

From: [Troy Moon](#)
To: [Jennings, Jon](#)
Subject: LED Street Lights
Date: Thursday, February 18, 2016 8:16:02 AM
Attachments: [LED-Street-Light-Energy-Efficiency-Case-Study-Final-9-3-11-.docx](#)

Jon,

I thought you might be interested in this document describing the LED street light conversion project in Asheville, NC. They had great success and saved over \$600,000 in electrical costs. Their ROI was about 5 years. Interesting that they created a Green CIP program around the project.

Also, I asked Sonia to set up a time for us to meet and discuss ideas for sustainability moving forward.

Troy

Troy Moon
Environmental Programs Manager
City of Portland, ME
207-874-8467 (office)
207-874-8816 (fax)

From: [Michael Forcillo](#)
To: jgrondin@gapps.portlandmaine.gov
Date: Wednesday, February 10, 2016 12:22:59 PM
Attachments: [Redzone Business Services.docx](#)
[Redzone Camden Wifi .docx](#)

I wanted to share the following current Redzone news with you directly.

Media Advisory - Important Maine Broadband News & Business Developments
(2 Press Releases Attached)

Topics

Municipal Broadband Projects

Fiber Alternative High Speed Broadband for Business

**Video News Media Package Available on Request*

Best Regards,

Michael



Michael L. Forcillo / Vice President
mforcillo@redzonewireless.com

Redzone Wireless, LLC.

[207-593-7276](tel:207-593-7276)

41 Mechanic St, Suite 219

Camden, ME 04843

<http://www.redzonewireless.com>



From: [Troy Moon](#)
To: [Jeff Levine](#)
Cc: [Jeremiah Bartlett](#); [Brendan T O'Connell](#)
Subject: Re: GPCOG LED Streetlights conversion study
Date: Thursday, March 24, 2016 2:18:17 PM
Attachments: [LED-Street-Light-Energy-Efficiency-Case-Study-Final-9-3-11-.docx](#)

Looking at the entry I see it is for \$100,000 in FY17 and another \$450,000 in FY18. I am curious what went into these numbers. At first glance it doesn't sound like enough money. (One option for funding the project would be an energy savings performance contract that would not hit the CIP)

I've talked to a variety of people in the government and private sectors who are very enthusiastic about street light conversions and see a lot of opportunity, which makes me question Ian's analysis. However, it is good to have a thoughtful approach and consider what down sides there might be. I've attached a case study from Asheville, NC who had a very successful conversion project. Locally, East Brown Cow Property Management has changed all of their outdoor lighting to LED and is very happy with the results. The Midcoast Regional Redevelopment Authority switched 650 lights over to LED and is saving almost 80% on lighting costs.

The next step in our case would be to begin to understand the scale of our project -- how many lights and of what variety do we have? Which ones do we own / which do we lease from CMP. Maybe you guys have that already, Jeremiah.

Troy

On Thu, Mar 24, 2016 at 1:10 PM, Jeff Levine <jlevine@portlandmaine.gov> wrote:
Brendan- I assume you have seen this?

<https://me-portland.civicplus.com/AgendaCenter/ViewFile/Item/2213?fileID=8516>

Jeff Levine, AICP
Director
Planning & Urban Development Department
389 Congress Street 4th Floor
Portland, Maine 04101
Phone [\(207\)874-8720](tel:(207)874-8720)
Fax [\(207\)756-8258](tel:(207)756-8258)
<http://www.portlandmaine.gov/planning>
jeff.levine@portlandmaine.gov
@portlandplan

On Thu, Mar 24, 2016 at 1:03 PM, Troy Moon <thm@portlandmaine.gov> wrote:
There is no GPCOG study regarding street lights.

On Thu, Mar 24, 2016 at 7:28 AM, Jeremiah Bartlett <jbartlett@portlandmaine.gov> wrote:

Hi Brendan - I don't have it, and would really like a copy myself. I've copied Troy

Moon to see if he can provide a lead.

Thanks,
Jeremiah

Jeremiah J. Bartlett, PE, PTOE
Transportation Systems Engineer
Department of Public Works
City of Portland, Maine
jbartlett@portlandmaine.gov

On Wed, Mar 23, 2016 at 5:37 PM, Brendan T O'Connell

<boconnell@portlandmaine.gov> wrote:

Do either of you have a copy of this study or might be able to point me in the right direction of who may have it?

Brendan T O'Connell
Finance Director
City of Portland
P: [\(207\) 874 8642](tel:(207)8748642)
F: [\(207\) 874 8652](tel:(207)8748652)

--

Troy Moon
Sustainability Coordinator
City of Portland, ME
[207-756-8362](tel:207-756-8362)

--

Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Yevgeniy Lapin](#)
To: [Troy Moon](#)
Subject: Artitled on LED lights and a bit about Kansas smart city kiosks
Date: Monday, August 8, 2016 10:36:33 AM
Attachments: [Smart city.docx](#)

Here is the document:

--

Yevgeniy Lapin
Arkhangelsk, Russian Federation

From: [Troy Moon](#)
To: [Jennifer Puser Brennan](#)
Subject: RE: Energy and Sustainability Committee 9/21/2016
Date: Monday, September 26, 2016 2:00:26 PM

The Energy and Sustainability Committee passed the benchmarking ordinance and they gave us the green light for our Street Light RFP. I need to reschedule our meeting next Tuesday because I need to join Councilor Hinck at a meeting with some property owners.

Troy

On Sep 26, 2016 12:31 PM, "Jennifer Puser Brennan" <jpuser@gpcog.org> wrote:

So, what happened at the Council meeting while I was gone?

From: Troy Moon [mailto:thm@portlandmaine.gov]
Sent: Friday, September 16, 2016 4:49 PM
Subject: Energy and Sustainability Committee 9/21/2016

Please find the agenda for the Energy and Sustainability Committee meeting to be held on September 21. Please note that the meeting will begin at 6 PM this month. The full package is available on the committee web page at: <http://www.portlandmaine.gov/586/Energy-Sustainability-Committee>

Have a great weekend.

--

Troy Moon

Sustainability Coordinator
City of Portland, ME

[207-756-8362](tel:207-756-8362)

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From: [Jennifer Puser Brennan](#)
To: [Troy Moon](#)
Subject: RE: Energy and Sustainability Committee 9/21/2016
Date: Monday, September 26, 2016 2:54:47 PM

Good luck! Will the full council take it up next?

Sent from my Verizon 4G LTE Droid

On Sep 26, 2016 2:00 PM, Troy Moon <thm@portlandmaine.gov> wrote:

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From: [Troy Moon](#)
To: [Jennifer Puser Brennan](#)
Subject: Re: Energy and Sustainability Committee 9/21/2016
Date: Monday, September 26, 2016 5:20:31 PM

Yes, first read on Oct. 5, public hearing and vote on the 17th.

On Mon, Sep 26, 2016 at 2:54 PM, Jennifer Puser Brennan <jpuser@gpcog.org> wrote:
Good luck! Will the full council take it up next?

Sent from my Verizon 4G LTE Droid

On Sep 26, 2016 2:00 PM, Troy Moon <thm@portlandmaine.gov> wrote:

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Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Troy Moon](#)
To: [Fitzgerald, Matt](#)
Subject: Street Light RFP
Date: Wednesday, October 5, 2016 8:11:30 AM
Attachments: [RFP xx17 Street Lighting \(draft checklisted 08.29.16\).docx](#)

Here is the street light RFP. Let's touch base on this, CPRC and Waste Zero today.

--

Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Troy Moon](#)
To: [Nathan Poore](#)
Subject: street light project - budget question
Date: Wednesday, October 5, 2016 5:47:49 PM

Nathan,

Quick question - how are you guys funding payment to Realterm Energy? Are you funding them in a distinct budget line or through an energy savings performance contract?

Troy

--

Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Nathan Poore](#)
To: [Troy Moon](#)
Subject: Re: street light project - budget question
Date: Wednesday, October 5, 2016 6:29:53 PM

I am planning a distinct budget line item.

Nathan

On Oct 5, 2016, at 5:46 PM, Troy Moon <thm@portlandmaine.gov<<mailto:thm@portlandmaine.gov>>> wrote:

Nathan,

Quick question - how are you guys funding payment to Realterm Energy? Are you funding them in a distinct budget line or through an energy savings performance contract?

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From: [Troy Moon](#)
To: [Nathan Poore](#)
Subject: Re: street light project - budget question
Date: Thursday, October 6, 2016 9:29:06 AM

Thanks -

We're launching our RFP this weekend. Can you send me the names addresses of your respondents? Realterm and TEN have reached out to me already so I have their info.

Troy

On Wed, Oct 5, 2016 at 6:28 PM, Nathan Poore <npoore@falmouthme.org> wrote:

I am planning a distinct budget line item.

Nathan

On Oct 5, 2016, at 5:46 PM, Troy Moon <thm@portlandmaine.gov<mailto:thm@portlandmaine.gov>> wrote:

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Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Nathan Poore](#)
To: [Troy Moon](#)
Subject: Re: street light project - budget question
Date: Thursday, October 6, 2016 11:23:47 AM

Hi Troy,

They are on our web site. The web page address for everything about our project including contact info for consultants will be available. The launch and link will be at the end of our presentation. Let me know if you can't make it and I will send you the presentation with the link.

Nathan

On Oct 6, 2016, at 9:28 AM, Troy Moon <thm@portlandmaine.gov<<mailto:thm@portlandmaine.gov>>> wrote:

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[Nathan,](#)

[Quick question - how are you guys funding payment to Realterm Energy? Are you funding them in a distinct budget line or through an energy savings performance contract?](#)

[Troy](#)

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[Troy Moon](#)
[Sustainability Coordinator](#)
[City of Portland, ME](#)
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From: [Troy Moon](#)
To: [Nathan Poore](#)
Subject: Re: street light project - budget question
Date: Thursday, October 6, 2016 12:28:45 PM

Thanks again - you have done a great service for Maine towns with your leadership on this issue!

On Thu, Oct 6, 2016 at 11:22 AM, Nathan Poore <npoore@falmouthme.org> wrote:

Hi Troy,

They are on our web site. The web page address for everything about our project including contact info for consultants will be available. The launch and link will be at the end of our presentation. Let me know if you can't make it and I will send you the presentation with the link.

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Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Nathan Poore](#)
To: "[Troy Moon](#)"
Subject: RE: street light project - budget question
Date: Friday, October 7, 2016 8:14:42 AM

Hi Troy,

This is the link to all the information we have that can be of assistance re street light conversion. There are links to the four vendors that submitted proposals to our four community collaboration.

<http://www.falmouthme.org/finance/streetlight-conversion-process>

Good luck!

Nathan

From: Troy Moon [mailto:thm@portlandmaine.gov]
Sent: Thursday, October 06, 2016 12:29 PM
To: Nathan Poore
Subject: Re: street light project - budget question

Thanks again - you have done a great service for Maine towns with your leadership on this issue!

On Thu, Oct 6, 2016 at 11:22 AM, Nathan Poore <npoore@falmouthme.org> wrote:
Hi Troy,

They are on our web site. The web page address for everything about our project including contact info for consultants will be available. The launch and link will be at the end of our presentation. Let me know if you can't make it and I will send you the presentation with the link.

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<thm@portlandmaine.gov<mailto:thm@portlandmaine.gov>> wrote:

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From: [Rasmussen, Susanne](#)
To: [Troy Moon](#)
Cc: [Lenkauskas, Steve](#)
Subject: RE: streetlight contact
Date: Wednesday, October 26, 2016 1:30:07 PM

Hi Troy,

Please meet Steve Lenkauskas, City Electrician and LED street light expert in Cambridge (cc'd).

Steve – please meet Troy Moon, Sustainability Director in Portland, ME. Portland is ready to move on a LED street light project and I told him that you had great experience, not only in getting the work done but also saving astounding amounts of energy.

Hope you guys get a chance to talk ☺

From: Troy Moon [mailto:thm@portlandmaine.gov]
Sent: Tuesday, October 25, 2016 3:17 PM
To: Rasmussen, Susanne <srasmussen@cambridgema.gov>
Subject: streetlight contact

Hi Susanne,

It was great to see you in Toronto! You mentioned that you could put me in touch with the gentleman who is in charge of your streetlights in Cambridge. I would love to chat with him to learn more about how the LED program has worked for you guys.

Thanks,

Troy

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From: [Troy Moon](#)
To: [Rasmussen, Susanne](#)
Cc: [Lenkauskas, Steve](#)
Subject: Re: streetlight contact
Date: Wednesday, October 26, 2016 1:54:59 PM

Thanks, Susanne.

Steve, I would love to chat with you. I have some time Friday afternoon or Monday afternoon. Let me know if you have any time then for a call.

Troy

On Wed, Oct 26, 2016 at 1:30 PM, Rasmussen, Susanne <srasmussen@cambridgema.gov> wrote:

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Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Lenkauskas, Steve](#)
To: [Troy Moon](#); [Rasmussen, Susanne](#)
Subject: RE: streetlight contact
Date: Wednesday, October 26, 2016 2:05:53 PM

Troy,

Monday afternoon works best, my direct line is 617-349-4949. I look forward to talking with you.

Steve

From: Troy Moon [mailto:thm@portlandmaine.gov]
Sent: Wednesday, October 26, 2016 1:55 PM
To: Rasmussen, Susanne <srasmussen@cambridgema.gov>
Cc: Lenkauskas, Steve <slenkauskas@CambridgeMA.GOV>
Subject: Re: streetlight contact

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To: [Lenkauskas, Steve](#)
Subject: Re: streetlight contact
Date: Wednesday, October 26, 2016 4:01:07 PM

Sounds good. I'll give you a call around 2 on Monday afternoon.

Troy

On Wed, Oct 26, 2016 at 2:05 PM, Lenkauskas, Steve <slenkauskas@cambridgema.gov> wrote:

Troy,

Monday afternoon works best, my direct line is [617-349-4949](tel:617-349-4949). I look forward to talking with you.

Steve

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Troy

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Troy Moon

Sustainability Coordinator
City of Portland, ME

[207-756-8362](tel:207-756-8362)

Notice: Under Maine law, documents - including e-mails - in the possession of public officials or city employees about government business may be classified as public records. There are very few exceptions. As a result, please be advised that what is written in an e-mail could be released to the

| public and/or the media if requested.

--

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--

Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Jim Schriver](#)
To: [Troy Moon](#)
Cc: [patrick.regan](#); [Greg Brown](#); [joe.statler](#); [mike.schneider](#); [rob.campbell](#)
Subject: Street Light development minutes
Date: Thursday, April 20, 2017 1:45:07 PM
Attachments: [D2 Meeting Minutes.City of Portland.2017-04-13.pdf](#)

Hi Troy –

Here are the minutes from our meeting last Thursday. We've tried to clearly show the action items for everyone involved. If you have any questions or if you recall a topic which we've omitted, please let me know.

Our next meeting is tentatively scheduled for 2pm Thursday April 27th – I'll touch base with you when you're back in the office on Monday to confirm the details. I'll also give you an update on our anticipated discussion with CMP regarding the buyback.

Looking forward to seeing you next week! Talk with you soon –

Regards,
Jim

Jim Schriver
TEN Connected Solutions
1501 Reedsdale Street, Suite 401
Pittsburgh, PA 15233
Cell: 412-992-1397
jim.schrive@tenconnected.com
<https://www.tenconnected.com/>

From: [Jim Schriver](#)
To: [Christopher Branch](#)
Subject: RE: thanks
Date: Wednesday, May 3, 2017 11:56:02 AM
Attachments: [D2 Meeting Minutes.City of Portland.2017-04-13.pdf](#)

Chris –

As I was going through my notes of last week's meeting, I jotted down a note to myself to send you an electronic copy of the meeting minutes from our April 13 meeting with Troy...

Here are those notes – let me know if you have any questions –

Thanks,
Jim
412-992-1397

From: Jim Schriver
Sent: May 1, 2017 9:04 AM
To: Christopher Branch <cbranch@portlandmaine.gov>
Subject: thanks

Chris – it was great meeting you last week – thanks for your time in our meeting on Thursday.

Greg and I (and the rest of the TEN Connected team) are excited to be working with the City of Portland, and look forward to a successful completion of your lighting efficiency/Smart City project.

I appreciated the many insights you shared with us – there are a lot of moving parts with a project like this, and its really helpful to get the inside scoop as much as possible.

I also greatly appreciated your willingness to share your contacts up at Lewiston. I'll be reaching out to David Jones in the next few business days to see how Lewiston has fared with owning their own street lights for quite a while. It will be good to get his perspective on how that process has gone for them.

From several comments you and Troy made, it looks like we'll be tapping into Kevin and Jeremiah's knowledge in the next few weeks... if you'd prefer to let them communicate directly with Greg and me, just let me know. Otherwise, we'd be happy to work through you for any requests... whatever makes sense for you.

Thanks again for your time... we'll be talking soon –

Regards,
Jim

Jim Schriver
TEN Connected Solutions
1501 Reedsdale Street, Suite 401
Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
<https://www.tenconnected.com/>

From: [Jim Schriver](#)
To: [Troy Moon \(thm@portlandmaine.gov\)](mailto:thm@portlandmaine.gov)
Cc: [Greg Brown](#); [rob.campbell](#); [mike.schneider](#); [joe.statler](#)
Subject: minutes - Portland 4-27-17 meeting
Date: Thursday, May 4, 2017 5:07:42 PM
Attachments: [D3 Meeting Minutes.City of Portland.2017-04-27.pdf](#)

Troy -

Sorry it took several days to compile and edit, but here are the meeting minutes from our meeting last Thursday 4-27. The format is the same as before, with the latest information highlighted to provide for easy reading. The various action items are called out in the right-hand columns with some estimated dates for completion.

If you think we've omitted any topics, please let us know. If you are comfortable with the content as-is, I can send to Chris, John, and Brendan, unless you'd prefer to forward it yourself.

Thanks - talk with you soon -

Jim

Jim Schriver
TEN Connected Solutions
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Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
<https://www.tenconnected.com/>

From: [Christopher Branch](#)
To: [Bartlett, Jeremiah](#); [Kevin Thomas](#)
Subject: Fwd: Introduction to RapidFlow - traffic analysis technology
Date: Monday, May 15, 2017 3:21:59 PM
Attachments: [invite.ics](#)

Confirmation on the TEN meeting on the RapidFlow technology related to the Street Light Replacement.

----- Forwarded message -----

From: **Jim Schriver** <jim.schrivier@tenconnected.com>
Date: Fri, May 12, 2017 at 1:20 PM
Subject: Introduction to RapidFlow - traffic analysis technology
To: "Troy Moon (thm@portlandmaine.gov)" <thm@portlandmaine.gov>, "Christopher Branch (cbranch@portlandmaine.gov)" <cbranch@portlandmaine.gov>, "Greg Barlow (gjb@rapidflowtech.com)" <gjb@rapidflowtech.com>, "rob.campbell" <rob.campbell@tensaves.com>

Troy and Chris -

Below is the web-link and dial-in number for the call with Greg Barlow from RapidFlow... the CMU spin-off

The goal of the meeting is to:

- * Provide brief introduction to RapidFlow and what they do
- * Provide an overview of the technology (Phaenon) they are proposing to pilot in Portland
 - * Describe its general purpose, what benefits it provides
 - * Outline how it works (at a high level)
 - * Discuss specifics of mounting, installation
- * Confirm scope and duration of pilot, and define responsibilities for elements of cost or operation
- * Answer any questions from the Portland team (general or specific)

Looking forward to the conversation -

Jim

[https://storage.googleapis.com/switch_static/UC/common/UberConference_by_Dialpad.png]

Greg Barlow has invited you to a conference call:

Rapid Flow / City of Portland
May 30, 2017 at 1:00PM (EDT - America/New_York)

Ways to Join

Go to: <https://www.uberconference.com/rapidflowtech> or just call [716-293-6768](tel:716-293-6768) and use PIN 23500.

Invited Participants

jim.schrivier@tenconnected.com<mailto:jim.schrivier@tenconnected.com>, Greg Barlow

Add to my calendar:

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[LinkedIn]<<https://www.uberconference.com/social/linkedin>>

[Google+]<<https://www.uberconference.com/social/google-plus>>

UberConference by Dialpad

100 California Street

San Francisco, CA 94111 <https://www.uberconference.com/?utm_source=db_n&utm_medium=email&utm_term=trial-email-2&utm_campaign=dp-us-in-trial&utm_content=dp-footer-link>

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contact Greg Barlow, the organizer.

--

Christopher C. Branch, P.E.

Director

Portland Public Works

55 Portland Street

Portland, Maine 04101

(207) 874-8801

cbranch@portlandmaine.gov

From: [Jeremiah Bartlett](#)
To: [Christopher Branch](#)
Cc: [Kevin Thomas](#)
Subject: Re: Introduction to RapidFlow - traffic analysis technology
Date: Monday, May 15, 2017 3:25:03 PM

I can be there until 1:30, 1:45 or so. Development Review starts at 1:30, but I will let them know I will be running late.

Jeremiah J. Bartlett, PE, PTOE
Transportation Systems Engineer
Department of Public Works
City of Portland, Maine
jbartlett@portlandmaine.gov

On Mon, May 15, 2017 at 3:21 PM, Christopher Branch <cbranch@portlandmaine.gov> wrote:

Confirmation on the TEN meeting on the RapidFlow technology related to the Street Light Replacement.

----- Forwarded message -----

From: **Jim Schriver** <jim.schrivier@tenconnected.com>

Date: Fri, May 12, 2017 at 1:20 PM

Subject: Introduction to RapidFlow - traffic analysis technology

To: "Troy Moon (thm@portlandmaine.gov)" <thm@portlandmaine.gov>, "Christopher Branch (cbranch@portlandmaine.gov)" <cbranch@portlandmaine.gov>, "Greg Barlow (gjb@rapidflowtech.com)" <gjb@rapidflowtech.com>, "rob.campbell" <rob.campbell@tensaves.com>

Troy and Chris -

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 - * Outline how it works (at a high level)
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- * Confirm scope and duration of pilot, and define responsibilities for elements of cost or operation
 - * Answer any questions from the Portland team (general or specific)

Looking forward to the conversation -

Jim

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Rapid Flow / City of Portland
May 30, 2017 at 1:00PM (EDT - America/New_York)

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Go to: <https://www.uberconference.com/rapidflowtech> or just call [716-293-6768](tel:716-293-6768) and use PIN 23500.

Invited Participants

jim.schrivier@tenconnected.com<mailto:jim.schrivier@tenconnected.com>, Greg Barlow

Add to my calendar:

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Christopher C. Branch, P.E.

Director

Portland Public Works

55 Portland Street
Portland, Maine 04101
[\(207\) 874-8801](tel:(207)874-8801)
cbranch@portlandmaine.gov

From: [Jim Schriver](#)
To: [Troy Moon \(thm@portlandmaine.gov\)](mailto:thm@portlandmaine.gov)
Subject: touch base - street light project
Start: Thursday, May 18, 2017 11:00:00 AM
End: Thursday, May 18, 2017 11:30:00 AM
Location: i'll call you

Troy - thanks; just a handful of items to cover:

- * Follow-up from CMP meeting
- * Sample lights; you should have received gear from 2 manufacturers; other two coming late May and early June
- * Discussion on Decoratives: I can try to prepare a benefit/cost summary for Retrofit versus New Fixtures
- * Interactive Kiosks: discuss Portland's interest
- * WiFi: any prelim prep discussions for Wifi via Redzone
- * Cameras - possible inclusion of surveillance cameras via Redzone proposal

Talk with you in the morning -

Jim

From: [Jim Schriver](#)
To: [Troy Moon \(thm@portlandmaine.gov\)](mailto:thm@portlandmaine.gov)
Subject: wifi update - Redzone
Date: Tuesday, May 23, 2017 3:52:13 PM

Troy -

I spoke with Redzone wireless yesterday. I discussed both the Portland street light project (with wifi components) and the existing Redzone service which has experienced some problems recently...

I can fill you in with more details during our call tomorrow, but I wanted to see if you would be available for a prep call with them next Thurs June 1st at 10am. The primary goal would be to prep for the June 13th meeting with you and others on the Portland team, but I also asked them to address the concerns regarding the ongoing Redzone service.

Does next Thurs at 10am work for you? Should take 30-45 minutes...

Please let me know - thanks

Jim

Jim Schriver
TEN Connected Solutions
1501 Reedsdale Street, Suite 401
Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
<https://www.tenconnected.com/>

From: [Troy Moon](#)
To: [Jim Schriver](#)
Subject: Re: wifi update - Redzone
Date: Tuesday, May 23, 2017 3:56:04 PM

June 1 at 10 is good for me.

Troy

On Tue, May 23, 2017 at 3:52 PM, Jim Schriver <jim.schriv@tenconnected.com> wrote:

Troy -

I spoke with Redzone wireless yesterday. I discussed both the Portland street light project (with wifi components) and the existing Redzone service which has experienced some problems recently...

I can fill you in with more details during our call tomorrow, but I wanted to see if you would be available for a prep call with them next Thurs June 1st at 10am. The primary goal would be to prep for the June 13th meeting with you and others on the Portland team, but I also asked them to address the concerns regarding the ongoing Redzone service.

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<https://www.tenconnected.com/>

--

Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Jim Schriver](#)
To: [Troy Moon \(thm@portlandmaine.gov\)](mailto:troy@portlandmaine.gov)
Subject: misc items
Date: Monday, June 19, 2017 10:42:36 AM

Troy -

Good morning... hope you had a good weekend and Father's Day...

I have not yet completed my notes from last week - it is a daunting task! I've begun work on the critical components, but haven't typed up everything.

A few things I'd like to share with you early this week, or possibly discuss:

1. CMP Sales Agreement: BShur spoke with Rich Hevey last week; they agreed on a path forward together, and BShur will mark up the CMP-provided contract and get that back to Rich within a few days; we've collectively agreed to continue to push for a July 1 close... (not sure 7/1 will happen, but we're trying to keep pushing)
2. Baxter Blvd: You expressed some possible interest in doing a complete replacement of the wooden poles and cobraheads at Baxter Blvd; a quick count of lights last week showed about 66 lights (50 on water side, 11 on other side, plus 5 on street up by the parking lot; this assumes we just retrofit the 10 decorative globes in the parking lot, which seem fine except for surface rust on the bases - see pic below)
 - * If this is of interest, I'd like to explore how this might affect the buy-back cost; if we ask CMP to simply remove them, it might cost less than the regular buy-back
 - * We could provide a rough budgetary cost for this, if you want to suggest looking at an Esplanade or Hallbrook fixture, on a Salem or Hallbrook pole (see below for pics)
3. WiFi meeting: could we discuss next steps for the WiFi project sometime today or tomorrow? If the larger project is cancelled, we may not need the Rredzone meeting scheduled for the 28th - it doesn't seem like we need to convince Jon J to not do the larger project; should we proceed to defining what WiFi elements to include in the Street Light project?

Here are the pics and graphics mentioned above:

[cid:image002.jpg@01D2E8E8.C057EC50] [cid:image003.jpg@01D2E8E8.C057EC50]

Thanks - let me know if you'd like to talk later -

Jim

Jim Schriver
TEN Connected Solutions
1501 Reedsdale Street, Suite 401
Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
<https://www.tenconnected.com/>

From: [Jim Schriver](#)
To: [Julianne Sullivan](#)
Cc: [Troy Moon](#)
Subject: RE: Info
Date: Monday, June 19, 2017 5:36:47 PM
Attachments: [Smart-City-Media Preso June2017.pdf](#)

Julie and Troy –

Here is a copy of that Smart City Kiosk presentation... let me know if you have any questions.

Regarding other cities and how they use the Smart City data... are you specifically asking about the kiosks, or any Smart City component?

Thanks,
Jim

Jim Schriver
TEN Connected Solutions
1501 Reedsdale Street, Suite 401
Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
<https://www.tenconnected.com/>

From: Julianne Sullivan [mailto:jas@portlandmaine.gov]
Sent: June 19, 2017 12:16 PM
To: Jim Schriver <jim.schriver@tenconnected.com>
Cc: Troy Moon <thm@portlandmaine.gov>
Subject: Info

Hi Jim - great to meet you last week with Troy. Would you please send me the presentation you referenced as well as anything else you have on how your client cities are using the data gathered from their "smart" initiatives?

Thank you!!

Julie Sullivan
Senior Advisor to the City Manager
tel 207.756.8363
www.portlandmaine.gov

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and/or the media if requested.

From: [Jim Schriver](#)
To: [Troy Moon \(thm@portlandmaine.gov\)](#); [mike.schneider](#); [Pat Bresnahan](#)
Subject: Cobra Head analysis
Start: Friday, June 30, 2017 11:30:00 AM
End: Friday, June 30, 2017 12:00:00 PM
Location: Go-To-Meeting (see link below)

Troy -

Thanks for your flexibility on the time for this...

Mike and Pat have compiled a nice comparison of the 4 major brands they've recommended for the largest portion of your Street Light project - the Cobra Heads. After you've had a chance to see and feel the 4 vendor's products, this comparison will help you look at the selection from a number of other angles:

- * Initial acquisition cost
- * Light output
- * Ongoing operational costs
- * Relative energy efficiency

We'll present the document, explain the calculations, then answer any of your questions. We'll provide you with a soft copy you can save or share with others -

We should be able to run through this in 30 minutes...

Below is the webinar and dial-in info... thanks

Jim

Cobra Head Analysis
Fri, Jun 30, 2017 11:30 AM - 12:00 PM EDT

Please join my meeting from your computer, tablet or smartphone.
<https://global.gotomeeting.com/join/888332197>

You can also dial in using your phone.
United States: +1 (571) 317-3122

Access Code: 888-332-197

First GoToMeeting? Try a test session: <https://care.citrixonline.com/g2m/getready>

From: [Jim Schriver](mailto:Jim.Schrive)
To: [Troy Moon \(thm@portlandmaine.gov\)](mailto:Troy.Moon.thm@portlandmaine.gov)
Subject: FW: potential LED light pilot project
Date: Monday, July 31, 2017 1:56:50 PM
Attachments: [image004.png](#)

Troy – we’ve been approved for the Cedar/Casco lighting pilot project...

We’ll reach out to On-Target today to get a quote and get it scheduled. Does Portland have funds to pay for this out of your operating budget? Should we send you a quote for the work? Or will you fold this under the Street Light project?

Let me know at your convenience –

Thanks,
Jim

From: Daniels, Stephen [<mailto:Stephen.Daniels@cmpco.com>]
Sent: July 31, 2017 1:45 PM
To: Jim Schriver <jim.schrive@tenconnected.com>
Cc: Perkins, Rhonda <Rhonda.Perkins@cmpco.com>
Subject: RE: potential LED light pilot project

Hi Jim,

We approve the location for the LED pilot project on the nine (9) poles you selected. We would like for you to coordinate this directly with your contractor (On Target) but to keep us informed as to planned start and completion of the lighting change over. The billing and payment for this pilot project work should just be between the City of Portland, TEN, and your contractor. There is no need for CMP to be part of the billing and payment process for the pilot. As a reminder your contractor must install the approved fusing for each light in this pilot project.

Please contact me with any questions or concerns.

Thanks
Steve

[cid:image001.jpg@01D30A03.214B50C0]

Stephen G. Daniels, CEM
Manager, Sales
205 Center Road, Fairfield, ME 04937
Office 207-453-3365
Cell 207-314-1086
Fax 207-629-4931
stephen.daniels@cmpco.com<<mailto:stephen.daniels@cmpco.com>>

[cid:image002.jpg@01D30A03.214B50C0]

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please print only if necessary and recycle.

From: Jim Schriver [<mailto:jim.schrive@tenconnected.com>]
Sent: Monday, July 31, 2017 10:21 AM

To: Daniels, Stephen
Cc: Perkins, Rhonda
Subject: RE: potential LED light pilot project

Steve –
Good morning – hope you had a good weekend...

Question: in order to expedite the process (assuming CMP is able to approve this request) may I reach out to On-Target this week and request a quote for this work? I assume it will take them 4-5 business days to turn this around, so I wanted to get started.

Let me know if you would prefer I wait until you give the formal approval –

Thanks –

Jim

From: Daniels, Stephen [<mailto:Stephen.Daniels@cmpco.com>]
Sent: July 28, 2017 9:16 AM
To: Jim Schriver <jim.schrive@tenconnected.com<<mailto:jim.schrive@tenconnected.com>>>
Cc: Perkins, Rhonda <Rhonda.Perkins@cmpco.com<<mailto:Rhonda.Perkins@cmpco.com>>>; Troy Moon (thm@portlandmaine.gov<<mailto:thm@portlandmaine.gov>>)<thm@portlandmaine.gov<<mailto:thm@portlandmaine.gov>>>
Subject: RE: potential LED light pilot project

Thanks Jim, we'll review this and get back to you.
Steve

[cid:image001.jpg@01D30A03.214B50C0]

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Manager, Sales
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stephen.daniels@cmpco.com<<mailto:stephen.daniels@cmpco.com>>

[cid:image002.jpg@01D30A03.214B50C0]

In the interest of the environment,
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From: Jim Schriver [<mailto:jim.schrive@tenconnected.com>]
Sent: Thursday, July 27, 2017 5:07 PM
To: Daniels, Stephen
Cc: Perkins, Rhonda; Troy Moon (thm@portlandmaine.gov<<mailto:thm@portlandmaine.gov>>)
Subject: RE: potential LED light pilot project

Steve –
Here is a modified request... with only 1-for-1 replacement of existing cobra head lights for LED cobra head lights. This new approach only requires 9 lights installed...

[cid:image003.jpg@01D30A03.214B50C0]

The location of each pole is noted on the attached map. There will be 5 new lights on Casco and 4 lights along Cedar Street.

Please review this modified request and let us know if you have any questions, or need us to make any changes. If no changes are required, we'll reach out to On-Target to get a quote and leadtime for the work.

Thanks again for your help –

Regards,
Jim

Jim Schriver
TEN Connected Solutions
1501 Reedsdale Street, Suite 401
Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
<https://www.tenconnected.com/>

From: Daniels, Stephen [<mailto:Stephen.Daniels@cmpco.com>]
Sent: July 27, 2017 3:01 PM
To: Jim Schriver <jim.schrivier@tenconnected.com<<mailto:jim.schrivier@tenconnected.com>>>
Cc: Perkins, Rhonda <Rhonda.Perkins@cmpco.com<<mailto:Rhonda.Perkins@cmpco.com>>>; Troy Moon
(thm@portlandmaine.gov<<mailto:thm@portlandmaine.gov>>)
<thm@portlandmaine.gov<<mailto:thm@portlandmaine.gov>>>
Subject: RE: potential LED light pilot project

Jim,
Yes, please resubmit for locations with existing lights that will be replaced with LEDs.
Thanks
Steve

[cid:image001.jpg@01D30A03.214B50C0]

Stephen G. Daniels, CEM
Manager, Sales
205 Center Road, Fairfield, ME 04937
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Cell 207-314-1086
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Sent: Thursday, July 27, 2017 9:21 AM
To: Daniels, Stephen
Cc: Perkins, Rhonda; Troy Moon (thm@portlandmaine.gov<<mailto:thm@portlandmaine.gov>>)
Subject: RE: potential LED light pilot project

Steve –

Good morning... as promised, here is a summary of our request on behalf of the City of Portland.

The two streets that Portland has identified for the pilot are CEDAR STREET and CASCO STREET. They are located close to each other (see the attached map).

We looked at both streets by both walking them and by using Google street view to confirm pole placement. I've attempted to place dots on the attached map so we know where the CMP poles are located.

There are a total of 11 poles on these two streets – 5 on Casco and 6 on Cedar. While this number is a little higher than we expected, we were hoping that CMP would still be willing to proceed with a pilot.

A summary of our request is as follows: 11 new LED light fixtures, roughly 40 watts each, and 3 new brackets to be placed on poles

[cid:image004.png@01D30A03.214B50C0]

The City will provide, or pay for, the fixtures, the brackets, and the qualified labor to install them. If it is acceptable to CMP, TEN Connected would probably request a quote from On-Target, and after receipt of a purchase order, they would install the equipment as their work schedule allows, but probably in the next 2-4 weeks.

Does this sound acceptable? Are there any elements we are missing?

As soon as you are able to confirm that our approach is sound, we will proceed to contact On Target about getting a quote. If you'd like us to modify any portion of this, please let me know.

Thanks again for your willingness to help the City with this pilot – I look forward to your reply –

Best regards,
Jim

Jim Schriver
TEN Connected Solutions
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Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
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=====

From: [Troy Moon](#)
To: [Jim Schriver](#)
Subject: Re: FW: potential LED light pilot project
Date: Monday, July 31, 2017 2:05:29 PM

Yes - I will charge it to the streetlight capital money I have. That is good news! Let's get started.

On Mon, Jul 31, 2017 at 1:56 PM, Jim Schriver <jim.schriv@tenconnected.com> wrote:
Troy – we've been approved for the Cedar/Casco lighting pilot project...

We'll reach out to On-Target today to get a quote and get it scheduled. Does Portland have funds to pay for this out of your operating budget? Should we send you a quote for the work? Or will you fold this under the Street Light project?

Let me know at your convenience –

Thanks,
Jim

From: Daniels, Stephen [mailto:Stephen.Daniels@cmpco.com]
Sent: July 31, 2017 1:45 PM
To: Jim Schriver <jim.schriv@tenconnected.com>
Cc: Perkins, Rhonda <Rhonda.Perkins@cmpco.com>
Subject: RE: potential LED light pilot project

Hi Jim,

We approve the location for the LED pilot project on the nine (9) poles you selected. We would like for you to coordinate this directly with your contractor (On Target) but to keep us informed as to planned start and completion of the lighting change over. The billing and payment for this pilot project work should just be between the City of Portland, TEN, and your contractor. There is no need for CMP to be part of the billing and payment process for the pilot. As a reminder your contractor must install the approved fusing for each light in this pilot project.

Please contact me with any questions or concerns.

Thanks
Steve

[cid:image001.jpg@01D30A03.214B50C0]

Stephen G. Daniels, CEM
Manager, Sales
205 Center Road, Fairfield, ME 04937
Office [207-453-3365](tel:207-453-3365)
Cell [207-314-1086](tel:207-314-1086)
Fax [207-629-4931](tel:207-629-4931)
stephen.daniels@cmpco.com<mailto:stephen.daniels@cmpco.com>

[cid:image002.jpg@01D30A03.214B50C0]

In the interest of the environment,
please print only if necessary and recycle.

From: Jim Schriver [mailto:jim.schriver@tenconnected.com]
Sent: Monday, July 31, 2017 10:21 AM
To: Daniels, Stephen
Cc: Perkins, Rhonda
Subject: RE: potential LED light pilot project

Steve –
Good morning – hope you had a good weekend...

Question: in order to expedite the process (assuming CMP is able to approve this request) may I reach out to On-Target this week and request a quote for this work? I assume it will take them 4-5 business days to turn this around, so I wanted to get started.

Let me know if you would prefer I wait until you give the formal approval –

Thanks –

Jim

From: Daniels, Stephen [mailto:Stephen.Daniels@cmpco.com]
Sent: July 28, 2017 9:16 AM
To: Jim Schriver <jim.schriver@tenconnected.com<mailto:jim.schriver@tenconnected.com>>
Cc: Perkins, Rhonda <Rhonda.Perkins@cmpco.com<mailto:Rhonda.Perkins@cmpco.com>>; Troy Moon (thm@portlandmaine.gov<mailto:thm@portlandmaine.gov>)
<thm@portlandmaine.gov<mailto:thm@portlandmaine.gov>>
Subject: RE: potential LED light pilot project

Thanks Jim, we'll review this and get back to you.
Steve

[cid:image001.jpg@01D30A03.214B50C0]

Stephen G. Daniels, CEM
Manager, Sales
205 Center Road, Fairfield, ME 04937
Office [207-453-3365](tel:207-453-3365)
Cell [207-314-1086](tel:207-314-1086)
Fax [207-629-4931](tel:207-629-4931)
stephen.daniels@cmpco.com<mailto:stephen.daniels@cmpco.com>

[cid:image002.jpg@01D30A03.214B50C0]

In the interest of the environment,
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From: Jim Schriver [mailto:jim.schrивer@tenconnected.com]
Sent: Thursday, July 27, 2017 5:07 PM
To: Daniels, Stephen
Cc: Perkins, Rhonda; Troy Moon (thm@portlandmaine.gov<mailto:
thm@portlandmaine.gov>)
Subject: RE: potential LED light pilot project

Steve –

Here is a modified request... with only 1-for-1 replacement of existing cobra head lights for LED cobra head lights. This new approach only requires 9 lights installed...

[cid:image003.jpg@01D30A03.214B50C0]

The location of each pole is noted on the attached map. There will be 5 new lights on Casco and 4 lights along Cedar Street.

Please review this modified request and let us know if you have any questions, or need us to make any changes. If no changes are required, we'll reach out to On-Target to get a quote and leadtime for the work.

Thanks again for your help –

Regards,
Jim

Jim Schriver
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Pittsburgh, PA 15233
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[412-992-1397](tel:412-992-1397) (C)
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From: Daniels, Stephen [mailto:Stephen.Daniels@cmpco.com]
Sent: July 27, 2017 3:01 PM
To: Jim Schriver <jim.schrивer@tenconnected.com<mailto:jim.schrивer@tenconnected.com>>
Cc: Perkins, Rhonda <Rhonda.Perkins@cmpco.com<mailto:Rhonda.Perkins@cmpco.com>>>; Troy Moon (thm@portlandmaine.gov<mailto:thm@portlandmaine.gov>)
<thm@portlandmaine.gov<mailto:thm@portlandmaine.gov>>

Subject: RE: potential LED light pilot project

Jim,

Yes, please resubmit for locations with existing lights that will be replaced with LEDs.

Thanks

Steve

[cid:image001.jpg@01D30A03.214B50C0]

Stephen G. Daniels, CEM

Manager, Sales

205 Center Road, Fairfield, ME 04937

Office [207-453-3365](tel:207-453-3365)

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stephen.daniels@cmpco.com<mailto:stephen.daniels@cmpco.com>

[cid:image002.jpg@01D30A03.214B50C0]

In the interest of the environment,
please print only if necessary and recycle.

From: Jim Schriver [mailto:jim.schrivier@tenconnected.com]

Sent: Thursday, July 27, 2017 9:21 AM

To: Daniels, Stephen

Cc: Perkins, Rhonda; Troy Moon (thm@portlandmaine.gov<mailto:thm@portlandmaine.gov>)

Subject: RE: potential LED light pilot project

Steve –

Good morning... as promised, here is a summary of our request on behalf of the City of Portland.

The two streets that Portland has identified for the pilot are CEDAR STREET and CASCO STREET. They are located close to each other (see the attached map).

We looked at both streets by both walking them and by using Google street view to confirm pole placement. I've attempted to place dots on the attached map so we know where the CMP poles are located.

There are a total of 11 poles on these two streets – 5 on Casco and 6 on Cedar. While this number is a little higher than we expected, we were hoping that CMP would still be willing to proceed with a pilot.

A summary of our request is as follows: 11 new LED light fixtures, roughly 40 watts each,

and 3 new brackets to be placed on poles

[cid:image004.png@01D30A03.214B50C0]

The City will provide, or pay for, the fixtures, the brackets, and the qualified labor to install them. If it is acceptable to CMP, TEN Connected would probably request a quote from On-Target, and after receipt of a purchase order, they would install the equipment as their work schedule allows, but probably in the next 2-4 weeks.

Does this sound acceptable? Are there any elements we are missing?

As soon as you are able to confirm that our approach is sound, we will proceed to contact On Target about getting a quote. If you'd like us to modify any portion of this, please let me know.

Thanks again for your willingness to help the City with this pilot – I look forward to your reply –

Best regards,
Jim

Jim Schriver
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Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Jim Schriver](#)
To: [Troy Moon \(thm@portlandmaine.gov\)](mailto:thm@portlandmaine.gov)
Subject: action items from this week
Date: Friday, September 1, 2017 5:42:17 PM

Troy -
Thanks for the time this week... I thought we made a lot of progress.

In the spirit of keeping us on the same page, with a project that has a lot of moving parts and seems to evolve each day, I thought I'd provide a recap of recent activity and upcoming action items.

Here is my list - please feel free to add to it or suggest corrections:

Updates:

- * A draft of the Bill of Sale between CMP/Portland for the buyback has been finalized and verbally agreed to by CMP. It was sent to Michael Goldman and is waiting for his approval before we set a closing date. It has been confirmed that the City has the money reserved to pay the ~ \$600k to CMP without using any of the Street Light project funding
- * The project has been split into 2 phases, roughly \$4M and \$4M, to help the City manage its debt levels and maintain its good ratings. Phase 1 will commence as soon as we can get the contracts signed, and construction will happen in the fall of 2017 and might spill into the first month or two of 2018. Phase 2 will likely be July 2018 thru December 2018

Action items:

- * Send pilot project pictures to Troy (done; if we find any more good ones, we'll send next week)
- * Send Brendan a copy of the lighting savings spreadsheet (done)
- * Confirm BoA's ability to provide the same aggressive rate on just phase 1 of the project (done)
- * Define activities in Phase 1 and Phase 2; consider various factors (maximize savings, execute the 'low-hanging-fruit', equipment leadtimes, etc)
 - * Determine how much of the cobra head project to execute in phase 1
 - * Determine how much of the decoratives (or non-cobraheads) for phase 1
 - * Determine what portions of Smart City to execute in phase 1
- * Contact BoA to set up contract for \$4M financing for phase 1
- * Get Project on City Council meeting agenda for Sept 18th
- * Determine what materials to prepare for Sept 18th meeting - summary sheet of the project, or a full-blown presentation by Jon or Troy, supported by TEN Connected?
- * Confirm final costs and leadtimes on LED fixtures, make a vendor selection by 9/8
- * Define choices for decoratives by major category or geography (Old Port, Congress Street, etc)
- * Set up demo installation in September to help aide decision-making for decoratives:
 - * What is the standard, by neighborhood? What is the approach for dark-sky compliance?
 - * Green teardrops: screw-in LED lamp, or retrofit kit, or new fixture
 - * Black Town & Country: screw in LED lamp, or new fixture? Can we rehab any fixtures?
 - * Black Spring City fixtures and poles in Old Port: 2 sockets per pole, glass globe; retrofit or replace?
 - * Wooden poles on Baxter Blvd - add LED or replace everything?
 - * Nautical lights on Eastern Prom and waterfront: upgrade or replace?

What else am I missing? Lets talk early next week and make sure we're not missing anything -

Thanks - have a great weekend -

Jim

Jim Schriver
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412-992-1397 (C)
<https://www.tenconnected.com/>

From: [Troy Moon](#)
To: [Michael Goldman](#); [Nancy English](#)
Subject: Fwd: Street Lighting Project Draft Resolution Language.docx
Date: Monday, September 25, 2017 7:29:41 AM
Attachments: [Street Lighting Project Draft Resolution Language.docx](#)

Nancy,

Here is a draft resolution that might be useful to create the council order for the street light project

----- Forwarded message -----

From: rob.campbell <rob.campbell@tensaves.com>
Date: Tue, Sep 12, 2017 at 2:39 PM
Subject: Street Lighting Project Draft Resolution Language.docx
To: Troy Moon <thm@portlandmaine.gov>
CC: Jim Schriver <jim.schriver@tenconnected.com>

Good afternoon Troy,

As promised, please find attached, some recommended draft resolution language for your upcoming council meeting to:

- approve a resolution to enter into a contract with TCS.
- approve a resolution to enter into a financing agreement with the Bank of America to fund the project through a tax-exempt municipal lease.

I hope you find this helpful.

Best regards,

Rob

--

Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Jim Schriver](#)
To: [Troy Moon \(thm@portlandmaine.gov\)](mailto:troy.moon@portlandmaine.gov)
Subject: request for info - parks
Date: Tuesday, September 26, 2017 2:11:57 PM

Troy -

Our engineering team has requested information about two projects that will likely fall into Phase 1 of the Street Light project (Payson Park field lights, Deering Oaks fountain lights)

Could you pass this along to the appropriate person, or help us find someone who could answer these questions?

1. Regarding Payson Park softball field:
 - * can someone define which level of play occurs here? Is it high school baseball / softball? College level? Junior High?
 - * Are there any plans available which show the electrical infrastructure and lighting as originally designed?
2. Regarding Deering Oaks pond fountain:
 - * Can the City share any drawing or documents that outline the existing lighting system, the mounting hardware, and the electrical infrastructure that supports it?
 - * If no drawings are available, how many physical fixtures are currently deployed to light the fountain? Is the fixture type and wattage known?
 - * Is there an estimated depth of that pond? At its deepest point? What is the approximate depth where the fountain is located?
 - * Are there snapping turtles known to inhabit the pond? (precautions on system wiring will be taken if turtles are suspected)
 - * When the fountain lighting was installed, was the pond drained, or was the equipment installed while the pond was full?

Thanks in advance - let me know if you have any questions -

Regards,
Jim

Jim Schriver
TEN Connected Solutions
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Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
<https://www.tenconnected.com/>

From: [Troy Moon](#)
To: [Ethan Hipple](#); [Jim Schriver](#)
Subject: Fwd: request for info - parks
Date: Tuesday, September 26, 2017 2:13:49 PM

Ethan,

Can you or someone on your staff get back to Jim Schriver at TEN Connected with the info they are requesting about the Payson Ballfield and the Deering Oaks Fountain? Â

----- Forwarded message -----

From: **Jim Schriver** <jim.schrivier@tenconnected.com>
Date: Tue, Sep 26, 2017 at 2:11 PM
Subject: request for info - parks
To: "Troy Moon (thm@portlandmaine.gov)" <thm@portlandmaine.gov>

Troy -

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Â Â Â *Â Â When the fountain lighting was installed, was the pond drained, or was the equipment installed while the pond was full?

Thanks in advance - let me know if you have any questions -

Regards,
Jim

Jim Schriver

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Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Troy Moon](#)
To: [Ethan Owens](#)
Subject: Fwd: request for info - parks
Date: Tuesday, September 26, 2017 2:25:59 PM

Hi Ethan,

I see Ethan Hipple is on vacation. Can you respond here?

----- Forwarded message -----

From: **Troy Moon** <thm@portlandmaine.gov>
Date: Tue, Sep 26, 2017 at 2:13 PM
Subject: Fwd: request for info - parks
To: Ethan Hipple <ehipple@portlandmaine.gov>, Jim Schriver <jim.schrivier@tenconnected.com>

Ethan,

Can you or someone on your staff get back to Jim Schriver at TEN Connected with the info they are requesting about the Payson Ballfield and the Deering Oaks Fountain?

----- Forwarded message -----

From: **Jim Schriver** <jim.schrivier@tenconnected.com>
Date: Tue, Sep 26, 2017 at 2:11 PM
Subject: request for info - parks
To: "Troy Moon (thm@portlandmaine.gov)" <thm@portlandmaine.gov>

Troy -

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* Is there an estimated depth of that pond? At its deepest point? What is the approximate depth where the fountain is located?

* Are there snapping turtles known to inhabit the pond? (precautions on

system wiring will be taken if turtles are suspected)

When the fountain lighting was installed, was the pond drained, or was the equipment installed while the pond was full?

Thanks in advance - let me know if you have any questions -

Regards,
Jim

Jim Schriver
TEN Connected Solutions
1501 Reedsdale Street, Suite 401
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Troy Moon
Sustainability Coordinator
City of Portland, ME
[207-756-8362](tel:207-756-8362)

--

Troy Moon
Sustainability Coordinator
City of Portland, ME
207-756-8362

From: [Ethan Hipple](#)
To: [Ethan Owens](#)
Subject: Fwd: request for info - parks
Date: Tuesday, September 26, 2017 4:28:40 PM

Can you please get back to them? Thanks

----- Forwarded message -----

From: "Troy Moon" <thm@portlandmaine.gov>
Date: Sep 26, 2017 1:13 PM
Subject: Fwd: request for info - parks
To: "Ethan Hipple" <ehipple@portlandmaine.gov>, "Jim Schriver" <jim.schrivier@tenconnected.com>
Cc:

Ethan,

Can you or someone on your staff get back to Jim Schriver at TEN Connected with the info they are requesting about the Payson Ballfield and the Deering Oaks Fountain? Â

----- Forwarded message -----

From: **Jim Schriver** <jim.schrivier@tenconnected.com>
Date: Tue, Sep 26, 2017 at 2:11 PM
Subject: request for info - parks
To: "Troy Moon (thm@portlandmaine.gov)" <thm@portlandmaine.gov>

Troy -

Our engineering team has requested information about two projects that will likely fall into Phase 1 of the Street Light project (Payson Park field lights, Deering Oaks fountain lights)

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Â Â Â *Â Â Are there any plans available which show the electrical infrastructure and lighting as originally designed?

Â 2.Â Regarding Deering Oaks pond fountain:

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Â Â Â *Â Â If no drawings are available, how many physical fixtures are currently deployed to light the fountain?Â Is the fixture type and wattage known?

Â Â Â *Â Â Is there an estimated depth of that pond?Â At its deepest point?Â What is the approximate depth where the fountain is located?

Â Â Â *Â Â Are there snapping turtles known to inhabit the pond?Â (precautions on system wiring will be taken if turtles are suspected)

Â Â Â *Â Â When the fountain lighting was installed, was the pond drained, or was the

equipment installed while the pond was full?

Thanks in advance - let me know if you have any questions -

Regards,
Jim

Jim Schriver
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Troy Moon
Sustainability Coordinator
City of Portland, ME
[207-756-8362](tel:207-756-8362)

From: [Jim Schriver](#)
To: [Brendan O'Connell](#)
Subject: touching base - First Reading
Date: Tuesday, October 3, 2017 8:50:41 AM

Brendan –

Good morning... with Troy being out, I wanted to touch base and see if everything went OK with the first reading of the Council last night. Is there anything you or Jon need from TEN Connected in regards to the Street Light project?

Let me know if there is anything we can do to help –

Thanks,

Jim

Jim Schriver
TEN Connected Solutions
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412-992-1397 (C)
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From: [Ethan Owens](#)
To: jim.schrivier@tenconnected.com; [Ethan Hipple](#); [Troy Moon](#); [RW](#)
Subject: Portland Maine
Date: Tuesday, October 3, 2017 2:05:40 PM
Attachments: [IMG_0562.JPG](#)
[MuscoEstimate_City of Portland \(1\).pdf](#)

**Good Morning,
I will add what i can and find out what I don't know.**

Our engineering team has requested information about two projects that will likely fall into Phase 1 of the Street Light project (Payson Park field lights, Deering Oaks fountain lights)

Could you pass this along to the appropriate person, or help us find someone who could answer these questions?

1. Regarding Payson Park softball field:

* can someone define which level of play occurs here? Is it high school baseball / softball? College level? Junior High?

The lighting system and the poles are very old and none of the existing system can be used again. The level of play is normally high school and State Playoff games. Attached is a quote for Musco Lighting which we have used at two other locations and would prefer to use Musco at any new installations because of our experience with the product and the 25 yr warranty.

* Are there any plans available which show the electrical infrastructure and lighting as originally designed? **No**

2. Regarding Deering Oaks pond fountain:

* Can the City share any drawing or documents that outline the existing lighting system, the mounting hardware, and the electrical infrastructure that supports it?

* If no drawings are available, how many physical fixtures are currently deployed to light the fountain? Is the fixture type and wattage known?

* Is there an estimated depth of that pond? At its deepest point? What is the approximate depth where the fountain is located?

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* When the fountain lighting was installed, was the pond drained, or was the equipment installed while the pond was full?

Ethan Owens CPRP, CPSI, AOLCP

Parks Assistant Director, Athletic Facilities and Playground/Courts Manager

City of Portland - Parks, Recreation and Facilities Management Dept.

212 Canco Road Portland, Maine 04103 ~ USA

[207-808-5400](tel:207-808-5400) ewens@portlandmaine.gov

From: [Allison Carroll](#)
To: [Amy Segal](#); [Belinda Ray](#); [Carol Hutchins](#); [Chelsea Malacara](#); [Colette Bouchard](#); [Craig Lapine](#); [Cynthia Loebenstein](#); [Dory Waxman](#); [Ethan Hipple](#); [Jaime Parker](#); [Meri Lowry](#); [Michael Mertaugh](#); [Nathan Robbins](#); [Sally Deluca](#); [Zack Anchors](#)
Subject: Workshop minutes
Date: Wednesday, October 4, 2017 9:12:38 PM
Attachments: [PC Workshop Minutes 092017.pdf](#)

Hello everyone,

Hope you're all having a great week. For those of you who missed the workshop, attached are the minutes. Of course, if you have any additional questions, feel free to ask Sally or Ethan.

Take care,

Alli Carroll

Executive Assistant
City of Portland, Parks, Recreation & Facilities
212 Canco Road, Portland, Maine 04103
[207.808.5428](tel:207.808.5428)

"Portland, Maine. Yes. Life's good here."

From: [Belinda Ray](#)
To: [Ethan Hipple](#); [Sally Deluca](#)
Subject: Fwd: Workshop minutes
Date: Thursday, October 5, 2017 8:30:55 AM
Attachments: [PC Workshop Minutes 092017.pdf](#)

Just read the workshop minutes. Bless you both. A million times over.

:~)

Belinda S. Ray
City Council, District 1
City Hall
389 Congress Street
Portland, ME 04101
BSR@portlandmaine.gov

Sign up for [my newsletter](#) or visit [my blog](#)!

Please Note: Under Maine law, emails sent or received by public officials or city employees may be classified as public records. There are very few exceptions. As a result, please be advised that what is written in an e-mail could be released to the public and/or the media if requested.

----- Forwarded message -----

From: Allison Carroll <acarroll@portlandmaine.gov>
Date: Wed, Oct 4, 2017 at 9:12 PM
Subject: Workshop minutes
To: Amy Segal <amybellsegal12@gmail.com>, Belinda Ray <bsr@portlandmaine.gov>, Carol Hutchins <hutchins_carol@hotmail.com>, Chelsea Malacara <chelsea.foote@maine.edu>, Colette Bouchard <coletteb1821@gmail.com>, Craig Lapine <craig@cultivatingcommunity.org>, Cynthia Loebenstein <cloebenstein@yahoo.com>, Dory Waxman <mermaidst@gmail.com>, Ethan Hipple <ehipple@portlandmaine.gov>, Jaime Parker <Jaime@trails.org>, Meri Lowry <mnlowry@hotmail.com>, Michael Mertaugh <michaelmertaugh@gmail.com>, Nathan Robbins <npalmer.robbins@gmail.com>, Sally Deluca <sld@portlandmaine.gov>, Zack Anchors <zack.anchors@gmail.com>

Hello everyone,

Hope you're all having a great week. For those of you who missed the workshop, attached are the minutes. Of course, if you have any additional questions, feel free to ask Sally or Ethan.

Take care,

Alli Carroll

Executive Assistant
City of Portland, Parks, Recreation & Facilities
212 Canco Road, Portland, Maine 04103

[207.808.5428](tel:207.808.5428)

"Portland, Maine. Yes. Life's good here."

From: [Jim Schriver](#)
To: [Ethan Owens](#)
Cc: [Pat Bresnahan](#)
Subject: RE: Portland Maine
Date: Friday, October 13, 2017 10:46:12 AM

Ethan –

Thanks for the Deering Oaks pond light picture... do you know how many of those fixtures are currently installed? Pat Bresnahan (copied here) is with our engineering team and will reach out to you separately to ask a few more questions.

Also – thanks for the Musco Lighting quote. They usually have really good lighting products, so we'll reach out to Mike Berry and try to coordinate the details. Would you mind sending Mike an email letting him know that we're working with the City on the Lighting project, and that we're not some random company trying to scheme their way into some work!?!

Regarding the Payson Park location – we've been told there is some urgency to getting that project done. Can you share any additional insight about that? If you'd prefer to speak briefly on the phone, that is fine too – let us know when would be convenient –

Thanks again, Ethan –

Jim

Jim Schriver
TEN Connected Solutions
1501 Reedsdale Street, Suite 401
Pittsburgh, PA 15233
412-429-8888, ext 131 (O)
412-992-1397 (C)
<https://www.tenconnected.com/>

From: Ethan Owens [mailto:eowens@portlandmaine.gov]
Sent: October 3, 2017 2:06 PM
To: Jim Schriver <jim.schriver@tenconnected.com>; Ethan Hipple <ehipple@portlandmaine.gov>; Troy Moon <tthm@portlandmaine.gov>; RW <rbw@portlandmaine.gov>
Subject: Portland Maine

Good Morning,

I will add what i can and find out what I don't know.

Our engineering team has requested information about two projects that will likely fall into Phase 1 of the Street Light project (Payson Park field lights, Deering Oaks fountain lights)

Could you pass this along to the appropriate person, or help us find someone who could answer these questions?

1. Regarding Payson Park softball field:

* can someone define which level of play occurs here? Is it high school baseball / softball? College level? Junior High?

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* Are there any plans available which show the electrical infrastructure and lighting as originally designed? **No**

2. Regarding Deering Oaks pond fountain:

* Can the City share any drawing or documents that outline the existing lighting system, the mounting hardware, and the electrical infrastructure that supports it?

* If no drawings are available, how many physical fixtures are currently deployed to light the fountain? Is the fixture type and wattage known?

* Is there an estimated depth of that pond? At its deepest point? What is the approximate depth where the fountain is located?

* Are there snapping turtles known to inhabit the pond? (precautions on system wiring will be taken if turtles are suspected)

* When the fountain lighting was installed, was the pond drained, or was the equipment installed while the pond was full?

Ethan Owens CPRP, CPSI, AOLCP

Parks Assistant Director, Athletic Facilities and Playground/Courts Manager

City of Portland - Parks, Recreation and Facilities Management Dept.

212 Canco Road Portland, Maine 04103 ~ USA

[207-808-5400](tel:207-808-5400) ewens@portlandmaine.gov

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From: [Ethan Owens](#)
To: [RW](#)
Subject: Fwd: Portland Maine
Date: Friday, October 13, 2017 10:52:38 AM

When you have a chance, please educate these guys on your DO lights.

Ethan Owens CPRP, CPSI, AOLCP
Parks Assistant Director, Athletic Facilities and Playground/Courts Manager
City of Portland - Parks, Recreation and Facilities Management Dept.
212 Canco Road Portland, Maine 04103 ~ USA
207-808-5400 ewens@portlandmaine.gov

----- Forwarded message -----

From: **Jim Schriver** <jim.schrivier@tenconnected.com>
Date: Fri, Oct 13, 2017 at 10:46 AM
Subject: RE: Portland Maine
To: Ethan Owens <ewens@portlandmaine.gov>
Cc: Pat Bresnahan <pat.bresnahan@tensaves.com>

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Thanks again, Ethan –

Jim

Jim Schriver

TEN Connected Solutions

[1501 Reedsdale Street, Suite 401](#)

[Pittsburgh, PA 15233](#)

[412-429-8888, ext 131](#) (O)

[412-992-1397](#) (C)

<https://www.tenconnected.com/>

From: Ethan Owens [mailto:ewens@portlandmaine.gov]

Sent: October 3, 2017 2:06 PM

To: Jim Schriver <jim.schrive@tenconnected.com>; Ethan Hipple <ehipple@portlandmaine.gov>; Troy Moon <thm@portlandmaine.gov>; RW <rbw@portlandmaine.gov>

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Ethan Owens CPRP, CPSI, AOLCP

Parks Assistant Director, Athletic Facilities and Playground/Courts Manager
City of Portland - Parks, Recreation and Facilities Management Dept.

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From: [Robert Weyer](#)
To: [Ethan Owens](#)
Subject: Re: Fwd: Portland Maine
Date: Friday, October 13, 2017 11:24:34 AM

You bet, aisle get it done today

On Oct 13, 2017 10:52 AM, "Ethan Owens" <eowens@portlandmaine.gov> wrote:
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Ethan Owens CPRP, CPSI, AOLCP
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[207-808-5400](tel:207-808-5400) eowens@portlandmaine.gov

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Subject: RE: Portland Maine
To: Ethan Owens <eowens@portlandmaine.gov>
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[412-992-1397](#) (C)

<https://www.tenconnected.com/>

From: Ethan Owens [mailto:ewens@portlandmaine.gov]

Sent: October 3, 2017 2:06 PM

To: Jim Schriver <jim.schrivier@tenconnected.com>; Ethan Hipple <ehipple@portlandmaine.gov>; Troy Moon <thm@portlandmaine.gov>; RW <rbw@portlandmaine.gov>

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From: [Robert Weyer](#)
To: [Ethan Owens](#)
Cc: jim.schrivier@tenconnected.com; [Ethan Hipple](#); [Troy Moon](#)
Subject: Re: Portland Maine
Date: Friday, October 13, 2017 2:16:04 PM

The current fountain lighting system is fed by 5 circuits. Each has a 20 amp breaker. The outer ring has 20 lights divided up by four of the circuits(five each). In the center of the fountain, the fifth circuit, has three lamps. So twenty three lamps total.

The lights all are 120 volt with 250 watt bulbs in the outer lights and 500 watt bulbs in the center lights. The outer lights were rated at 4800 lumens and the center lamps were 9800 lumens.

The depth of the pond where the fountain sits is three feet or less. The lights are raised on the bases(see the picture Ethan O. provided) we made so they are at the most about 8 " under the surface. These light must be submerged to operate due to the heat produced.

Before the pond was scraped out and the gravel base installed a couple of years ago I had seen one snapping turtle in the pond. None since.

The fountain lights are removed with the rest of the fountain for the winter. Removal is usually done in the first week of November and installation is done the first week of May. The pond is drained for several weeks spring and fall for removing/installing the fountain and duck house as well as cleaning of the pond bottom.

If you still need more information I may have a binder with further specs.

On Tue, Oct 3, 2017 at 2:05 PM, Ethan Owens <ewens@portlandmaine.gov> wrote:

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212 Canco Road Portland, Maine 04103 ~ USA

[207-808-5400](tel:207-808-5400) eowens@portlandmaine.gov

From: [Jim Schriver](#)
To: [Robert Weyer](#); [Ethan Owens](#)
Cc: [Ethan Hipple](#); [Troy Moon](#); [Pat Bresnahan](#)
Subject: RE: Portland Maine
Date: Friday, October 13, 2017 2:29:36 PM

Robert –

This is great information – thank you...

I'll circle back with our engineering team to see if there are any further questions, but this should give us a great start –

Regards,

Jim

From: Robert Weyer [mailto:rbw@portlandmaine.gov]
Sent: October 13, 2017 2:16 PM
To: Ethan Owens <eowens@portlandmaine.gov>
Cc: Jim Schriver <jim.schrivier@tenconnected.com>; Ethan Hipple <ehipple@portlandmaine.gov>; Troy Moon <thm@portlandmaine.gov>
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From: [Casey, Christopher](#)
To: [Dan Boulter \(db1@portlandmaine.gov\)](#); [Bob Tolliver](#)
Cc: [Casey, Samuel](#)
Subject: RE: Portland, Maine, Approves Wi-Fi-Enabled Lighting Project
Date: Wednesday, October 18, 2017 5:10:38 PM
Attachments: [image001.png](#)
[image002.png](#)
[image004.png](#)
[image005.png](#)
[LAWN_YW_PPT](#)

Hi Dan and Bob,

Hope all is well. I read this [article](#) the other day in the PPH and wanted to reach out to discuss WiFi technology partners involved.

Carousel recently launched with **Yelp WiFi** and I thought it might be a great fit for this initiative. Attached is a press release highlighting the free public WiFi initiative that London, Ontario implemented back in 2011. Below is a snip from a PPT "What is Yelp WiFi":

What is Yelp WiFi?

Leading provider of WiFi-based proximity marketing and analytics

 Innovation Yelp WiFi, formerly <u>Turnstyle</u> , is a division of Yelp that was founded in 2012 as one of the first <u>WiFi</u> analytics and marketing companies in the world	 Scale Thousands of venues under management in 50+ countries, 4M+ active users	 Channel Our primary go-to-market is through strong channel partners looking to add value from SaaS and service sales	 Cloud We are 100% cloud based, requiring no additional on-premises hardware beyond basic wireless access points
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"Turnstyle is at the forefront of a movement to track consumers who are continuously broadcasting their location from phones... Their success speaks to the growing value of location data."
—Elizabeth Dwoskin, *The Wall Street Journal*

yelp wifi Copyright © 2004–2017 Yelp. Confidential, for partners and resellers only. In collaboration with   2

Please let me know if you want to setup an engineering call to discuss further.

Thank you!!!

Christopher M. Casey | Senior Account Executive

Remote Office | Cape Elizabeth, ME 04107

o: 617-701-5031 c: 207-653-5986

ccasey@carouselindustries.com



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From: [Jim Schriver](#)
To: [Wardwell, Dana](#)
Cc: [Troy Moon \(thm@portlandmaine.gov\)](mailto:thm@portlandmaine.gov)
Subject: follow-up: Streetlight RFP
Date: Thursday, November 9, 2017 5:12:40 PM

Dana -

During our discussion earlier this week, you asked about getting examples of other Street Light RFP's that Bangor could review.

I spoke with Troy Moon, Sustainability Coordinator for the City of Portland. They conducted an RFP process late last year, which finished in early 2017... and it would appear to provide all of the things Bangor was looking for.

Troy (copied here) has agreed to share any documents and insights with you. Please contact him directly and continue the conversation.

Let me know if you have any other questions -

Thanks - and good luck -

Jim

Jim Schriver
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