



MULTI-DAY FORECAST COMMITMENT

QUICK EDUCATION SESSION

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WHAT IS MDFC?

- A projection of commitments and prices for OD+1 – OD + 4.
- Input similar to SPP's Multi-Day Reliability Assessment study:
 - COP Commitments at the time of case snap
 - RT Offers (rolling offers forward past first study day)
 - MTLF
 - MTWF
 - Hourly Interchange Transactions
 - Outages
 - Network Topology

DIFFERENCES IN MDRA AND MD_FC

	MDRA	MD_FC
Execution Time	01:00	13:00 (after DA Posting)
Study Window	OD+1 - OD+7	OD+1 – OD+5
Intervals	<p>OD+1 = 24 Intervals</p> <p>OD+2 = 04:00, 06:00, 07:00, 08:00, 09:00, 13:00, 17:00, 21:00, 24:00</p> <p>OD+3 – OD+7 = 06:00, 12:00, 18:00, 24:00</p>	Hourly Granularity (i.e.: all 24 hours of each day)
Results	Possibility of financially binding commitments	<p>OD+1 – OD + 4:</p> <p>FORECASTED Commitments (MUI), FORECASTED LMPs (public portal), FORECASTED MCPs (public portal)</p>
Posting Time	Anytime	Usually from 21:00-24:00

IMPORTANT!

- MD_FC is not financially binding
- The accuracy of the study is dependent on the accuracy of the inputs provided by members. (i.e.: Offer data, Crow Outages)
- MD_FC has not changed any of SPP's current processes, therefore we don't have recommendations on how MP's do or do not use the study.

MUI RESULTS

- Forecasted Commitments (per Asset Owner)
 - Market Tab -> Asset Owner -> Real-Time Operating Day -> General -> Messages -> View
 - "Multi-Day Forecast results are available for the forecast days YYYY-mm-dd through YYYY-mm-dd"
- Resource Offer tab -> Asset Owner -> Resources ->
 - Forecasted Commitment History

Resource Name	▲ Effective Time	Termination Time	Forecasted Action	Action Time
RESOURCE_1	2021-01-08 05:00:00	2021-01-08 19:00:00	COMMIT	2021-01-07 09:40:36

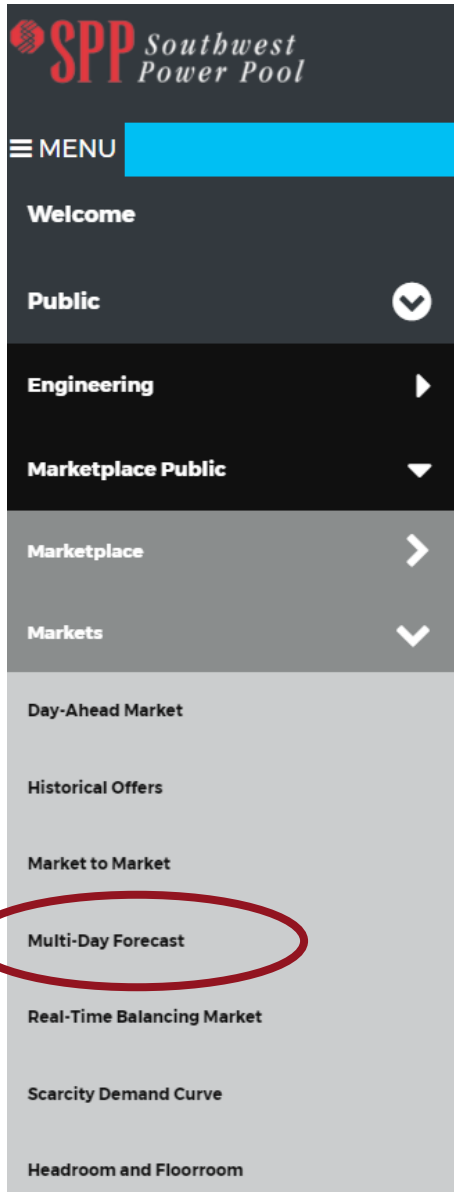
- Forecasted Commitments

Resource Name	Forecast Type	▲ Event Time	Update Time
RESOURCE_1	OFF	2020-06-10 00:00:00	2020-06-10 15:09:10
RESOURCE_1	START	2020-06-11 14:00:00	2020-06-10 15:09:10
RESOURCE_1	STOP	2020-06-11 19:00:00	2020-06-10 15:09:10

API

- The following messages are added to the Energy WSDL/XSD
 - GetEnergyForecastedCommitmentSetByDay
 - GetEnergyForecastedCommitmentHistorySetByDay
 - GetEnergyForecastedCommitmentSet (requested by resource)
 - GetEnergyForecastedCommitmentHistorySet (requested by resource)

SPP MARKETPLACE PORTAL



- Forecasted LMPs by Settlement Location
 - (for all settlement locations)

Interval	GMTIntervalEnd	Settlement Location	Pnode	LMP	MLC	MCC	MEC
4/11/2021 1:00	4/11/2021 6:00	AEC	SOUC	14.9583	0.8391	0	14.1192
4/11/2021 1:00	4/11/2021 6:00	AECC_CSWS	CSWS_AECC_LA	15.0655	0.9463	0	14.1192
4/11/2021 1:00	4/11/2021 6:00	AECC_ELKINS	CSWSELKINSUNELKINS_RA	14.8087	0.6894	0	14.1193
4/11/2021 1:00	4/11/2021 6:00	AECC_FITZHUGH	CSWSFITZHUGHPLT1	15.1832	1.0639	0	14.1193
4/11/2021 1:00	4/11/2021 6:00	AECC_FLTCREEK	CSWSFLINTCRKUN1_JOU_A	14.7764	0.6572	0	14.1192
4/11/2021 1:00	4/11/2021 6:00	AECC_FULTON	CSWSFULTON_CUNFULT_RA	15.1401	1.0209	0	14.1192

- Forecasted MCPs
 - (for all reserve zones per product)

Interval	GMTIntervalEnd	Reserve Zone	RegUP	RegDN	Spin	Supp
4/11/2021 1:00	4/11/2021 6:00	1	2.1675	2.5	0.25	0.25
4/11/2021 1:00	4/11/2021 6:00	2	2.1675	2.5	0.25	0.25
4/11/2021 1:00	4/11/2021 6:00	3	2.1675	2.5	0.25	0.25
4/11/2021 1:00	4/11/2021 6:00	4	2.1675	2.5	0.25	0.25
4/11/2021 1:00	4/11/2021 6:00	5	2.1675	2.5	0.25	0.25
4/11/2021 1:00	4/11/2021 6:00	SPP	2.1675	2.5	0.25	0.25
4/11/2021 2:00	4/11/2021 7:00	1	2.0604	3.8497	0.51	0.5
4/11/2021 2:00	4/11/2021 7:00	2	2.0604	3.8497	0.51	0.5

LMS TRAINING AVAILABLE HERE:

- <https://spp.csod.com/ui/lms-learning-details/app/video/def416c4-975c-4eed-9bfc-f7eb12610f23>