

Message

From: Brendan Callery [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8D566C63FC78445AA59F4BE51E5F8ACO-BRENDAN CAL]
Sent: 2017-09-18 11:16:06 AM
To: Bashir Bhana [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f7ca92bb3384495d95f56b96eed74290-Bashir Bhan]; Andrew Pietrewicz [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=99d9da55c0a54dba8f5bc54affe89031-Andrew Piet]; George Pessione [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fe1264f59cb3428a90a73766e96ea517-George Pess]
CC: Humphrey Tse [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a4795cfbe1ce41b381b879a420983827-Humphrey Ts]; Joyce Poon [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3093c75378834fd195c6a07d2c0aded1-Joyce Poon]; Conrad Fox [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bcd8236363bf4c4ab0a0042c8c16f612-Conrad Fox]
Subject: RE: Considerations for solar rebate program analysis
Attachments: IESO CDM Cost Effectiveness Tool 09_05_17.xlsb

Flag: Follow up

Hello All,

I've attached the latest version of the CDM Cost Effectiveness tool. I wanted to let you all know that this latest version not only calculates cost-effectiveness, it also calculates avoided GHG emissions based on measure profiles (from emission factors derived by Planning pre-OPO), as well as calculate \$/tonne metrics for both PAC and TRC.

This is the tool being used internally by Conservation to consider new programs, either IESO programs or GreenON.

Brendan

From: Bashir Bhana
Sent: September 18, 2017 8:55 AM
To: Andrew Pietrewicz; George Pessione
Cc: Humphrey Tse; Joyce Poon; Conrad Fox; Brendan Callery
Subject: Considerations for solar rebate program analysis

Andrew/George – as discussed, here is a list of considerations for the solar rebate program analysis:

Data Planning will provide:

- Residential rate outlook with TOU considerations
- Solar PV capital cost decline rates
- Solar PV profile
- Solar PV/storage profile (based on optimal solar PV/storage system sizing)
- GHG avoidance value
- System avoided cost values

Considerations:

- Program effectiveness from a carbon abatement cost perspective (calculate program dollars spent per tonne CO2 saved)
- Impact on electricity rates
 - Participant and non-participant impacts

- Fair hydro plan considerations
- GAM impacts
- Total electricity cost impacts
 - Although GreenOn would fund PV costs, additional funding would likely be required to keep electricity consumers rate neutral. Amount of that funding would depend on whether the objective is to keep total system costs unchanged or just residential bill unchanged.
- Locational considerations and cost of transmission/distribution to enable connection
- SBG considerations
- Capacity value
- Operability impacts
- Potential duplication/overlap with CDM programs

The extent of system impacts would depend on the quantity of solar PV installed. This quantity will be estimated based on the program budget and the incentive offered. The number of projects envisioned is likely small. Considering that and the short turnaround time (~2 weeks), most of the above considerations will be presented as discussion points.

I've copied the folks who will be helping out with this analysis – please feel free to add to the list. We may be able to use some of this work/inputs to inform Conservation's PV potential study as well.

Bashir

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-----Original Appointment-----

From: Robert Sinclair

Sent: September 14, 2017 8:53 AM

To: Robert Sinclair; Bashir Bhana; George Pessione; Andrew Pietrewicz; Nik Schruder; Evelyn Lundhild; John Shou; Katelyn Margerm

Cc: Dirk van de Waal

Subject: FW: Solar-storage analysis and advice for GreenOn regarding requested rebate program

When: September 14, 2017 3:30 PM-4:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: 1808 Meeting Room

Meeting forwarded by bashir.bhana@ieso.ca on behalf of Robert.Sinclair@ieso.ca.

From: Robert Sinclair

Sent: Thursday, 14 September 2017 12:53:22 UTC

To: Robert Sinclair; George Pessione; Andrew Pietrewicz; Nik Schruder; Evelyn Lundhild; John Shou; Katelyn Margerm

Cc: Bashir Bhana; Dirk van de Waal

Subject: FW: Solar-storage analysis and advice for GreenOn regarding requested rebate program

When: September 14, 2017 7:30 PM-8:30 PM.

Where: 1808 Meeting Room

-----Original Appointment-----

From: Robert Sinclair

Sent: September 13, 2017 4:55 PM

To: Robert Sinclair; George Pessione; Andrew Pietrewicz; Nik Schruder; Evelyn Lundhild; John Shou; Katelyn Margerm

Subject: Solar-storage analysis and advice for GreenOn regarding requested rebate program

When: September 14, 2017 3:30 PM-4:30 PM (UTC-05:00) Eastern Time (US & Canada).

Where: 1808 Meeting Room

Hi Everyone,

I've been inclusive in this email so that everyone is informed, however I assume some of you will choose to delegate or won't need to participate in this piece of work.

Conservation, Legal and MRD have been discussing a path forward for supporting MOECC/GreenOn in developing their requested solar offering. The clarity regarding the IESO's mandate is lacking and to help move forward we would like to engage MOECC/GreenOn in a more direct way to help inform their decision making process. To this end we are proposing to conduct analysis, which we require PSP support for, of solar and storage as its been proposed to us. The focus will be on identifying a few key parameters:

- Min and Max Rebate levels
- Uptake levels up to the budget constraint
- Estimated GHG mitigation potential and the price per tonne paid
- Rate payer impacts

We have already done a bunch of pricing and uptake related analysis which we can contribute, and there are probably other things we should consider investigating once we discuss scope. I would like to set up some time this week to get the analysis going.

If your team's do not have capacity now, but would be the ones participating in this work, then let us know when you would be able to take this work on.