

# EXPANDING DR PARTICIPATION IN THE DR AUCTION

Demand Response Working Group  
Meeting #1

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March 29, 2016

# DRWG's Objectives

1. Advise and consult on issues which may impact demand-side participation in the IESO-administered markets
- 2. To advise on the expansion of demand side participation in the DR Auction, including new technologies and sectors.**
3. Ensure that learning and experience of demand resources can be applied to an improved design and features for future auctions and the eventual integration of DR into an incremental capacity auction.

# Objective

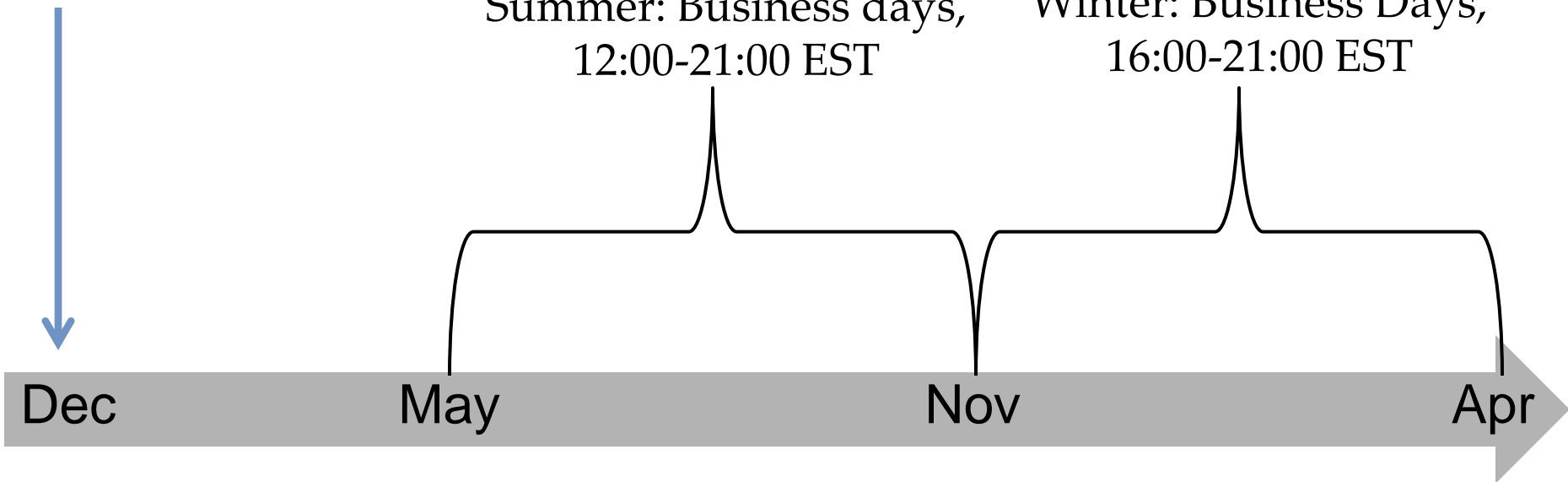
- What are additional technologies and/or sectors capable of meeting existing DR resource capabilities (DL, HDR)
  - How can these resources be integrated into the IESO-administered market to participate in the DR Auction?
  - Are there unnecessary barriers preventing participation?
  - What should be considered for this year's auction versus future years?
- Expanded DR participation helps demand-side resources evolve and improves efficiency of the power system

# DR Auction

Participant submits  
offer to provide DR  
Capacity into DR  
Auction for upcoming  
Summer and Winter  
Commitment Periods

Summer: Business days,  
12:00-21:00 EST

Winter: Business Days,  
16:00-21:00 EST



# DR Capacity Obligations

## Seasonal DR Capacity Obligation

- Must be made available during Availability Window or be subject to Non-Performance Charges

### Dispatchable Load

- Response in 5 min
- Transmission Connected
- 1 MW min resource size
- Must be registered as Wholesale Consumer at the IESO
- Metered by IESO

### Hourly Demand Response

- 4 hour block response
- Historical baseline
- Transmission or Distribution Connected
- May be aggregated within a zone
- 1 MW min resource size
- Participant submits consumption data if not metered by IESO

# Operational Characteristics of HDR

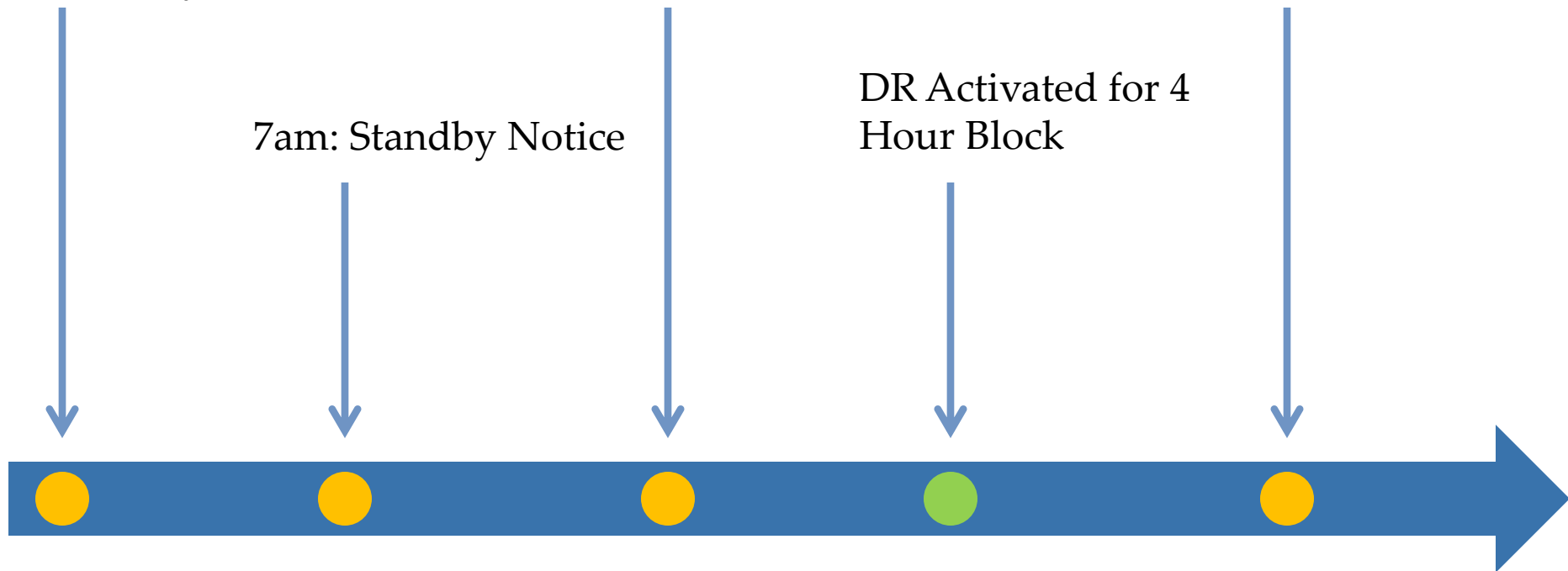
10am DA: DRMP  
Submits Energy Bids for  
Availability Window

7am: Standby Notice

PD – ~2.5 Hours:  
Activation Notice

DR Activated for 4  
Hour Block

Compliance Measured  
Against Historical  
Baseline of Meter Data



# Consultation

- Are there additional technologies and sectors (eg residential) capable of meeting the operational characteristics of Hourly Demand Response resources?
- How is technology for demand response evolving?
- How can we enable these technologies/sectors participating as HDR resources?

# Feedback

- Please send responses to [Engagement@ieso.ca](mailto:Engagement@ieso.ca)