#### **DECEMBER 13, 2022**

Market Renewal Energy Project Implementation | Technical Panel

Interim Alignment Q&A Session #2

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# Agenda

- 1. Recap: Scope of Interim Alignment
- 2. Education on specific Stakeholder concerns
- 3. Next steps



#### Recap: Scope

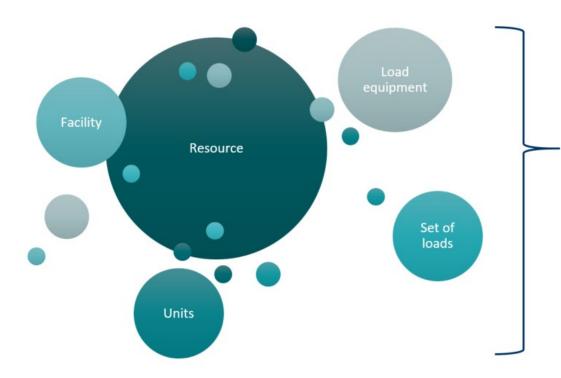
- The core updates within this batch build on three concepts introduced in prior batches:
  - Resource as a defined term
  - Electricity storage facilities within MRP
  - Price Responsive Load (PRL) as a distinct load resource type



# Education on Stakeholder Concerns: Terminology



### New and changing terminology



Confusion on MRP updated term definitions led to belief that IESO blanket replaced terms

→ The IESO reviewed and intentionally updated every instance to ensure correct treatment



# Background: Resource

**Baseline Market Rules** 

 resource obligations are associated with facilities and registered facilities Market Entry and Prudential Market Rules

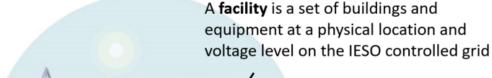
> introduced the defined term: 'resource'

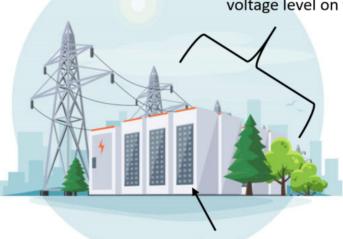
Interim Alignment Market Rules

- extends the application of the defined term resource to additional market rule provisions
- distinguishes the obligations associated with resources from those associated with facilities and equipment



# Review of Terminology: Generation & Electricity Storage







A generating unit or electricity storage unit is a piece of equipment that can create electricity at that facility



A **resource** is an entity in our computer models that represents a set of equipment within the facility for the purposes of market participation



# Generation & Electricity Storage: Example

Ch.5 s.1.3

The **facility** is directed to provide reactive power because the IESO typically doesn't care which unit produces it, only the impact at that facility's connection point to the grid





The **generating unit** or **electricity storage unit** produces the reactive power, so is tested and certified in its ability to do so The **resource** associated with the unit is offering active power – reactive power is not dispatched in the market. Any impact to active power output capability while producing reactive power will impact the resource offers and schedules



# Review of Terminology: Loads

A **load facility** is a set of buildings and equipment at a single physical location and voltage level on the IESO controlled grid

**Load equipment** is a piece of equipment that can consume electricity at that facility

A **set of load equipment** is multiple pieces of equipment that collectively consume electricity at that facility

i.e. the plural of load equipment





# Review of Terminology: Loads (cont'd)







load resource types

A **resource** is an entity in our computer models that represents a set of equipment within the facility for the purposes of market participation

A **non-dispatchable load** is a passive consumer that does not participate in any timeframes of the market

A **price responsive load** is an active consumer in the dayahead market but is a passive consumer in the real-time market

A **dispatchable load** is an active consumer in all timeframes of the market



# Loads: Example

The load facility must meet the appropriate monitoring and communication requirements based on its associated load equipment and resources Is the Load equipment is rated at 20MVA or higher? Is a set of load equipment in aggregate 20MVA or higher?



# Loads: Example (cont'd)

#### Ch.4 Appx s.4.22







Are the associated **resources** exclusively non-dispatchable loads or price responsive loads?

A **non-dispatchable load** is a passive consumer that does not participate in any timeframes of the market

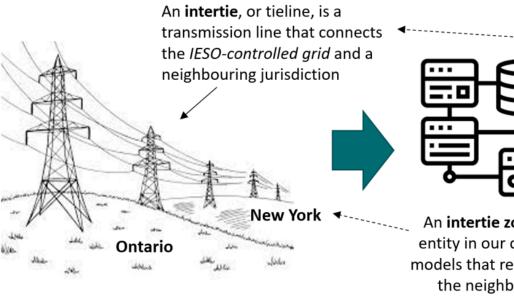
A price responsive load is an active consumer in the dayahead market but is a passive consumer in the real-time market

load resource types

A **dispatchable load** is an active consumer in all timeframes of the market



# Review of Terminology: Boundary Entities



A boundary entity resource is an entity in our computer models that represents an intertie (or set of interties) for the purposes of trading electricity with a neighbor

An **intertie zone** is an entity in our computer models that represents a the neighbouring market

A **boundary entity** is an entity in our computer models that represents <u>all</u> the boundary entity resources for an intertie zone



An intertie, or tieline, has a revenue wholesale meter (RWM) for measuring delivery/withdraw

New York

Ontario



The **intertie zone** that the market participant will deliver to/withdraw from

A market participant is registered to use a **boundary entity resource** for submitting dispatch data i.e. an offer "Source" or bid "Sink"

A market participant is registered to use the **boundary entity** which includes all of its associated boundary entity resources



# **Next Steps**



### **Key Dates**

- Dec 20, 2022: Publish responses to stakeholder feedback, updated market rule amendment packages, and updated market manuals
- **Feb 14, 2023**: Vote to Post on Interim Alignment



#### Thank You

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