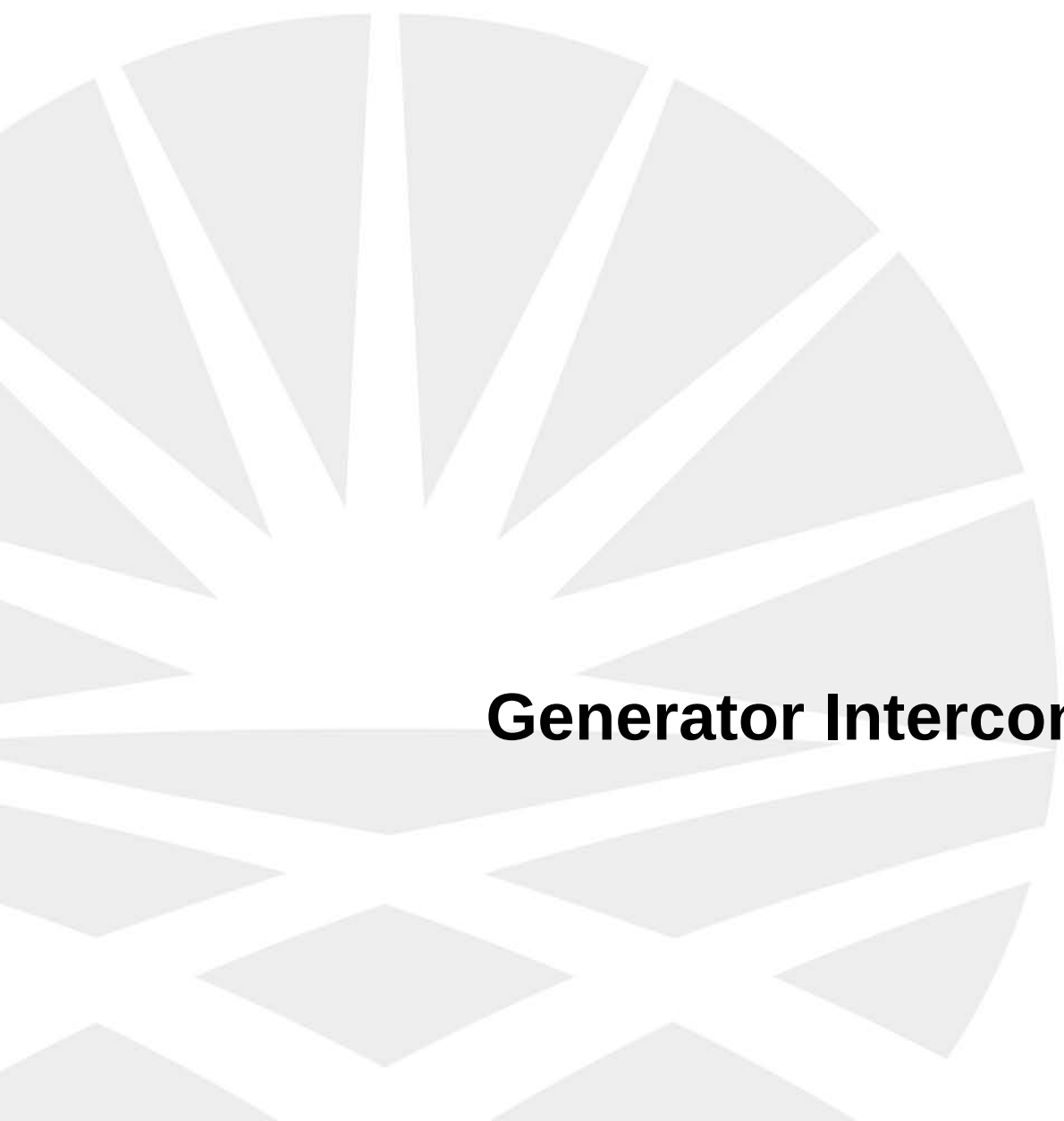


A large, light gray, stylized sun icon is positioned on the left side of the slide. It consists of a central circle with numerous triangular rays radiating outwards, creating a fan-like shape. The rays are of varying lengths and are separated by small gaps.

DPP Update Generator Interconnection Studies

July 14th, 2016

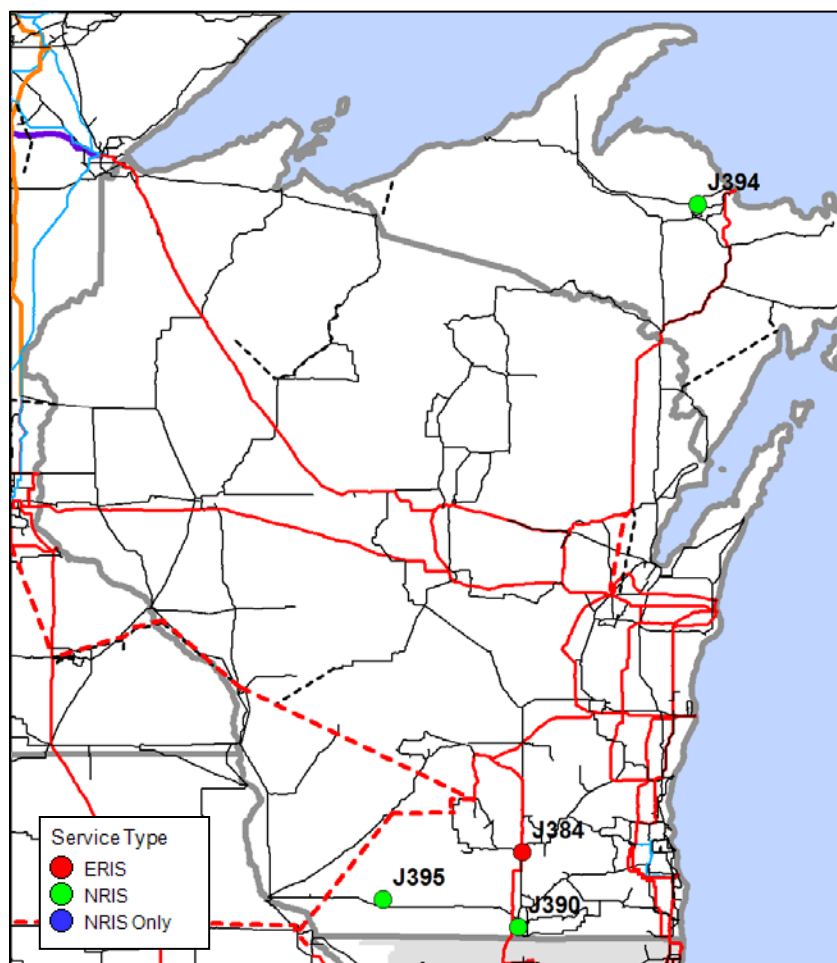
Outline

- East Area DPP summary
 - DPP-2015-FEB-ATC
 - DPP-2015-FEB-MI
 - DPP-2015-AUG-MI
- Central Area DPP summary
 - DPP-2015-FEB & 2015 AUG-Central
 - DPP-2016-FEB-Central
- West Area DPP summary
 - DPP-2015-FEB-West
 - DPP-2015-AUG-West
- South Area DPP summary
 - DPP-2015-FEB-South
 - DPP-2015-AUG-South
 - DPP-2016 -FEB-South

A large, light gray, stylized sun icon is positioned on the left side of the slide. It consists of a central circle with numerous triangular rays extending outwards, creating a semi-circular shape.

DPP East Area Summary

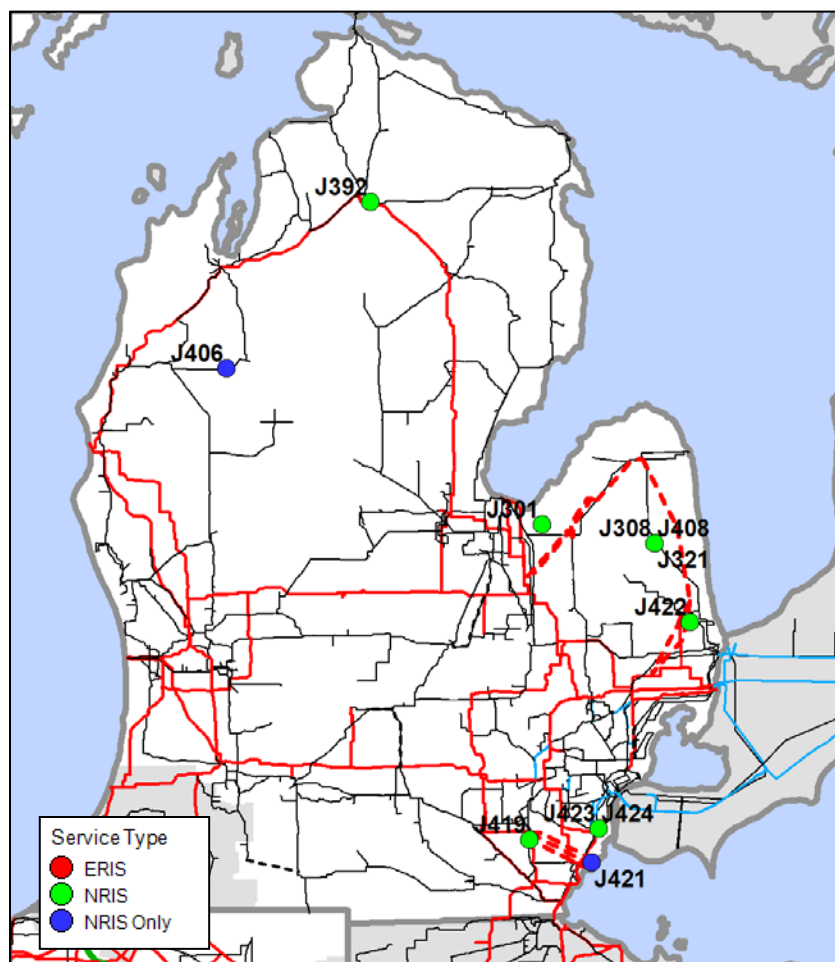
DPP 2015 February – ATC



MISO Project	County	TO	Max Summer Output (MW)	Fuel Type
J384	Dane	ATC	21	Gas
J390	Rock	ATC	702	Gas
J394	Marquette	ATC	280	Gas
J395	Lafayette	ATC	98	Wind
Total :			1101 MW	

Final Study report issued
Projects Under NU facility Study

2015 February – Michigan



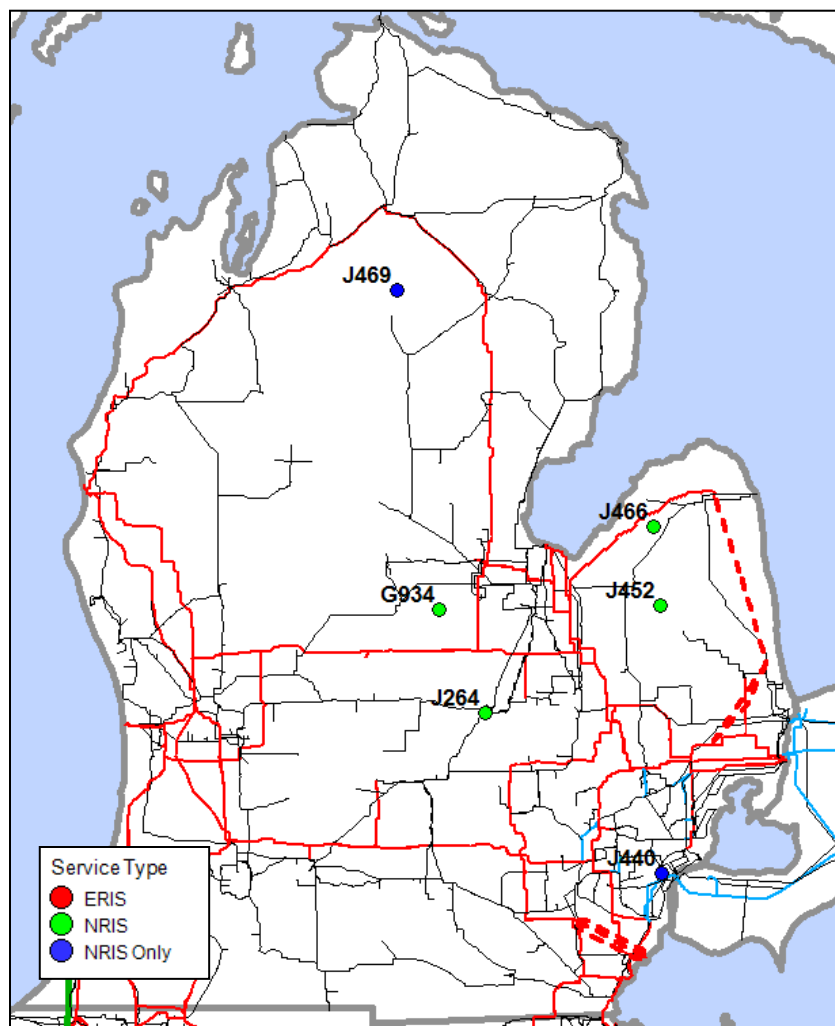
MISO Project	County	TO	Max Summer Output (MW)	Fuel Type
J301	Tuscola	ITCT	101	Wind
J308	Sanilac	ITCT	301	Wind
J321	Sanilac	ITCT	151.2	Wind
J392	Otsego	METC	383.1	Gas
J406	Wexford	METC	4	Wood
J408	Sanilac	ITCT	200	Wind
J419	Washtenaw	ITCT	100	Solar
J421	Monroe	ITCT	32	Nuclear
J422	St. Clair	ITCT	30	Gas
J423*	Wayne	ITCT	125	Gas
J424*	Wayne	ITCT	120	Gas

*Withdrawn

Total : 1547 MW

Restudy Determination in Progress
for J408 withdrawal

2015 August – Michigan



MISO Project	County	TO	Max Summer Output (MW)	Fuel Type
G934	Gratiot	METC	150	Wind
J264	Shiawassee	METC	120	Wind
J440	Wayne	ITCT	80	Gas
J452*	Sanilac	ITCT	150	Wind
J466	Huron	ITCT	30	Co-Gen
J469	Crawford	ITCT	1.8	Wood
Total :			382 MW	

*Withdrawn

Est. Study Kickoff: Dependent on
2015 FEB restudy determination

A large, faint, light gray graphic is positioned on the left side of the slide. It features a semi-circular sunburst at the top, with rays extending downwards and outwards. Below the sunburst, there are several diamond-shaped elements arranged in a symmetrical pattern, resembling a stylized flower or a geometric design.

DPP Central Area Summary

DPP 2015 February & 2015 August – Central

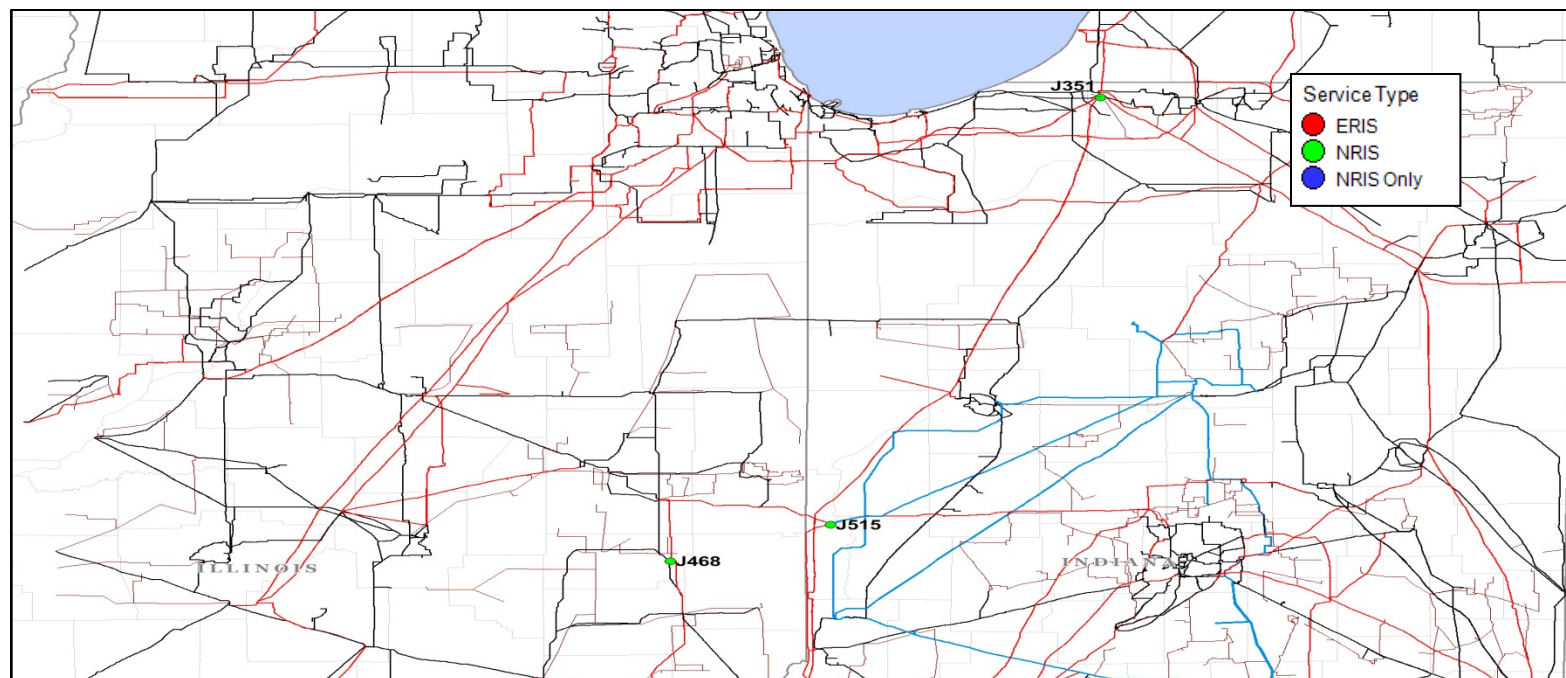
MISO Project	TO	Service Requested	Max Summer Output (MW)	Fuel Type
J375	AMRN	ERIS	124	Wind
J401	IPL	NRIS	+20/-21	Battery
J431	NIPS	NRIS Only	100	Wind

Total : 244 MW

MISO Project	TO	Service Requested	Max Summer Output (MW)	Fuel Type
J291	AMRN	NRIS	42	Gas
J453	CIN	ERIS	17.25	Solar
Total :			59.25 MW	

All Studies Complete.
GIA negotiations Complete.

DPP 2016 February – Central



Currently under model build.
Est. Study Kickoff: Aug. 2016

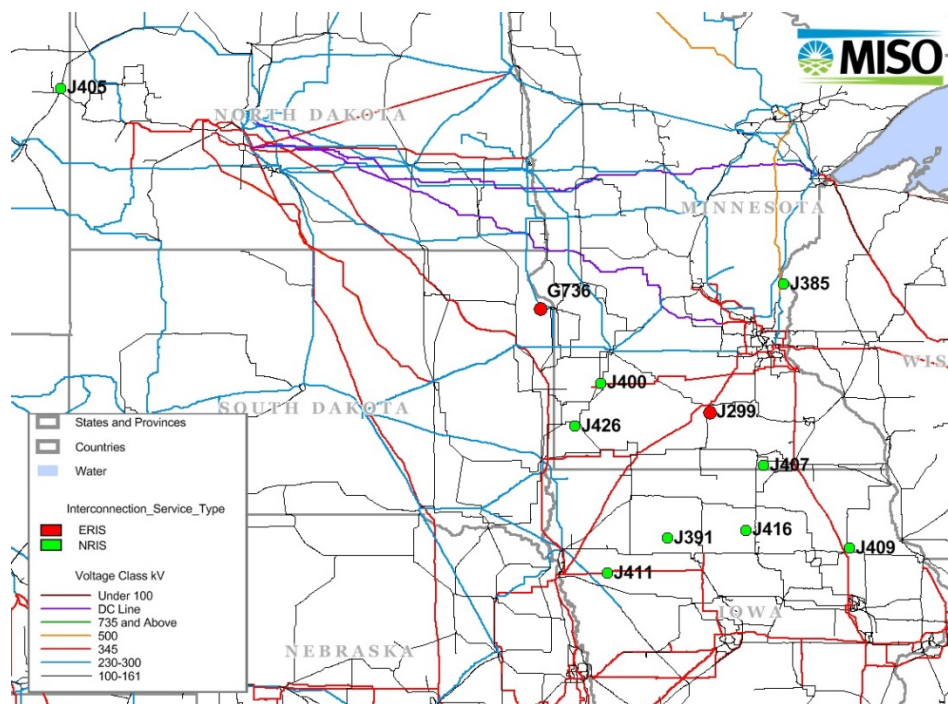
MISO Project	TO	Service Requested	Max Summer Output (MW)	Fuel Type
J351	NIPSCO	NRIS	705	Gas
J468	AMRN	NRIS	202	Wind
J515	DEI	NRIS	400	Wind

Total : 1307 MW

A large, light gray, stylized sun icon is positioned on the left side of the slide. It consists of a central circle with numerous triangular rays extending outwards, creating a semi-circular shape.

DPP West Area Summary

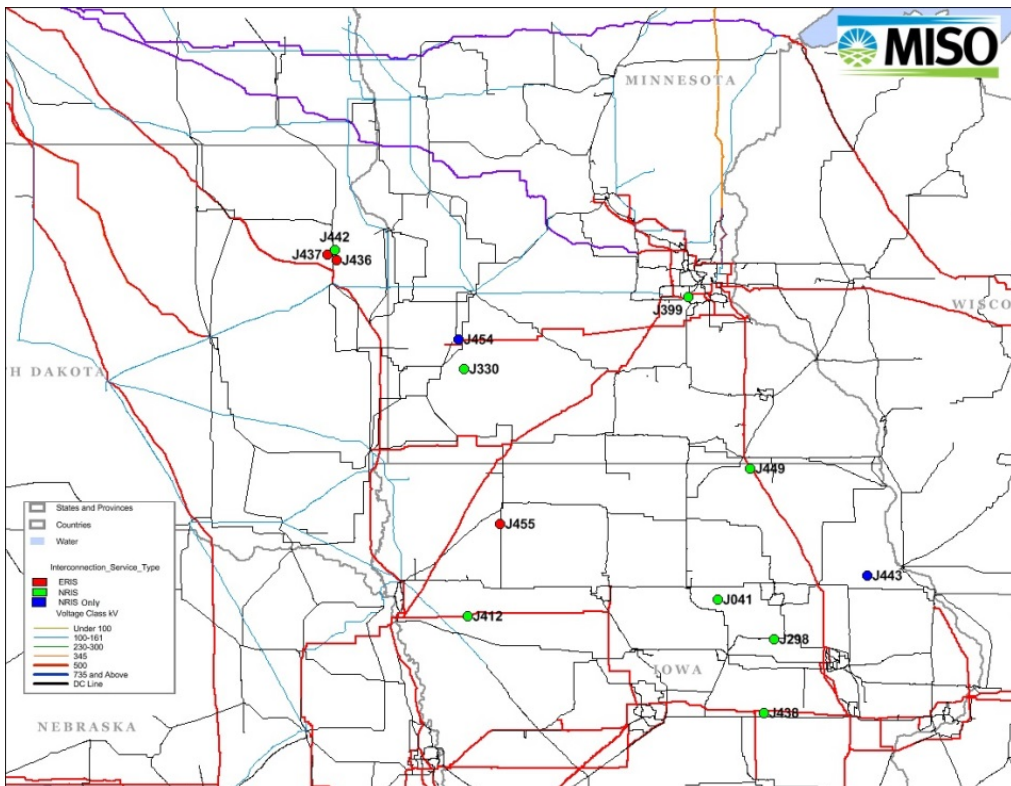
DPP 2015 February - West



MISO Project	TO	Service Requested	Max Summer Output (MW)	Fuel Type
G736	OTP	ERIS	200	Wind
J299	XEL (NSP)	ERIS	73	Gas
J385	XEL (NSP)	NRIS	100	Solar
J391	MRES	NRIS	50	Gas
J400	XEL (NSP)	NRIS	62.5	Solar
J405	MDUM	NRIS	40	Gas
J407	ITCM	NRIS	200	Wind
J411	MEC	NRIS	300	Wind
J416	ITCM	NRIS	200	Wind
J426	XEL (NSP)	NRIS	100	Wind
Total :			1475.5 MW	

Draft report issued
SPP affected system study under review

DPP 2015 August - West

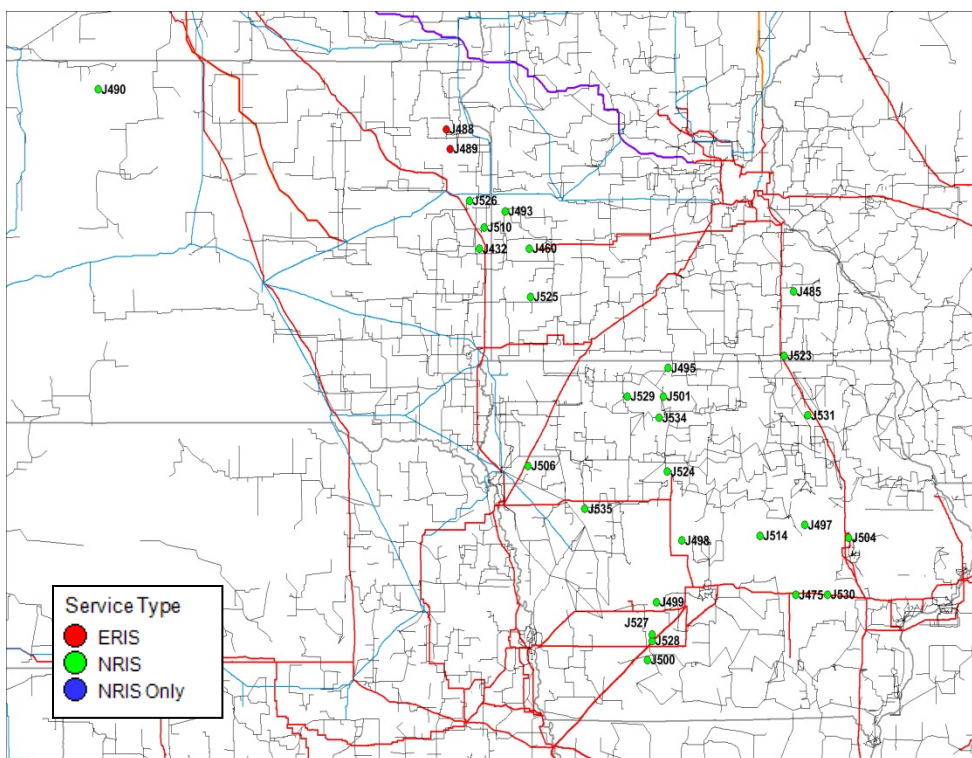


MISO Project	TO	Service Requested	Max Summer Output (MW)	Fuel Type
J041	ITCM	NRIS	90	Wind
J298	ITCM	NRIS	300.9	Wind
J330	Xcel	NRIS	24.75	Solar
J399	Xcel	NRIS	214 (Summer)	Gas
J412	MEC	NRIS	200	Wind
J436	OTP	ERIS	150	Wind
J437	OTP	ERIS	150	Wind
J438	ITCM	NRIS	170.2	Wind
J442	OTP	NRIS	200	Wind
J443	ITCM	NRIS only	41	Wind
J449	ITCM	NRIS	202	Wind
J454	MRES	NRIS only	18.9	Wind
J455	MEC	ERIS	300	Wind

Total : 2061.75 MW

Study started on 06/14/2016
Currently under model review
Est. Completion : October 2016

DPP 2016 February - West



MISO Project	TO	Service Requested	Max Summer Output (MW)	Fuel Type
J432	Xcel	NRIS	98	Wind
J460	GRE	NRIS	200	Wind
J475	MEC	NRIS	200	Wind
J485	RPUM	NRIS	46.85	Gas
J488	MDUM	ERIS	151.8	Wind
J489	MDUM	ERIS	151.8	Wind
J490	MDUM	NRIS	60	Wind
J493	OTP	NRIS	150	Wind
J495	ITCM	NRIS	200	Wind
J497	ITCM	NRIS	170	Wind
J498	MEC	NRIS	340	Wind
J499	MEC	NRIS	340	Wind
J500	MEC	NRIS	500	Wind

Pending DPP-2015-AUG Completion

DPP 2016 February - West

MISO Project	TO	Service Requested	Max Summer Output (MW)	Fuel Type
J501	MEC	NRIS	500	Wind
J504	ITCM	NRIS	50	Solar
J506	MEC	NRIS	200	Wind
J510	OTP	NRIS	326.9 (Winter)	Gas
J514	ITCM	NRIS	65 (Winter)	Gas
J523	ITCM	NRIS	50	Solar
J524	MEC	NRIS	100	Solar
J525	Xcel	NRIS	50	Solar
J526	OTP	NRIS	300	Wind
J527	MEC	NRIS	250	Wind
J528	MEC	NRIS	200	Wind
J529	MEC	NRIS	250	Wind
J530	MEC	NRIS	250	Wind

MISO Project	TO	Service Requested	Max Summer Output (MW)	Fuel Type
J531	Xcel	NRIS	200	Wind
J534	MEC	NRIS	250	Wind
J535	MEC	NRIS	210	Wind
Total:			5860.35 MW	

Pending DPP-2015-AUG Completion

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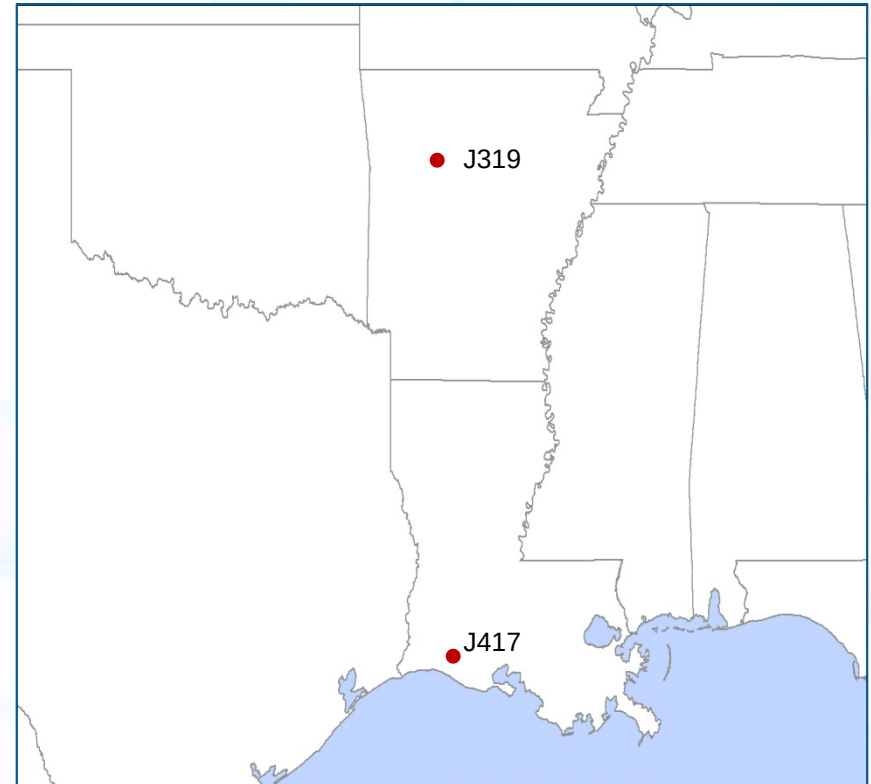
DPP South Area Summary

DPP 2015 February - South



MISO Project Number	TO	Service Requested	MW	Fuel
J319	Entergy	NRIS	500	HVDC
J417 Withdrawn	Entergy	NRIS	43	Waste Recovery/ Steam

- SIS – Draft SIS report sent out for review/comments on 6/30/16
- FAS study report posted – 6/1/2016
- SSTI / SSR / HIS study in progress

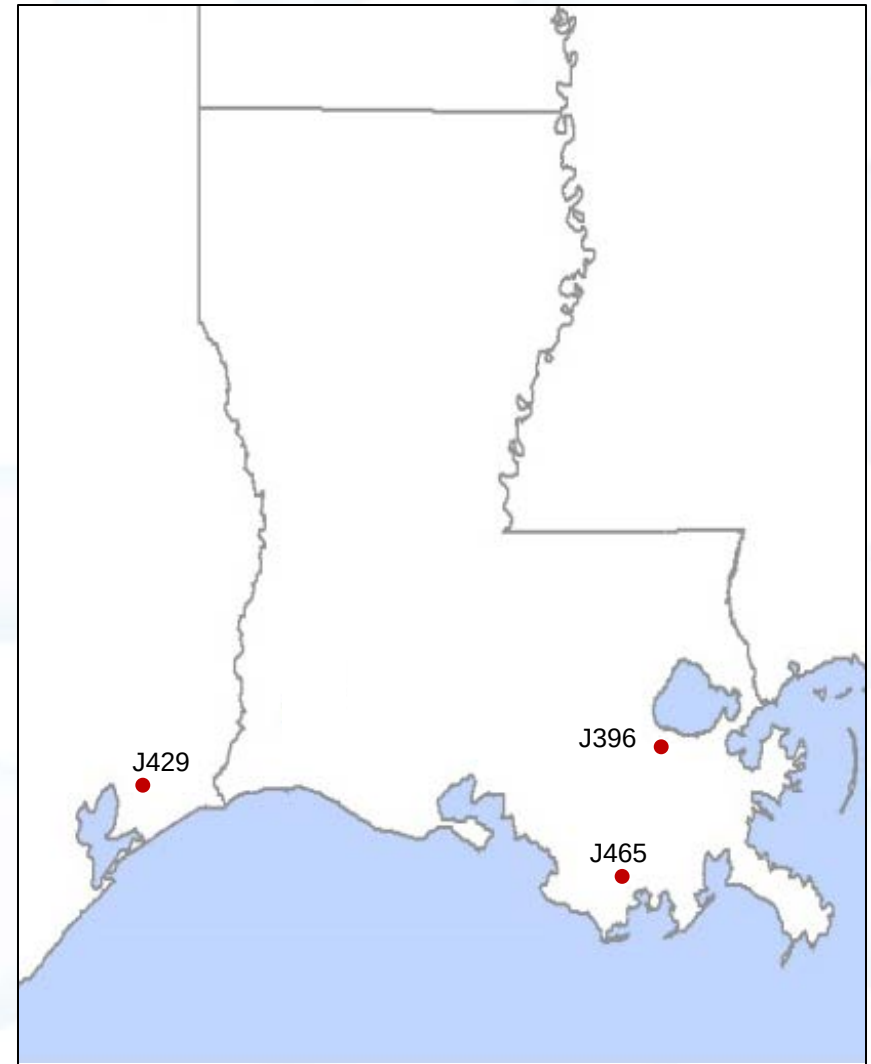


DPP 2015 August - South



MISO Project Number	TO	Service Requested	MW	Fuel
J396	Entergy	NRIS	904	CC(2), GT(1)
J429	Entergy	NRIS	100	Wind Turbine
J465	Cleco	NRIS	44.1	Waste recovery

- Final DPP SIS report posted on 5/5/2016
[https://www.misoenergy.org/ layouts/MISO/ECM/Redirect.aspx?ID=224051](https://www.misoenergy.org/layouts/MISO/ECM/Redirect.aspx?ID=224051)
- FAS1 studies - completed
- FAS2 studies - ongoing



DPP 2016 February - South



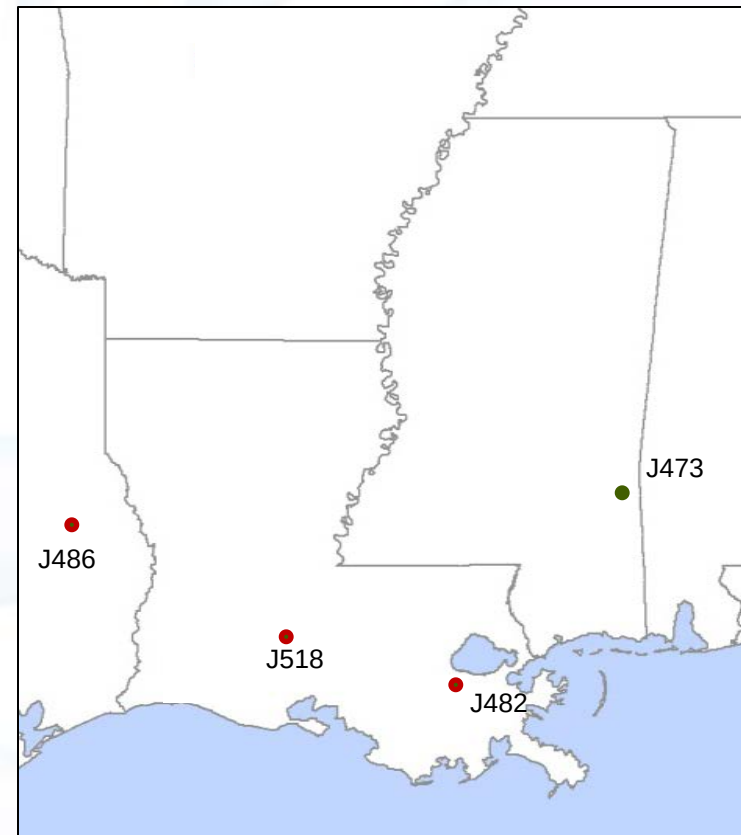
- DPP 2016 February south study kick off meeting – 7/19/16

MISO Project Number	TO	Service Requested	MW	Fuel
J473*	SMEPA	ERIS	52	Solar
J482	Entergy	NRIS	19.8	CC Gas
J486	Entergy	NRIS Only	51.5	Combined Cycle
J518	Entergy	NRIS	49.5	Solar

* Note: GIA has been executed for J473; whose POI is remote with respect to other projects in DPP 2016 February south.

Final DPP SIS report posted on 2/12/2016

<https://www.misoenergy.org/Planning/GeneratorInterconnection/Pages/ActiveStudyReportsandPolicyStatements.asp>



Contacts

Chad Craven – DPP West Area Contact

ccraven@misoenergy.org

651.632.8478

Swaraj Jammalamadaka – DPP West Area Contact

sjammalamadaka@misoenergy.org

651.632.8458

Meera Shukla – DPP South Area Contact

mshukla@misoenergy.org

504.846.7111

Shane O'Brien – DPP East Area Contact

sobrien@misoenergy.org

651.632.8453

Weiqing Jiang – DPP Central Area Contact

wjiang@misoenergy.org

317.249.5453