# Demand Resource Disaggregation

WebEx Conference Broadcast

February 3, 2011

# Before We Begin

- Presentation available on the ISO New England (ISO) Web site: Support > Training > Training Materials > Demand Resources
- General WebEx Usage
  - Questions & Answers
  - Interactivity
- Evaluation
- Questions & Answers

## Disclaimer for Market Training

ISO New England provides training to advance participant and stakeholder understanding of the New England Markets.

Since not all issues and requirements are addressed by the training, participants and other stakeholders should not rely solely on this training for information but should consult the effective Markets, Services and Transmission Tariff ("Tariff"), and the relevant Market Manuals, Operating Procedures and Planning Procedures ("Procedures").

In case of a discrepancy between training provided by ISO and the Tariff or Procedures, the meaning of the Tariff and Procedures shall govern.

# Session Details

- Today's presenter is Kirk Merriam.

Company names and numerical values
are to be considered fictitious and are not to be
associated with any actual market customer.

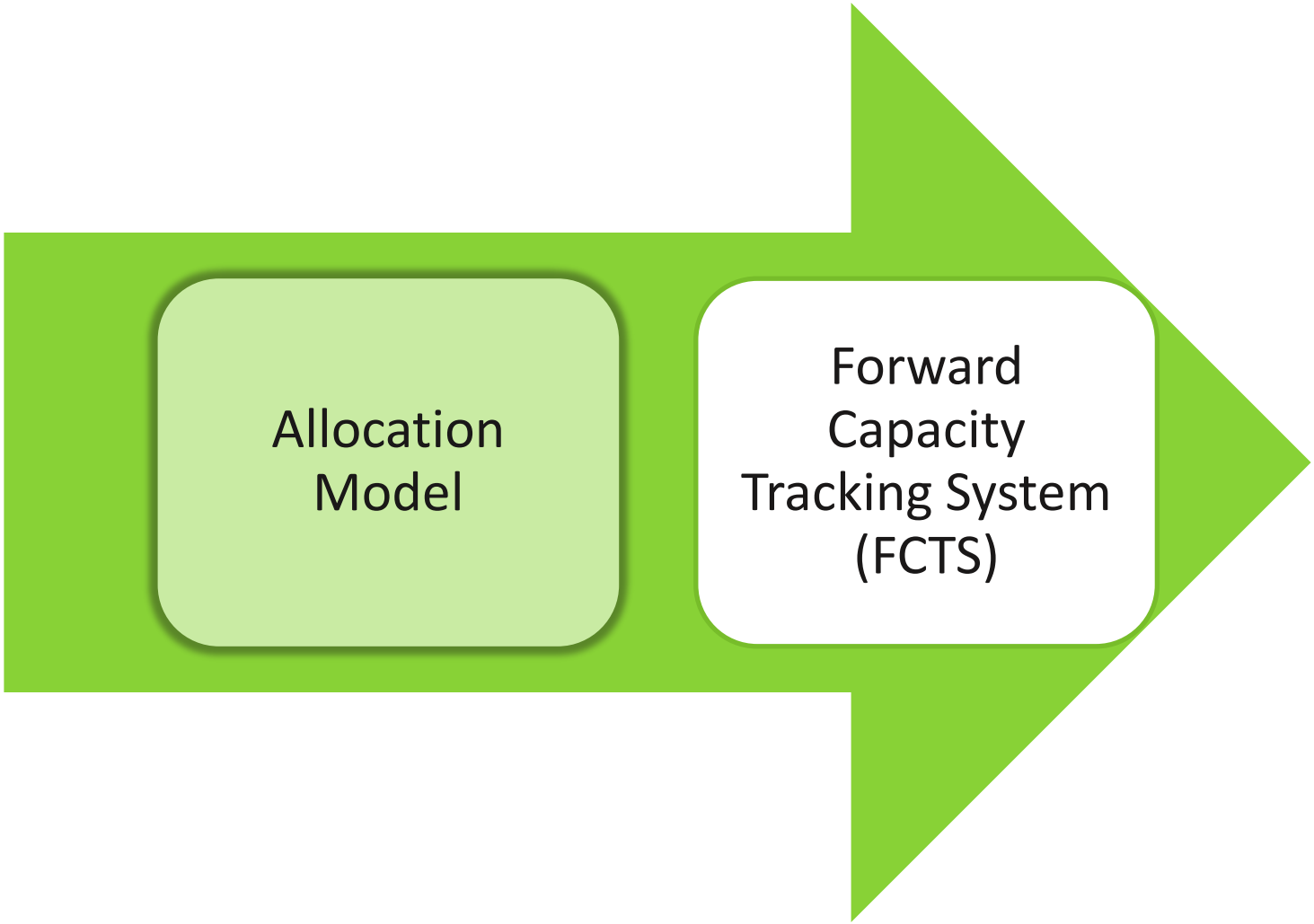
# Course Objective

- This WebEx is designed to review the allocation model to be distributed to each Lead Market participant (LP) with at least one active demand resource so that each LP understands the content of the model and information that must be provided to the ISO in order to effect the disaggregation of active demand resources (DRs).
  - Additional information will also be provided with regard to the associated impacts to the Forward Capacity Tracking System (FCTS).

# Course Goals

- At the completion of this WebEx you will…
  - Understand how to complete the allocation model
  - Understand the impacts to FCTS

# Outline



# Allocation Model

*Background – Market Rule 1 (MR1)*

- Market Rule 1 requires disaggregation (split) of active DRs to Dispatch Zones (DZ) by the start of second Capacity Commitment Period (CCP).
- Relevant MR Sections:
  - RTDR - III.13.1.4.6.2.1.
  - RTEG - III.13.1.4.6.2.2.

# Allocation Model

*Background – Aggregation*

- Aggregation (merge) of commercial and non-commercial DRs can be accommodated for the second CCP.
  - Larger portfolio of demand assets backing each demand resource facilitates partial dispatch of DRs and supports LP strategies to address frequency of customer activations and fatigue.
  - LPs **may not** have the ability to merge their DRs in the future (there are no MR1 provisions to revisit this split/merge beyond this effort).

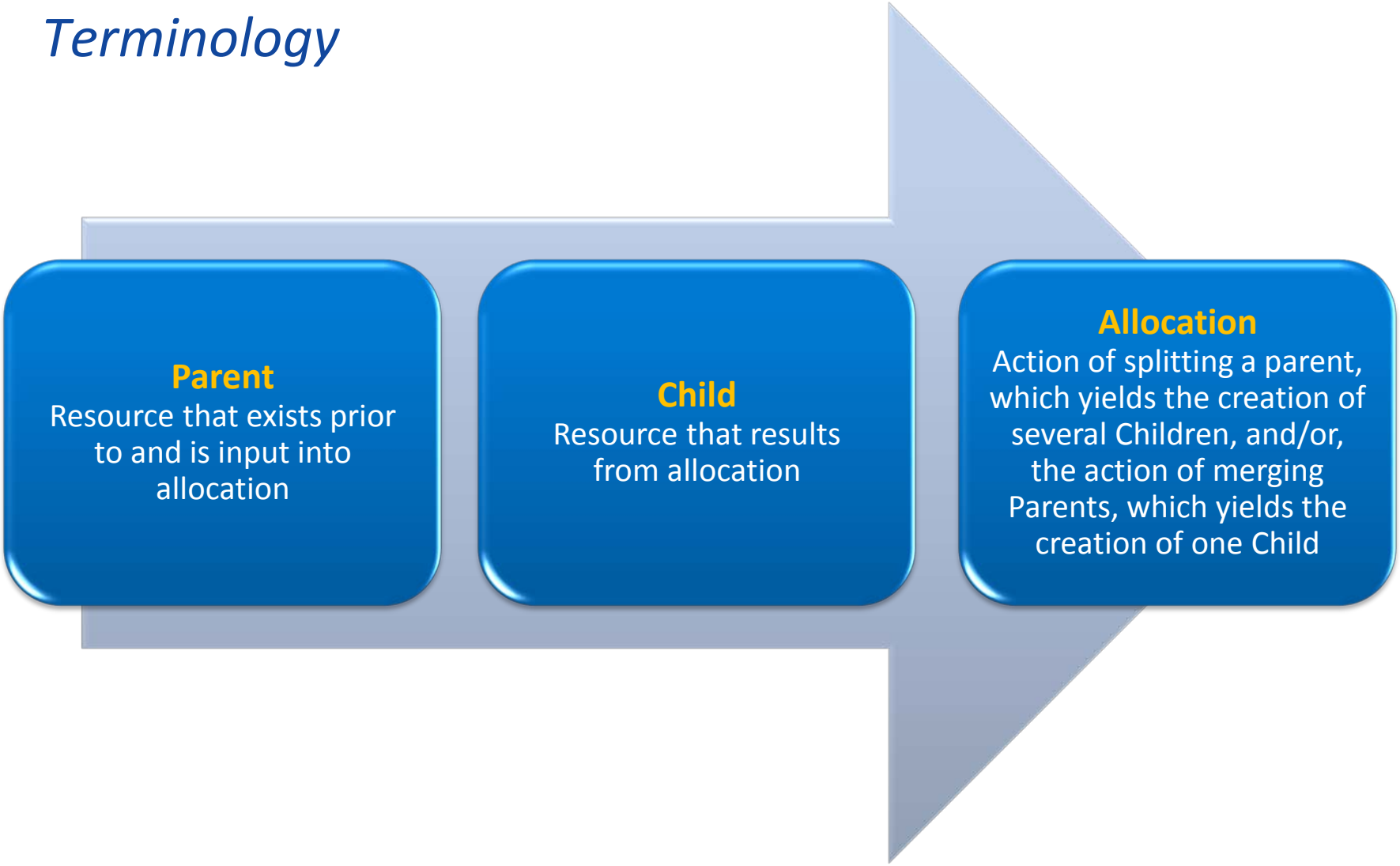
# Allocation Model

## *Background – Model Purpose & Software Requirement*

- Model Purpose
  - LP to communicate to the ISO how resources and relevant data associated with their Permanent De-List Bids (PDBs), proposals, and Critical Path Schedules (CPS) should be assigned to DZ.

# Allocation Model

*Terminology*

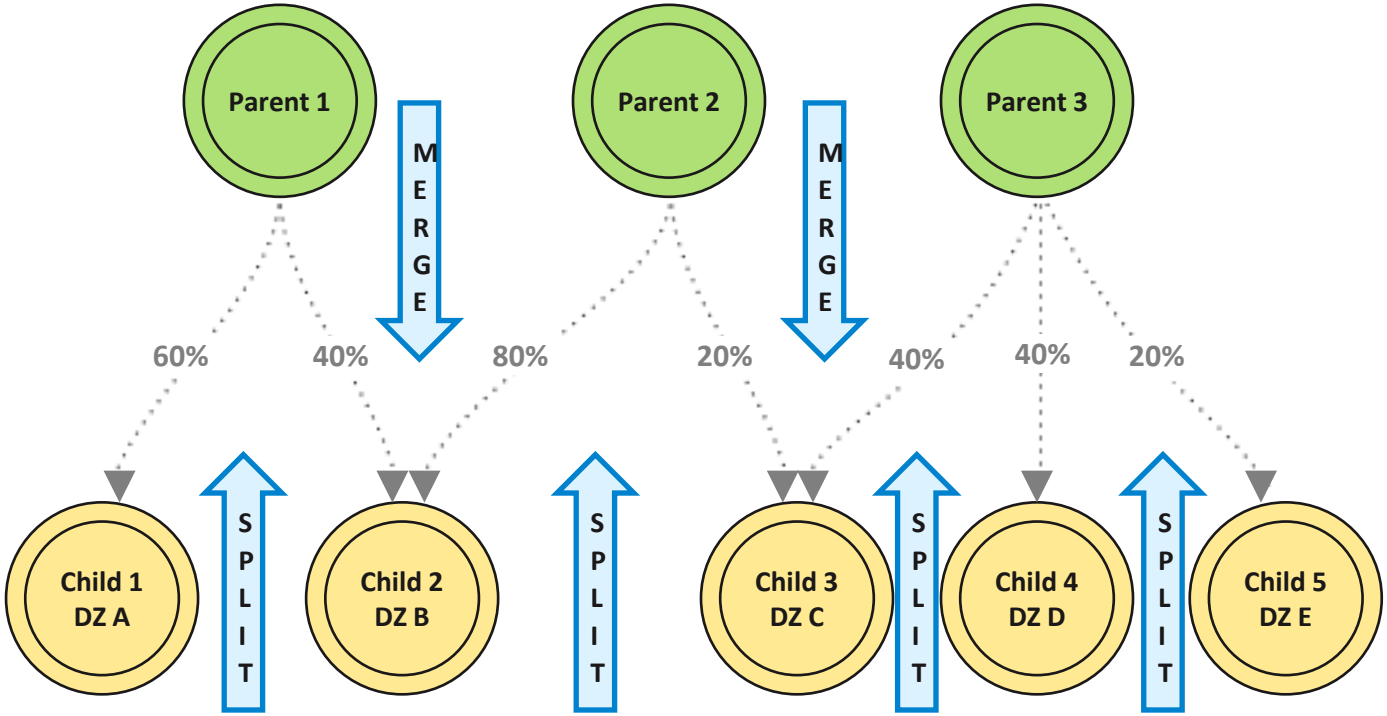


# Allocation Model

## *Split and Merge Depicted*

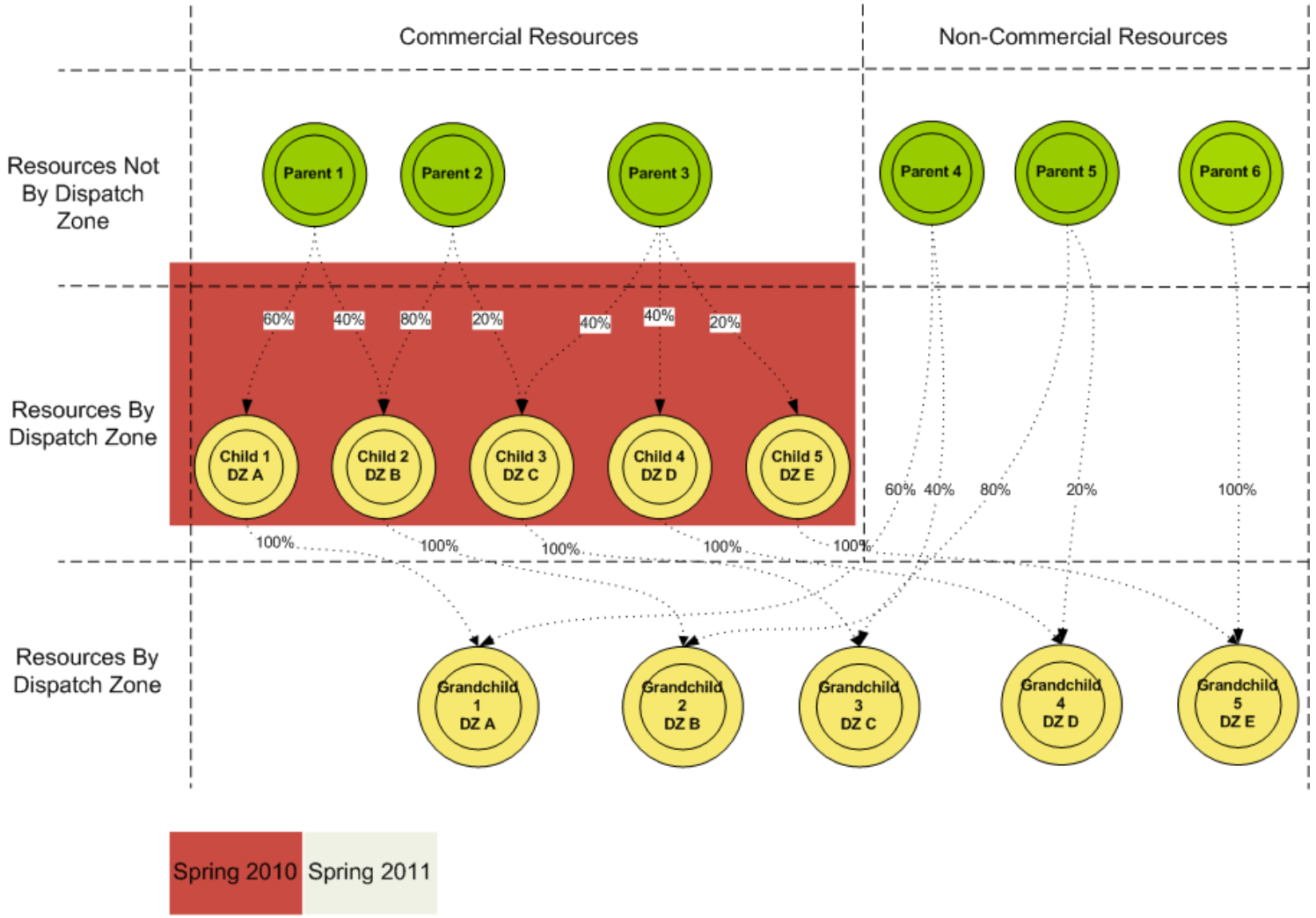
Resources Not by Dispatch Zone

Resources by Dispatch Zone



# Allocation Model

## *Split and Merge Depicted*



# Allocation Model

*Factors Explained*

- Non-Show of Interest (SOI) Factor
  - Defined by resource which is used to allocate capacity that did not enter the Forward Capacity Market (FCM) through an SOI.
  - Example: Resources that were created as a result of a Load Response Program asset
- SOI Factor
  - Defined by SOI, which is used to allocate relevant proposal and CPS data related to the SOI
  - Factors must be provided for SOIs that either cleared or had CPS monitoring elected.
- De-List Bid Factor
  - Defined by de-list bid, which is used to allocate the given de-list bid
  - Only PDBs are applicable.

# Allocation Model

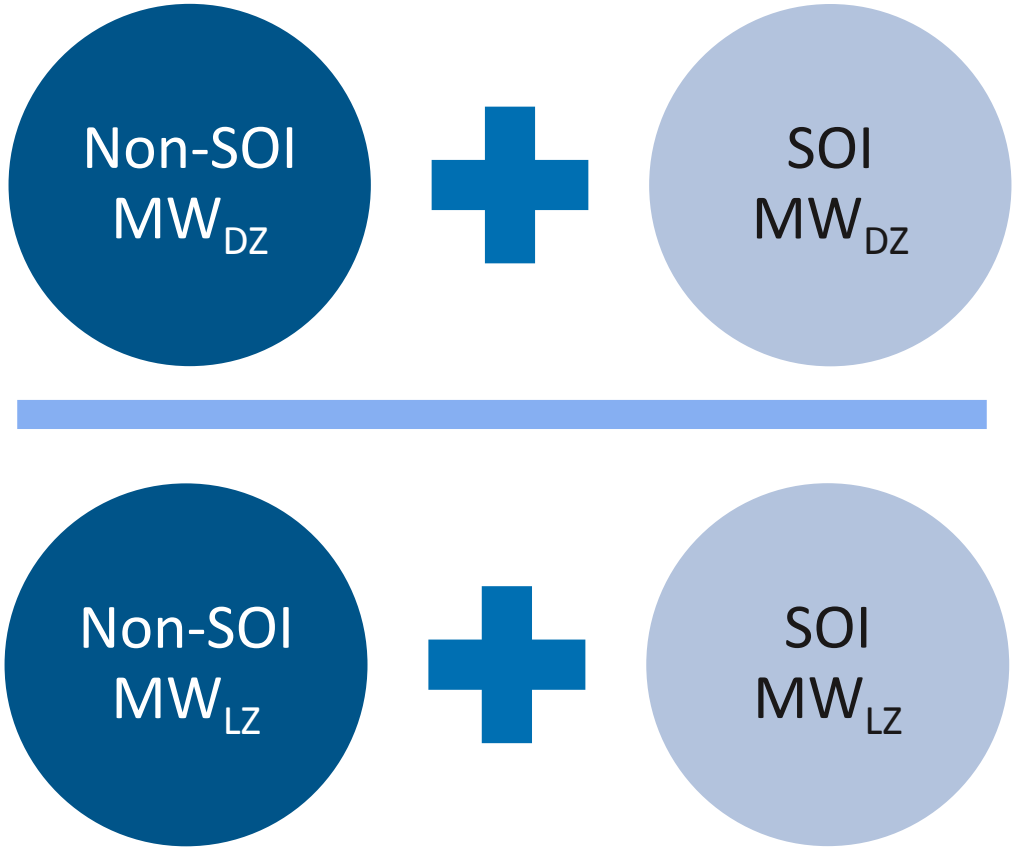
## *Resource Factor*

- Defined by resource and CCP, which is calculated by the model using Non-SOI and SOI data
- Used to allocate:
  - Quantitative resource attributes (e.g., Existing Capacity Max MW)
  - Capacity Supply Obligations (CSO)
  - Future qualification calculation input data

Non-SOI MW and SOI MW values are included for all CCPs up through, and including, the given CCP that the Resource Factor is being calculated for.

# Allocation Model

## *Resource Factor Calculation*




Non-SOI MW and SOI MW values are included for all CCPs up through, and including, the given CCP that the Resource Factor is being calculated for.

# Allocation Model

*Factor Example: Capacity Commitment Period 1*

- Existing resource qualified at 10 MW
  - Capacity not proposed via SOI
- Non-SOI Factor = 50% to DZ A and 50% to DZ B

| | DZ A | DZ B |
|---|---|---|
| Non-SOI MWs | 5 MW (50%) | 5 MW (50%) |
| Total | 5 MW | 5 MW |
| **Resource Factor** | **5/10 = 50%** | **5/10 = 50%** |

# Allocation Model

*Factor Example: Capacity Commitment Period 2*

- Same resource, 10 MW increment
- SOI Factor = 0% to DZ A and 100% to DZ B

| | DZ A | DZ B |
|---|---|---|
| Non-SOI MWs | 5 MW (50%) | 5 MW (50%) |
| SOI MWs (New Increment) | 0 MW (0%) | 10 MW (100%) |
| Total | 5 MW | 15 MW |
| **Resource Factor** | **5/20 = 25%** | **15/20 = 75%** |

# Allocation Model

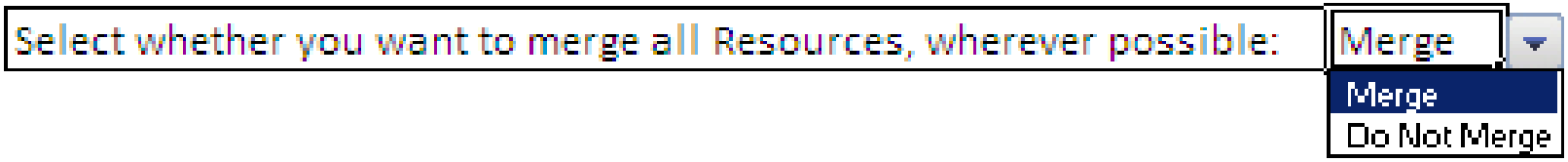
*Contents*

| Tab Names | Tab Description |
|---|---|
| Instr & Elect | Instructions link and merge election |
| In - No SOI - No DZ | Input – No associated SOI and no DZ assignment |
| In - SOI - No DZ | Input – SOI, but no DZ assignment |
| In - De-List Bids - No DZ | Input – De-list bids |
| In – CSO by DZ | Input – CSO for resources already defined by DZ |
| In - Asset Data | Input – Asset Data |
| In - Adv Proj Alloc | Input – Advisory Project allocation factors |
| Result - CSO (No Merge) | Result – CSO allocation with no merging |
| Result - CSO (Merge) | Result – CSO allocation with merging |

# Allocation Model

## *Merge Election Selections*

From the drop-down, elect either “Merge” or “Do Not Merge.”



# Allocation Model

*Instructions Link and Merge Election*

- Merge Election
  - Children in the model will be merged wherever DZ assignments are the same **and** DR types are the same.
- Resources with DR type changes are only permitted to merge with other resources with like DR type changes.
- Do Not Merge Election
  - Children in the model will be kept separate.
- Includes link to this training presentation

# Allocation Model

## *Input – No Associated SOI and No DZ Assignment*

Capacity That Did Not Qualify Via an SOI

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | Effective CCP ID | FCA QC MW (DRV, Pre-Prorated) | Advisory Allocation Method |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 1 | 1 | 10.000 | Across DZ(s) |

- LP does not enter any data in these columns.
- Record for each resource that did not qualify via an SOI and does not have a DZ assignment

# Allocation Model

## *Input – No Associated SOI and No DZ Assignment (cont.)*

**FCA CCP**
First CCP in which the given resource qualified.

**FCA Qualified Capacity (QC)**
Pre-prorated, Demand Reduction Value (DRV) QC MW

Capacity That Did Not Qualify Via an SOI

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zo | FCA CCP ID | Effective CCP ID | FCA QC MW (DRV, Pre-Prorated) |
|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | | | |

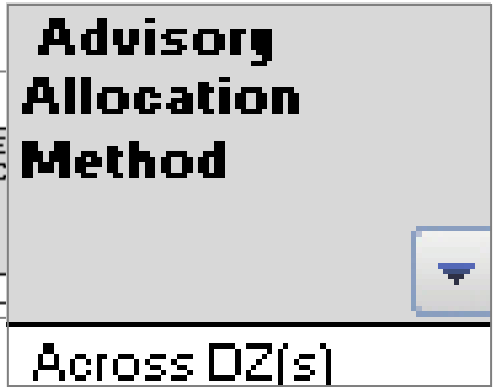
**Effective CCP**
First CCP for which the given resource was available to provide capacity (for these resources, always CCP 1)

# Allocation Model

## *Input – No Associated SOI and No DZ Assignment (cont.)*

Capacity That Did Not Qualify Via an SOI

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | E C |
|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 1 | |



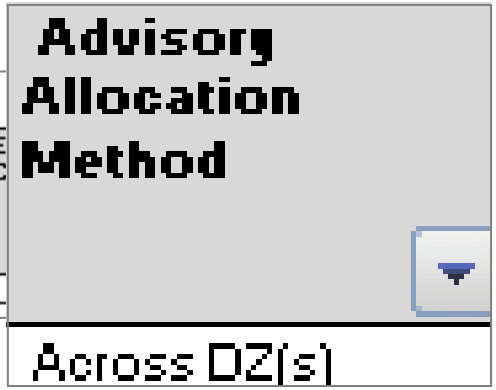

- *Advisory Allocation Method* column
  - Informational; provides methodology used to derive the advisory allocation factors.

# Allocation Model

## *Input – No Associated SOI and No DZ Assignment (cont.)*

Capacity That Did Not Qualify Via an SOI

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | E C |
|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 1 | |




- Advisory allocation factors are determined as follows:
  1. If at least one asset is mapped to it, the DZ(s) of the currently mapped asset(s), weighted as follows:
     - If Summer Claimed Capability < 20% of Maximum Interruptible Capacity (MIC), then use 80% of the MIC.
     - Else, use Summer Claimed Capability.
  2. Else, evenly distribute across all DZs in the LZ.

# Allocation Model

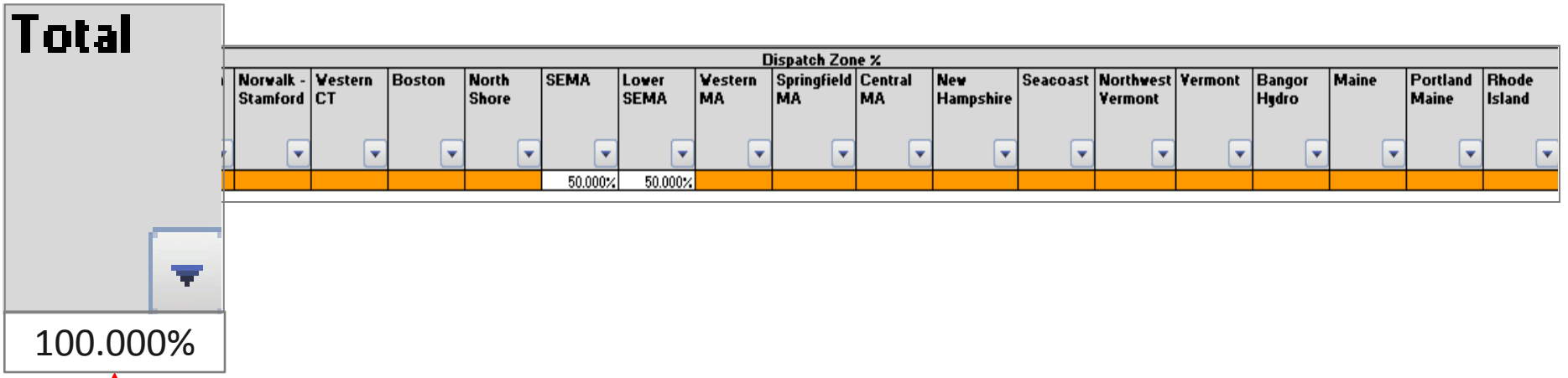
## *Input – No Associated SOI and No DZ Assignment (cont.)*

| | Dispatch Zone % | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| 100.000% | | | | | | | 50.000% | 50.000% | | | | | | | | | | | |

- Advisory Non-SOI Factors are provided in the *Dispatch Zone %* columns but must be overwritten by LP, if desired.
  - To do so, select the given cell, then type in the correct factor.
    - For example, if an advisory allocation factor is 50% for a given DZ, but 40% is desired, select the cell, then type 40.
    - Allowable precision to the one thousandth of a percentage point
- Resources that have only had winter QC will have advisory allocation factors = 0% to each DZ. They'll need to be overwritten with actual allocation factors.

# Allocation Model

## *Input – No Associated SOI and No DZ Assignment (cont.)*



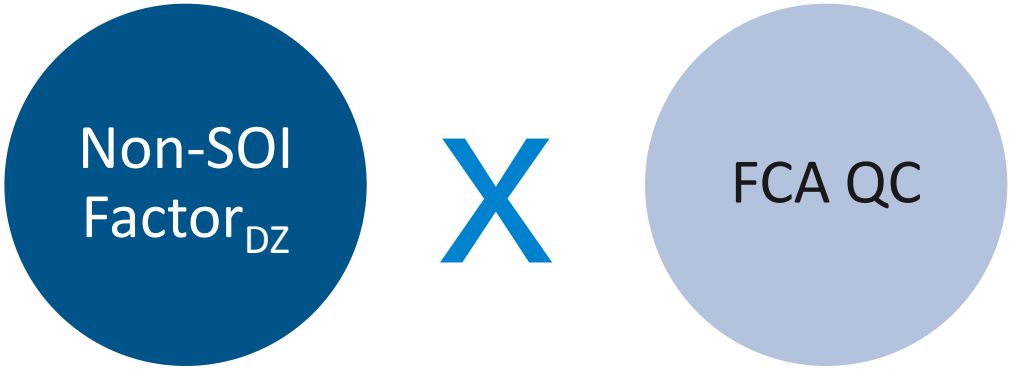

- Model prevents entering factors for DZs that are not within the resource's LZ.
- LP must verify that the *Total* column = 100%; cell turns yellow if < 100% and red if > 100%.

# Allocation Model

## *Input – No Associated SOI and No DZ Assignment (cont.)*

| FCA Qualified Capacity MW Allocation to Dispatch Zone | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| . | . | . | . | . | . | 5.000 | 5.000 | . | . | . | . | . | . | . | . | . | . | . |

- LP does not enter any data in these columns.
- Displays *FCA Qualified Capacity MW Allocation to Dispatch Zone*
- Calculation:



# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment*

Proposal Allocation (For SOIs submitted on Resources that were not already defined at the DZ level)

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | Effective CCP ID | Project ID | Proposal ID | CPS ID | Project Type | CSO Type | FCA CSO MW (DRY, Pre-Prorated) | Original On Monitoring MW (DRY, Pre-Prorated) | FCA QC MW (DRY) (For CP 5 SOIs) | Total MW | Advisory Allocation Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 2 | 2 | 10 | 10 | 5 | EXISTING DR | NCO | 10.000 | - | - | 10.000 | Across DZ(s) |

- LP does not enter any data in these columns.
- Record for each SOI associated with a resource that does not have a DZ assignment

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

**Effective CCP**
First earlier of the FCA CCP, Proposed Commercial Operation Date (CODp) CCP, Actual COD (CODa) CCP

**FCA CSO**
Pre-prorated, Demand Reduction Value (DRV) CSO MW

Proposal Allocation (For SOIs submitted on Resources that were not already defined at the DZ level)

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Nam | FCA CCP ID | Effective CCP ID | ect | Proposal ID | CPS ID | Project Type | CSO T | FCA CSO MW (DRV, Pre-Prorated) | Original On Monitoring MW (DRV, Pre-Prorated) | Total MW | Advisory Allocation Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 2 | 2 | 10 | 10 | 5 | EXISTING DR | NCO | 10.000 | - | 10.000 | Across DZ(s) |

**FCA CCP**
First CCP in which the given resource qualified

**Original On-Monitoring MW**
Pre-prorated, DRV MW; quantity of FCA QC MW that exceeds FCA CSO MW; only applicable when CPS monitoring is elected

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

Proposal Allocation (For SOIs submitted on Resources that were not already defined at the DZ level)

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | Effective CCP ID | Project ID | Proposal ID | CPS ID | Project Type | CSO Type | FCA CSO MW (DRV, Pre-Prorated) | Original On Monitoring MW (DRV, Pre-Prorated) | FCA QC MW (DRV) (For CP 5 SOIs) | Total MW | Advisory Allocation Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 2 | 2 | 10 | 10 | 5 | EXISTING DR | NCO | 10.000 | - | - | 10.000 | Across DZ(s) |

- CCP 5 FCA QC MW
  - Pre-prorated, DRV FCA QC MW
  - Only populated for CCP 5 SOIs
- LP must consider that SOIs for CCP 5 have not cleared yet.
  - Even if an SOI does not clear in full, or does not elect CPS monitoring, the weighting of that SOI on the Resource Factor for CCP 5 will be based on the SOI's **full Qualified MW**.

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

Proposal Allocation (For SOIs submitted on Resources that were not already defined at the DZ level)

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | Effective CCP ID | Project ID | Proposal ID | CPS ID | Project Type | CSO Type | FCA CSO MW (DRY, Pre-Prorated) | Original On Monitoring MW (DRY, Pre-Prorated) | FCA QC MW (DRY) (For CP 5 SOIs) | Total MW | Advisory Allocation Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 2 | 2 | 10 | 10 | 5 | EXISTING DR | NCO | 10.000 | - | - | 10.000 | Across DZ(s) |

- Example:
  - SOI for CCP 1 for 10 MW which is allocated 100% to the **lower SEMA** DZ
    - As a result, the Resource Factor for CCPs 1 through 4 is 100% to the lower SEMA DZ.
  - Approved SOI for CCP 5 for 10 MW:
    SOI Factor = 100% to the **SEMA** DZ
  - Resource Factor for CCP 5 =
    50% to the lower SEMA DZ and 50% to the SEMA DZ

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

Proposal Allocation (For SOIs submitted on Resources that were not already defined at the DZ level)

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | Effective CCP ID | Project ID | Proposal ID | CPS ID | Project Type | CSO Type | FCA CSO MW (DRY, Pre-Prorated) | Original On Monitoring MW (DRY, Pre-Prorated) | FCA QC MW (DRY) (For CP 5 SOIs) | Total MW | Advisory Allocation Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 2 | 2 | 10 | 10 | 5 | EXISTING DR | NCO | 10.000 | - | - | 10.000 | Across DZ(s) |

- Consider:
  - If the SOI for CCP 5 **does not clear and did not elect CPS monitoring**, 50% of the Parent's quantitative attributes (for CP 5 and beyond), CSO (for CP 5), and future Qualification calculation input data (for CP 5 and beyond), will still go to the **Child in the SEMA DZ** and the other 50% will go to the Child in the lower SEMA DZ.

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

Proposal Allocation (For SOIs submitted on Resources that were not already defined at the DZ level)

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | Effective CCP ID | Project ID | Proposal ID | CPS ID | Project Type | CSO Type | FCA CSO MW (DRY, Pre-Prorated) | Origi On Moni MW ( Pre-Prora | Total MW | Advisory Allocation Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 2 | 2 | 10 | 10 | 5 | EXISTING DR | NCO | 10.000 | | 10.000 | Across DZ(s) |

**Total MW**
Final quantity allocated to DZ.

- **For CCPs 1-4:**
  FCA CSO MW + Original On-Monitoring MW
- **For CCP 5:**
  CCP 5 FCA QC MW

**Advisory Allocation Method:**
Informational; provides methodology used to derive the advisory allocation factors

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

Proposal Allocation (For SOIs submitted on Resources that were not already defined at the DZ level)

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | Load Zone ID | Load Zone Name | FCA CCP ID | Effective CCP ID | Project ID | Proposal ID | CPS ID | Project Type | CSO Type | FCA CSO MW (DRY, Pre-Prorated) | Original On Monitoring MW (DRY, Pre-Prorated) | FCA QC MW (DRY) (For CP 5 SOIs) | Total MW | Advisory Allocation Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG | 4006 | SEMA | 2 | 2 | 10 | 10 | 5 | EXISTING DR | NCO | 10.000 | - | - | 10.000 | Across DZ(s) |

- Advisory allocation factors are determined as follows:
  1. If the associated LP provided a non-binding DZ(s) assignment(s), this non-binding DZ assignment(s) is used (these were submitted for CCPs 3 thru 5).
  2. If at least one asset is mapped to it, the DZ(s) of the currently mapped asset(s) is weighted as follows:
     - If Summer Claimed Capability < 20% of Maximum Interruptible Capacity (MIC), then use 80% of the MIC
     - Else, use Summer Claimed Capability.
  3. Else, evenly distribute across all DZs in the Load Zone (LZ).

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

| | Dispatch Zone % | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| 100.000% | | | | | | | 0.000% | 100.000% | | | | | | | | | | | |

- Advisory SOI Factors are provided in the *Dispatch Zone %* columns, but must be overwritten by LP, if desired.
  - Allowable precision to the one thousandth of a percentage point
- Resources that have only had winter QC will have advisory allocation factors = 0% to each DZ. They'll need to be overwritten with actual allocation factors.

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

| | Dispatch Zone % | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| 100.000% | | | | | | | 0.000% | 100.000% | | | | | | | | | | | |

- Model prevents entering factors for DZs that are not within the resource's LZ.
- LP must verify that the *Total* column = 100%; cell turns yellow if < 100% and red if > 100%.

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*

**FCA CSO MW Allocation to Dispatch Zone**

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | 10.000 | - | - | - | - | - | - | - | - | - | - | - |

**Monitored MW Allocation to Dispatch Zone**

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**FCA Qualified Capacity MW for CP 5 Allocation to Dispatch Zone**

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

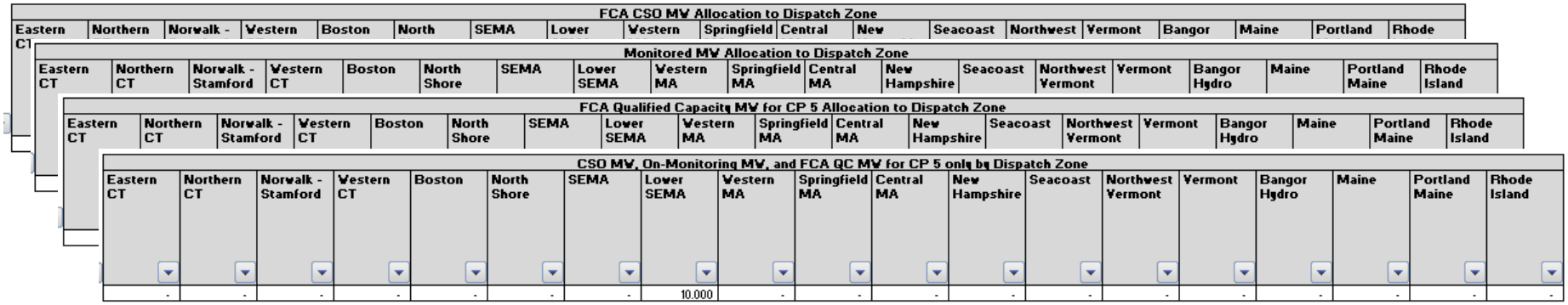
**CSO MW, On-Monitoring MW, and FCA QC MW for CP 5 only by Dispatch Zone**

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | 10.000 | - | - | - | - | - | - | - | - | - | - | - |

LP does not enter any data in these columns.

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*



FCA CSO MW Allocation to Dispatch Zone

| Eastern CT | Northern | Norwalk - | Western | Boston | North | SEMA | Lower | Western | Springfield | Central | New | Seacoast | Northwest | Vermont | Bangor | Maine | Portland | Rhode |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Monitored MW Allocation to Dispatch Zone

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

FCA Qualified Capacity MW for CP 5 Allocation to Dispatch Zone

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

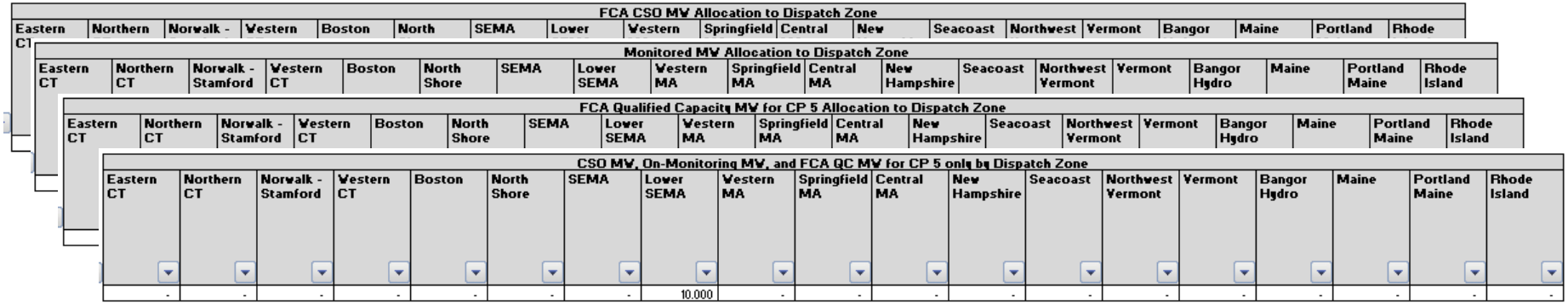
CSO MW, On-Monitoring MW, and FCA QC MW for CP 5 only by Dispatch Zone

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | 10.000 | - | - | - | - | - | - | - | - | - | - | - |

- Displays allocated data elements:
  - FCA CSO MW Allocation to Dispatch Zone,
  - Monitored MW Allocation to Dispatch Zone,
  - FCA Qualified Capacity MW for CP5 Allocation to Dispatch Zone, and
  - Total MW Allocation to Dispatch Zone.
  - Total MW is calculated as:
    - For CPs 1-4: FCA CSO MW + Monitored MW
    - For CP 5: FCA Qualified Capacity MW

# Allocation Model

## *Input – SOI, but No Dispatch Zone Assignment (cont.)*



FCA CSO MW Allocation to Dispatch Zone

| Eastern CT | Northern | Norwalk - | Western | Boston | North | SEMA | Lower | Western | Springfield | Central | New | Seacoast | Northwest | Vermont | Bangor | Maine | Portland | Rhode |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Monitored MW Allocation to Dispatch Zone

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

FCA Qualified Capacity MW for CP 5 Allocation to Dispatch Zone

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

CSO MW, On-Monitoring MW, and FCA QC MW for CP 5 only by Dispatch Zone

| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - | 10.000 | - | - | - | - | - | - | - | - | - | - | - |

## Calculation:

SOI Factor$_{DZ}$ X <Data Element>

# Allocation Model

## *Input – De-List Bids*

Cleared Administrative Export, Export, and Permanent De-List Bid Allocation

| Customer ID | Parent Resource ID | Parent Resource Name | Load Zone ID | Load Zone Name | CP ID | De-List Bid ID | De-List Bid Type | De-List Bid Segment | De-List Bid MW (DRV, Pre-Prorated) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | 4006 | SEMA | 4 | 250 | Permanent | 1 | -20 |

- LP does not enter any data in these columns
- Includes only PDBs
- De-List Bid MW (DRV, Pre-Prorated), DRV De-List Bid Quantity MW
  - De-list bid quantity is the quantity **removed** from the FCM, not the quantity remaining.

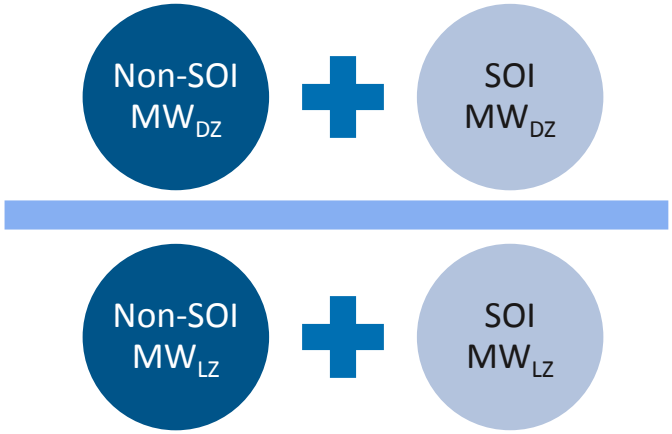
# Allocation Model

## *Input – De-List Bids (cont.)*

Cleared Administrative Export, Export, and Permanent De-List Bid Allocation

| Customer ID | Parent Resource ID | Parent Resource Name | Load Zone ID | Load Zone Name | CP ID | De-List Bid ID | De-List Bid Type | De-List Bid Segment | De-List Bid MW (DRY, Pre-Prorated) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | 4006 | SEMA | 4 | 250 | Permanent | 1 | -20 |

- Advisory allocation factors are determined as follows:
  (for instance, Resource Factor for the CCP that the de-list bid applies to)



# Allocation Model

*Input – De-List Bids (cont.)*

| | Dispatch Zone % | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |

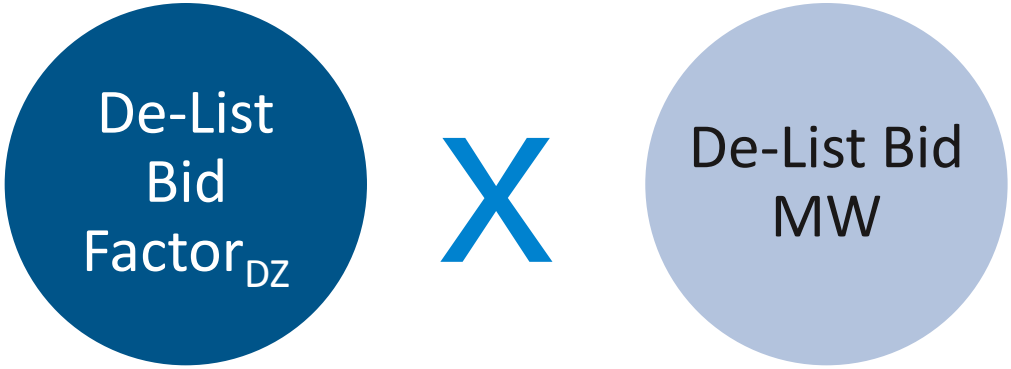
- Advisory De-List Bid Factors are provided in *Dispatch Zone %* columns, but must be overwritten by LP, if desired.
  - Allowable precision to the one thousandth of a percentage point.
- Model prevents entering factors for DZs that are not within the resource's LZ.
- LP must verify that the *Total* column = 100%, cell turns yellow if < 100% and red if > 100%.

# Allocation Model

## *Input – De-List Bids (cont.)*

| Cleared Administrative Export Bid, Export Bid and Permanent De-List Bid MW Allocation to Dispatch Zone | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -5.000 | -15.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

- LP does not enter any data in these columns.
- Calculation:



# Allocation Model

## *Input – De-List Bids (cont.)*

| Cleared Administrative Export Bid, Export Bid and Permanent De-List Bid MW Allocation to Dispatch Zone | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -5.000 | -15.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

- Example:
  - If the resource in the SEMA Load Zone has a Resource Factor in CCP 4 of 100% to the **lower SEMA DZ**, a positive De-List Bid Factor to the **SEMA** DZ would be inappropriate
    - Should be **100%** to the **lower SEMA DZ**.

# Allocation Model

## *Input – CSO for Resources Already Defined by DZ*

CSO For Resources already defined at the DZ level

| Customer ID | Parent Resource ID | Parent Resource Name | DR Type | DR Type Change | Load Zone ID | Load Zone Name | Dispatch Zone ID | Dispatch Zone Name | CP ID | CSO Type | FCA CSO MW (Grossed-up for Losses and Reserves, Post-Proration) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 456 | Parent Resource 2 (By DZ) | RTEG | | 4006 | SEMA | 7511 | Lower SEMA | 4 | NCO | 20.000 |
| 1 | 789 | Parent Resource 3 (By DZ) | RTEG | | 4006 | SEMA | 7512 | SEMA | 4 | NCO | 5.000 |

- LP does not enter any data in this tab.
- Data is factored into the *Result – CSO Allocation With Merging* tab, but only if "Merge" is elected.
- FCA CSO MW (Grossed-up for Losses and Reserves, Post-Proration)

# Allocation Model

## *Result – CSO Allocation With No Merging*

Results - CSO Allocation (No Merge)

| Customer ID | Parent Resource ID | Parent Resource Name | Child Resource Name | DR Type | DR Type Change | Load Zone ID | Load Zone Name | CP ID | CSO Type | If MRECO, Original CCP ID | Actual CSO MW (Grossed-up for Losses and Reserves, Post-Proration) (June 1st) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 1 | | 0 | |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 2 | ECO | 0 | 12 |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 2 | NCO | 0 | 12 |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 3 | ECO | 0 | 24 |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 4 | ECO | 0 | 0 |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 5 | | 0 | |

- LP does not enter any data in this tab.
- Tab calculates and displays the final Resource Factor per CCP.
- Again, Resource Factor per CCP is used to allocate:
  - Quantitative resource attributes (e.g., Existing Capacity Max MW)
  - Actual CSO MW (Grossed-up for Losses and Reserves, Post-Proration)
  - Future qualification calculation input data

# Allocation Model

## *Result – CSO Allocation With No Merging (cont.)*

Results - CSO Allocation (No Merge)

| Customer ID | Parent Resource ID | Parent Resource Name | Child Resource Name | DR Type | DR Type Change | Load Zone ID | Load Zone Name | CP ID | CSO Type | If MRECO, Original CCP ID | Actual CSO MW (Grossed-up for Losses and Reserves, Post-Proration) (June 1st) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 1 | | 0 | |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 2 | ECO | 0 | 12 |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 2 | NCO | 0 | 12 |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 3 | ECO | 0 | 24 |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 4 | ECO | 0 | 0 |
| 1 | 123 | Parent Resource 1 | RTEG 1 Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 5 | | 0 | |

- Records begin with CCP 1:
  - If no CSO for Parent, one record per Parent, per CCP
  - If CSO exists, one record per Parent, per CCP, per CSO record

# Allocation Model

## *Result – CSO Allocation With No Merging (cont.)*

Results - CSO Allocation (No Merge)

| Customer ID | Parent Resource ID | Parent Resource Name | Child Resource Name | DR Type | DR Type Change | Load Zone ID | Load Zone Name | CP ID | CSO Type | If MRECO, Original CCP ID | Actual CSO MW (Grossed-up for Losses and Reserves, Post-Proration) (June 1st) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 123 | Parent Resource 1 | RTEG_1_Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 1 | | 0 | |
| 1 | 123 | Parent Resource 1 | RTEG_1_Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 2 | ECO | 0 | 12 |
| 1 | 123 | Parent Resource 1 | RTEG_1_Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 2 | NCO | 0 | 12 |
| 1 | 123 | Parent Resource 1 | RTEG_1_Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 3 | ECO | 0 | 24 |
| 1 | 123 | Parent Resource 1 | RTEG_1_Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 4 | ECO | 0 | 0 |
| 1 | 123 | Parent Resource 1 | RTEG_1_Lower SEMA (7511) - 123 | RTEG | | 4006 | SEMA | 5 | | 0 | |

- Child Resource Name:
  - If “Do Not Merge” is elected, Child Resource Name is populated.
    - Convention is: <DR Type>_<LP Customer ID>_<DZ Name>_<DZ ID> - <Parent Resource ID>
  - Else, “Not applicable as Merge” elected; *Result - CSO (Merge)* tab is displayed.
  - Names can be updated by making a request with Customer Support, after resource disaggregation effort is complete in the FCTS.

# Allocation Model

## *Result – CSO Allocation With No Merging (cont.)*

| | Final Resource Allocation % | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Allocation % Total | Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| 100.000% | | | | | | | 50.000% | 50.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |

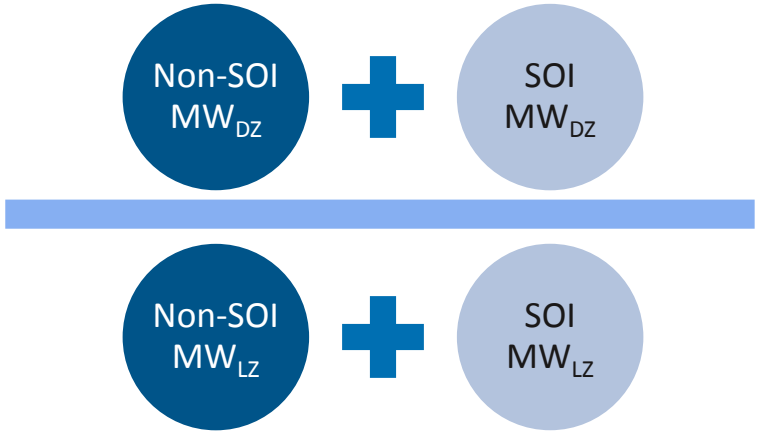
If CSO type = MRECO, the CSO allocation is performed using the Resource Factor from the original CCP in which that capacity cleared as *New*.

# Allocation Model

## *Result – CSO Allocation With No Merging (cont.)*

| | Final Resource Allocation % | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Allocation % Total | Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| 100.000% | | | | | | | 50.000% | 50.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |
| 100.000% | | | | | | | 25.000% | 75.000% | | | | | | | | | | | |

Reminder. The Resource Factor by CCP calculation is:



# Allocation Model

## *Result – CSO Allocation With No Merging (cont.)*

| Dispatch Zone CSO MW (Representative): Redistributed | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 3.000 | 9.000 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 3.000 | 9.000 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 6.000 | 18.000 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- Calculates and displays the representative CSO allocated to each DZ
- Calculation:

Resource Factor $CCP_{DZ}$ X CSO MW

# Allocation Model

## *Result – CSO Allocation With No Merging (cont.)*

| Dispatch Zone CSO MW (Representative): Redistributed | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eastern CT | Northern CT | Norwalk - Stamford | Western CT | Boston | North Shore | SEMA | Lower SEMA | Western MA | Springfield MA | Central MA | New Hampshire | Seacoast | Northwest Vermont | Vermont | Bangor Hydro | Maine | Portland Maine | Rhode Island |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 3.000 | 9.000 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 3.000 | 9.000 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 6.000 | 18.000 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- CSO MW (Grossed-up for Losses and Reserves, Post-Proration)
- Rounding can cause CSO reported on this tab to be different from official CSO values contained in FCTS.
  - FCTS is the official source of record.

# Allocation Model

## *Result – CSO Allocation With Merging*

Results - CSO Allocation (Merging)

| Customer ID | Child Resource Name | DR Type | Load Zone ID | Load Zone Name | Dispatch Zone ID | Dispatch Zone | Obligation Type | CCP | CSO MW (Grossed-up for Losses and Reserves, Post-Proration) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | RTEG_1_Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | ECO | 2 | 9 |
| 1 | RTEG_1_Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | NCO | 2 | 9 |
| 1 | RTEG_1_Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | ECO | 3 | 18 |
| 1 | RTEG_1_Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | NCO | 4 | 20 |
| 1 | RTEG_1_SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | ECO | 2 | 3 |
| 1 | RTEG_1_SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | NCO | 2 | 3 |
| 1 | RTEG_1_SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | ECO | 3 | 6 |
| 1 | RTEG_1_SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | NCO | 4 | 5 |

- LP does not enter any data in this tab.
- Records begin with CCP 2.
- Child Resource Name:
  - If “Merge” is elected, Child Resource Name is populated.
    - Convention is: <DR Type>_<LP Customer ID>_<DZ Name>_<DZ ID>
  - Else, “Not applicable as Merge” not elected; Results – *CSO (No Merge)* tab is displayed.

# Allocation Model

## *Result – CSO Allocation With Merging (cont.)*

Results - CSO Allocation (Merging)

| Customer ID | Child Resource Name | DR Type | Load Zone ID | Load Zone Name | Dispatch Zone ID | Dispatch Zone | Obligation Type | CCP | CSO MW (Grossed-up for Losses and Reserves, Post-Proration) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | RTEG 1 Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | ECO | 2 | 9 |
| 1 | RTEG 1 Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | NCO | 2 | 9 |
| 1 | RTEG 1 Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | ECO | 3 | 18 |
| 1 | RTEG 1 Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | NCO | 4 | 20 |
| 1 | RTEG 1 SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | ECO | 2 | 3 |
| 1 | RTEG 1 SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | NCO | 2 | 3 |
| 1 | RTEG 1 SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | ECO | 3 | 6 |
| 1 | RTEG 1 SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | NCO | 4 | 5 |

- Rounding can cause CSO reported on this tab to be different from official CSO values contained in FCTS.
  - FCTS is the official source of record.
- Displays representative allocation of CSO to Children; includes CSO from resources that are already defined by DZ from the *In - CSO by DZ* tab.

# Allocation Model

## *Result – CSO Allocation With Merging (cont.)*

Results - CSO Allocation (Merging)

| Customer ID | Child Resource Name | DR Type | Load Zone ID | Load Zone Name | Dispatch Zone ID | Dispatch Zone | Obligation Type | CCP | CSO MW (Grossed-up for Losses and Reserves, Post-Proration) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | RTEG 1 Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | ECO | 2 | 9 |
| 1 | RTEG 1 Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | NCO | 2 | 9 |
| 1 | RTEG 1 Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | ECO | 3 | 18 |
| 1 | RTEG 1 Lower SEMA (7511) | RTEG | 4006 | SEMA | 7511 | Lower SEMA | NCO | 4 | 20 |
| 1 | RTEG 1 SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | ECO | 2 | 3 |
| 1 | RTEG 1 SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | NCO | 2 | 3 |
| 1 | RTEG 1 SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | ECO | 3 | 6 |
| 1 | RTEG 1 SEMA (7512) | RTEG | 4006 | SEMA | 7512 | SEMA | NCO | 4 | 5 |

- If “Merge” is elected, CSO MW column displays CSO MW (Grossed-up for Losses and Reserves, Post-Proration).
- Else, displays “N/A”
- If CSO type = MRECO, the CSO allocation is performed using the Resource Factor from the original CCP in which that capacity cleared as *New*.

# Allocation Model

*Process*

- Recap of data that must be provided by the LP:
  - Election to merge or not
  - For resources without a DZ assignment, the following **factors**, each totaling 100%:
    - Non-SOI
    - SOI
    - De-list bid (only for PDBs)
- Models must be emailed to custserv@iso-ne.com by **close of business** on **Wednesday, February 16, 2011**.
- ISO-NE will analyze data returned in the allocation models and consult with LPs, if necessary.

# Allocation Model

*Process (cont.)*

- If LP does not return a completed model, or if the returned model contains inconsistent data and the LP fails to correct the data,
  - ISO will split the LP's DRs according to the advisory allocations and will merge the LP's DRs.
- Asset-to-resource mappings for Parents will be transferred to Children.
  - Subject to the DZ and DR type being the same for the asset and the Child
- Resource-to-Demand Designated Entities (DDE) mappings and Resource-to-Remote Terminal Units (RTU) mappings for Parents will be transferred to Children.

# Allocation Model

## *Resources Participating in Future FCAs*

- FCA 5
  - Set of DRs that exist today
    - In other words, Parents of the April 2011 disaggregation (and aggregation) will participate in FCA 5, while Children will not participate in FCA 5.
- FCA 6 and future FCAs
  - Set of DRs that exist today
  - Minus Parents of the April 2011 split/merge
  - Plus Children resulting from the April 2011 split/merge
- SOIs submitted on Parents for CCP 6 will be transferred to Children in April 2011.

# Allocation Model

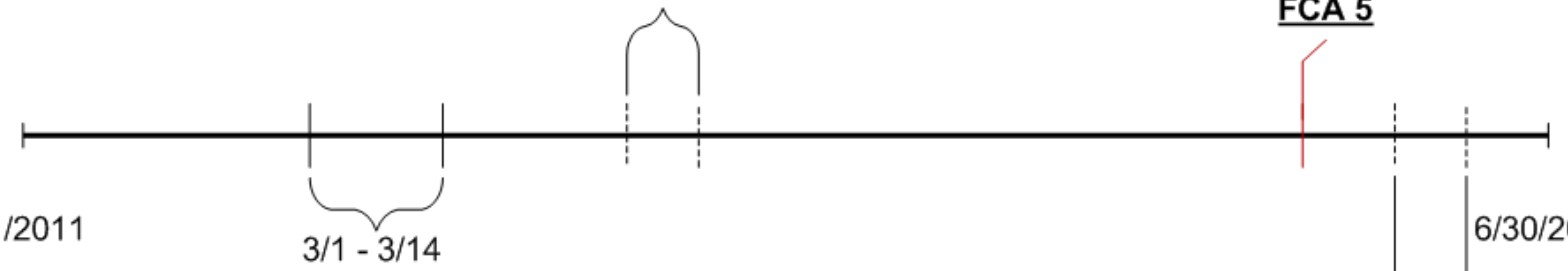
## *Overall Timeline*

4/1 - 4/8

**Split-Merge Step 1:**

- Create Children
- Set Parents to Pending Retirement through 06/01/15
- Set Parents to Retired beginning 06/01/15
- Process CCP-specific data for CCPs 2-4 (e.g. CSO allocation)
- Assign CCP 6 SOIs submitted on Parents to Children

6/6
**FCA 5**




**SOI CCP 6**

- New Increments must be submitted on Resources that already have a DZ assignment.
- If no Resource exists (for DR Type And DZ), then a New DR SOI must be submitted.

**Split-Merge Step 2:**

- Process CCP-specific data for CCP 5

# Allocation Model

*Related Considerations*

- Merging will not adversely impact Financial Assurance (FA) obligations on the non-commercial components of a merged demand resource provided the demand resource is compliant with MR1, Section 13.3 (CPS monitoring).
  - See FA examples in the December ’10 DRWG Resource Split and Merge presentation.
- Merging DRs **shall not change** the qualified capacity or CSO obligation of the DRs which are merged.

# Allocation Model

*Related Considerations (cont.)*

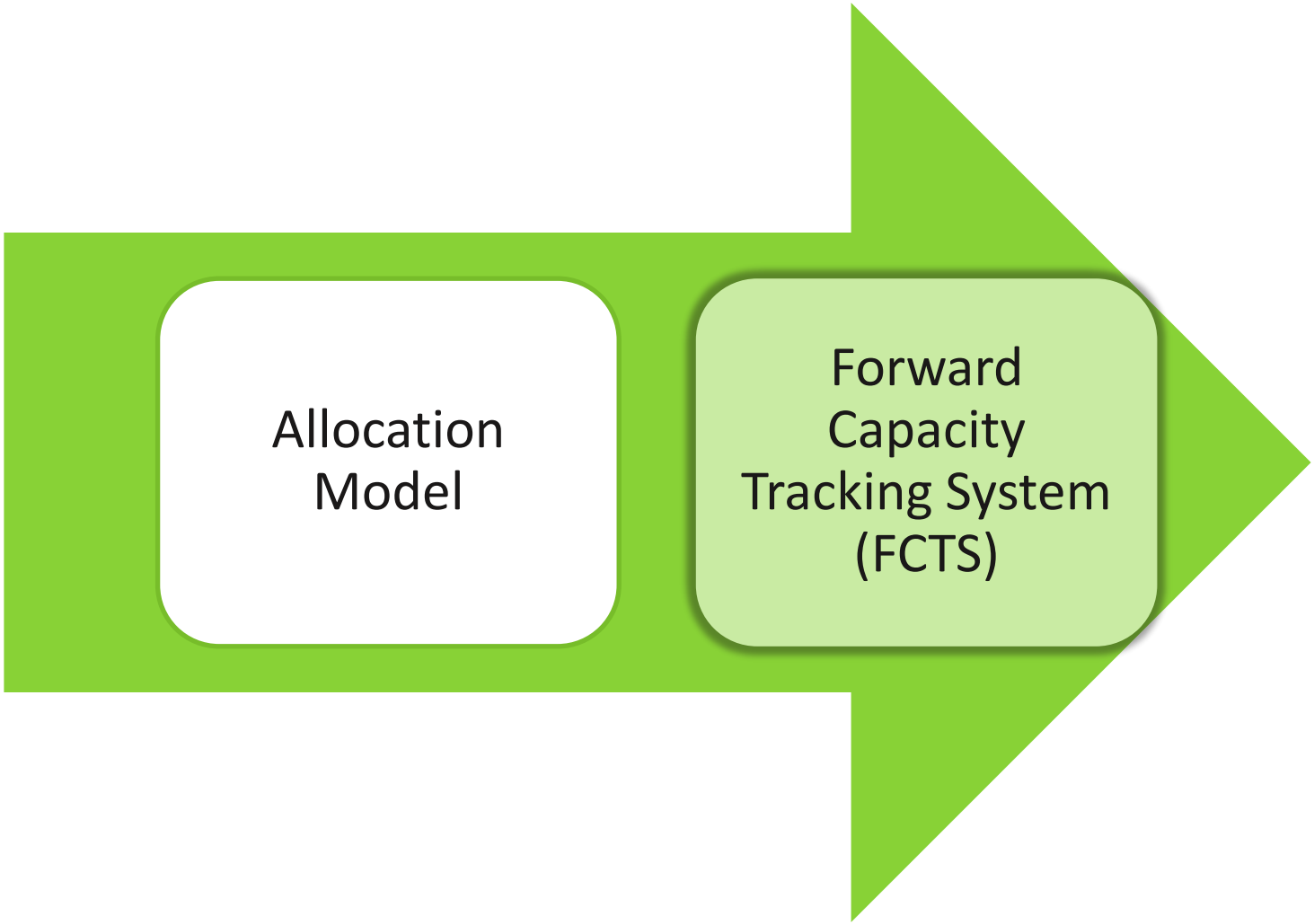
- Under certain scenarios, particularly where non-commercial capacity **does not meet** its obligation to deliver by the proposed Commercial Operation Date (COD), and consequently is not declared commercial, i.e., no CODa:
  - Combined Maximum Supply Offer value for the Monthly Reconfiguration auction (or Maximum Acquiring Capacity for bilaterals) can be impacted as the non-commercial capacity is excluded during the monthly qualification process until it is declared commercial (CODa) and the total CSO is evaluated.

# Allocation Model

*Related Considerations (cont.)*

- LPs should coordinate closely with their DDEs because this effort can result in significant changes to the June communication front-end model.
- Call for DDEs is scheduled for **February 7, 2011** at 10:00 AM.

# Outline



# Resource Information

## *Basic Info*

**Reallocation Information**

**Parent Resource(s)**

| Resource (ID) | Summer % | Winter % | Date Processed |
|---|---|---|---|
| Parent Resource 1 | 50% | 50% | 04/06/2011 5:00 PM |
| | | | |

- *Reallocation Information* section below the basic resource
- Information links to either the *Parent* or *Child* resource(s)

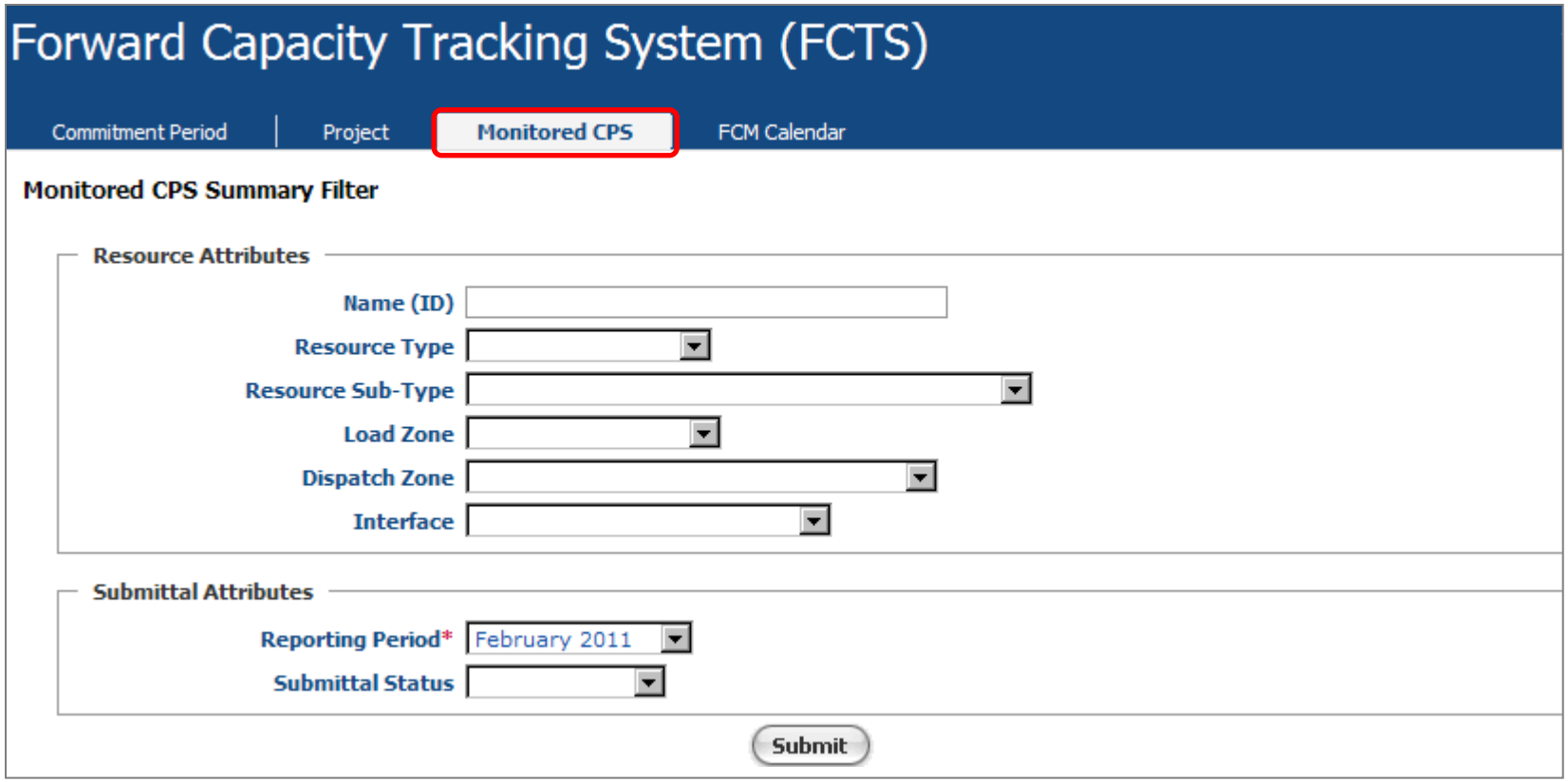
# Qualified Capacity

## *Child Resource*

- Existing
  - *Existing Capacity Qualification* tab will display the following message:
    - "No existing capacity details exist for this Commitment Period" for all periods prior to the effective date of the split/merge
- New
  - Qualification data that was only relevant when the capacity was first qualified is still available on the Parent, but will not be available on the Children.
    - For example, Offers < 0.75 x CONE

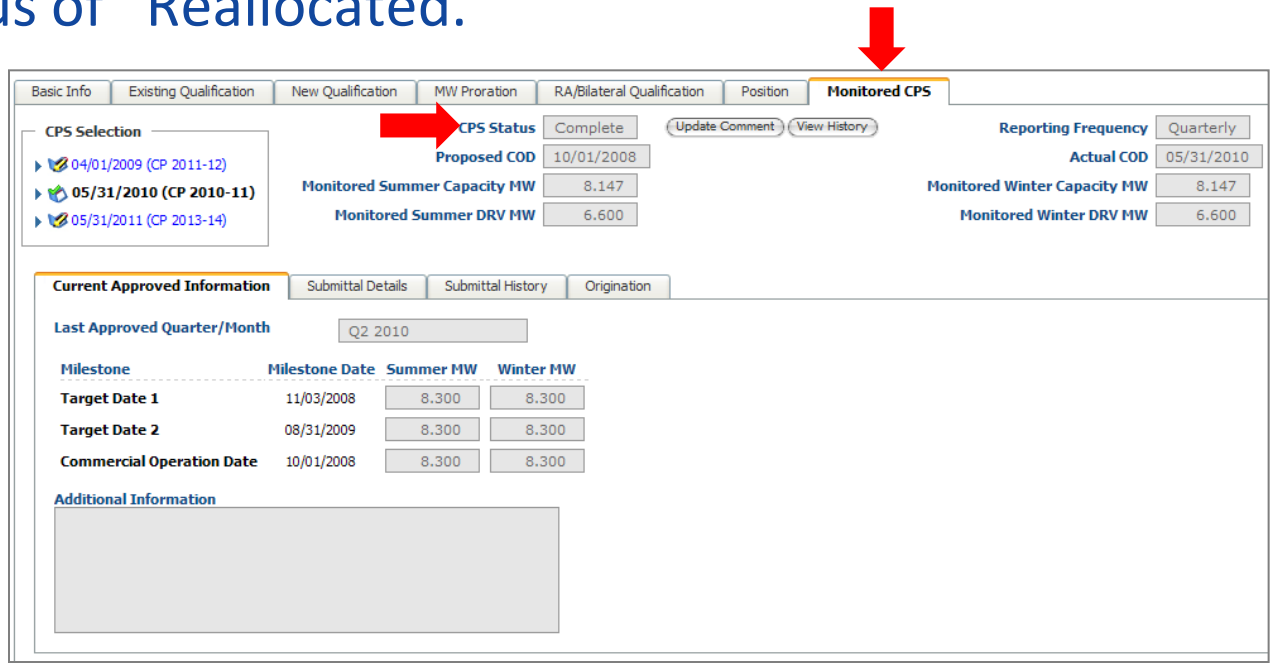
# Monitored Critical Path Schedule (CPS) Search

New search filters allow for search of CPS and submitted updates.



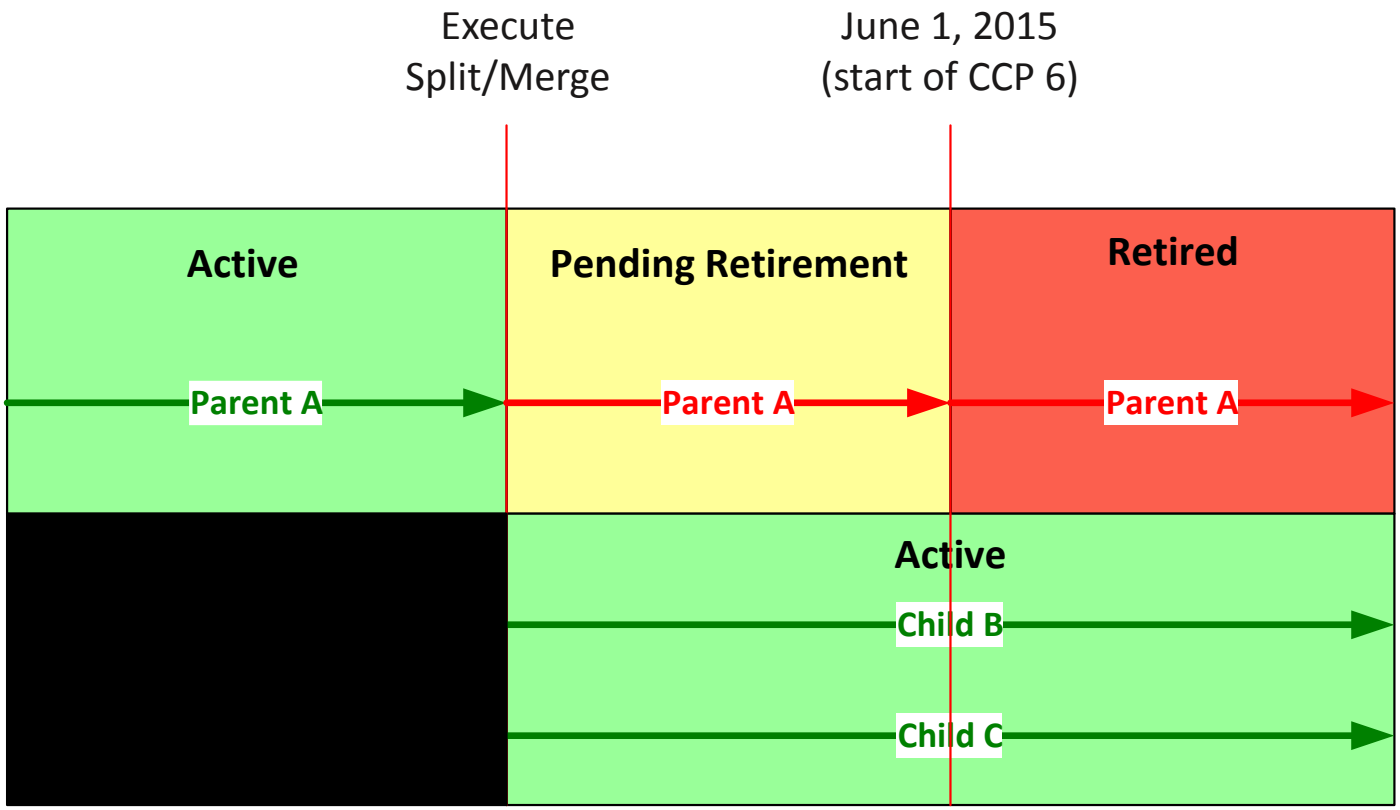
# Monitored Critical Path Schedule (CPS) Screens

- For each resource, the *Monitored CPS* tab lists each CPS and corresponding *CPS Status*.
- CPS that was created as part of a split/merge will have a CPS status of "Reallocated."



# Resource Statuses Explained

## Example: Parent A splits to become Child B and Child C



## Please submit your evaluation of today's session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**Support > Training > Training Materials > Demand Resources**