

2013 Summer Capacity Survey

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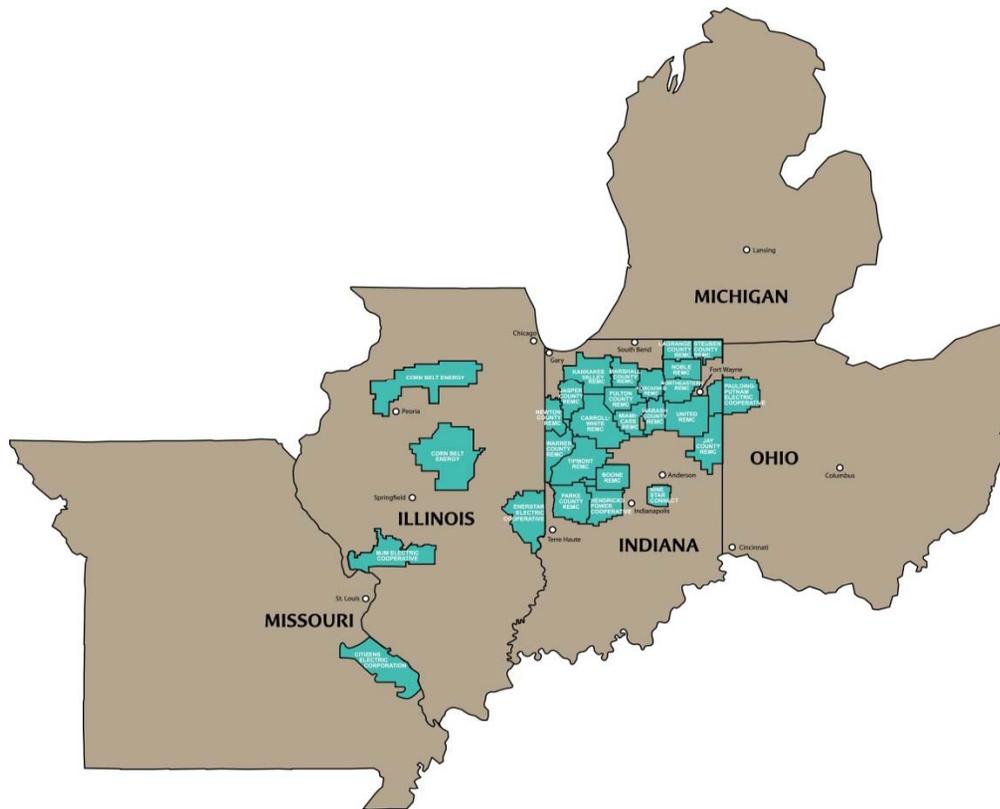
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Summer Actions

- Historic/Forecasted Peaks
- Capacity Supply Assessment
- Generation Resources
- Demand Side Programs
- Emergency Preparedness
- Commission Questions

WVPA Membership



- 26 Distribution Cooperatives and 1 non-member in 4 states
- Operates in both MISO & PJM
- Load in seven Local Balancing Authorities
- Not segregated into separate state operating companies
- Reliability First and SERC Regional Entities

2012 Historic Peak Demand

Summer Peak 2012

Date: 7/7/2012

Time: HE 18:00 EDT

Peak Metered Member Demand System: 1,716 MW

Peak Metered Total System Demand: 1,844 MW

Peak Metered Demand Indiana: 1,333 MW (16:00, 7/7/2012)

WVPA's average annual peak growth has been 3.4% and energy growth has been 1.5% over the past five years. The Indiana portion of average annual peak growth has been 1.6% and energy growth has been 1.2% over the past five years.

2013 Peak Demand Projections

(MW)

	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>
Indiana	1,221	1,276	1,268	1,121
Non-Indiana	455	468	461	413
Firm Sales	<u>96</u>	<u>107</u>	<u>104</u>	<u>105</u>
Total	1,772	1,851	1,833	1,639

This is WVPA's forecast of total coincident peak demand and not necessarily the same as the capacity requirements set forth in the MISO and PJM tariffs.

2013 Capacity Reserve Margin

	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
ICAP	15.9%	17.8%	15.4%	16.9%	14.7%	14.4%
UCAP		8.4%	8.4%	9.3%	7.5%	6.8%

PJM - Secured and Supplied Capacity Requirements in RPM Market

MISO – Met Module E Requirement

2013 ICAP Reserve Margin: **14.2%**

2013 UCAP Reserve Margin: **6.2%**

2013 Power Supply Resources (MW)

	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>
Owned	1,023	1,023	1,023	1,023
Purchase Unit Contingent	311	311	311	311
Purchase Load Follow	228	243	242	211
Purchase Shaped/Sched.	118	120	120	109
Purchase 7x24	335	335	335	335
Purchase 5x16	50	50	50	50
Purchase Wind Turbine	<u>39</u>	<u>39</u>	<u>39</u>	<u>39</u>
Total Energy Resources	2,104	2,121	2,120	2,078

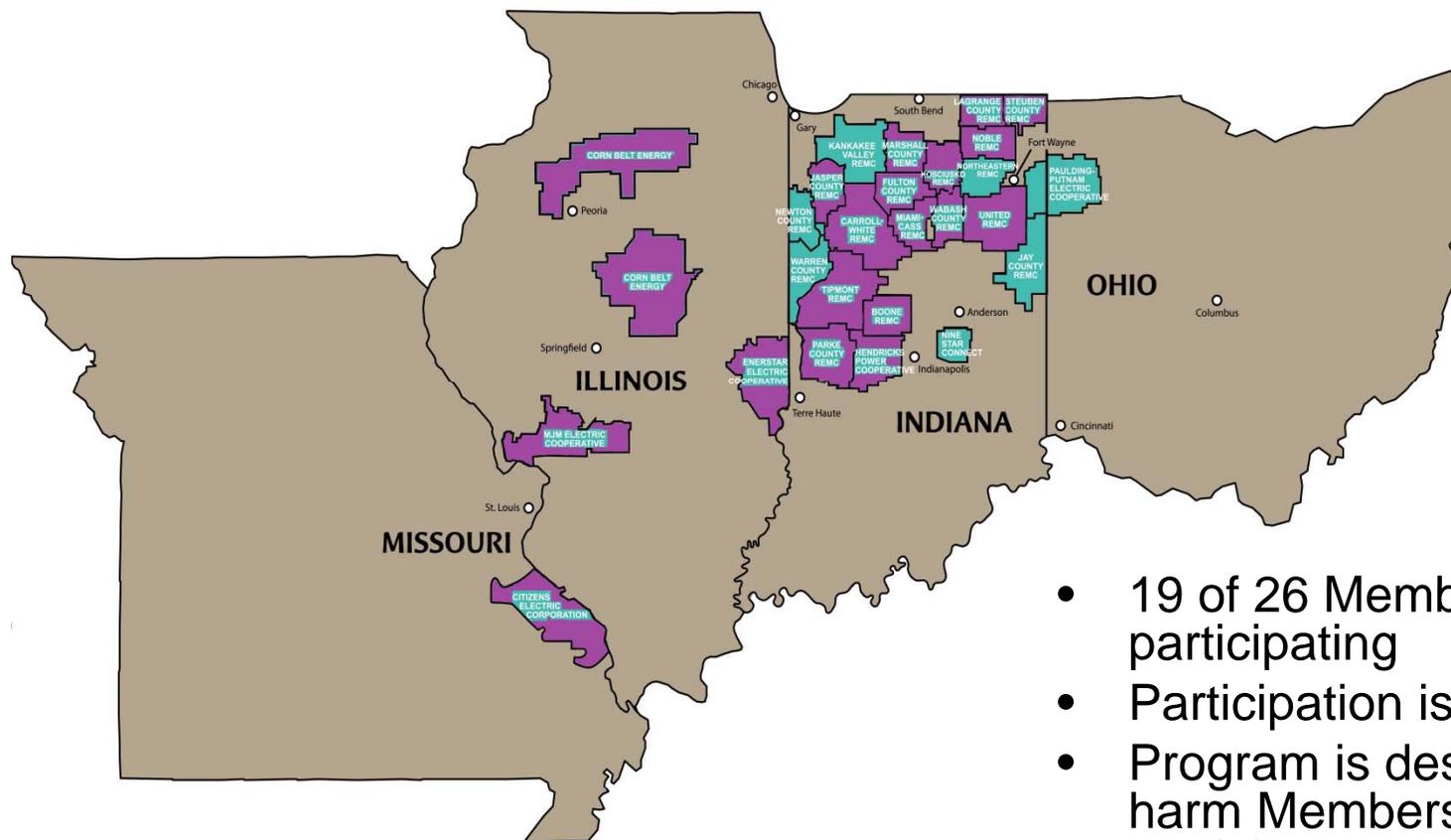
2013 Owned Resources

	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>
<u>Coal</u>				
Gibson 5	156	156	156	156
<u>Pet Coke</u>				
Wabash River 1	220	220	220	220
<u>Landfill Gas</u>				
Deer Croft 1-2	6	6	6	6
Prairie View 1-2	6	6	6	6
Twin Bridges 1-4	12	12	12	12
Wheeler	1	1	1	1
Jay	2	2	2	2
Liberty 1-2	6	6	6	6
Oak Ridge	3	3	3	3
Earth Movers	4	4	4	4
<u>Natural Gas</u>				
Holland Energy	305	305	305	305
Lawrence Gen	86	86	86	86
Vermillion Peaking	<u>216</u>	<u>216</u>	<u>216</u>	<u>216</u>
Total Owned	1,023	1,023	1,023	1,023

Demand Response

- “Legacy Program” – completely phased out
- “Power Shift” – New program in deployment
 - Two-way communication
 - Load information gathered with MDM
 - Water Heaters, HVAC, Pool Pumps, Irrigation, Whole House
- Steel Dynamics Inc. (SDI)
 - participates in PJM program as a Demand Resource
 - SDI reduces capacity requirements
 - WVPA registers this on their behalf

New DR Program Participation



- 19 of 26 Members are participating
- Participation is voluntary
- Program is designed to not harm Members that don't participate

Power Shift

Device	To Date		Forecast 2018	
	Count	KW	Count	KW
WH Switches	5,780	3,468	55,000	33,000
AC Switches	1,311	1,311	10,000	10,000
PP Switches	12	12	30	30
FI Switches	96	3,185	320	10,560
Total	7,199	7,976	65,350	53,590

Emergency Preparedness

- WVPA operates in seven balance authorities:
 - AEP, Duke, IPL, NIPSCO, Ameren-IL, Ameren-MO, and Consumers
- WVPA operates in two RTO's, MISO and PJM
- WVPA does not directly operate transmission
- Coordinate with balance authorities to provide appropriate WVPA emergency response

Commission Questions

- 2013 Legislation from the Indiana General Assembly
- Compliance with EPA Regulations
- Generation

Commission Questions

- Coordination of Natural Gas Supply for Electric Generation and Traditional Natural Gas Usage
- Cost Premium for Renewable Energy
- Lessons Learned from the Recent Drought
- Cost Drivers Behind Increasing Rates
- Restructured Retail Electricity Markets

Conclusion

WVPA believes it has adequate resources to meet our member's needs during the summer of 2013