MRES® Municipal Power
LEARNING ACADEMY

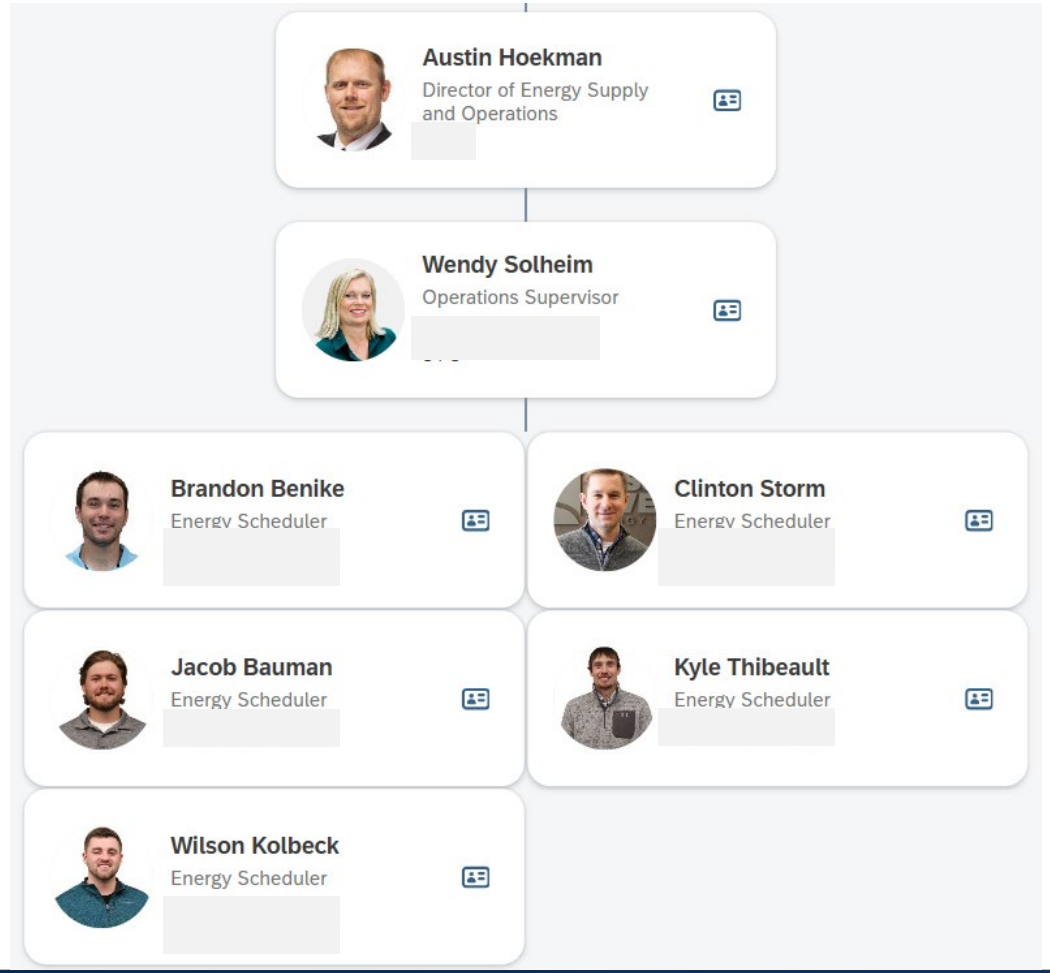
Scheduling Members' Power

Wendy Solheim

Operations Supervisor

MISSOURI RIVER® ENERGY SERVICES

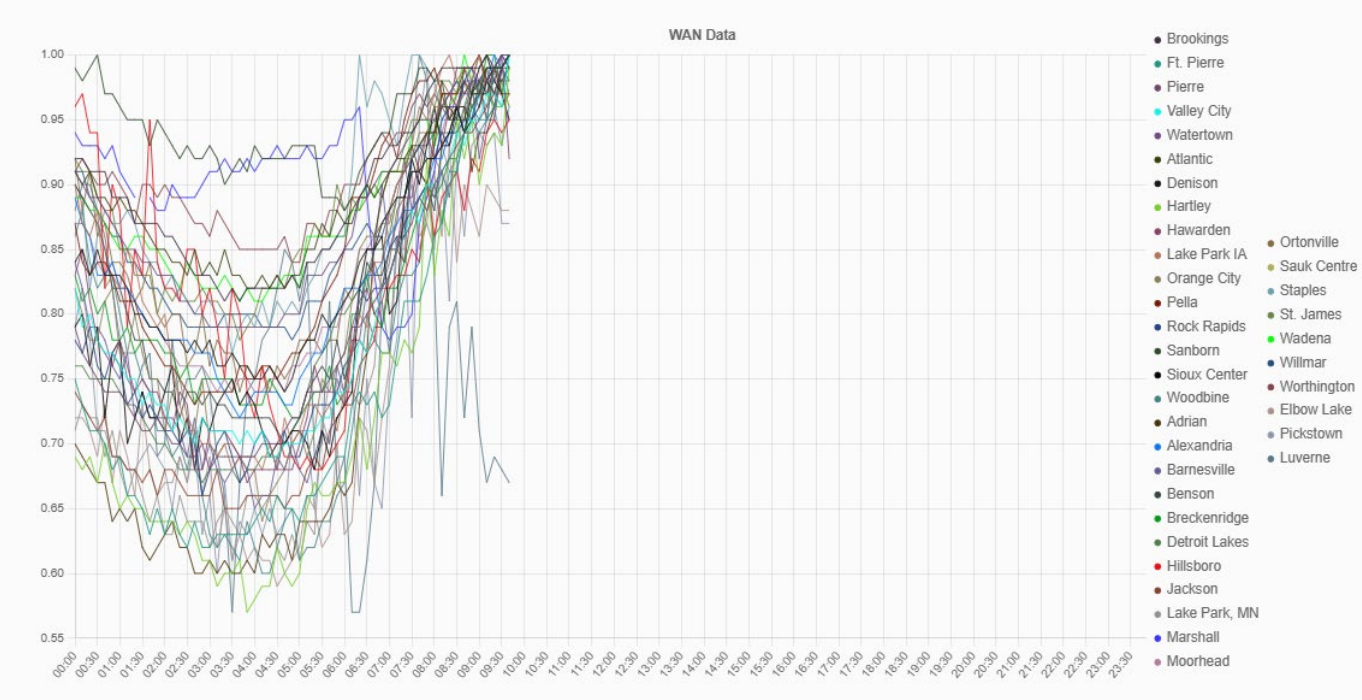
Operations Department



Energy Schedulers

- Schedule generation, loads, perform day-ahead & real-time energy market activities, and oversee generation dispatch
- 24x7 Staffing – 12-hr shifts on 5-week rotating basis
- Alternate Operations site coverage weekly for redundancy

Operations Department



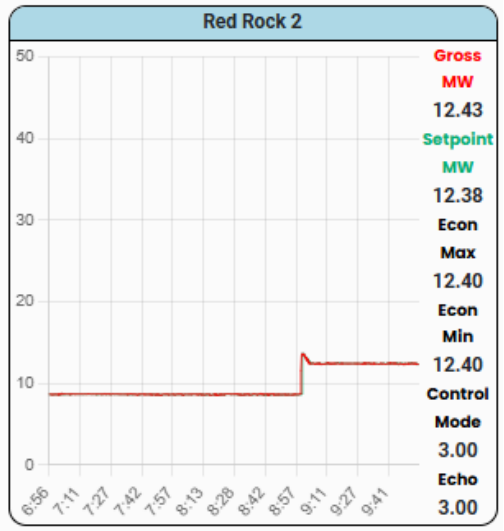
Last Itron Load File Import:	7/31/2026 6:33:05 AM
Last Itron Load File Export:	7/31/2026 2:30:33 AM
Recent Weather Updates:	7/31/2026 6:28:01 AM 7/31/2026 12:28:02 AM 7/30/2026 6:28:02 PM
Geek of the Week:	Josh Wipf, (605)201-5074, josh.wipf@mrenergy.com

Last Load Timestamps:	
WAPA	7/31/2026 6:33:05 AM
NSP	7/31/2026 6:33:03 AM
ALTW	7/31/2026 6:33:01 AM
MP	7/31/2026 6:33:03 AM
ITA	7/31/2026 6:33:04 AM
ATLN	7/31/2026 6:33:02 AM
WLMR	7/31/2026 6:33:02 AM
Cavalier	7/31/2026 6:33:03 AM
Hillsboro	7/31/2026 6:33:04 AM
Northwood	7/31/2026 6:33:04 AM
Pella	7/31/2026 6:33:02 AM

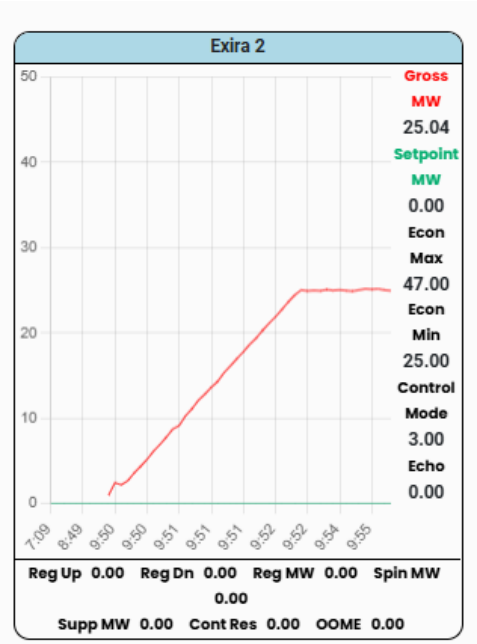
Forecasting and Load Trends

- Monitor reasonability of data
- Ensure load forecast imports are successful
- Follow-up on errant trends

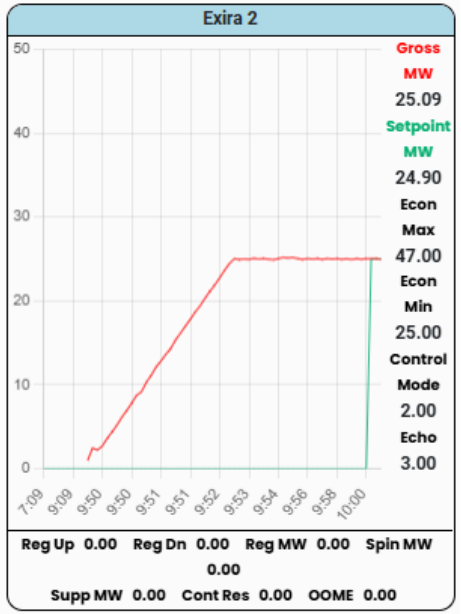
Operations Department



Flow directive change at 9:00



Unit ramping at 9:50 for commitment run



Unit coming online and meeting RTO setpoint at 10:00

Generation Asset Manager (GAM)

- Ensure units are meeting setpoints directed by RTO
- Question any significant trend shift – unit outage, wind curtailment

Operations Department

Hour	Status		Costs				Economic Limits	
	Commitment	Dispatch	Cold Startup	Intermediate Startup	Hot Startup	No Load	Min	Max
1	MARKET	MARKET	47.64	47.64	47.64	246.72	25	47
2	MARKET	MARKET	47.64	47.64	47.64	246.72	25	47
3	MARKET	MARKET	47.64	47.64	47.64	246.72	25	47
4	MARKET	MARKET	47.64	47.64	47.64	246.72	25	47

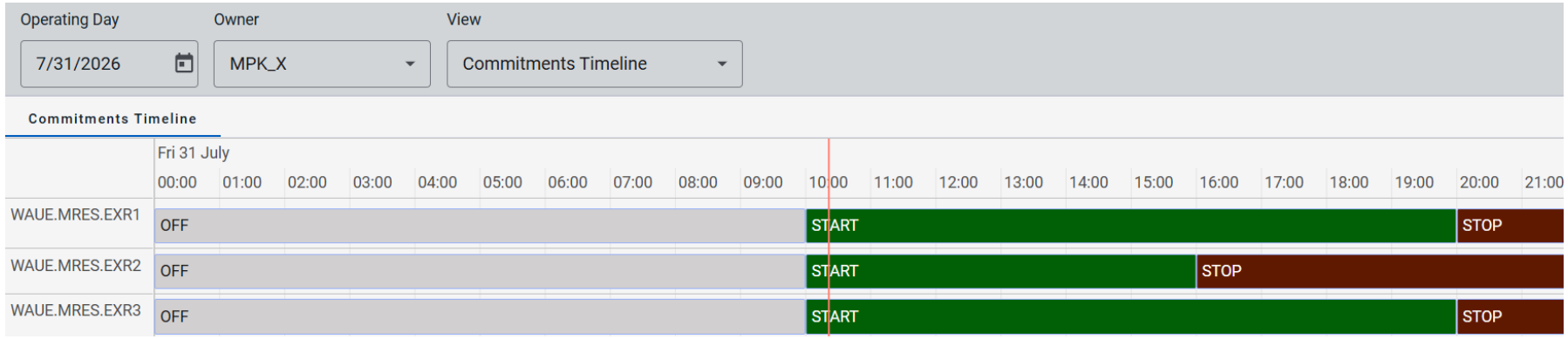
Hour	Slope	1		2		3	
		MW	Price	MW	Price	MW	Price
1	☑	25.000	$24.1200	35.000	$24.9700	45.000	$25.5700
2	☑	25.000	$24.1200	35.000	$24.9700	45.000	$25.5700
3	☑	25.000	$24.1200	35.000	$24.9700	45.000	$25.5700
4	☑	25.000	$24.1200	35.000	$24.9700	45.000	$25.5700

Day-ahead Offers

- Obtain fuel price and determine offers to submit to either MISO or SPP
- Determine any limitations prior to offer submittal, i.e. outages
- Market Close 9:30 am

Operations Department

WAUE.MRES.EXR1	START	07-31-2026 10:00
WAUE.MRES.EXR2	START	07-31-2026 10:00
WAUE.MRES.EXR3	START	07-31-2026 10:00
WAUE.MRES.EXR2	STOP	07-31-2026 16:00
WAUE.MRES.EXR1	STOP	07-31-2026 20:00
WAUE.MRES.EXR3	STOP	07-31-2026 20:00



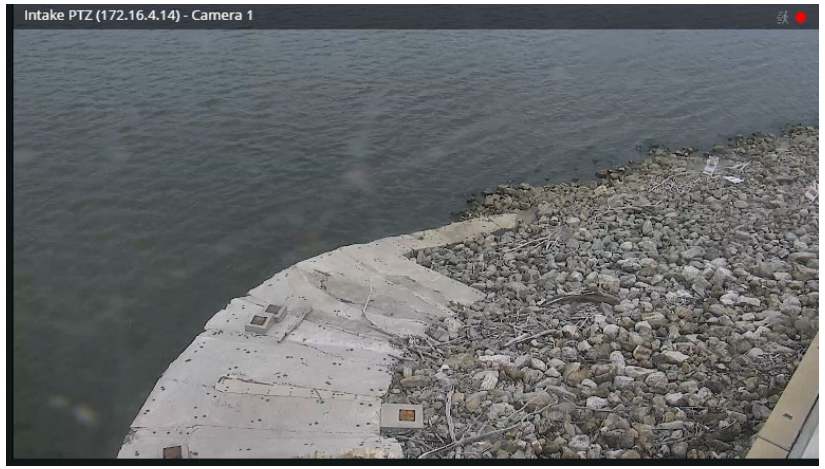
Day-ahead Awards

- Market Clearing 1:00 pm
- RTO communicates D/A commitments
- Schedulers notify gas supplier and plant operators

Operations Department





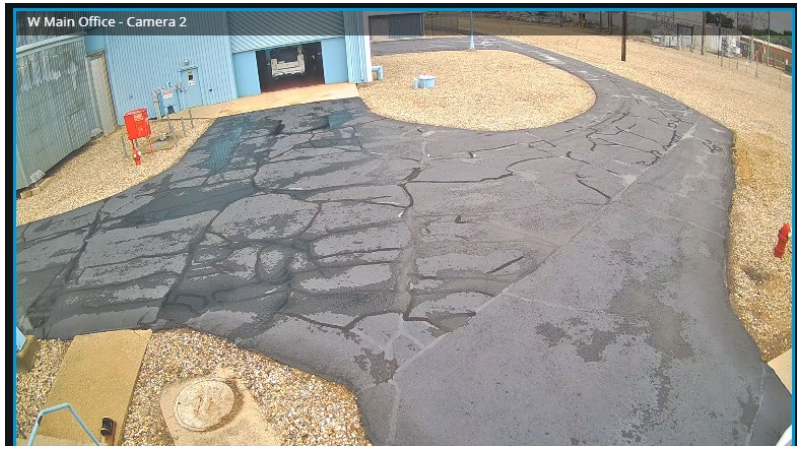


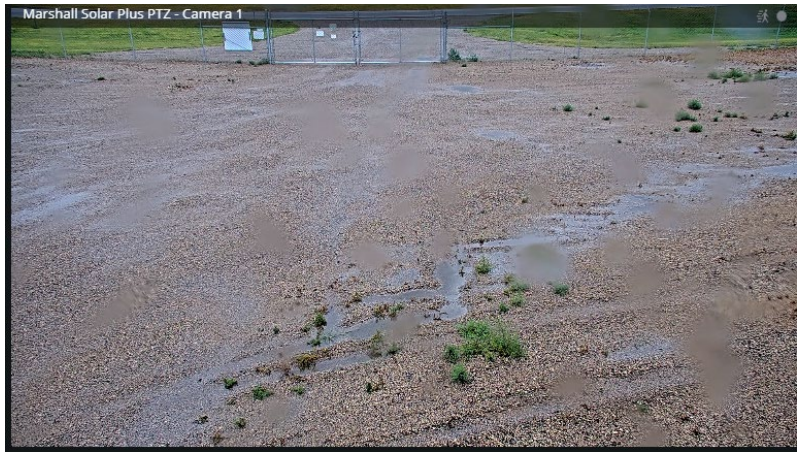


Surveillance of plants

- Exira plant and gate
- RRHP intake and tailrace

Operations Department







Surveillance of plants

- Watertown and Marshall Solar Plus
- Pierre Solar and soon Brookings Solar

Operations Department

[MISO] Updated: Maximum Generation Event Step 2 (EEA 2)

M MISO@notifications.misoenergy.org
To no-reply@notifications.misoenergy.org

Retention Policy MRES 5 Year Email Retention (5 years)

This sender MISO@notifications.misoenergy.org is from outside your organization.

You forwarded this message on 7/15/2026 1:25 PM.

MRES External Email S

MISO has updated a Maximum Generation Event Step 1 (EEA 1).

Maximum Generation Event Step 2 (EEA 2)
Start: 07/15/2026 16:00 EST
End: 07/15/2026 20:00 EST

Declared due to:
Forced generation outages
Above normal temperatures
Higher than forecasted load

Affected Region(s): Central Region, North Region

Hour Ending (EST)

	7	8	9	10	11
NSP	-	39.1	39.1	39.1	39.1
MELRGEN	-	7.4	7.4	7.4	7.4
MELRGEN_WP	-	0.8	0.8	0.8	0.8
MMUGEN	-	18.9	18.9	18.9	18.9
STJAMESGEN	-	12.0	12.0	12.0	12.0
NSP Total	-	39.1	39.1	39.1	39.1
Total MWs Needed	-	31.8	28.4	28.5	28.5
ALTW	-	20.0	20.0	20.0	20.0
ADRIANGEN	-	2.0	2.0	2.0	2.0
LAKEFGEN	-	2.0	2.0	2.0	2.0
WESTBGEN	-	2.0	2.0	2.0	2.0
WORTHGEN	-	14.0	14.0	14.0	14.0
ALTW Total	-	20.0	20.0	20.0	20.0
Total MWs Needed	-	16.9	15.1	15.1	15.1

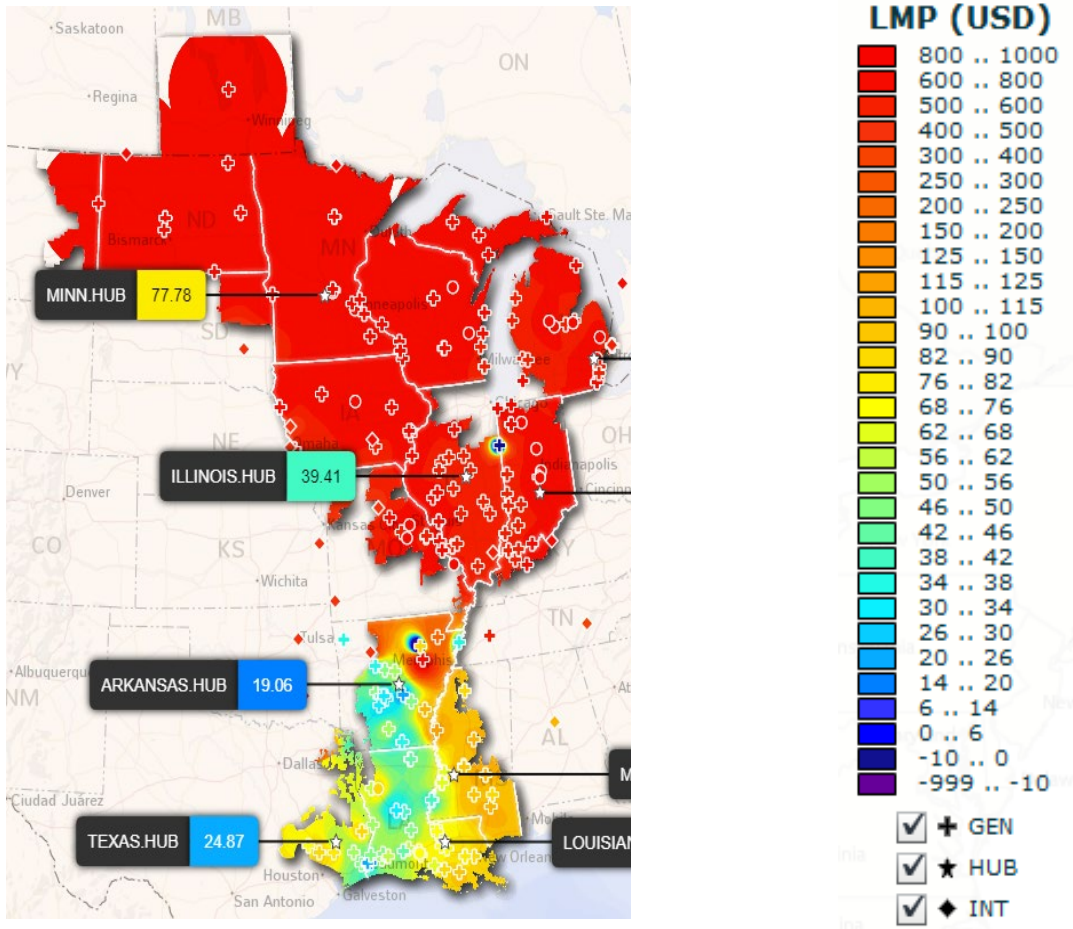
MISO EEA2 Events

- Schedulers notify generator operators at Max Gen level via text/email
- MISO provides 2 hours notice for BTMG to be online with directive of MW and runtime

RT MISO LMP contour map

January Peak – 8:15 am

5-minute price signals



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Questions?

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605-357-6936

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