
10 reasons, in addition to the slightly higher  
11 interest rate due to the City's credit rating  
12 downgrade that we did have to shrink the size of  
13 the project.

14 So on Page --

15 TREASURER NEELY: Can I ask a question?

16 MS. TRAMM: Go ahead.

17 TREASURER NEELY: Do you have a  
18 comparable municipal rate for a 15-year bond  
19 which is comparable to the City's rating to  
20 compare this 4.95 percentages rate to?

21 MS. TRAMM: The independent transaction  
22 reviewer noted that this was only 20 basis  
23 points above what the City's bonds were  
currently trading at. I think it was Phoenix

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1 Capital Partners in December wrote that  
2 independent review of the transaction.

3 MR. RAMIREZ: But it's locked. We're  
4 going to get into that. It's locked in the  
5 future, the potential downgrades and we're good  
6 to go.

7 MS. TRAMM: There are no potential  
8 changes for that rate. Obviously we're most  
9 concerned about that.

10 MR. RAMIREZ: Maybe I am moving ahead a  
11 little bit, but the next slide should have been  
12 before this one because I think it does a great  
13 job of syncing up the timeline.

14 MS. TRAMM: So the next two slides  
15 speak to the timeline and we're hoping to have  
16 it completed, again as I said, you know, mid  
17 March.

18 And, you know, 13 I think is a good  
19 overview of how far we've come and really what  
20 all the steps have been in closing our very  
21 first deal for the Trust.

22 If there's no questions on Page 13,  
23 I'll move to Page 14. Go ahead, Damon.

MR. SILVERS: This is Damon Silvers

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1 from the Advisory Board.

2 I just had a question about the  
3 summary of the deal here before we move onto the  
4 extensive timeline.

5 MS. TRAMM: Absolutely.

6 MR. SILVERS: Well, two things. I want  
7 to just commend you all on the basic financing.  
8 It's a very good deal.

9 And, secondly, I had a question.  
10 You know, one hears a lot of different estimates  
11 about what level of energy savings is possible  
12 in retrofits like this, and I wondered if you  
13 can give us any background on the 18 percent  
14 number.

15 MS. TRAMM: So that's a really good  
16 question. In projects like this, it's  
17 completely depending actually on the financing  
18 you can get, so there's a delicate balance  
19 between, you know, the energy economics, the  
20 underlying economics in the building and, you  
21 know, what kind of capital you can get, how long  
22 the capital is for.

23 So we ended up getting 15-year money  
which really is 14-year because you have

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1 construction period and, you know, it's at  
2 almost 5 percent rate. So that is really what  
3 determines how deep we can dig in each building.

4 If we had say 50-year capital, maybe  
5 we could make the things that had 40-year  
6 paybacks but really had another 10 percent  
7 savings work, so really that number is -- it's  
8 completely, you know, a general equilibrium  
9 number with the underlying energy economics  
10 actually.

11 MR. RAMIREZ: I only had one other  
12 followup question. I didn't see it in here, but  
13 I know I've seen it before about the number of  
14 jobs that are created and things like that. I  
15 don't know if you have any --

16 MS. TRAMM: Page 12, we calculated it  
17 will create at least a hundred jobs, 108 was I  
18 believe not, you know, a multiplier about nine  
19 per million spent which is very conservative  
20 frankly, and I actually advocated for a higher  
21 number, but I think we all agree that this was  
22 the minimum number we could all agree on based  
23 on the best research available.

MR. RAMIREZ: Okay. Great.

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1 MS. TRAMM: If there are no further  
2 questions on 12, I think I'll skip 13 because  
3 we've already sort of addressed the timeline and  
4 where we've come and how far we have come  
5 frankly in the last year.

6 14, just to recount, so how did we  
7 get from an announced hundred million dollar  
8 deal down to a 12 or 13 million dollar deal?

9 Before the CIT was involved, the  
10 second bullet is that it was reduced  
11 essentially to 76 million which consisted of 37  
12 million for Department of Water Management's  
13 project which was then put on hold due to the  
14 lien structure.

15 They have a number, six to seven  
16 revenue bonds, that create quite a set of  
17 encumbrances on that property, and so it makes  
18 it difficult for us at this time until some of  
19 those bonds come due in the next year or two for  
20 us to finance it the way we'd like.

21 Secondly, that 76 million consisted  
22 of about 11.4 million of Chicago Public School's  
23 lighting financing which we did not end up  
recommending be financed through an efficiency

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1 service agreement. It got financed I believe  
2 through a lease which did not require the  
3 Trust's involvement, although we did connect  
4 them with that financing and handle that, so  
5 they were very grateful for that.

6 15.3 million of the 27.5 million 2FM  
7 project which we have actually focused on could  
8 not be financed at that interest rate over a  
9 14-year period.

10 So to Damon's point earlier, this is  
11 exactly the kind of general equilibrium that you  
12 have to balance, you know, when you're doing off  
13 credit, off balance sheet financing. You just  
14 can't finance everything you'd love to do. It  
15 has to pay for itself within the term of the  
16 financing that you're offered. So we've ended  
17 up with the 12.2 million project that's in  
18 progress now.

19 Page 15 just shows you the calendar  
20 looking forward. Again we're finalizing the  
21 documents, and I think we've made tremendous  
22 progress in the last month or so since the City  
23 Council approved the deal, and we expect that  
we'll be able to close the transaction the week

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1 of March 10th and actually hit the ground  
2 running March 24th. We're very excited with  
3 that.

4 So Page 16 just shows how the Trust  
5 will play a role and all the other key parties  
6 involved will play a role post transaction  
7 close.

8 So the ESCOs, Schneider Electric,  
9 Ameresco and NORESCO play support and primary  
10 roles. PBC, as you can see, has been contracted  
11 by the Trust to essentially be the project  
12 manager and the construction manager for the  
13 project and was selected also by 2FM to do that.  
14 That's their traditional role.

15 They will play just a role during  
16 the construction period. After that it becomes  
17 a transaction that's entirely done through the  
18 ESCO, 2FM and Trust relationships, which you see  
19 sort of at the bottom of the right column.

20 So are there any further questions  
21 on Retrofit 1 before I move to the next project?  
22 Sue?

23 MS. BARRETT: Quick question. Mary Sue  
Barrett on the Advisory Board.

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1           Quick question about this  
2 relationship you just referred to with the  
3 Public Building Commission. Is that a fairly  
4 typical, as you look forward, delineation of  
5 responsibilities or deployment of the Public  
6 Building Commission?

7           MS. TRAMM: In this case 2FM lacks its  
8 own internal capabilities to oversee  
9 construction projects. They are able, once the  
10 construction is finished, to oversee the ongoing  
11 operations and maintenance, but they don't have  
12 the internal capacity to oversee or manage the  
13 construction.

14           And so when we serve 2FM in the  
15 future, we believe that this will be the  
16 status -- you know, the status quo and expected  
17 way of doing projects with them. That may not  
18 be the case for other sister agencies. We'll  
19 have to take each one as it comes.

20           MS. BARRETT: Thank you.

21           MR. BEITLER: Thanks, Claire.

22           We just wanted you to see what some  
23 of the other potential projects are that will be  
coming up in terms of retrofit, and among those

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1 is street lighting, and Claire will also be  
2 addressing the street lighting project.

3 MS. TRAMM: Thanks.

4 So the first candidate project for  
5 Retrofit 2.0 is the street light upgrade for the  
6 city which we are proposing to issue very  
7 shortly an RFI for, request for information, in  
8 order to get back responses about what's  
9 possible for the market.

10 The reason we're suggesting we go to  
11 an RFI rather than an RFP at this point is  
12 because we've -- if you look at Page 19, there  
13 are a number of really interesting things that  
14 streetlights can be used for as a platform  
15 beyond just the energy savings that can pay for  
16 the capital upgrades themselves.

17 There have been cost effective  
18 energy savings upgrade in D.C., New York, L.A.  
19 and a number of other cities around the world,  
20 however, the platform area is a very innovative  
21 and new thing that we need to -- we don't  
22 necessarily know exactly who will respond and  
23 what they will come back with, and so that's why  
we're taking the time to do an RFP with this

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1 proposal or RFI with this proposal rather than  
2 immediately scoping exactly what we want. We  
3 would like to hear from the community in terms  
4 of what else can be done.

5           So, for instance, if you look at  
6 some of these platform opportunities,  
7 communication, big data, connectivity like Wi-Fi  
8 hot spots, traffic and savings management,  
9 there's things that can tie into our safety and  
10 police system, public safety system, car  
11 charging. So, for instance, we've seen some  
12 ideas around solar and video and things like  
13 that.

14           So we'd like to evaluate all these  
15 with all the relevant stakeholders and we just  
16 had a kick off last week with the City at the  
17 highest levels to discuss that and form a  
18 working group to move that forward.

19           I think Page 20 does a good job of  
20 just reviewing some of the opportunities around  
21 the energy savings side which is what we expect  
22 to drive the majority of the economics around  
23 this, and we'll certainly be keeping our eyes  
and ears open to respond as to the RFI that have

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1 good ideas that are revenue neutral in  
2 particular on the platform side.

3 But I happen to know from talking to  
4 some of the other -- the folks that ran some of  
5 those other LED street light conversions that  
6 they had huge savings, sometimes in the 70  
7 percent range, 80 percent on maintenance, and so  
8 you're typically seeing about 10X of upfront  
9 cost of an LED bulb, but it gets replaced a  
10 third as often and saves you a ton of energy.

11 So the economics are going to be  
12 very, very interesting here, and we look forward  
13 to getting back some responses on this.

14 ALDERMAN POPE: A question or two.

15 First of all, I'm glad we are  
16 pursuing this. This is one of the initial  
17 topics or items we discussed early on in terms  
18 of pursuing because there's a potential for  
19 great return.

20 But clarification, when you talk  
21 about lights, you're not just talking about the  
22 fixtures, you're talking about the pole, the  
23 base, the structure itself?

MS. TRAMM: Indeed, yes. So we're

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1 going to get -- basically try and get the energy  
2 savings and the operations and maintenance  
3 savings to pay for as much of that overall  
4 replacement to the base, the wiring, et cetera,  
5 as we possibly can.

6 MR. BEITLER: I think though before you  
7 ask your next question, if you don't mind, we  
8 have to be very clear in that we're not clear  
9 yet how much work from an infrastructure  
10 standpoint needs to be done on these lights.

11 There are some lights in some areas  
12 where there may be extensive rewiring required,  
13 for example, and so from an ROI standpoint, one  
14 the reasons we're interested in streetlights as  
15 a platform, aside from just the obvious  
16 effectiveness of it, is that some of things that  
17 we can utilize when we consider the streetlights  
18 as a platform might generate revenue which, in  
19 turn, pays for some of the infrastructure  
20 upgrade that simply replacing the light bulbs  
21 themselves would otherwise not sustain.

22 So it's a fairly complex formula in  
23 term of being able -- the answer to your  
question is yes, but in order to do that,

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1 there's a fairly complex set of formulas there.

2 ALDERMAN POPE: On Page 18, the CITs,  
3 you mentioned the BOM, the build operate manage,  
4 can you clarify that or provide more  
5 information, please?

6 MS. TRAMM: Yeah. So the build operate  
7 manage contracting methodology allows us to let  
8 people propose to come back with both the design  
9 and structure of it as well as the operations  
10 and management of say replacing the light  
11 bulbs.

12 So, you know, what we're talking  
13 about is figuring out how to make that work with  
14 the City's already strapped labor resources  
15 because there's a lot of better things we can be  
16 doing with our laborer's time and there's a lot  
17 of savings just on the truck rolling, so paying  
18 for the truck rolling costs as well as the light  
19 bulb replacement.

20 MR. BEITLER: And again the City is  
21 actually already following that routine for  
22 other lighting, and this is just an extension of  
23 how they're treating lighting at the moment.

ALDERMAN POPE: Thank you.

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1 ALDERMAN THOMAS: Are you on Page 21  
2 yet?

3 MS. TRAMM: I can be, yes. Let's look  
4 at the timeline, everyone.

5 ALDERMAN THOMAS: Maybe go through the  
6 timeline before I ask you some questions on  
7 that.

8 MS. TRAMM: Sure. Absolutely.

9 So Page 21 just shows we've done a  
10 lot of pre work on this here today. We're  
11 hoping to issue an RFI by early to mid March, as  
12 soon as we're able to just finish quantifying  
13 the current state of the City and the Chicago  
14 Park District lighting systems so that people  
15 can intelligently respond within the RFI to what  
16 we currently have.

17 And then later, after we've had a  
18 chance to review to over -- at least 30 days,  
19 what we'll do is post it on the website and let  
20 folks respond, you know, as they will, and then  
21 after 30 days we'll close that request for  
22 information, we'll review all -- we'll take  
23 several weeks to review all that in concert with  
the City and the Park District, and then we'll

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1       come up with an RFP based on what we think is  
2       actually going to be -- the economics we'll work  
3       on.

4                       So we're taking a funneling approach  
5       from the RFI to the RFP which hopefully will be  
6       issued in early May.

7                       ALDERMAN THOMAS:   Okay.   Alderman  
8       Latasha Thomas, Advisory Council.

9                       My question is actually on things  
10       that appear to have been done already.   So the  
11       automatic briefing and the briefings you've had  
12       with the Mayor's Office staff was just general  
13       because this was only a thought?

14                      MS. TRAMM:   Right.

15                      ALDERMAN THOMAS:   Now it seems to be  
16       really in progress but the -- just clarify for  
17       me what those briefings were because I don't  
18       remember the in depth that we're having now.

19                      MR. BEITLER:   They were general  
20       briefings.   They were not specific briefings  
21       about this particular project.   This project was  
22       included in those briefings, but there was  
23       nothing in depth about this project in those  
      presentations.

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1 ALDERMAN THOMAS: Before today it was  
2 just an idea? It was like an idea, correct?

3 MR. BEITLER: That's correct. We have  
4 had one significant meeting with the City staff  
5 in terms of -- which actually occurred this past  
6 week in terms of beginning this project, and  
7 there were some actions that we were waiting for  
8 in order to have that meeting.

9 So there was some audits being  
10 conducted of the street lighting itself, and a  
11 great deal of that work is now completed and  
12 able to be parsed to be able to use on an  
13 analytical basis which up to now we didn't have  
14 that information.

15 So this particular schedule is  
16 probably a tad too aggressive in terms of  
17 getting everything done, but nonetheless we are  
18 trying to get an RFI completed and issued in as  
19 aggressive a timeline as possible.

20 TREASURER NEELY: Treasurer Stephanie  
21 Neely, Advisory Council.

22 CHAIRMAN BELL: I think this is missing  
23 a critical point. I don't see this thing coming  
back to the Trust Board for approval once you

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1 have some information around what we've dealing  
2 with.

3 MR. BEITLER: There's nothing to  
4 approve at the moment. We need to gather a  
5 significant amount of information in order to  
6 structure --

7 CHAIRMAN BELL: Well, I understand  
8 that.

9 MR. BEITLER: Okay.

10 CHAIRMAN BELL: But you got a time  
11 schedule here that shows this, and I don't see a  
12 time table on here to bring it back to the Trust  
13 for approval of the deal.

14 MS. TRAMM: I think that April meeting  
15 would be our goal to come back and review the  
16 results of the RFI and then proceed ahead with  
17 the RFI after that board meeting.

18 TREASURER NEELY: Okay. Well --

19 CHAIRMAN BELL: You're going to have to  
20 have our approval before you go back to issue an  
21 RFP, that's my point. Where is that in the time  
22 frame?

23 MR. BEITLER: That would be at the  
Board -- presumably at the Board meeting in

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1 April, that would be the time point if that's  
2 not too aggressive a schedule, which it might  
3 be.

4 CHAIRMAN BELL: Well, I think you need  
5 to put that on the time table.

6 MS. TRAMM: Will do. Thank you.

7 CHAIRMAN BELL: That's a critical step.

8 MR. BEITLER: We'll do that.

9 TREASURER NEELY: And maybe my question  
10 should be asked at the April meeting because I'm  
11 not following the deal exactly. If you're  
12 telling me a million dollars of savings are  
13 going to go to replacing, then I'm trying to  
14 figure out where the economics is in the deal.

15 MR. BEITLER: I agree. I mean, I think  
16 that we should wait. There's no economics.  
17 There's no deal at this point. Generally in  
18 other cities, what we do know from studying the  
19 other cities, and we've studied a number of them  
20 at this point, is that the replacement of  
21 existing light bulbs with LEDs has generated  
22 adequate economics to recommend going forward  
23 with the replacement of the bulbs.

In most other analog situations, the

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1     only thing they've done is to replace the bulbs,  
2     so we don't really have an analog in terms of  
3     what happens if you're using it as a platform or  
4     if you have to do significant infrastructure  
5     work so there's a lot --

6             TREASURER NEELY:  I'll wait -- As the  
7     Chairman said, we'll wait for the April meeting  
8     to get a better sense of the deal.

9             CHAIRMAN BELL:  I just think the key  
10    point is we don't know that we have a deal.  
11    This is well beyond the timeline to find out  
12    what the possibilities are, to package that and  
13    bring it back to the Board and see if, in fact,  
14    there are economics that would support going  
15    forward with a deal.

16            MR. SILVERS:  This is Damon Silvers  
17    from the Advisory Board.

18            In this vein, not making a comment  
19    on what's been doing so far but really just  
20    observing some issue that you all will face as  
21    you move forward with this, it seems to me,  
22    again upon very brief review of this, that the  
23    basic model that you've looked at in other  
   cities appears to be not that -- in certain

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1 respects not that different from say the  
2 retrofit project that we're already moving ahead  
3 on, meaning that you basically swap out some  
4 technology, you have a cost savings associated  
5 with that which can be -- through creative  
6 structuring can be used to finance the swap,  
7 pretty simple, and relatively -- without that  
8 many challenges in terms of thinking about  
9 operations and public/private issues and the  
10 like.

11 I think when you move to what in  
12 many respects looks like a very promising idea  
13 of turning streetlights into something far more  
14 multidimensional that then you're going to be  
15 into a different space in a lot of ways, I think  
16 some of them having to do with issues of  
17 financing and control, and some of them having  
18 to do with, you know, which of these purposes is  
19 the public going to want and where will people  
20 have concerns and the like.

21 I would observe that I think it's  
22 critical as you do that to envision a -- that as  
23 you move ahead in that direction, and I think  
it's a good idea to do so, that you look at how

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1 to ensure that ultimate control here continues  
2 to reside with the public body.

3 That issue is going to come up  
4 here in a much more serious way when you move to  
5 this multifunctional platform than it does in  
6 just a the question of swapping out the light  
7 bulbs.

8 MR. BEITLER: We understand and  
9 actually we're not envisioning that control  
10 would go some place else, but there's an awful  
11 lot of research to do right now to just even be  
12 able to make any kind of recommendations, so  
13 we're just at an information gathering stage.

14 MR. SILVERS: And I want to be clear, I  
15 understand that. You know, I think you all  
16 ought to -- I think it's a very good idea in  
17 general concept and ought to be explored.

18 MS. TRAMM: Thank you.

19 MR. BEITLER: Thanks, Claire.

20 So this takes us to transportation  
21 program initiatives, and the initiative that  
22 we'll be discussing today, and Nick Epstein and  
23 Chris Kane will take us through this portion of  
the presentation is on compressed natural gas.

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1           MR. EPSTEIN: Hello. So we've been  
2 working for the last several months on  
3 developing a plan to help enable the -- to build  
4 out compressed natural gas fueling  
5 infrastructure.

6           The reason why we're interested in  
7 compressed natural gas, I'll skip ahead here,  
8 compressed natural gas is the most price stable,  
9 lowest cost transportation fuel currently  
10 available. It's about 40 percent cheaper than  
11 gasoline on diesel and diesel on a gallon of  
12 gasoline equivalent unit. So for every mile  
13 that you're transporting goods, every mile that  
14 you're transporting people, you're saving  
15 40 percent on the fuel costs.

16           It also has the largest potential of  
17 displacing foreign petroleum use relative to bio  
18 diesel propane as well. And it has, compared to  
19 all other alternative fuel, you see the highest  
20 demand growth for CNG.

21           Despite all these positive trend  
22 lines, the growth of CNG fueling stations where  
23 fleets and the public can go and fuel their  
vehicles has been stagnant for the better part

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1 of 20 years.

2 And just to review, CNG, it's  
3 natural gas that goes through your house and  
4 heats your house, and it goes through a special  
5 compression process which allows it to be  
6 utilized as a transportation fuel for vehicles  
7 that have been equipped with on board  
8 compressors, and hence then you can use it, you  
9 know, as you could any other sort of  
10 transportation fuel.

11 We think that again because it's so  
12 much cheaper, it's a domestically produced fuel,  
13 and there are, we think, strong environmental  
14 benefits in terms of tail pipe pollutant  
15 emissions as well as moderate greenhouse gas  
16 emission reductions compared to gasoline and  
17 diesel.

18 But the large issue here and why,  
19 you know, we think that there's a place in the  
20 Trust to get involved in this field is that  
21 there's what we call a network externality or a  
22 chicken and the egg problem basically.

23 You have CNG fueling providers who  
want to build stations, they want to invest

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1 their money, but they won't take that risk  
2 because there isn't enough fuel demand. There  
3 aren't enough end users who have CNG vehicles or  
4 NGV to purchase the fuel, and you have end  
5 users, companies with large vehicle fleets that  
6 would be interested in pursuing this and getting  
7 the cost savings on the fuel, but they won't  
8 take that risk because there aren't a network of  
9 stations built along their fueling routes.

10 So this program is still very much  
11 under development, but we are identifying all of  
12 the barriers in the City of Chicago to getting  
13 these stations built.

14 We think there are basically three  
15 main components, a real estate component where  
16 we would provide streamline service to help get  
17 these stations built in terms of zoning and  
18 permitting, the current process is very  
19 cumbersome; a stakeholder and outreach service  
20 where we would gather together fueling providers  
21 and potential end users and try to get stations  
22 built along fueling routes for these companies  
23 in exchange for potential fueling contracts; and  
then as well, the most developed component at

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1 this point is a financial model that we've  
2 developed for the City of Chicago fleet where  
3 they could potentially convert a number of their  
4 vehicles to use natural gas as sort of the first  
5 mover in this project. Chris has been working  
6 on the financial model for sometime.

7 TREASURER NEELY: Just a really quick  
8 question. This is Treasurer Stephanie Neely  
9 again.

10 MR. EPSTEIN: Sure.

11 TREASURER NEELY: Is there a forward  
12 contract part of this at all in terms of locking  
13 in natural gas prices versus or is this too  
14 early to even discuss?

15 MR. EPSTEIN: I mean, it's too early to  
16 discuss, but within the CNG world, a fueling  
17 provider and potential end user, you can  
18 structure the contracts that way where you would  
19 get a guaranteed price over a number of years  
20 provided that you're purchasing a certain amount  
21 of CNG fuel, so it's all on the table.

22 MR. SILVERS: As the Treasurer said --  
23 I'm Damon Silvers with the Advisory Board.

TREASURER NEELY: Still.

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1 MR. SILVERS: Still.

2 There's a particular issue here that  
3 you all may be aware of, but I want to make sure  
4 you are which is the question of whether the  
5 trend line of natural gas pricing is going to  
6 remain stable as natural gas prices globalize.

7 There's a very -- I mean, it's  
8 unclear how much this will happen, but there's a  
9 pretty serious effort underway to export from  
10 the United States, and I don't think anybody  
11 really knows where that leads in terms of  
12 pricing, so the kind of contract that the  
13 Treasurer was referring to might be very useful  
14 in this environment.

15 MR. EPSTEIN: Again we've spoken to  
16 some of the largest CNG fueling providers, and  
17 we've discussed this point, you know, would it  
18 be possible to structure contracts where you're  
19 guaranteed, you know, a price years into the  
20 future, and, you know, they're very flexible.  
21 It's a common method that they use for their  
22 current clients with private municipal fleets.

23 TREASURER NEELY: There are clearly  
four contracts out there. The question is

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1 what's the price. There's a cost associated.

2 That has to be part of the economics.

3 MR. EPSTEIN: Right.

4 TREASURER NEELY: It's probably  
5 premature.

6 MR. EPSTEIN: Yes.

7 MR. BEITLER: And, in fact, as we get  
8 into the economic analysis, even though we don't  
9 specifically answer that question, we get a  
10 sense of some of the economics that we've delved  
11 into at this point.

12 MR. KANE: Good morning. In terms of  
13 how I helped Nick with his analysis is  
14 essentially at a number of vehicles that the  
15 City currently operates.

16 Specifically we looked at a number  
17 of vehicles that the City already operates in  
18 which I would call the general purpose fleet,  
19 and then there was actually the police pursuit  
20 cruiser fleet, and we identified just under  
21 4,000 vehicles, and we did our best to run it  
22 through the traps.

23 We feel that by making three changes  
to acquisitions, fueling and a little bit of the

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1 maintenance provisions that the City already  
2 does --

3 TREASURER NEELY: There's no fire  
4 equipment into that analysis at all?

5 MR. BEITLER: Well, as we were doing  
6 the analysis, we tried --

7 TREASURER NEELY: Those are our most  
8 expensive vehicles to run are our fire vehicles,  
9 so I'm just curious as to why either those  
10 weren't or will they be.

11 MR. BEITLER: We're not looking at  
12 heavy vehicles at this point from an analytical  
13 standpoint. The initial issue was we take a  
14 portion of the vehicle fleet that would be easy  
15 and lucrative to convert for the City of Chicago  
16 and that would be the leader for the purpose of  
17 getting a number of natural gas stations  
18 deployed.

19 Each of the heavy vehicle  
20 components, generally there are other issues  
21 that surround the heavy vehicles. Like, for  
22 garbage, which in many, many cities they have  
23 converted to CNG garbage trucks, but how you  
pick up garbage becomes an issue.

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1                   And so there's a whole lot of  
2                   analytical points beyond just the fleet itself  
3                   that become issues in doing the analysis for the  
4                   heavy vehicles.

5                   For the light duty vehicles, you can  
6                   really analyze the vehicle -- light duty fleet  
7                   itself, and there's not a whole lot of ancillary  
8                   issue which was why we eventually settled on  
9                   light duty vehicles.

10                  ALDERMAN POPE: Steve, is this proposal  
11                  limited to City proper vehicles or are we  
12                  talking about the sister agencies like the Park  
13                  District, CTA, Board of Ed all of whom have a  
14                  fair amount of vehicles?

15                  MR. BEITLER: In theory everyone should  
16                  avail themselves of it. What we were looking at  
17                  was a specific component of the fleet, in this  
18                  case City of Chicago proper, for the purpose of  
19                  making a conversion which would cause a  
20                  significant number of stations to be built.

21                  Once those stations are built, then  
22                  we would do further outreach to the City and  
23                  sister agencies. Additionally, there are a  
                    significant number of major corporations in the

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1 City who already use CNG vehicles in other  
2 cities so we would, at an initial point, do  
3 outreach to those particular corporations so  
4 that they would consider converting their  
5 vehicles that currently are in the City of  
6 Chicago to CNG so that they would begin using  
7 the stations so that from the chicken and egg  
8 standpoint, as more and more vehicles convert,  
9 we get more and more stations, and as we get  
10 more and more stations, then we can start to  
11 look at the heavier vehicles, for example, and  
12 get those converted.

13 ALDERMAN POPE: And do you foresee this  
14 maybe extending to being available to the  
15 general public as well?

16 MR. BEITLER: I do.

17 MR. EPSTEIN: Yes.

18 MR. BEITLER: So the way the stations  
19 work, they are not open only to a company or a  
20 city or unit of government. In fact, there are  
21 several CNG light duty vehicles that are  
22 available to the general public today and there  
23 are more that are coming out.

General Motors and Ford are all

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1 introducing CNG vehicles at the moment. The  
2 best selling pickup truck in the United States  
3 which is the F150 is available as a CNG vehicle.  
4 So any small business in the City that uses a  
5 pickup truck could avail themselves.

6 MS. FERGUSON: So are the fueling  
7 stations retrofitted of existing gas stations or  
8 are these greenfield newly built facilities?

9 MR. BEITLER: Well, they could be  
10 retrofitted. We have identified about a hundred  
11 pieces of land that the City owns that were  
12 preexisting gas stations that could be  
13 retrofitted for CNG purposes.

14 However, the way the CNG industry  
15 works, in addition to dedicated stations, they  
16 often just put in a pump at an existing station.

17 MS. FERGUSON: Well, that's what I was  
18 going to ask. Can it be coresident with an  
19 existing traditional gas station? Can you just  
20 add a pump. So the answer to that is yes?

21 MR. BEITLER: The answer is yes and  
22 that's frequently how you find it. The CNG  
23 companies themselves like to build stations  
because they want to be able to accommodate

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1 heavy trucks, and as we all know from pulling  
2 into a gas station, most of the gas stations we  
3 fill up at, there's no way that a heavy truck  
4 could be accommodated at one of those, so they'd  
5 have to build them specially for the purpose of  
6 accommodating the heavy trucks and would do so  
7 here in the City as well.

8 MR. RAMIREZ: I just have a question.  
9 This is Jorge Ramirez. Would we be able to take  
10 advantage -- I'm interested in seeing what scale  
11 you could take this to.

12 We have a partnership agreement with  
13 Cook County, City/County partnership. Would the  
14 County be able to avail itself of this as well  
15 for their light duty vehicles as well as the  
16 State even if they could?

17 MR. BEITLER: We would hope so. At  
18 this point, however, we are doing an analytical  
19 exercise. It is our expectation that we will  
20 receive some unsolicited proposals for this  
21 particular proposal that we've been working on,  
22 and when we receive those unsolicited proposals,  
23 then we will analyze them in relation to the  
program that we're establishing, and we believe

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1 that there is very, very wide applicability for  
2 this particular program.

3 We are limited in terms of, you  
4 know, taking a very narrow approach at the  
5 moment, looking at the 4,000 or so light duty  
6 vehicles because there is a payback for the City  
7 of Chicago for converting those light duty  
8 vehicles.

9 So the important thing for us as the  
10 Trust is to work with the City to realize the  
11 payback for the light duty vehicles to get this  
12 program on its way, give birth to it, if you  
13 will, and then having given birth to it, there  
14 are many, many things that can occur.

15 There's one not-for-profit company,  
16 for example, that does nothing but help  
17 corporations try to convert their fleets. So  
18 there are plenty of folks out there that will  
19 piggyback on this to help make it grow.

20 MR. SILVERS: This is Damon Silvers. I  
21 just --

22 CHAIRMAN BELL: This is James Bell.  
23 And for the interest of time to the Board and  
the Advisory Board, this is something that is an

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1 interesting project that's on the drawing board  
2 that has a lot of potential if we can make the  
3 economics work.

4 One major issue we'll have to work  
5 with is, you know, the demand versus the  
6 capacity that exists today, and that's something  
7 that we have yet to work through, and we have to  
8 do that.

9 But this is sort of for your  
10 information to let you know the things that we  
11 think has application to help the City, and  
12 that's something that we think will fit within  
13 the Trust structure.

14 There's a lot of work yet to be  
15 done. I know that some of the comments have  
16 been excellent things that we want to consider,  
17 and I do think what we do have gets the right  
18 core. There's still a lot of work to be done on  
19 this project.

20 MR. SILVERS: This is Damon Silvers.

21 I would just observe about this  
22 that again unlike, for example, the school  
23 retrofit -- I think some of the comments have  
been made go around this point, that this has

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1 revenue growth potential. You build this and  
2 there's a lot of upside potentially. So it  
3 calls for a different type of financing.

4 MR. BEITLER: We agree. Alderman?

5 ALDERMAN THOMAS: He nailed it for me.

6 MR. BEITLER: Okay.

7 ALDERMAN THOMAS: He nailed my  
8 question.

9 MR. KANE: I guess the only thing I  
10 would conclude with, if there aren't anymore  
11 questions, what we're proposing, what we've  
12 looked at right now is certainly not the scale  
13 that maybe it could be, but we tried to just  
14 limit it to what we know and right now, as we  
15 see it, the perspective is that it's very  
16 possible.

17 MR. BEITLER: Thanks.

18 So at this point we will ask for  
19 public comment, Mr. Chairman, and that will  
20 enable us to go into executive session and not  
21 have to --

22 ALDERMAN POPE: Is there any public  
23 comments at this time?

(No response.)

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1                   No one has responded. At this  
2 time then we'll move forward to executive  
3 session.

4                   MR. BEITLER: Basically we'll stop for  
5 a moment. We would ask the public if you could  
6 please excuse us as we go into executive  
7 session.

8                                 (The executive session  
9                                 proceedings were transcribed  
10                                under separate cover.)

11                   ALDERMAN POPE: We are now back in the  
12 open meeting. Steve has joined us too.

13                   CHAIRMAN BELL: Any other comments or  
14 thoughts for the open meeting?

15                   ALDERMAN POPE: No one in the public is  
16 out there. They are all gone?

17                   MR. BEITLER: Yes.

18                   ALDERMAN POPE: Nothing. Hearing none,  
19 do I have a motion to adjourn?

20                   MR. RAMIREZ: So moved.

21                   MS. FERGUSON: Second.

22                   ALDERMAN POPE: All in favor?

23                                 (A chorus of ayes.)

                  Opposed?

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1 (No response.)

2 The ayes have it. The meeting is  
3 adjourned.

4 (Which were all the proceedings  
5 had in the above-entitled  
6 cause.)

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1 STATE OF ILLINOIS )  
 ) SS:  
2 COUNTY OF COOK )  
3

4 I, MARI BETH KAWULIA, a Certified  
5 Shorthand Reporter of the State of Illinois, do  
6 hereby certify that I reported in shorthand the  
7 proceedings had at the meeting aforesaid, and  
8 that the foregoing is a true, complete and  
9 correct transcript of the proceedings of said  
10 meeting as appears from my stenographic notes so  
11 taken and transcribed under my personal  
12 direction.

13 IN WITNESS WHEREOF, I do hereunto set my  
14 hand at Chicago, Illinois, this 7th day of  
15 March, 2014.

16  
17  
18 \_\_\_\_\_  
MARI BETH KAWULIA  
19 C.S.R. No. 084-2873  
20  
21  
22  
23

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