

# Annual ARR & Self-Scheduled FTR

January 17, 2023

Xu Xu

Lead Engineer, Market Simulation

www.pjm.com | Public PJM©2023



1/17/2023 - New presentation



## **Impact Details**

Product - Action Required	Deadline	Who May Be Affected
Release – Train	January 30	ARR Allocation Participants
Release – Production	February 20	ARR Allocation Participants
Annual ARR Opens	March 1	ARR Allocation Participants
Annual FTR Opens	April 4	Only FTR Auction Participants who can SelfScheduled









## ARR Changes

- Stage1A MWs up to 60% of Network Service Peak Load
- New source pnodes for Stage1B
- New sink pnodes for stage2

## SelfScheduled FTR

- Pre-change, only 24h classtype
- All classtypes (24h, OnPeak, DailyOffPeak, WkndOnPeak) are available



## Pre-changes

ARR Round	Source Pnode	Sink Pnode	Capability (MW)
Stage1A	Active historical resources or Qualified Replacement Resources	Aggregate Network Customer Load in the Transmission Zone or other designated Load Aggregation Zone	Up to value of Zonal Base Load (ZBL)
Stage1B	Same as stage1A	Same as stage1A	Up to Network Service Peak Load (NSPL)
Stage2 Round1	any available generator, interface, hub, zone	Same as stage1A	Up to Network Service Peak Load (NSPL)
Stage2 Round2	Same as Round1	Same as stage1A	Up to Network Service Peak Load (NSPL)
Stage2 Round3	Same as Round1	Same as stage1A	Up to Network Service Peak Load (NSPL)

www.pjm.com | Public 5 PJM©2023



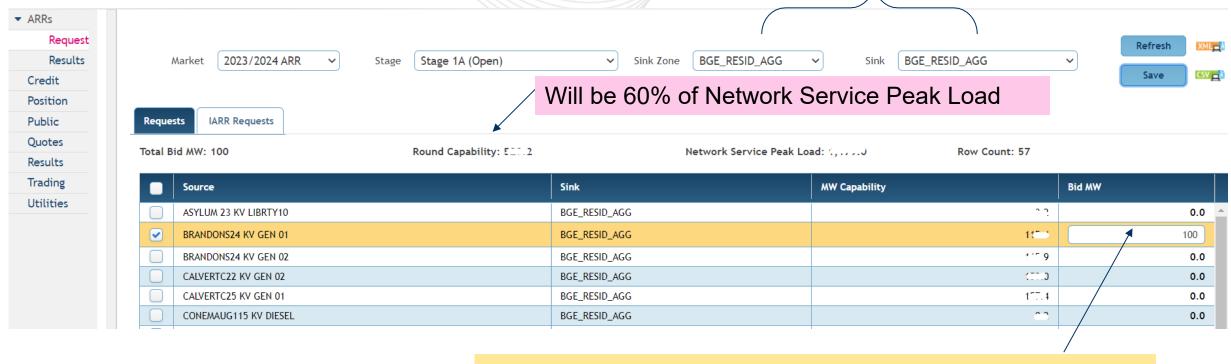
## Changes

ARR Round	Source Pnode	Sink Pnode	Capability (MW)
Stage1A	Active historical resources or Qualified Replacement Resources	Aggregate Network Customer Load in the Transmission Zone or other designated Load Aggregation Zone	Guarantee 60% of Network Service Peak Load (NSPL)
Stage1B	Same as stage1A, plus Hub, Zone and Interface	Same as stage1A	Up to Network Service Peak Load (NSPL) (subject to proration)
Stage2 Round1	any available generator, interface, hub, zone	Same as stage1A, and any available generator, interface, hub, zone	Up to Network Service Peak Load (NSPL) (subject to proration)
Stage2 Round2	Same as Round1	Same as round1	Up to Network Service Peak Load (NSPL) (subject to proration)



#### ARR Changes – Stage1A

#### Has to be same for stage1A and 1B



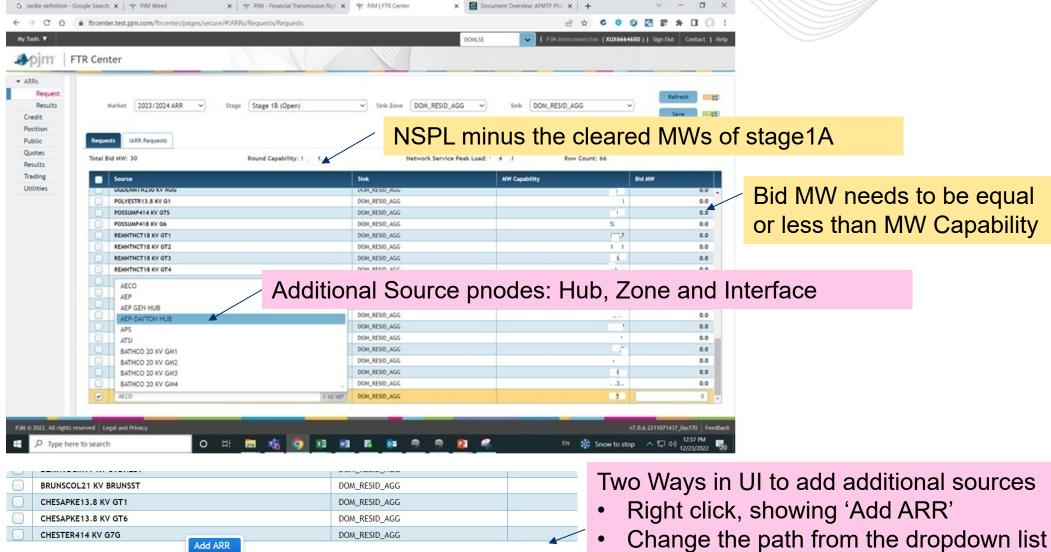
Bid MW needs to be equal or smaller than the MW Capability

Total Bid MW needs to be equal or smaller than the Round Capability

www.pjm.com | Public 7 PJM©2023



#### ARR Changes – Stage1B



www.pjm.com | Public PJM©2023 8

Add ARR

## ARR Changes – Stage1 XML query

Sink (sinkpnodename) has to be the load settlement's point/aggregate

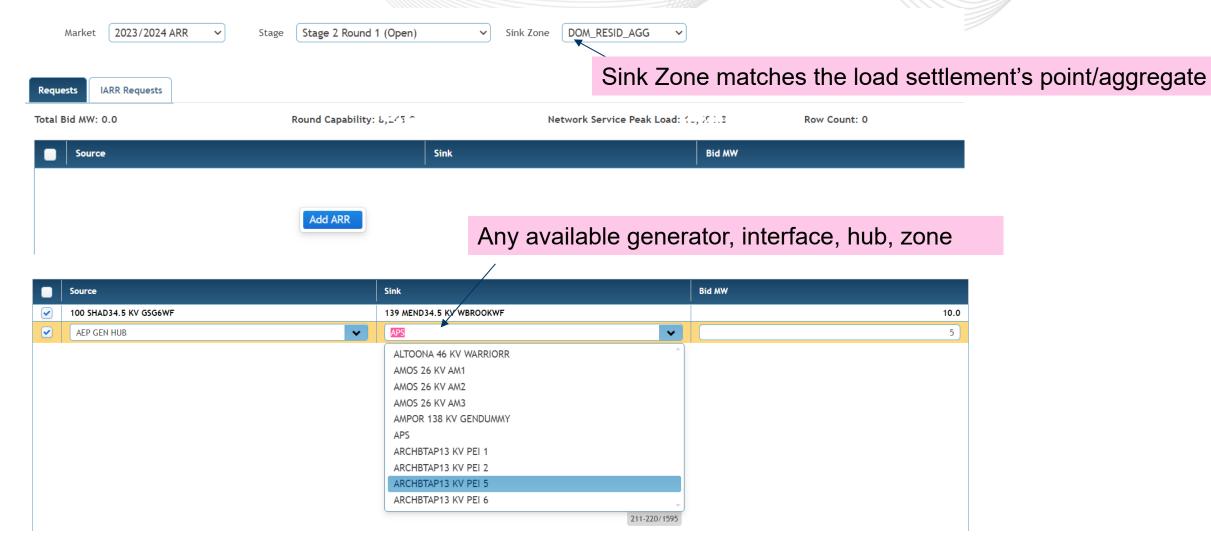
Can put both sink and sinkZone, but they have to be the same

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
<env:Header/>
<env:Body>
<SubmitRequest xmlns:xsd="http://eftr.pjm.com/ftr/xml" xmlns:xsi="http://eftr.pjm.com/ftr/xml" xmlns="http://eftr.pjm.com/ftr/xml" xmlns="http://eftr.pjm.com/ftr/xml" xmlns="http://eftr.pjm.com/ftr/xml">
<ARRQuotes MarketName="2023/2024 ARR" MarketRoundName="Stage 1B">
<ARRQuote>
<Path source="BGE" sink="DOM_RESID_AGG" sinkZone="DOM_RESID_AGG"/>
<MN>0.1</MN>
</ARRQuote>
</ARRQuote>
</ARRQuote>
</ARRQuotes>
</array*</array*
</array*
```

www.pjm.com | Public 9 PJM©2023



#### ARR Changes – Stage2



www.pjm.com | Public PJM©2023

#### ARR Changes – Stage2 XML query

- Has to specify sink zone at the load settlement's point/aggregate
- Sink can be any available generator, interface, hub, zone

```
kenv:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
<env:Header/>
<env:Body>
<SubmitRequest xmlns:xsd="http://eftr.pjm.com/ftr/xml" xmlns:xsi="http://eftr.pjm.com/ftr/xml" xmlns="http://eftr.pjm.com/ftr/xml">
<ARRQuotes MarketName="2023/2024 ARR" MarketRoundName="Stage 2 Round 1">
<ARRQuote>
<Path source="BGE" sink="APS" sinkZone="DOM_RESID_AGG" />
<MW>0.1</MW>
</ARRQuote>
</ARRQuote>
</ARRQuote>
</ARRQuote>
</ARRQuotes>
</SubmitRequest>
</env:Body>
</env:Envelope>
```

www.pjm.com | Public PJM©2023



# Train Implementation

January 30

# Production Implementation

- February 20
- Make stage1A ARR data available on February 24
- Bidding window opens on March 1



- Annual ARR/FTR Training
  - https://www.pjm.com/training/training-resources
- 2023/2024 ARR post materials
  - https://www.pjm.com/markets-and-operations/ftr
- External Interface Specification Guide
  - https://www.pjm.com/-/media/markets-ops/ftr/ftr-external-interfacespecification.ashx



#### Facilitator:

Todd Keech, Todd.Keech@pjm.com

#### Secretary:

Risa Holland, Risa. Holland@pjm.com

SME/Presenter:

Xu Xu,

Xu.Xu@pjm.com /

FTRGroup@pjm.com

**ARR Changes/SelfScheduled FTR** 



#### Member Hotline

(610) 666 - 8980

(866) 400 - 8980

custsvc@pjm.com

