

Examples of Tagging Adjustment Timeline for Inertie Resources electing Hourly Dispatch Option

Starting from HE11 Trade Date 04/28/2016

- CISO will now automatically adjust e-Tags following the HASP results when a resource is over tagged at T-40 (T- references the top of the operating hour). If multiple e-Tags are associated with a single market award, the e-Tags will be adjusted pro rata to match the market award.
- Between (T-37) and (T-20) :
 - FMM Award=Max (Accepted HASP Result, Fully Approved e-Tag Energy Profile)
- Based on the above, we have put together the following examples so that you can see the expected market results. For these examples, assumption is made that SC has accepted the HASP results via ADS.
- Check CMRI before submitting settlements disputes as the FMM binding award will be used for Settlements.

Example 1: DA=0MW, Accepted HASP Result=50MW, Initial Fully Approved e-Tag Energy Profile= 50MW

	Intvl 1	Intvl 2	Intvl 3	Intvl 4
FMM Binding Award	50	50	50	50
Fully Approved E-Tag Energy Profile	50	50	50	50

Scenario 1	DA = 0 MW, HASP = 50MW, Initial Approved Tag = 50 MW	Results of EE and Settlements
Resource A		
DA Award	0	
HASP GOTO in ADS	50	
DA Tag	0	
Final Tag	50	
		Example 1
FMM Binding Award	Interval 1	50
FMM Binding Award	Interval 2	50
FMM Binding Award	Interval 3	50
FMM Binding Award	Interval 4	50

Settlement Interval	1	2	3	4	5	6	7	8	9	10	11	12
DASE Energy	0	0	0	0	0	0	0	0	0	0	0	0
DA Tag	0	0	0	0	0	0	0	0	0	0	0	0
OE-FMM	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
Final Tag	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
OA	0	0	0	0	0	0	0	0	0	0	0	0
HASP-Reversal Qty	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HASP Reversal Amount	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Expected Energy Type	Calculation	Charge Code
DASE (Day Ahead Scheduled Energy)	DASE MW * DALMP	CC6011 - DA Energy Settlement
OE (optimal Energy) FMM	OE Energy * FMM LMP	CC6460 - FMM IIE Settlement
OA (Operational Adjustment)	OA Energy * RTD LMP	CC6470- RTD IIE Settlement
HASP Reversal	HASP Reversal MW * Max (DA LMP - FMM LMP)	CC6460 - FMM IIE Settlement

Example 2: DA=0MW, Accepted HASP Result=50MW, Initial Fully Approved e-Tag Energy Profile= 75MW

- Tag auto adjusted by ISO is fully approved at (T-30)
- SC adjusts tags to original value, and SCs adjusted tags are fully approved at (T-28) to 75MW
- SC adjust tags and adjustments are fully approved at (T-20) to 50 MW

	Intvl 1	Intvl 2	Intvl 3	Intvl 4
FMM Binding Award	50	75	50	50
Fully Approved E-Tag Energy Profile	50	50	50	50

Scenario 2	DA = 0 MW, HASP = 50MW, Initial approved Tag = 75 MW	Results of EE and Settlements
Resource A		
DA Award	0	
HASP GOTO in ADS	50	
DA Tag	0	
Final Tag	50	
		Example 2
FMM Binding Award	Interval 1	50
FMM Binding Award	Interval 2	75
FMM Binding Award	Interval 3	50
FMM Binding Award	Interval 4	50

Settlement Interval	1	2	3	4	5	6	7	8	9	10	11	12
DASE Energy	0	0	0	0	0	0	0	0	0	0	0	0
DA Tag	0	0	0	0	0	0	0	0	0	0	0	0
OE-RTPD	4.167	4.167	4.167	6.250	6.250	6.250	4.167	4.167	4.167	4.167	4.167	4.167
Final Tag	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
OA	0	0	0	-2.083	-2.083	-2.083	0	0	0	0	0	0
HASP-Reversal Qty	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HASP Reversal Amount	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Expected Energy Type	Calculation	Charge Code
DASE (Day Ahead Scheduled Energy)	DASE MW * DALMP	CC6011 - DA Energy Settlement
OE (optimal Energy) FMM	OE Energy * FMM LMP	CC6460 - FMM IIE Settlement
OA (Operational Adjustment)	OA Energy * RTD LMP	CC6470- RTD IIE Settlement
HASP Reversal	HASP Reversal MW * Max (DA LMP - FMM LMP)	CC6460 - FMM IIE Settlement

Example 3: DA=0MW, Accepted HASP Result=50MW, Initial Fully Approved e-Tag Energy Profile= 75MW

- Tag auto adjusted by ISO is fully approved at (T-30)
- SC re-adjust tags and adjustments are fully approved at (T-28) to 50 MW

	Intvl 1	Intvl 2	Intvl 3	Intvl 4
FMM Binding Award	50	50	50	50
Fully Approved E-Tag Energy Profile	50	50	50	50

Scenario 3	DA = 0 MW, HASP = 50MW, Initial approved Tag = 75 MW	Results of EE and Settlements
Resource A		
DA Award	0	
HASP GOTO in ADS	50	
DA Tag	0	
Final Tag	50	
		Example 3
FMM Binding Award	Interval 1	50
FMM Binding Award	Interval 2	50
FMM Binding Award	Interval 3	50
FMM Binding Award	Interval 4	50

Settlement Interval	1	2	3	4	5	6	7	8	9	10	11	12
DASE Energy	0	0	0	0	0	0	0	0	0	0	0	0
DA Tag	0	0	0	0	0	0	0	0	0	0	0	0
OE-RTPD	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
Final Tag	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
OA	0	0	0	0	0	0	0	0	0	0	0	0
HASP-Reversal Qty	0	0	0	0	0	0	0	0	0	0	0	0
HASP Reversal Amount	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Expected Energy Type	Calculation	Charge Code
DASE (Day Ahead Scheduled Energy)	DASE MW * DALMP	CC6011 - DA Energy Settlement
OE (optimal Energy) FMM	OE Energy * FMM LMP	CC6460 - FMM IIE Settlement
OA (Operational Adjustment)	OA Energy * RTD LMP	CC6470- RTD IIE Settlement
HASP Reversal	HASP Reversal MW * Max (DA LMP - FMM LMP)	CC6460 - FMM IIE Settlement

Example 4: DA=50MW, Accepted HASP Result=0MW, Initial Fully Approved e-Tag Energy Profile= 50MW

- Tag auto adjusted by ISO is fully approved at (T-30)

	Intvl 1	Intvl 2	Intvl 3	Intvl 4
FMM Binding Award	0	0	0	0
Fully Approved E-Tag Energy Profile	0	0	0	0

Scenario 4	DA = 50 MW, HASP = 0MW, Initial approved Tag = 50 MW	Results of EE and Settlements
Resource A		
DA Award	50	
HASP GOTO in ADS	0	
DA Tag	50	
Final Tag	0	
		Example 4
FMM Binding Award	Interval 1	0
FMM Binding Award	Interval 2	0
FMM Binding Award	Interval 3	0
FMM Binding Award	Interval 4	0

Settlement Interval	1	2	3	4	5	6	7	8	9	10	11	12
DASE Energy	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
DA Tag	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
OE-RTPD	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167
Final Tag	0	0	0	0	0	0	0	0	0	0	0	0
OA	0	0	0	0	0	0	0	0	0	0	0	0
HASP-Reversal Qty	0	0	0	0	0	0	0	0	0	0	0	0
HASP Reversal Amount	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Expected Energy Type	Calculation	Charge Code
DASE (Day Ahead Scheduled Energy)	DASE MW * DALMP	CC6011 - DA Energy Settlement
OE (optimal Energy) FMM	OE Energy * FMM LMP	CC6460 - FMM IIE Settlement
OA (Operational Adjustment)	OA Energy * RTD LMP	CC6470- RTD IIE Settlement
HASP Reversal	HASP Reversal MW * Max (DA LMP - FMM LMP)	CC6460 - FMM IIE Settlement

Example 5: DA=100MW, Accepted HASP Result=50MW, Initial Fully Approved e-Tag Energy Profile= 100MW

- Tag auto adjusted by ISO is fully approved at (T-30)
- SC adjusts tags to original value, and SCs adjusted tags are fully approved at (T-28) to 100MW
- SC re-adjust tags and adjustments are fully approved at (T-28) to 50 MW

	Intvl 1	Intvl 2	Intvl 3	Intvl 4
FMM Binding Award	50	100	50	50
Fully Approved E-Tag Energy Profile	50	50	50	50

Scenario 5	DA = 100 MW, HASP = 50MW, Initial approved Tag = 100 MW	Results of EE and Settlements
Resource A		
DA Award	100	
HASP GOTO in ADS	50	
DA Tag	100	
Final Tag	50	
		Example 5
FMM Binding Award	Interval 1	50
FMM Binding Award	Interval 2	100
FMM Binding Award	Interval 3	50
FMM Binding Award	Interval 4	50

Settlement Interval	1	2	3	4	5	6	7	8	9	10	11	12
DASE Energy	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333
DA Tag	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333
OE-RTPD	-4.167	-4.167	-4.167	0.000	0.000	0.000	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167
Final Tag	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
OA	0	0	0	-4.167	-4.167	-4.167	0	0	0	0	0	0
HASP-Reversal Qty	0	0	0	0	0	0	0	0	0	0	0	0
HASP Reversal Amount	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Expected Energy Type	Calculation	Charge Code
DASE (Day Ahead Scheduled Energy)	DASE MW * DALMP	CC6011 - DA Energy Settlement
OE (optimal Energy) FMM	OE Energy * FMM LMP	CC6460 - FMM IIE Settlement
OA (Operational Adjustment)	OA Energy * RTD LMP	CC6470 - RTD IIE Settlement
HASP Reversal	HASP Reversal MW * Max (DA LMP - FMM LMP)	CC6460 - FMM IIE Settlement

Example 6: DA=100MW, Accepted HASP Result=50MW, Initial Fully Approved e-Tag Energy Profile= 100MW

- Tag auto adjusted by ISO is fully approved at (T-30)
- SC re-adjust tags and adjustments are fully approved at (T-28) to 50 MW

	Intvl 1	Intvl 2	Intvl 3	Intvl 4
FMM Binding Award	50	50	50	50
Fully Approved E-Tag Energy Profile	50	50	50	50

Scenario 6	DA = 100 MW, HASP = 50MW, Initial approved Tag = 100 MW	Results of EE and Settlements
Resource A		
DA Award	100	
HASP GOTO in ADS	50	
DA Tag	100	
Final Tag	50	
		Example 6
FMM Binding Award	Interval 1	50
FMM Binding Award	Interval 2	50
FMM Binding Award	Interval 3	50
FMM Binding Award	Interval 4	50

Settlement Interval	1	2	3	4	5	6	7	8	9	10	11	12
DASE Energy	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333
DA Tag	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333
OE-RTPD	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167	-4.167
Final Tag	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167	4.167
OA	0	0	0	0	0	0	0	0	0	0	0	0
HASP-Reversal Qty	0	0	0	0	0	0	0	0	0	0	0	0
HASP Reversal Amount	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Expected Energy Type	Calculation	Charge Code
DASE (Day Ahead Scheduled Energy)	DASE MW * DALMP	CC6011 - DA Energy
OE (optimal Energy) FMM	OE Energy * FMM LMP	CC6460 - FMM IIE Settlement
OA (Operational Adjustment)	OA Energy * RTD LMP	CC6470 - RTD IIE Settlement
HASP Reversal	HASP Reversal MW * Max (DA LMP - FMM LMP)	CC6460 - FMM IIE Settlement

Example 7: DA=0MW, Accepted HASP Result=100MW, Initial Fully Approved e-Tag Energy Profile= 0MW

- Tag auto adjusted by ISO is fully approved at (T-30)
- SC does not put a tag before (T-20)

	Intvl 1	Intvl 2	Intvl 3	Intvl 4
FMM Binding Award	100	100	0	0
Fully Approved E-Tag Energy Profile	0	0	0	0

Scenario 7	DA = 0 MW, HASP = 100MW, Initial approved Tag = 0 MW	Results of EE and Settlements
Resource A		
DA Award	0	
HASP GOTO in ADS	100	
DA Tag	0	
Final Tag	0	
		Example 1
FMM Binding Award	Interval 1	100
FMM Binding Award	Interval 2	100
FMM Binding Award	Interval 3	0
FMM Binding Award	Interval 4	0

Settlement Interval	1	2	3	4	5	6	7	8	9	10	11	12
DASE Energy	0	0	0	0	0	0	0	0	0	0	0	0
DA Tag	0	0	0	0	0	0	0	0	0	0	0	0
OE-RTPD	8.333	8.333	8.333	8.333	8.333	8.333	0	0	0	0	0	0
Final Tag	0	0	0	0	0	0	0	0	0	0	0	0
OA	-8.333	-8.333	-8.333	-8.333	-8.333	-8.333	0	0	0	0	0	0
HASP-Reversal Qty	0	0	0	0	0	0	0	0	0	0	0	0
HASP Reversal Amount	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Expected Energy Type	Calculation	Charge Code
DASE (Day Ahead Scheduled Energy)	DASE MW * DALMP	CC6011 - DA Energy
OE (optimal Energy) FMM	OE Energy * FMM LMP	CC6460 - FMM IIE Settlement
OA (Operational Adjustment)	OA Energy * RTD LMP	CC6470- RTD IIE Settlement
HASP Reversal	HASP Reversal MW * Max (DA LMP - FMM LMP)	CC6460 - FMM IIE Settlement

Example 8: DA=100MW, Accepted HASP Result=50MW, Initial Fully Approved e-Tag Energy Profile= 100MW

- Tag auto adjusted by ISO is fully approved at (T-30)
- SC creates new tags and SCs created tags are fully approved at (T-28) to 125MW
- SC adjusts other tags and adjustments are fully approved at (T-21) to 50 MW

	Intvl 1	Intvl 2	Intvl 3	Intvl 4
FMM Binding Award	50	100	50	50
Fully Approved E-Tag Energy Profile	50	50	50	50