

Demand Response Working Group (DRWG) Meeting Notes

Date held: November 30, 2016	Time held: 9:00 pm – 12:00 pm	Location held: Crowne Plaza Toronto Airport
Company Name	Attendee	Attendance Status (A)ttended; (R) Registered; (S)ubstitute; (TC) Teleconference; (P) Presenter
Registered to participate:		
City of Toronto	Cheng, Jessie	A
City of Toronto	Koff, Chaim	A
City of Toronto	Poto, Angelo	R
Constant Power Inc.	Fuerth, Dillon	R
Constant Power Inc.	Game, Jonathan	R
Consultant	Goldberg, Sam	A
Customized Energy Solutions	Chintapalli, Raj	TC
Customized Energy Solutions	Tinkler, Mark	TC
Customized Energy Solutions	Pisarcik, Dave	TC
Ecobee	Ogbue, Nkechi	A
Ecobee	Francoz, Jeffrey	P
Elster Solutions	Roberston, Jack	A
Enbala	Thompson, Jonathan	P
Energy Curtailment Specialists	Moore, Michael	TC
Energy Curtailment Specialists	Pani, Swati	TC
Energy Hub	Diamond, Erika	TC
Energy Hub	Kier, Laura	P
EnerNOC, Inc.	Griffiths, Sarah	P
EnerNOC, Inc.	Barnes, Matt	TC
Gerdau Long Steel North America	Forsyth, Dave	TC
Great Circle Solar Management	Wharton, Karen	A
Hamilton Utilities Corporation	Crown, Mike	R
Honeywell Smart Grid Solution	White, Jeff	A
Hydro One	Bettencourt, Alex	TC
Hydro One	Katsuras, George	A
Nest Labs	Amaral, Utilia	TC
NRG Matters Corp	DiRuscio, Carmine	A
NRStor Inc.	Osborne, Geoff	TC
OhmConnect	Kooiman, Brian	P
OhmConnect	Hanson, Mike	A
Opower	Lopez, Alex	TC
PowerStream Inc.	Carr, Daniel	A
Resolute Forest Products	Degelman, Cara	A
Rodan Energy Solutions	Goddard, Rick	A

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Registered to participate:		
Rodan Energy Solutions	Quassem, Farhad	A
Rodan Energy Solutions	Grod, Adrian	A
Rodan Energy Solutions	Ingram, Rachel	A
Rodan Energy Solutions	Patterson, Sarah	TC
Tembec	Dottori, Paul	A
Toronto Hydro-Electric Services Ltd	Marzoughi, Rei	TC
WeatherBug Home (Good Company Associates on behalf of)	King, Robert	A
IESO	Kamstra, Pat	A
IESO	Chapman, Tom	A
IESO	Drake, Gordon	A
IESO	Grbavac, Jason	A
IESO	King, Ryan	A
IESO	Kwok, Jason	A
Meeting Chair: Gordon Drake, Supervisor, Market Development, IESO Facilitator: Ryan King, Market Relations, IESO Scribe: Jason Kwok, Market Development, IESO		
Please report any corrections, additions or deletions to: engagement@ieso.ca		

All meeting materials including DRWG member presentations are available on the IESO website at:

<http://www.ieso.ca/Pages/Participate/Stakeholder-Engagement/Working-Groups/Demand-Response-Working-Group.aspx>

Item 1

Pat Kamstra of the IESO provided an update on the Settlement treatment for Demand Response Market Participants that will provide DR Capacity through virtual C&I and residential HDR resources in the same zone. In order to reduce barriers to participation, at the DRMP's request, the IESO will create an additional virtual capacity obligation to allow for virtual C&I and residential to participate independently in a zone.

Member Questions and Comments, *with the IESO's response in italics:*

No comments were provided.

Item 2

Mike Hanson and Brian Kooiman of OhmConnect presented OhmConnect's priorities for residential demand response, which focused on third party data access. As a temporary solution, OhmConnect proposed to use Green Button's "Download My Data" option to capture residential measurement data until third party data access is possible through programs such as "Connect My Data".

Member Questions and Comments, with the IESO's response in italics:

OhmConnect asked the IESO if measurement data collected through "Download My Data" can be used to satisfy the measurement data requirements for residential HDR resources for the 2016 DR Auction.

The IESO replied that it is doing its due diligence on the matter and will provide a response prior to the DR Auction.

The IESO's response provided after the meeting on December 6th is as follows:

The IESO will accept Green Button meter data for residential DR resources. However, the terms of agreements that a residential contributor may have with other parties, including with their respective utility or local distribution company, may not allow the residential contributor to share or access its Green Button meter data for the purpose of the DRMP's participation as a residential DR resource. Therefore, the IESO requires that the DRMP ensure that sharing or accessing Green Button meter data for the purpose of participating in the IESO's DR Auction as a residential DR resource is not in breach of any agreements its residential contributors may have with third parties, failing which the IESO may unilaterally revoke at any time and without further or prior notice to the DRMP its participation in the energy market during the Commitment Period in which it secured a capacity obligation.

Please note that any failure to access meter data is not considered outside the control of the DRAP and should be addressed in advance of any DR Auction participation.

An attendee commented that they were nervous asking for customer account log-in information as specified in OhmConnect's proposal to use "Download My Data". The attendee stated that the security people in his organization are uncomfortable holding customer's log-in data and that there was a big difference between consent and acting as an agent. The attendee stressed the need for a central data repository.

Another attendee stated they didn't believe OhmConnect's proposal to access "Download My Data" by using their customer's log-in information was allowed under current user agreements. The attendee stated they explored this option in other markets and found that users were restricted from sharing their credentials with 3rd parties. The attendee stresses the best way to access customer data is through a centralized repository.

Item 3

Sarah Griffiths from EnerNOC presented EnerNOC's priorities for Demand Response focused on enhancing the effectiveness of DR resources to better meet evolving system needs. EnerNOC's recommendations included increasing flexibility and reinstating energy payments for activations.

Member Questions and Comments, with the IESO's response in italics:

An attendee who represents a water treatment facility stated that she finds the standby notice useful because it allows their facility more time to prepare for the DR activation. However, she noted that she would still be able to respond without a standby notice.

An attendee stated that residential DR is very flexible and can be called upon a lot without day-ahead notice. Residential DR is capable of being called upon multiple times a day, for many days in a row without standby notification.

EnerNOC added that their proposed removal of the standby notice would not for the 2017 Commitment Period but we need to think about the future, which is all about fast and flexible resources. EnerNOC noted that PJM's activation notification window went from 2 hours to 30 minutes and they didn't lose any DR capacity.

An attendee asked if shortening the activation block to less than 4 hours meant that resources could be dispatched for a smaller block of time?

EnerNOC responded that it could mean a dispatch of 1 hour if that's what the system needs.

An attendee stated that the Industrial Conservation Initiative has flattened the load profile in the province. Perhaps dispatch blocks of greater than 4 hours would also be helpful to the system.

An attendee advised that residential contributors can't provide more than 4 hours of DR, which means that a resource would need to double up on the number of contributors in a portfolio in order to meet longer activations.

EnerNOC stated that the group should keep in mind the capacity product the IESO ultimately needs when making design decisions.

Item 3

J.T. Thompson of Enbala presented the company's view that technology would enable greater flexibility in demand-side resources.

Member Questions and Comments, with the IESO's response in italics:

An attendee noted that participating in other energy management programs may result in a low baseline for HDR resources.

Item 4

Erika Diamond and Laura Kier from EnergyHub stressed the importance for a central repository for measurement data access for 3rd party vendors. Access to a central repository is preferred over coordinating with multiple LDC partners to collect data. EnergyHub also advised the current 1 MW minimum aggregation size is a barrier to entry.

Member Questions and Comments, with the IESO's response in italics:

An attendee inquired if the 1MW minimum constraint in the IESO's scheduling tools can be reviewed as part of the Market Renewal initiative.

The IESO responded in the affirmative. The IESO added that IESO resources also need to be considered when looking at making changes to existing tools. Some initiatives, such as code updates to the IESO dispatch, scheduling and optimization tools can be very costly to undertake.

Item 5

Jeff Francoz from Ecobee shared Ecobee's priorities for demand response. Ecobee recommends that the IESO keep the current 6 month Commitment Period duration to maintain a level playing field for participants. He stressed that longer Commitment Periods would put Ecobee at a disadvantage. Ecobee also stated that access to meter data is important to enable participation. Ecobee asked if the Ministry of Energy can mandate LDC cooperation for measurement data requests. Ecobee also inquired if they can get access to the MDM/R.

Member Questions and Comments, with the IESO's response in italics:

No comments were provided.

Item 6

Rick Goddard of Rodan presented Rodan's near-term and longer-term priorities for demand response. Near-term recommendations include longer and varied commitment periods, multiple streams of capacity to reflect technical capabilities of resources in a single auction, elimination of virtual zonal DR limits and streamlined administrative processes. Longer-term priorities include focus on Capacity Auction integration.

Member Questions and Comments, with the IESO's response in italics:

No comments were provided.

Item 7

Ryan King of the IESO asked working group members if they had any comments to add.

An attendee noted that demand response's focus has primarily been on reducing system peak. He added that DR can also play a significant role in reducing greenhouse gas emissions and not just in peak reduction.

An attendee suggested that the IESO can create different streams of DR with differing capabilities and allow them to all participate in the DR Auction. Allowing participants different options gives them what they need.

An attendee representing an industrial facility stated that greater liquidity will reduce costs for DR Capacity. The attendee stated that the DR resource shouldn't be too small – at 100kw the impact is immaterial to the system. The attendee also expressed concern about having too many different products competing in the same DR Auction. The key attribute for DR should be flexibility in the resource. The attendee recommended that multiple Commitment Period durations be allowed in the DR Auction. The attendee also recommended the elimination of the Capacity Charge for resources that were offline for the day. Lastly, the attendee stated that the costs of ancillary services created by wind and solar resources should not be charged to load and should be charged to the renewable resources that created them in the first place.

An attendee noted that peaksaver resources have capacity value and can meet HDR resource requirements. He expressed concern that if the IESO delays incorporating peaksaver into the auction, those resources may not be there anymore.

An attendee stated that firm service level should be considered as a baseline methodology.

Item 8

Jason Kwok of the IESO presented the evolution of DR in Ontario and shared the IESO's priorities for DR in the upcoming year including improving the utilization of HDR resources and further integration of residential DR.

Wrap-Up and Next Steps

Ryan King of the IESO thanked all participants and requested that stakeholders submit any questions and feedback by December 16 to engagement@ieso.ca.