

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

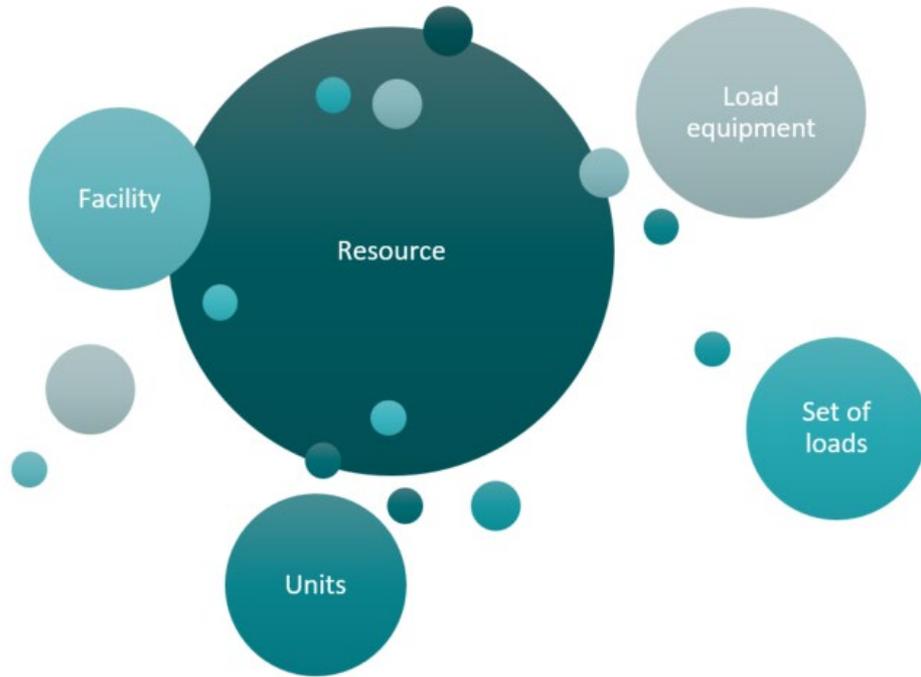
Recap: Scope

- 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



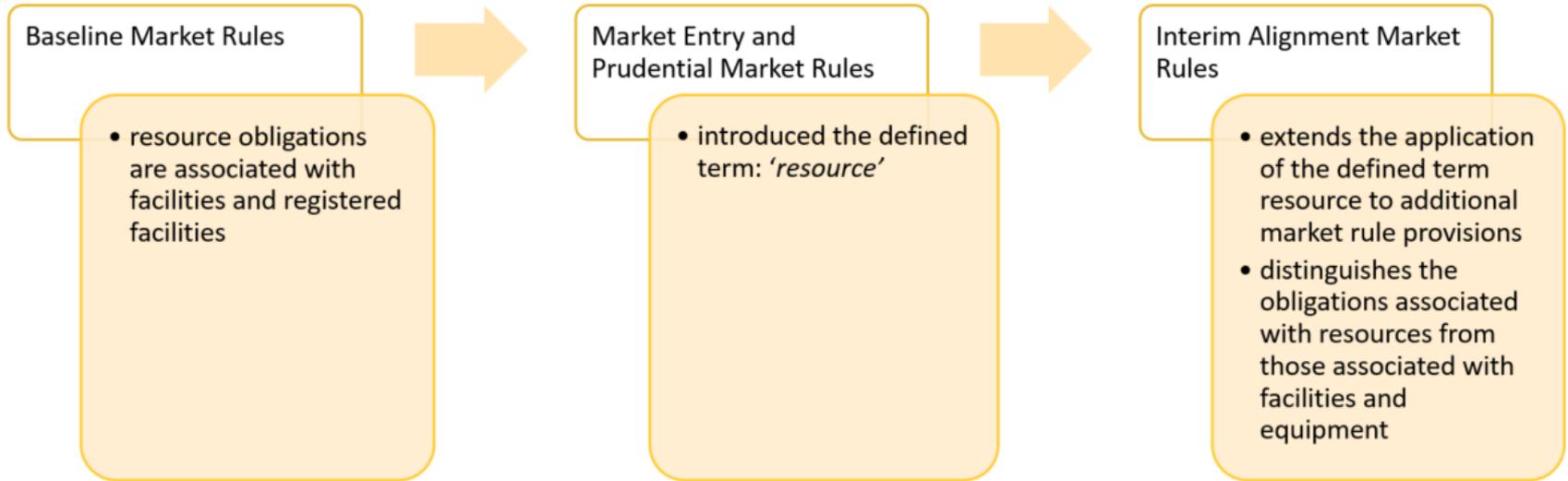
Education on Stakeholder Concerns: Terminology

New and changing terminology

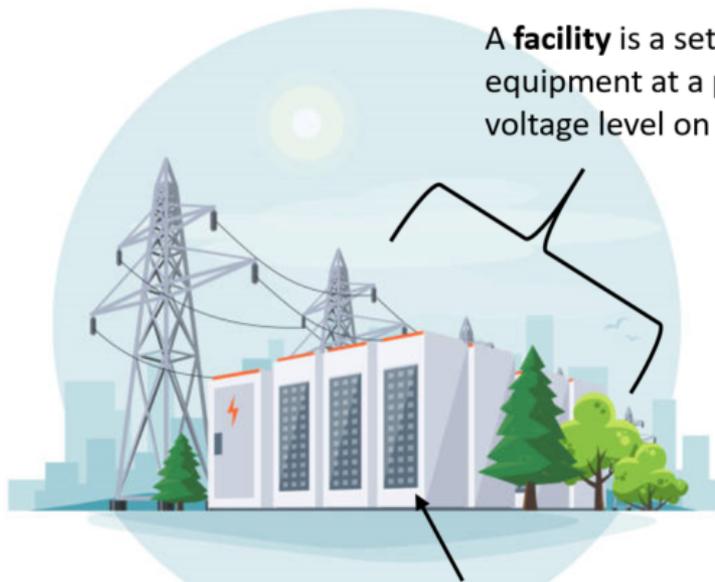


Confusion on MRP updated term definitions led to belief that IESO blanket replaced terms
→ The IESO reviewed and intentionally updated every instance to ensure correct treatment

Background: Resource



Review of Terminology: Generation & Electricity Storage



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

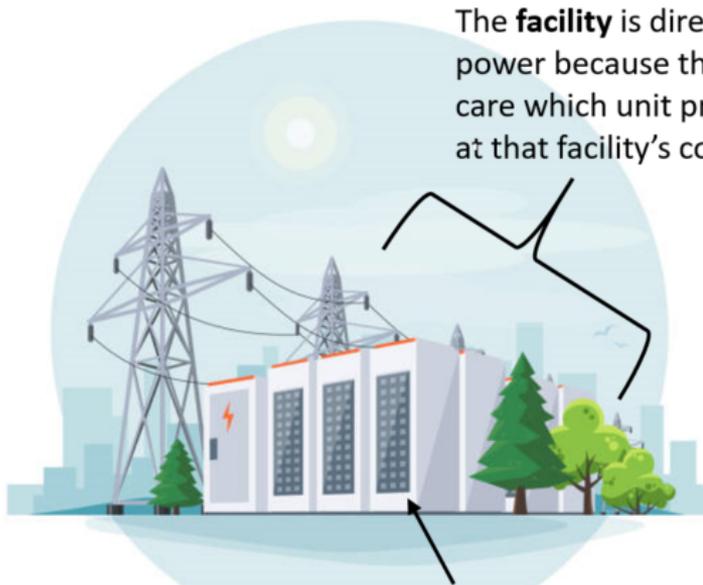
A **generating unit** or **electricity storage unit** is a piece of equipment that can create electricity at that facility



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)



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 day-ahead 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)



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

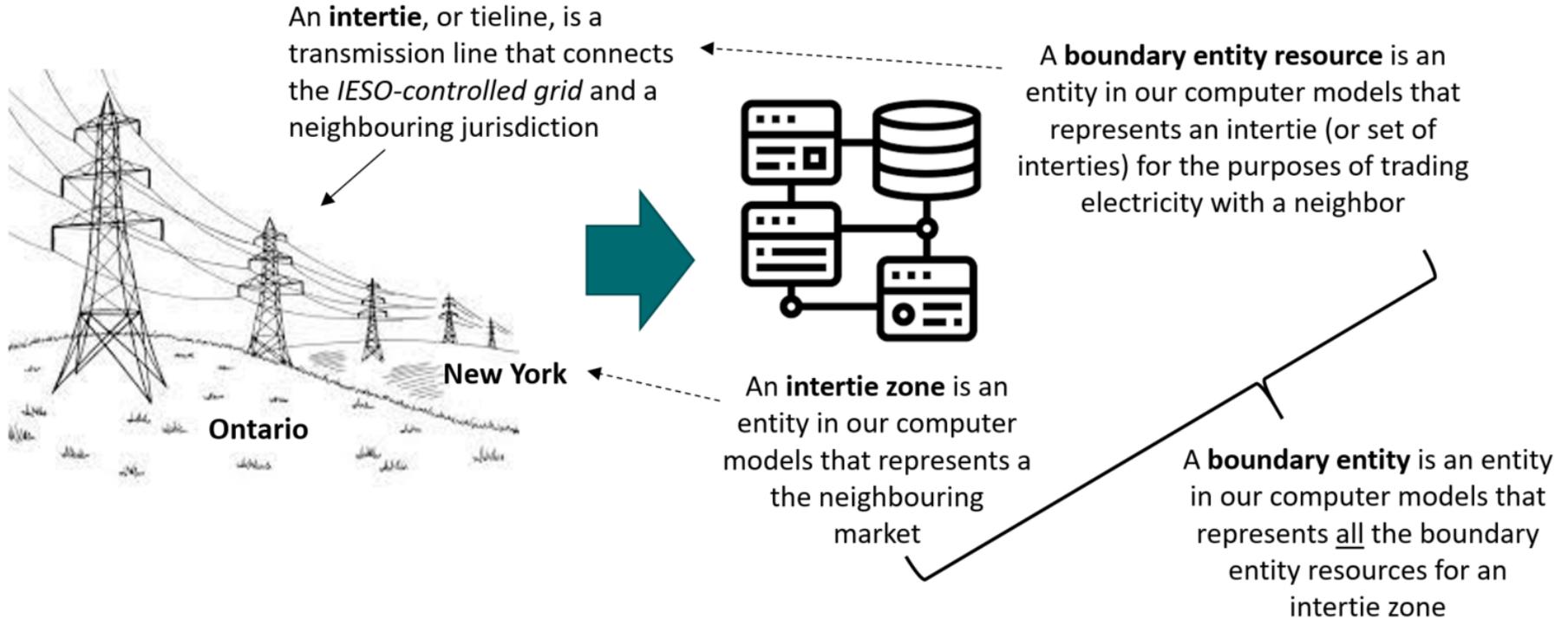
load resource types

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

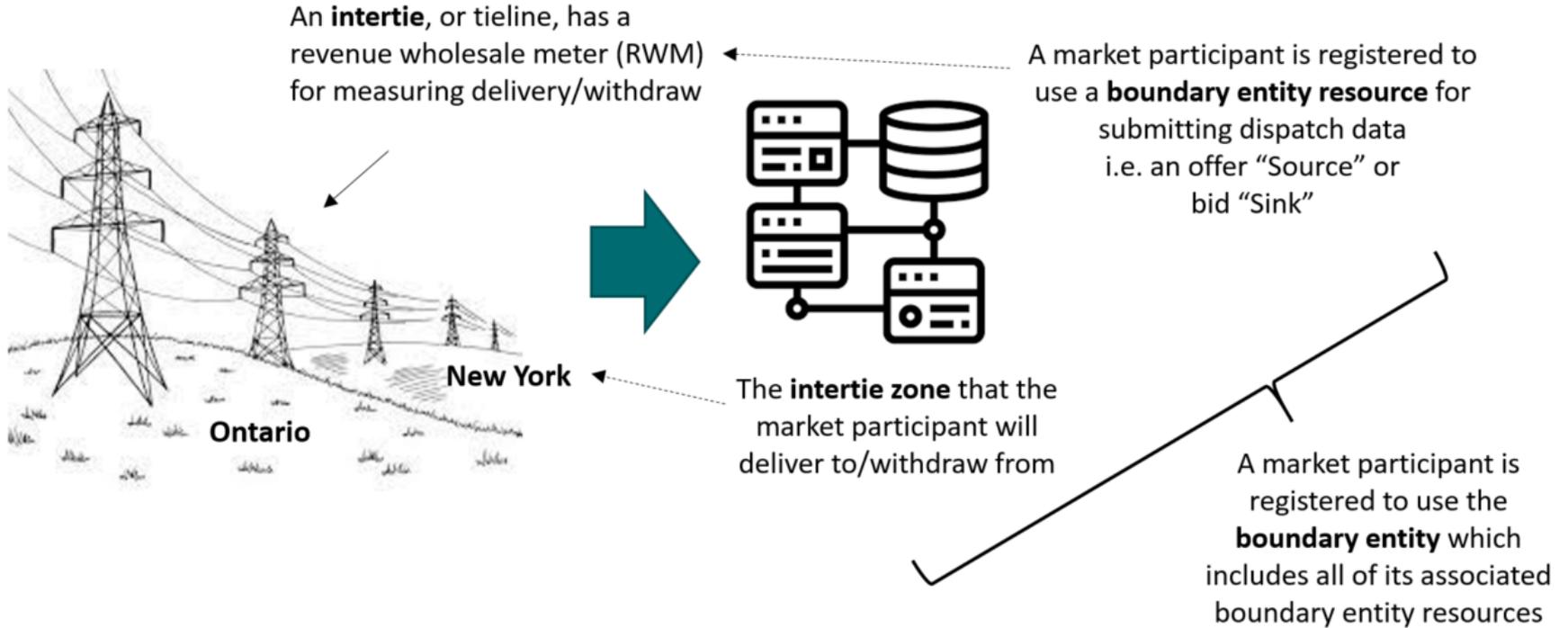
A **price responsive load** is an active consumer in the day-ahead market but is a passive consumer in the real-time market

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

Review of Terminology: Boundary Entities



Boundary Entities: Example





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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