



Release Notes – Business Rules Version 11.7X Up to Fall 2023 Release for SIBR/BSAP/RC-BSAP

Revision History

Date	Version	By	Description
3/09/2023	1.0	WT	Initial Draft for Pre Summer set. Energy Storage Enhancement (ESE).



For the Release Notes **version 1.0 this will be the Baseline Release** and is referenced in the revision history as the Initial Draft.

For modifications and adjustments of the Business Rules(BR) for SIBR/BSAP/RC-BSAP that come after the Baseline Release the revision history will **show an Incremental change** with the new BR(vX.X.x). The incremental changes will be listed on top of the baseline.

The Baseline Release will identify all the Projects associated with the SIBR/BSAP/RC-BSAP Release and if there are any changes to the UI or API web services. Changes to the UI will be documented in the SIBR SC Users Guide, BSAP Users Guide, or the RC-BSAP Users Guide. Web services changes will be documented in the Technical Specifications and posting of the related artifacts on the application pages on our Developers site.

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//////////////////////////////////// **Baseline Release** //////////////////////////////////////

This set of Release Notes covers the changes going forward from the Business Rules Version 11.7.

Pre-Summer 2023 Release Impacts

Business Rule changes within a release may force changes to the User Interfaces or Web Services depending on the requirement changes that are needed to support new or modified functionality within system applications. The following elements defined below give a quick overview of expected changes to the systems that interface with the Business Rules.

Application	Element	Change	Comment
SIBR	SIBR UI	NO	
	SIBR Web Services	NO	
	SIBR Rules	YES	ESE
BSAP	BSAP UI	NO	
	BSAP Web Services	NO	
	BSAP Rules	NO	
RC-BSAP	RC-BSAP UI	NO	
	RC-BSAP Web Services	NO	
	RC-BSAP Rules	NO	

Please visit the relevant user documentation on the Release Planning page for the updates to the documents associated to a specific Release.

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

SIBR User Guide – UI changes will be documented in this document.



SIBR Interface Specifications - all web service (wsdl, xsd, xml) changes will be documented in this document.
<https://developer.caiso.com>

BSAP User Guide – UI changes will be documented in this document.

Base Schedule Interface Specification Web Services - all web service (wsdl, xsd, xml) changes will be documented in this document. <https://developer.caiso.com>

RC-BSAP User Guide – UI changes will be documented in this document.

RC Base Schedule Interface Specification Web Services - all web service (wsdl, xsd, xml) changes will be documented in this document. <https://developer.caiso.com>

Business Rules Pre Summer 2023 Release Projects (included Independent Projects)

The **Pre Summer 2023 Release** rules capture changes associated with the following projects targeted for implementation near June 2023 timeframe. The exception to this set of release notes is this is also capturing changes for current production prior to version 11 of the SIBR rules which is in production at this time.

ESE (Energy Storage Enhancement)

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx> this set may also include updates to rule modifications not tied to a release.

The full set of the Business Rules promoted to Production and for Upcoming (future) Market Simulations can be seen under the SIBR user documentation under the Application Access/ in SIBR user documentation for all rules related to SIBR/BSAP/RC-BSAP.

<http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx>



Revision History for Rules:

Version 11.7

Version	Date	Changes	Reference
11.7	1/23/2023	Added new rules for Energy Storage Enhancements (ESE) LESR.	ESE
11.7	1/23/2023	Added rule 10093 for ESE Effective Date.	ESE
11.7	1/23/2023	Added terms for ESE Coverage Up/Down Factors.	ESE
11.7	1/23/2023	Added rule 10094 and 10095 to initialize the ESE Coverage Factor (Up/Down).	ESE
11.7	1/26/2023	Added 32417 for DAM SS not allowed if AS in that hour.	ESE
11.7	1/26/2023	Added 32418 for RTM SS not allowed if DA AS in that hour.	ESE
11.7	1/26/2023	Added 42307 and 42308 for RTM Energy Bid generation/extension to cover DA AS.	ESE
11.7	1/26/2023	Added 32543 RTM En bid needed if DA AS.	ESE
11.7	1/26/2023	Updated DAM NGR and RTM NGR RFs.	ESE
11.7	1/26/2023	Modified 52002 and 52003 post market rules for pre ESE effective date.	ESE
11.7	1/26/2023	Added 52010 and 52011 for post ESE effective date for Non LESR.	ESE

Revision of Terms for Pre Summer 2023 Release:

Name	Acronym	Definition
ESE Coverage Down Factor		Configurable factor applied to NGR (LESR) bid generation extension when DA AS Award (RU,SR, NR) is present.
ESE Coverage Up Factor		Configurable factor applied to NGR (LESR) bid generation extension when DA AS Award (RD) is present.



Business Rules Impacted – Pre Summer 2023 Release:

Rule changes for the Version 11.7.x are located below. Modified Text in red, new rules will be all red. Comments section will contain highlight for ESDER3b.

Market	Business Rule ID	Description	Comments
ALL	10093	The configurable ESE Effective Date must be initialized to '6/01/2023'.	
ALL	10094	The configurable ESE Coverage Down Factor must be initialized to .5	
ALL	10095	The configurable ESE Coverage Up Factor must be initialized to .5	
DAM	32417	If there is either a Generating Self-Schedule Bid Component or Load Self-Schedule Bid Component for a Trading Hour in a Non-Generator Resource Bid, and the Non-Generator Resource specified in that Bid is registered as a LESR for that Trading Hour, there must not be any Ancillary Service Bid Component for that Trading Hour in that Non-Generator Resource Bid if that Trading Hour is on or after the ESE Effective Date.	LESR GSS/LSS not allowed if AS is present for that hour. (RU/RD/SR/NR)
RTM	32418	If there is any Day-Ahead Ancillary Service Award for a Trading Hour in a Non-Generator Resource Bid and the Non-Generator Resource specified in that Bid is registered as a LESR for that Trading Hour, there must not be a Generating Self-Schedule Bid Component or a Load Self-Schedule Bid Component for that Trading Hour in that Non-Generator Resource Bid, if that Trading Hour is on or after the ESE Effective Date.	LESR GSS/LSS not allowed if DA AS Award. (RU/RD/SR/NR)
RTM	42406	If there is no Energy Bid Component for a Trading Hour in a Non-Generator Resource Bid, but there is a Day-Ahead Ancillary Service Award for that Trading Hour, and the Non-Generator Resource specified in that Bid is registered as a LESR for that Trading Hour, an Energy Bid Component must be generated for that Trading Hour in that Bid with an Energy Bid Curve from the negative sum of the Day-Ahead Regulation Up Award, if any, the Day-Ahead Spinning Reserve Award, if any, and the Day-Ahead Non-Spinning Reserve Award, if any, for that Trading Hour, or zero otherwise,	LESR Energy Bid generation Negative sum of (DARU,DASR,DANR)*ESE CU up to

		multiplied by the ESE Coverage Up Factor, up to the sum of a) the Day-Ahead Regulation Down Award, if any, or zero otherwise, multiplied by the ESE Coverage Down Factor and b) the sum of the Day-Ahead Spinning Reserve Award, if any, and the Day-Ahead Non-Spinning Reserve Award, if any, for that Trading Hour, or zero otherwise, with an Energy Bid Price equal to the Default Energy Bid Price for the Trading Hour of the Bid and if that Trading Hour is on or after the ESE Effective Date.	sum ((DARD)*ESE CD), DASR, DANR.
RTM	42407	If there is an Energy Bid Component and a Day-Ahead Ancillary Service Award for a Trading Hour in a Non-Generator Resource Bid, and the Non-Generator Resource specified in that Bid is registered as a LESR for that Trading Hour, the Energy Bid Curve specified in that Energy Bid Component must be extended if necessary, a) downward to the negative sum of the Day-Ahead Regulation Up Award, if any, the Day-Ahead Spinning Reserve Award, if any, and the Day-Ahead Non-Spinning Reserve Award, if any, for that Trading Hour, or zero otherwise, multiplied by the ESE Coverage Up Factor, and b) upward to the sum of i) the Day-Ahead Regulation Down Award, if any, for that Trading Hour, or zero otherwise, multiplied by the ESE Coverage Down Factor, and ii) the sum of the Day-Ahead Spinning Reserve Award, if any, and the Day-Ahead Non-Spinning Reserve Award, if any, for that Trading Hour, or zero otherwise, if that Trading Hour is on or after the ESE Effective Date.	LESR Energy Bid extension Negative sum of (DARU,DASR,DANR)*ESE CU up to sum ((DARD)*ESE CD), DASR, DANR.
RTM	52002	If there is no Energy Bid Component for the Non-Generator Resource and the Active Hour in a Non-Generator Resource Bid, but there is a Day-Ahead Spinning or Non-Spinning Reserve Award for that Non-Generator Resource and Active Hour, an Energy Bid Component must be generated in that Bid from the Day-Ahead Schedule for that Non-Generator Resource and Active Hour, if any, or zero otherwise, with an Energy Bid Range equal to the sum of the Day-Ahead Spinning and Non-Spinning Reserve Awards for that Non-Generator Resource and Active Hour, if that Trading Hour is prior to the ESE Effective Date.	LESR pre ESE Spinning/Non-Spinning Reserve Award without Energy Bid.
RTM	52003	If there is an Energy Bid Component for the Non-Generator Resource and the Active Hour in a Non-Generator Resource Bid, and there is a Day-Ahead Spinning or Non-Spinning Reserve Award for that Non-Generator Resource and Active Hour, the Energy Bid Curve specified in that Energy Bid Component must be extended upwards, if necessary, so that its Energy Bid Range is at least equal to the sum of the Day-Ahead Spinning and Non-Spinning Reserve Awards for that Non-Generator Resource and Active Hour, if that Trading Hour is prior to the ESE Effective Date.	LESR pre ESE Spinning/Non-Spinning Reserve Award with Energy Bid.
RTM	52010	If there is no Energy Bid Component for the Non-Generator Resource and the Active Hour in a Non-Generator Resource Bid, and the Non-Generator Resource specified in that Bid is not registered as a LESR for that Trading Hour, but there is a Day-Ahead Spinning or Non-Spinning Reserve Award for that Non-Generator Resource and Active	Non LESR post ESE Spinning/Non-Spinning Reserve Award without Energy Bid.



		Hour, an Energy Bid Component must be generated in that Bid from the Day-Ahead Schedule for that Non-Generator Resource and Active Hour, if any, or zero otherwise, with an Energy Bid Range equal to the sum of the Day-Ahead Spinning and Non-Spinning Reserve Awards for that Non-Generator Resource and Active Hour, if that Trading Hour is on or after the ESE Effective Date.	
RTM	52011	If there is an Energy Bid Component for the Non-Generator Resource and the Active Hour in a Non-Generator Resource Bid, and the Non-Generator Resource specified in that Bid is not registered as a LESR for that Trading Hour, and there is a Day-Ahead Spinning or Non-Spinning Reserve Award for that Non-Generator Resource and Active Hour, the Energy Bid Curve specified in that Energy Bid Component must be extended upwards, if necessary, so that its Energy Bid Range is at least equal to the sum of the Day-Ahead Spinning and Non-Spinning Reserve Awards for that Non-Generator Resource and Active Hour, if that Trading Hour is on or after the ESE Effective Date.	Non LESR post ESE Spinning/Non-Spinning Reserve Award with Energy Bid.

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<http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx>

END Document