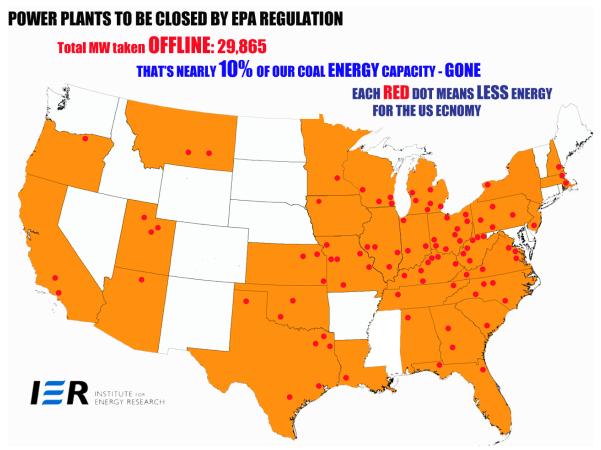


Update on the Impact of EPA's Regulatory Assault on Power plants: New Regulations to Take 30 GW of Electricity Generation Offline and the Plant Closing Announcements Keep Coming...

So if somebody wants to build a coal-fired plant they can. It's just that it will bankrupt them..."
- Barack Obama speaking to San Francisco Chronicle, January 2008

In October, the Institute for Energy Research reported that, according to the Environmental Protection Agency's (EPA) modeling and announced power plant closures, EPA's upcoming regulations will shutter almost 28 GW of electricity generation capacity. At the time, we warned that "this number will grow as plant operators continue to release their EPA compliance plans." Now, a mere two months later, our analysis indicates that the amount of generation set to close because of EPA's regulations has grown to almost 30 GW.

Unfortunately, numerous generators across the country are warning of further retirement announcements. EPA's announcement that it has finalized the Mercury and Air Toxics Rule (Utility MACT) will surely be met with a further wave of plant closure announcements in the coming weeks and months as utilities struggle to comply with these burdensome regulations.



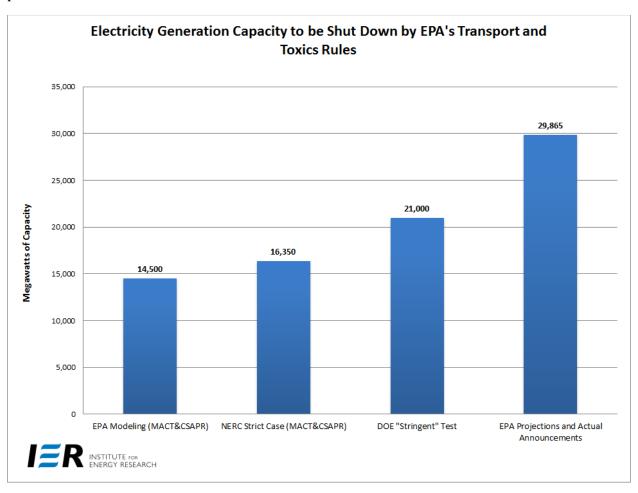
1100 H Street NW · Suite 400 · Washington, DC 20005 · Phone 202.621.2950 · Fax 202.637.2420

Since Our Report was Released Two Months Ago, Another 1.5 GW of Retirements Due to EPA Regulations Have Been Announced

Operators in Michigan, Wisconsin and Georgia have announced new closures since we first published our closure list two months ago. Additionally, operators in Minnesota announced they would cease plans to convert a coal plant to natural gas, letting the plant retire due to EPA regulations.² In just two short months, retirements related to EPA regulations have grown by 1.5 GW, over 10% of the *total* retirements predicted by EPA.

Reality Already Shows that EPA's Modeling is a Gross Underestimate

According to EPA, their modeling of the Utility MACT rule³ and Cross State Air Pollution Rule (CSAPR)⁴ shows that these regulations will only shutter 14.5 GW of electricity generation capacity. But events in the real world already show how EPA's model is a gross underestimate. Our analysis combined EPA's modeling with actual announcements and it shows that, so far, EPA's regulations will shutter twice as much generating capacity as EPA predicts.



NERC is Concerned about Reliability even though It Underestimates the Amount of Closures

It should be further noted that the North American Reliability Corporation's (NERC) modeling of the MACT rule and CSAPR estimate that under the worst case, or "strict" scenarios, 16,350 GW of electricity capacity will be closed due to the regulations, and the Department of Energy's (DOE) "stringent" test shows that only 21 GW of generating capacity will be closed. Even though NERC's estimate is much lower than what our analysis shows, NERC is concerned that the closures will cause electricity reliability problems. How much greater will the reliability problems be, given that retirements appears to be nearly twice as great as NERC estimates?

Announced and EPA Projected Retirements Are Significantly Higher than DOE's Worst Case Scenarios

The Obama administration's DOE recently released a study claiming that even under a theoretical "stringent" test, EPA regulations would only close 21 GW of generation. EPA has since claimed this study proves regulations will not threaten reliability. Our analysis, however, shows that between EPA projections and operator announcements, at least 30 GW of generation will close—almost 9 GW more than DOE's supposedly ultra-strict test scenario.

Michigan Hit Worst By Latest Announcements

In our updated analysis, the vast majority of new announced retirements will occur in Michigan, where operators announced more than 1 GW of closures due to EPA regulations.⁶ The state, already reeling from record high unemployment, has warned that further closures due to the regulations could threaten reliability in both the Upper and Lower Peninsulas.

Updated List of Power Plants Set to Close According to EPA's Modeling and Public Disclosures

The following is a list of all of the power plants that are set to close according to EPA's modeling combined with public disclosures. A complete explanation of the methodology we used to compile this list is in the Appendix.

¹ Institute for Energy Research, *IER Identifies Coal Fired Power Plants Likely to Close as Result of EPA Regulations*, Oct. 7, 2011, http://www.instituteforenergyresearch.org/2011/10/07/ier-identifies-coal-fired-power-plants-likely-to-close-as-result-of-epa-regulations/.

² David Shaffer, *Xcel's power pullback*, STAR TRIBUNE, Dec. 1. 2011, http://www.startribune.com/business/134825258.html.

³ Environmental Protection Agency, *Regulatory Impact Analysis of the Proposed Toxics Rule*, Mar. 2011, http://www.epa.gov/ttn/atw/utility/ria_toxics_rule.pdf

⁴ Environmental Protection Agency, *Regulatory Impact Analysis (RIA) for the final Transport Rule*, http://www.epa.gov/airtransport/pdfs/FinalRIA.pdf

⁵ See North American Electric Reliability Corp, 2011 Long-Term Reliability Assessment, Nov. 2011, http://www.nerc.com/files/2011LTRA_Final.pdf.

⁶ Cassandra Sweet, *Michigan Utility to Scrap 'Clean-Coal' Plant, Shut Older Coal Unit,* WALL STREET JOURNAL, http://online.wsj.com/article/BT-CO-20111202-713204.html

Power Plants Retired by EPA Regulations (EPA Modeling and Announced Retirements)

Plant Name	Unit	Address	City	County	State	Zin	Capacity (MW)	Year	<u>Fuel</u> Source	Citation
<u>Flant Name</u>	OTIIL	900 Steam Plant	<u>City</u>	County	State	<u> </u>	<u>(1010 0)</u>	<u>rear</u>	<u>Source</u>	IPM Parsed Results - Policy Case
Colbert	1	Rd.	Tuscumbia	Colbert	AL	35674	176	2015	Coal	(Toxics Rule)
Colbort	<u> </u>	900 Steam Plant	raccambia	Colbort	,	0007 1	170	2010	Cour	IPM Parsed Results - Policy Case
Colbert	2	Rd.	Tuscumbia	Colbert	AL	35674	176	2015	Coal	(Toxics Rule)
00.0011	_	900 Steam Plant		00.0011					-	IPM Parsed Results - Policy Case
Colbert	3	Rd.	Tuscumbia	Colbert	AL	35674	176	2015	Coal	(Toxics Rule)
		900 Steam Plant								IPM Parsed Results - Policy Case
Colbert	4	Rd.	Tuscumbia	Colbert	AL	35674	172	2015	Coal	(Toxics Rule)
										IPM Parsed Results - Policy Case
Navajo	3	P.O. Box 850	Page	Coconino	ΑZ	86040	750	2015	Coal	(Toxics Rule)
·										,
		1175 Carrack Ave,							Petroleum	IPM Parsed Results - Policy Case
BP Wilmington Calciner	GEN1	PO BOX 1028	Wilmington	Los Angeles	CA	90748	29	2015	Coke	(Toxics Rule)
		16608 Porterville							Petroleum	IPM Parsed Results - Policy Case
Rio Bravo Poso	CFB	Hwy	Bakersfield	Kern	CA	93380	33	2015	Coke	(Toxics Rule)
Northside Generating		4377 Heckscher								IPM Parsed Results - Policy Case
Station	1	Drive	Jacksonville	Duval	FL	32226	275	2015	Coke	(Toxics Rule)
Northside Generating		4377 Heckscher								IPM Parsed Results - Policy Case
Station	2	Drive	Jacksonville	Duval	FL	32226	275	2015	Coke	(Toxics Rule)
		1460 Gulf Power								IPM Parsed Results - Policy Case
Scholz	1	Road	Sneeds	Jackson	FL	32460	49	2015	Coal	(Toxics Rule)
		1460 Gulf Power								IPM Parsed Results - Policy Case
Scholz	2	Road	Sneeds	Jackson	FL	32460	49	2015	Coal	(Toxics Rule)
										Southern Company Comments
		1100 Milledgeville								on EPA NESHAP Action (Aug. 4,
Harllee Branch	1	Road	Milledgeville	Putnam	GA	31061	262	2015	Coal	2011).
										Southern Company Comments
		1100 Milledgeville		_						on EPA NESHAP Action (Aug. 4,
Harllee Branch	2	Road	Milledgeville	Putnam	GA	31061	319	2015	Coal	2011).
										Power play: Rate hikes for
										Georgia electricity consumers
		5200 Radium								might be just beginning, Ledger-
Plant Mitchell	4C	Springs Road	Albany	Dougherty	GA	31705	42	2014	Coal	Enquirer (Oct. 1, 2011).
	l,	20016		<u> </u>	1	50001		0045		IPM Parsed Results - Policy Case
Dubuque	1	920 Kerper Road	Dubuque	Dubuque	IA	52001	35	2015	Coal	(Toxics Rule)
	 _	000 14 5	D	D 1	1.,	50004		0045		IPM Parsed Results - Policy Case
Dubuque	5	920 Kerper Road	Dubuque	Dubuque	IA	52001	30	2015	Coal	(Toxics Rule)
E. J.E.W.	L	0005 405 4	0	OL:	1.,	54004		0045		IPM Parsed Results - Policy Case
Earl F Wisdom	1	3365 165 Ave	Spencer	Clay	IA	51301	38	2015	Coal	(Toxics Rule)

							Capacity		<u>Fuel</u>	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	<u>County</u>	<u>State</u>	<u>Zip</u>	<u>(MW)</u>	<u>Year</u>	<u>Source</u>	Citation
- ··		3100 Stevenson			l					IPM Parsed Results - Policy Case
Dallman	31	Drive	Springfield	Sangamon	IL	62703	86	2015	Coal	(Toxics Rule)
		3100 Stevenson			l				l	IPM Parsed Results - Policy Case
Dallman	32	Drive	Springfield	Sangamon	IL	62703	87	2015	Coal	(Toxics Rule)
										Ameren to shutter 2 coal plants in
		15142 E. 1900th								Illinois, Chicago Tribune (Oct. 4,
Hutsonville	3	Ave.	Hutsonville	Crawford	IL	62433	75	2012	Coal	2011).
										Ameren to shutter 2 coal plants in
		15142 E. 1900th								Illinois, Chicago Tribune (Oct. 4,
Hutsonville	4	Ave.	Hutsonville	Crawford	IL	62433	75	2012	Coal	2011).
										IPM Parsed Results - Policy Case
		11543 Lake of								(Toxics Rule/Clean Air Transport
Marion	4	Egypt Rd.	Marion	Williamson	IL	62959	170	2014	Coal	Rule)
										Ameren to shutter 2 coal plants in
		800 W.								Illinois, Chicago Tribune (Oct. 4,
Meredosia	4	Washington	Meredosia	Morgan	IL	62665	166	2012	Oil	2011).
										IPM Parsed Results - Policy Case
										(Toxics Rule); Ameren to shutter
		800 W.								2 coal plants in Illinois, Chicago
Meredosia	5	Washington	Meredosia	Morgan	IL	62665	203	2012	Coal	Tribune (Oct. 4, 2011).
										Aging Indiana Power Plant to
										Shut Down, Cutting Chicago-
		103rd St. & Lake								Area Air Pollution, Chicago
State Line	1	Michigan	Hammond	Lake	IN	46325	197	2015	Coal	Tribune (May 5, 2011).
										Aging Indiana Power Plant to
										Shut Down, Cutting Chicago-
		103rd St. & Lake								Area Air Pollution, Chicago
State Line	2	Michigan	Hammond	Lake	IN	46325	100	2015	Coal	Tribune (May 5, 2011).
										Aging Indiana Power Plant to
										Shut Down, Cutting Chicago-
		103rd St. & Lake								Area Air Pollution, Chicago
State Line	3	Michigan	Hammond	Lake	IN	46325	318	2015	Coal	Tribune <i>(May 5, 2011)</i>
		Ŭ								Aging Indiana Power Plant to
										Shut Down, Cutting Chicago-
		103rd St. & Lake								Area Air Pollution, Chicago
State Line	4	Michigan	Hammond	Lake	IN	46325	180	2015	Coal	Tribune (May 5, 2011)
		i i i i i i i i i i i i i i i i i i i				10000				IPM Parsed Results - Policy Case
Tanners Creek	1	800 AEP Drive	Lawrenceburg	Dearborn	IN	47025	145	2015	Coal	(Toxics Rule)
: a	1	5.50.1.2. 5		_ 50.55111	 	525			J 5 5 5.	AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
Tanners Creek	2	800 AEP Drive	Lawrenceburg	Lawrenceburg	IN	47025	153	12/31/2014	Coal	(June 9, 2011)
railicis Oreek		OOU ALI DIIVE	Lawrenceburg	Lawichiceburg	111.4	71020	100	12/01/2014	Joan	(Garic 0, 2011)

							Capacity		<u>Fuel</u>	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	<u>County</u>	<u>State</u>	<u>Zip</u>	<u>(MW)</u>	<u>Year</u>	<u>Source</u>	Citation
										AEP Shares Plan For
										Compliance With Proposed EPA
Tanners Creek	2	800 AEP Drive	Louranashura	Lourenceburg	IN	47025	215	12/31/2014	Cool	Regulations, Press Release
ranners Creek	3	600 AEP DIIVE	Lawrenceburg	Lawrenceburg	IIN	47025	215	12/31/2014	Coai	(June 9, 2011) EPA regs may force Duke to shut
										Indiana coal plant, Reuters (Sep.
Wabash River	2	450 Bolton Rd	Terre Haute	Vigo	IN	47885	113	2014	Coal	20, 2011)
vvabasii itivci	_	430 Bollon Na	Torretriadic	Vigo	1111	47000	1110	2014	Odai	EPA regs may force Duke to shut
										Indiana coal plant, Reuters (Sep.
Wabash River	3	450 Bolton Rd	Terre Haute	Vigo	IN	47885	123	2014	Coal	20, 2011)
				1 191			1			EPA regs may force Duke to shut
										Indiana coal plant, Reuters (Sep.
Wabash River	4	450 Bolton Rd	Terre Haute	Vigo	IN	47885	113	2014	Coal	20, 2011)
										EPA regs may force Duke to shut
										Indiana coal plant, Reuters (Sep.
Wabash River	5	450 Bolton Rd	Terre Haute	Vigo	IN	47885	125	2014	Coal	20, 2011)
										EPA regs may force Duke to shut
										Indiana coal plant, Reuters (Sep.
Wabash River	6	450 Bolton Rd	Terre Haute	Vigo	IN	47885	387	2014	Coal	20, 2011)
	_									IPM Parsed Results - Policy Case
Lawrence Energy Center	3	1250 N 1800 Rd	Lawrence	Douglas	KS	66049	48	2015	Coal	(Toxics Rule)
										IDM Danced Describe Delian Casa
Riverton	39	7240 SE HWY 66	Riverton	Cherokee	KS	66730	38	2014	Coal	IPM Parsed Results - Policy Case (Toxics Rule/Transport Rule)
Rivertori	39	7240 SE NW 1 00	Riverton	Cherokee	NO	00730	30	2014	Coai	IPM Parsed Results - Policy Case
										(Toxics Rule/Clean Air Transport
Riverton	40	7240 SE HWY 66	Riverton	Cherokee	KS	66730	54	2014	Coal	Rule)
Tecumseh Energy	10	7210 0211111 00	ravorton	CHOIGIGG	1.0	00700		2011	Cour	IPM Parsed Results - Policy Case
Center	9	PO Box 38	Tecumseh	Shawnee	KS	66542	74	2015	Coal	(Toxics Rule)
										AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
Big Sandy	2	22999 Hwy 23	Louisa	Louisa	KY	41230	438	12/31/2014	Coal	(June 9, 2011).
·		•								The 2011 Joint Integrated
										Resource Plan of Louisville Gas
										and Electric Company and
		5252 Cane Run								Kentucky Utilities Compny (Apr.
Cane Run	1	Road	Louisville	Louisville	KY	40216	16	2016	Coal	21, 2011)

							Capacity		Fuel	
Plant Name	<u>Unit</u>	<u>Address</u>	City	County	State	Zip	(MW)	Year	Source	<u>Citation</u>
										The 2011 Joint Integrated
										Resource Plan of Louisville Gas
										and Electric Company and
		5252 Cane Run								Kentucky Utilities Compny (Apr.
Cane Run	2	Road	Louisville	Louisville	KY	40216	163	2016	Coal	21, 2011)
										The 2011 Joint Integrated
										Resource Plan of Louisville Gas
										and Electric Company and
		5252 Cane Run								Kentucky Utilities Compny (Apr.
Cane Run	3	Road	Louisville	Louisville	KY	40216	209	2016	Coal	21, 2011)
										The 2011 Joint Integrated
										Resource Plan of Louisville Gas
										and Electric Company and
		5252 Cane Run								Kentucky Utilities Compny (Apr.
Cane Run	4	Road	Louisville	Louisville	KY	40216	272	2016	Coal	21, 2011)
		5663 Highway 85							Petroleum	IPM Parsed Results - Policy Case
D B Wilson	W1	West	Centertown	Ohio	KY	42328	420	2015	Coke	(Toxics Rule)
										IPM Parsed Results - Policy Case
Dale	1	1925 Ford Road	Winchester	Clark	KY	40391	27	2014	Coal	(Transport Rule)
										IPM Parsed Results - Policy Case
Dale	2	1925 Ford Road	Winchester	Clark	KY	40391	27	2014	Coal	(Transport Rule)
										IPM Parsed Results - Policy Case
Dale	3	1925 Ford Road	Winchester	Clark	KY	40391	75	2014	Coal	(Transport Rule)
										IPM Parsed Results - Policy Case
Dale	4	1925 Ford Road	Winchester	Clark	KY	40391	75	2014	Coal	(Transport Rule)
										The 2011 Joint Integrated
										Resource Plan of Louisville Gas
										and Electric Company and
		811 Power Plant								Kentucky Utilities Compny (Apr.
Green River	1	Drive	Central City	Central City	KY	42330	75	2016	Coal	21, 2011)
										The 2011 Joint Integrated
										Resource Plan of Louisville Gas
										and Electric Company and
		811 Power Plant								Kentucky Utilities Compny (Apr.
Green River	2	Drive	Central City	Central City	KY	42330	114	2016	Coal	21, 2011)
		9000 Highway				l			<u>.</u> .	IPM Parsed Results - Policy Case
Robert A Reid	<u> </u>	2096	Robards	Webster	KY	42452	65	2014	Coal	(Toxics Rule/Transport Rule)

Plant Name	<u>Unit</u>	<u>Address</u>	City	<u>County</u>	<u>State</u>	<u>Zip</u>	Capacity (MW)	Year	<u>Fuel</u> <u>Source</u>	Citation
Tyrone		6800 Tyrone Pike	Versailles	Versailles	KY	40383	135	2016	Coal	The 2011 Joint Integrated Resource Plan of Louisville Gas and Electric Company and Kentucky Utilities Compny (Apr. 21, 2011); IPM Parsed Results - Policy Case (Toxics Rule)
Nelson Industrial Steam and Operating Company	1A	3500 Houston River Rd.	Westlake	Calcasieu	LA	70669	107	2015	Petroleum Coke	IPM Parsed Results - Policy Case (Toxics Rule)
Nelson Industrial Steam and Operating Company	2A	3501 Houston River Rd. Brayton Point	Westlake	Calcasieu	LA	70669	106	2015	Petroleum Coke	IPM Parsed Results - Policy Case (Toxics Rule) IPM Parsed Results - Policy Case
Brayton Point		Road Brayton Point	Somerset	Bristol	MA		612	2015	Coal	(Toxics Rule) IPM Parsed Results - Policy Case
Brayton Point Salem Harbor	1	Road 24 Fort Avenue	Salem	Bristol Salem	MA MA	02726 01970	435 82	June, 2014	Coal	(Transport Rule) Dominion Sets Schedule to Close Salem Harbor Power Station, Press Release, May 11, 2011; IPM Parsed Results - Policy Case (Toxics Rule).
Salem Harbor	2	24 Fort Avenue	Salem	Salem		01970		June, 2014		Dominion Sets Schedule to Close Salem Harbor Power Station, Press Release, May 11, 2011; IPM Parsed Results - Policy Case (Toxics Rule).
Salem Harbor	3	24 Fort Avenue	Salem	Salem	MA		166	June, 2014		Dominion Sets Schedule to Close Salem Harbor Power Station, Press Release, May 11, 2011; IPM Parsed Results - Policy Case (Toxics Rule).
Salem Harbor	4	24 Fort Avenue	Salem	Salem	МА	01970	476	June, 2014	Coal	Dominion Sets Schedule to Close Salem Harbor Power Station, Press Release (May 11, 2011). Michigan Utility To Scrap 'Clean- Coal' Plant, Shut Older Coal
B.C. Cobb	2	151 N. Causeway	Muskegon	Muskegon	MI	49445	156	2015	Coal	Units, Wall Street Journal (Dec. 2, 2011)

							Capacity		Fuel	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	County	<u>State</u>	<u>Zip</u>	(MW)	<u>Year</u>	Source	<u>Citation</u>
										Michigan Utility To Scrap 'Clean-
										Coal' Plant, Shut Older Coal
										Units, Wall Street Journal (Dec.
B.C. Cobb	4	151 N. Causeway	Muskegon	Muskegon	MI	49445	156	2015	Coal	2, 2011)
										Michigan Utility To Scrap 'Clean-
										Coal' Plant, Shut Older Coal
										Units, Wall Street Journal (Dec.
D.E. Karn	1	2742 N. Weadock H	Essexville	Bay	MI	48732	255	2015	Coal	2, 2011)
										Michigan Utility To Scrap 'Clean-
										Coal' Plant, Shut Older Coal
										Units, Wall Street Journal (Dec.
D.E. Karn	2	2742 N. Weadock H	Essexville	Bay	MI	48732	260	2015	Coal	2, 2011)
										IPM Parsed Results - Policy Case
Eckert Station	1	601 Island Ave	Lansing	Ingham	MI	48910	40	2015	Coal	(Toxics Rule)
										IPM Parsed Results - Policy Case
Eckert Station	2	601 Island Ave	Lansing	Ingham	MI	48910	42	2015	Coal	(Toxics Rule)
										IPM Parsed Results - Policy Case
Eckert Station	3	601 Island Ave	Lansing	Ingham	MI	48910	41	2015	Coal	(Toxics Rule)
										IPM Parsed Results - Policy Case
Eckert Station	4	601 Island Ave	Lansing	Ingham	MI	48910	69	2015	Coal	(Toxics Rule)
										IPM Parsed Results - Policy Case
Eckert Station	5	601 Island Ave	Lansing	Ingham	MI	48910	69	2015	Coal	(Toxics Rule)
				l						IPM Parsed Results - Policy Case
Eckert Station	6	601 Island Ave	Lansing	Ingham	MI	48910	67	2015	Coal	(Toxics Rule)
										IPM Parsed Results - Policy Case
F 1: 11 O. 1:		70011 : 5				40050		0044		(Toxics Rule/Clean Air Transport
Endicott Station	1	720 Herring Road	Litchfield	Hillsdale	MI	49252	55	2014	Coal	Rule)
										Michigan Utility To Scrap 'Clean-
										Coal' Plant, Shut Older Coal
LD MUSC.		4505 5 5 5 5 1				40400	400	0045	Q I	Units, Wall Street Journal (Dec.
J.R. Whiting	1	4525 E. Erie Rd.	Erie	Monroe	MI	48133	106	2015	Coal	2, 2011)
										Michigan Utility To Scrap 'Clean-
										Coal' Plant, Shut Older Coal
LD Mile Him or		4505 E E . D .	E 2.	N 4	N 41	40400	400	0045	01	Units, Wall Street Journal (Dec.
J.R. Whiting	2	4525 E. Erie Rd.	Erie	Monroe	MI	48133	106	2015	Coal	2, 2011) Michigan Utility To Scrap 'Clean-
										· ·
										Coal' Plant, Shut Older Coal
LD Whiting	2	4505 F F 5 0 d	Г.::.a	Managa	N 41	40422	400	2015	Cool	Units, Wall Street Journal (Dec.
J.R. Whiting	3	4525 E. Erie Rd.	Erie	Monroe	MI	48133	133	2015	Coal	2, 2011)
										IPM Parsed Results - Policy Case
James De Young	5	64 Pine Ave.	Holland	Ottawa	MI	49423	27	2014	Coal	(Toxics Rule/Transport Rule)
James De Tourig	J	OT FILE AVE.	ווטוומווע	Ollawa	IVII	+34Z3	<u></u>	2014	Cuai	(TOXICS INDE/TRAISPORT NUIC)

							Capacity		Fuel	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	County	State	Zip	(MW)	Year	Source	<u>Citation</u>
										Xcel's Power Pullback,
Black Dog	3	1400 Black Dog Ro	Burnsville	Dakota	MN	55101	114	2015	Coal	StarTribune (Dec. 1, 2011)
		-								Xcel's Power Pullback,
Black Dog	4	1400 Black Dog Ro	Burnsville	Dakota	MN	55101	180	2015	Coal	StarTribune (Dec. 1, 2011)
		21499 E. Truman								IPM Parsed Results - Policy Case
Blue Valley	3	Rd.	Independence	Jackson	MO	64056	51	2014	Coal	(Transport Rule)
										IPM Parsed Results - Policy Case
Chamois	2	9321 Highway 100	Chamois	Osage	MO	65024	49	2014	Coal	(Toxics Rule/Transport Rule)
James River Power										IPM Parsed Results - Policy Case
Station	3	5701 S. Kissick	Springfield	Greene	MO	65804	41	2015	Coal	(Toxics Rule)
James River Power										IPM Parsed Results - Policy Case
Station	4	5701 S. Kissick	Springfield	Greene	MO	65804	56	2015	Coal	(Toxics Rule)
		1413 Lower Lake								IPM Parsed Results - Policy Case
Lake Road	6	Rd	St Joseph	Buchanan	MO	64504	97	2015	Coal	(Toxics Rule)
										The Ameren 2011 Integrated
Meramec	1	8200 Fine Rd	St. Louis	St. Louis	MO	63129	138	2015	Coal	Resource Plan
										The Ameren 2011 Integrated
Meramec	2	8200 Fine Rd	St. Louis	St. Louis	MO	63129	138	2015	Coal	Resource Plan
										The Ameren 2011 Integrated
Meramec	3	8200 Fine Rd	St. Louis	St. Louis	MO	63129	289	2015	Coal	Resource Plan
										The Ameren 2011 Integrated
Meramec	4	8200 Fine Rd	St. Louis	St. Louis	MO	63129	359	2015	Coal	Resource Plan
	l.	33200 E. Johnson		l						IPM Parsed Results - Policy Case
Sibley	1	Rd	Sibley	Jackson	MO	64088	54	2014	Coal	(Transport Rule)
011.1		33200 E. Johnson	0.11	l		0.4000	_ ,	0044		IPM Parsed Results - Policy Case
Sibley	2	Rd	Sibley	Jackson	MO	64088	54	2014	Coal	(Transport Rule)
Calatria Francis I D	D. D4	18 Snider	O a la tuin	Danahaal	 	50000	0.5	0045	01	IPM Parsed Results - Policy Case
Colstrip Energy LP	BLR1		Colstrip	Rosebud	MT	59323	35	2015	Coal	(Toxics Rule)
Vallauratana Energy I D		2215 N. Frontage	Dillin are	Vallauratana	I _A T	50404	20	2045		IPM Parsed Results - Policy Case
Yellowstone Energy LP	BLR1		Billings	Yellowstone	MT	59101	28	2015	Coke	(Toxics Rule) IPM Parsed Results - Policy Case
Vallauratana Energy I D	DI DO	2215 N. Frontage	Dillings	Vallouetono	NAT.	E0101	20	2015		,
Yellowstone Energy LP	BLR2	Rosu	Billings	Yellowstone	MT	59101	28	2015	Coke	(Toxics Rule)
										IPM Parsed Results - Policy Case
Puok	5	1555 Dukeville Rd	Coliobum	Dowon	NC	28145	20	2014	Coal	(Toxics Rule/Transport Rule)
Buck	5	1555 Dukeville Ku	Salisbury	Rowan	INC	26145	30	2014	Coai	(Toxics Rule/Transport Rule)
										IPM Parsed Results - Policy Case
Ruck	6	1555 Dukeville Rd	Salichury	Rowan	NC	28145	20	2014	Coal	(Toxics Rule/Transport Rule)
Buck	0	1999 Dakeville Ka	Salisbury	NOWall	NC	20143	30	2014	OUai	(TOXICS Rule/ Hallsport Rule)
										IPM Parsed Results - Policy Case
Buck	7	1555 Dukeville Rd	Salishury	Rowan	NC	28145	38	2014	Coal	(Toxics Rule/Transport Rule)
Duck	′	1999 Dayeville I/a	Callabury	IINOWali	IIIO	20140	30	12017	Ouai	(TOXIOS INDE/TTATISPORTINUE)

							Capacity	_	<u>Fuel</u>	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	<u>County</u>	<u>State</u>	<u>Zip</u>	(MW)	<u>Year</u>	<u>Source</u>	<u>Citation</u>
										Progress Energy Carolinas
										Integrated Resource Plan (Sep.
Cape Fear	5	500 CP&L Road	Moncure	Moncure	NC	27559	148	12/31/2014	Coal	13, 2010).
										Progress Energy Carolinas
										Integrated Resource Plan (Sep.
										13, 2010); IPM Parsed Results -
Cape Fear	6	500 CP&L Road	Moncure	Moncure	NC	27559	175	12/31/2014	Coal	Policy Case (Toxics Rule).
		175 Steamplant								IPM Parsed Results - Policy Case
Riverbend	7	Rd	Mount Holly	Gaston	NC	28120	94	2015	Coal	(Toxics Rule)
		175 Steamplant								IPM Parsed Results - Policy Case
Riverbend	8	Rd	Mount Holly	Gaston	NC	28120	94	2015	Coal	(Toxics Rule)
										Progress Energy Carolinas
		491 Power Plant								Integrated Resource Plan (Sep.
Weatherspoon	1	Road	Lumberton	Robeson	NC	28358	49	12/31/2014	Coal	13, 2010).
										Progress Energy Carolinas
		491 Power Plant								Integrated Resource Plan (Sep.
Weatherspoon	2	Road	Lumberton	Robeson	NC	28358	49	12/31/2014	Coal	13, 2010).
										Progress Energy Carolinas
		491 Power Plant								Integrated Resource Plan (Sep.
Weatherspoon	3	Road	Lumberton	Robeson	NC	28358	79	12/31/2014	Coal	13, 2010).
	1.						1		<u>.</u> .	IPM Parsed Results - Policy Case
Schiller	4	400 Gosling Rd.	Portsmouth	Rockingham	NH	03801	48	2015	Coal	(Toxics Rule)
		373 North							l	IPM Parsed Results - Policy Case
Deepwater	8	Broadway	Pennsville	Salem	NJ	08070	80	2015	Coal	(Toxics Rule)
	40		Glenwood			44545	1	0045	Natural	IPM Parsed Results - Policy Case
Glenwood	40	Shore Road	Landing	Nassau	NY	11547	117	2015	Gas	(Toxics Rule)
			Glenwood			44545	400	0045	Natural	IPM Parsed Results - Policy Case
Glenwood	50	Shore Road	Landing	Nassau	NY	11547	122	2015	Gas	(Toxics Rule)
									Natural	
									Gas,	IDM David David Cons
Dest lefference		Decel Office	Dest letters a	0 ((.))	NIX	44777	405	0045	Residual	IPM Parsed Results - Policy Case
Port Jefferson	3	Beach Street	Port Jefferson	Suffolk	NY	11777	185	2015	Fuel Oil	(Toxics Rule)
WDC Dawer Niaman		5300 Frontier	Nianana Falla	Nissana	NIX	4 4000	50	0045	01	IPM Parsed Results - Policy Case
WPS Power Niagara	1	Avenue	Niagara Falls	Niagara	NY	14302	53	2015	Coal	(Toxics Rule)
Assam Lake	10	22500	Aven I also	Lavain		44040	00	2014	Cool	IPM Parsed Results - Policy Case
Avon Lake	10	33569	Avon Lake	Lorain	ОН	44012	93	2014	Coal	(Clean Air Transport Rule) AEP Shares Plan For
										Compliance With Proposed EPA
Canaayilla		47004 OD 070	Consolille	Consolille		40044	105	40/04/0044	Cool	Regulations, Press Release
Conesville	3	47201 CR 273	Conesville	Conesville	ОН	43811	165	12/31/2014	Coai	(June 9, 2011).

Plant Name	<u>Unit</u>	Address	City	County	State	Zin	Capacity (MW)	Year	<u>Fuel</u> Source	Citation
<u>riant Hamo</u>	<u> </u>	<u>/ taar 666</u>	<u>Oity</u>	<u>oounty</u>	Otato	<u> </u>	(10100)	<u>1001</u>	Natural	<u>Station</u>
									Gas,	
									Residual	IPM Parsed Results - Policy Case
Hamilton	8	960 N. 3rd Street	Hamilton	Butler	ОН	45011	33	2014	Fuel Oil	(Transport Rule).
		DO D 400								The Duke Energy Kentucky 2011
Miami Fort		PO Box 128	Nowth Donal	Miami		45400	100	4/4/0045	Cool	Integrated Resource Plan (July 1, 2011).
Miami Fort	6	Brower Rd	North Bend	Township	ОН	45100	163	1/1/2015	Coal	AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
										(June 9, 2011); IPM Parsed
										Results - Policy Case (Toxics
Muskingum River	1	County Road 32	Beverly	Beverly	ОН	45715	220	12/31/2014	Coal	Rule)
										AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
										(June 9, 2011); IPM Parsed
Marking or Direct		0 0	D I	D		45745	000	40/04/0044	01	Results - Policy Case (Toxics
Muskingum River	2	County Road 32	Beverly	Beverly	ОН	45715	220	12/31/2014	Coai	Rule) AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
Muskingum River	3	County Road 32	Beverly	Beverly	ОН	45715	238	12/31/2014	Coal	(June 9, 2011)
Waskingam Mes	 	County Hodd 02	Bevery	Bovony	011	107 10	200	12/01/2011	ooai	AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
Muskingum River	4	County Road 32	Beverly	Beverly	ОН	45715	238	12/31/2014	Coal	(June 9, 2011)
		4047 Dalmant								IDM Daysond Daguite Deligy Cons
Niles	2	1047 Belmont Avenue	Niles	Trumbull	ОН	44446	111	2015	Coal	IPM Parsed Results - Policy Case (Toxics Rule/Transport Rule)
Miles	2	Avenue	Miles	Trumbuli	ОП	44446	111	2015	Coai	AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
										(June 9, 2011); IPM Parsed
										Results - Policy Case (Toxics
Picway		US 23	Lockbourne	Lockbourne	ОН	43137	100	12/31/2014	Coal	Rule)
		57246 Ferry								IPM Parsed Results - Policy Case
R E Burger	5	Landing Road	Shadyside	Belmont	ОН	43947	47	2014	Coal	(Transport Rule)
		57246 Ferry								IPM Parsed Results - Policy Case
R E Burger	6	Landing Road	Shadyside	Belmont	ОН	43947	47	2014	Coal	(Transport Rule)

Plant Name Un WC Beckjord 1	it Address 757 US Rt 52	<u>City</u>	<u>County</u>	<u>State</u>	<u> </u>	<u>(MW)</u>	<u>Year</u>	<u>Source</u>	Citation
WC Beckjord 1	757 US Rt 52								Liho Duko Enorgy Ohio 2011
WC Beckjord 1	757 US Rt 52								The Duke Energy Ohio 2011 Integrated Resource Plan (July
WC Beckjord 1	757 US Rt 52								15, 2011); IPM Parsed Results -
VVC Beckjoid	1/3/ US KL32	New Richmond	Clermont	ОН	45200	115	1/1/2015	Coal	Policy Case (Toxics Rule)
		New Richmond	Ciermoni	ОП	45200	115	1/1/2015	Coai	The Duke Energy Ohio 2011
									Integrated Resource Plan (July
									15, 2011); IPM Parsed Results -
WC Beckjord 2	757 US Rt 52	New Richmond	New Richmond	ОП	45200	112	1/1/2015	Coal	Policy Case (Toxics Rule)
WC Beckjoid 2	737 03 Kt 32	New Richmond	New Richmond	ОП	43200	113	1/1/2015	Coai	The Duke Energy Ohio 2011
									Integrated Resource Plan (July
									15, 2011); IPM Parsed Results -
WC Beckjord 3	757 US Rt 52	New Richmond	Clermont	ОН	45200	125	1/1/2015	Coal	Policy Case (Toxics Rule)
WC Beckjoid 3	737 03 Kt 32	New Richmond	Cleimont	ОП	43200	123	1/1/2015	Coai	The Duke Energy Ohio 2011
									Integrated Resource Plan (July
									15, 2011); IPM Parsed Results -
WC Beckjord 4	757 US Rt 52	New Richmond	New Richmond	ОН	45200	163	1/1/2015	Coal	Policy Case (Toxics Rule)
WC Beckjoid 4	737 03 1(132	New McIlliona	New Monitoria	OH	43200	103	1/1/2013	Coai	The Duke Energy Ohio 2011
									Integrated Resource Plan (July
									15, 2011); IPM Parsed Results -
WC Beckjord 5	757 US Rt 52	New Richmond	Clermont	ОН	45200	245	1/1/2015	Coal	Policy Case (Toxics Rule)
W C Beekjord 5	737 00 111 32	New Prichinona	Olemoni	011	70200	240	17 172013	Coai	The Duke Energy Ohio 2011
									Integrated Resource Plan (July
									15, 2011); IPM Parsed Results -
WC Beckjord 6	757 US Rt 52	New Richmond	New Richmond	ОН	45200	461	1/1/2015	Coal	Policy Case (Toxics Rule)
n o Beenjerd	700 NE 7TH	Ttow releases	TTOW TRIOTITIONS	0	10200	101	1, 1, 2010	Natural	IPM Parsed Results - Policy Case
Anadarko Plant 3	STREET	Anadarko	Caddo	OK	73005	44	2015	Gas	(Toxics Rule)
	501 Mustang Plant							Natural	IPM Parsed Results - Policy Case
Mustang 1	Rd.	Oklahoma City	Canadian	ок	73127	53	2015	Gas	(Toxics Rule)
······································	501 Mustang Plant							Natural	IPM Parsed Results - Policy Case
Mustang 2	Rd.	Oklahoma City	Canadian	ОК	73127	53	2015	Gas	(Toxics Rule)
3	501 Mustang Plant							Natural	IPM Parsed Results - Policy Case
Mustang 3	Rd.	Oklahoma City	Canadian	ОК	73127	118	2015	Gas	(Toxics Rule)
ŭ	501 Mustang Plant							Natural	IPM Parsed Results - Policy Case
Mustang 4	Rd.	Oklahoma City	Canadian	OK	73127	250	2015	Gas	(Toxics Rule)
J									Portland Gas and Electric
							Not		Comments on EPA NESHAP
Boardman	73334 Tower Rd	Boardman	Boardman	OR	97818		Available	Coal	Action (Aug. 2, 2011)
G F Weaton Power	300 Frankfort								IPM Parsed Results - Policy Case
Station 1	Road	Monaca	Beaver	PA	15061	56	2015	Coal	(Toxics Rule)
G F Weaton Power	300 Frankfort								IPM Parsed Results - Policy Case
Station 2	Road	Monaca	Beaver	PA	15061	56	2015	Coal	(Toxics Rule)

							Capacity		Fuel	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	County	<u>State</u>	<u>Zip</u>	(MW)	<u>Year</u>	<u>Source</u>	<u>Citation</u>
		2189 St. Rt. 168								IPM Parsed Results - Policy Case
New Castle	3	South	West Pittsburg	Lawrence	PA	16160	95	2014	Coal	(Transport Rule)
		2189 St. Rt. 168								IPM Parsed Results - Policy Case
New Castle	5	South	West Pittsburg	Lawrence	PA	16160	138	2014	Coal	(Transport Rule)
		250 Power Plant								IPM Parsed Results - Policy Case
Shawville	1	Drive	Shawville	Clearfield	PA	16873	122	2014	Coal	(Toxics Rule/Transport Rule)
		N. Old Trail Road,								IPM Parsed Results - Policy Case
Sunbury Generation LP	2A	PO Box 517	Shamokin Dam	Snyder	PA	17876	40	2014	Coal	(Transport Rule)
		N. Old Trail Road,								IPM Parsed Results - Policy Case
Sunbury Generation LP	2B	PO Box 517	Shamokin Dam	Snyder	PA	17876	40	2014	Coal	(Transport Rule)
		N. Old Trail Road,							l <u>.</u> .	IPM Parsed Results - Policy Case
Sunbury Generation LP	3	PO Box 517	Shamokin Dam	Snyder	PA	17876	94	2014	Coal	(Toxics Rule/Transport Rule)
		N. OLITATIDA I								IDM David I Davids Dalla Cara
0 1 2 0 2 2 2 3 5 1 5	١,	N. Old Trail Road,	01 12	0	D.	47070	400	0044	01	IPM Parsed Results - Policy Case
Sunbury Generation LP	4	PO Box 517	Shamokin Dam	Snyder	PA	17876	128	2014	Coal	(Toxics Rule/Transport Rule)
O O	,	13139 Augusta	\\\ = 4 = 4 = 4 = 4 = 4 = 4 = 4 =	O-llatara		00400	405	0045	01	IPM Parsed Results - Policy Case
Canadys Steam	1	Hwy.	Walterboro	Colleton	SC	29433	105	2015	Coal	(Toxics Rule)
John Covier	1	Hwy 70 S PO Box	Dogorovillo	Howking	TNI	27057	176	2014	Cool	IPM Parsed Results - Policy Case
John Sevier	4	2000 Hwy 70 PO Box	Rogersville New	Hawkins	TN	37857	176	2014	Coal	(Transport Rule) IPM Parsed Results - Policy Case
Johnsonville		259	Johnsonville	Humphrovo	TN	37134	106	2014	Coal	(Transport Rule)
Johnsonville		209	Johnsonville	Humphreys	IIN	37 134	100	2014	Coai	(Transport Rule)
		Hwy 70 PO Box	New							IPM Parsed Results - Policy Case
Johnsonville	10	259	Johnsonville	Humphreys	TN	37134	141	2014	Coal	(Toxics Rule/Transport Rule)
oon isonviic	10	Hwy 70 PO Box	New	Папіріїїсуз	1114	07 104	171	2014	Coai	IPM Parsed Results - Policy Case
Johnsonville	2	259	Johnsonville	Humphreys	TN	37134	106	2014	Coal	(Transport Rule)
CONTROLIVING	_	Hwy 70 PO Box	New	Паттрттоуо		07 10 1	100	2011	Joan	IPM Parsed Results - Policy Case
Johnsonville	3	259	Johnsonville	Humphreys	TN	37134	106	2014	Coal	(Transport Rule)
		Hwy 70 PO Box	New		1				-	IPM Parsed Results - Policy Case
Johnsonville	4	259	Johnsonville	Humphreys	TN	37134	106	2014	Coal	(Transport Rule)
					1				-	(Transport Trans)
		Hwy 70 PO Box	New							IPM Parsed Results - Policy Case
Johnsonville	5	259	Johnsonville	Humphreys	TN	37134	106	2014	Coal	(Toxics Rule/Transport Rule)
					<u> </u>					
		Hwy 70 PO Box	New							IPM Parsed Results - Policy Case
Johnsonville	6	259	Johnsonville	Humphreys	TN	37134	106	2014	Coal	(Toxics Rule/Transport Rule)
				. ,						' '
		Hwy 70 PO Box	New							IPM Parsed Results - Policy Case
Johnsonville	7	259	Johnsonville	Humphreys	TN	37134	141	2014	Coal	(Toxics Rule/Transport Rule)
JUHISUHVIIIE	/	209	Johnsonville	numphreys	LIN	3/ 134	141	2014	Coai	(Toxics Rule/Transport Rule)

Plant Name	<u>Unit</u>	<u>Address</u>	City	<u>County</u>	State	<u>Zip</u>	Capacity (MW)	Year	<u>Fuel</u> Source	<u>Citation</u>
		Hwy 70 PO Box	New							IPM Parsed Results - Policy Case
Johnsonville	8	259	Johnsonville	Humphreys	TN	37134	141	2014	Coal	(Toxics Rule/Transport Rule)
		Hwy 70 PO Box	New							IPM Parsed Results - Policy Case
Johnsonville	9	259	Johnsonville	Humphreys	TN	37134	141	2014	Coal	(Toxics Rule/Transport Rule)
AEO D		701 Light	Daniel	11	T.V.	77500	400	0045	Petroleum	IPM Parsed Results - Policy Case
AES Deepwater	01	Company Road	Pasadena	Harris	TX	77506	139	2015	Coke Petroleum	(Toxics Rule) IPM Parsed Results - Policy Case
ERCT_TX_Coal steam	1	n/a	n/a	n/a	TX	n/a	300	2015	Coke	(Toxics Rule)
									Natural	
									Gas, Distillate	IPM Parsed Results - Policy Case
Lone Star	1	Hwy 259 South	Lone Star	Morris	TX	75668	50	2014	Fuel Oil	(Toxics Rule/Transport Rule)
										Luminant Announces Facility
										Closures, Job Reductions in Response to EPA Rule, Luminant
Monticello	1	PO Box 1266	Mount Pleasant	Titus	TX	75455	593	2012	Coal	(Sep. 12, 2011)
										Luminant Announces Facility
										Closures, Job Reductions in Response to EPA Rule, Luminant
Monticello	2	PO Box 1267	Mount Pleasant	Titus	TX	75455	593	2012	Coal	(Sep. 12, 2011)
										,
Moore County	3	5m SW os Sunray, FM Rd 119	Sunray	Moore	TX	79170	18	2015	Natural Gas	IPM Parsed Results - Policy Case (Toxics Rule)
Moore County	3	I WIKU 119	Surray	Moore	17	73170	40	2013	Gas	IPM Parsed Results - Policy Case
San Miguel	SM-1	6200 FM 3387	Christine	Atascosa	TX	78012	391	2015	Coal	(Toxics Rule)
										AEP Shares Plan For
										Compliance With Proposed EPA Regulations, Press Release
Welsh	2	FM Rd 1735	Pittsburg	Pittsburg	TX	75686	528	12/31/2014	Coal	(June 9, 2011)
		Hwy 6 & Hwy 91,								IPM Parsed Results - Policy Case
Carbon	1		Price	Carbon	UT	84526	67	2015	Coal	(Toxics Rule) IPM Parsed Results - Policy Case
KUCC	1	9200 West 3325 South	Magna	Salt Lake	UT	84044	30	2015	Coal	(Toxics Rule)
		9200 West 3325								IPM Parsed Results - Policy Case
KUCC	2		Magna	Salt Lake	UT	84044	30	2015	Coal	(Toxics Rule)
KUCC	3	9200 West 3325 South	Magna	Salt Lake	UT	84044	30	2015	Coal	IPM Parsed Results - Policy Case (Toxics Rule)
Sunnyside Cogen	3	#1 Power Plant	iviagria	Can Lake	01	04044	100	2013	Juan	IPM Parsed Results - Policy Case
Associates	1	Road	Sunnyside	Carbon	UT	84539	51	2015	Coal	(Toxics Rule)

Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	County	State	<u>Zip</u>	Capacity (MW)	<u>Year</u>	<u>Fuel</u> <u>Source</u>	<u>Citation</u>
Chesapeake	1	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	19	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Chesapeake	2	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	16	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Chesapeake Chesapeake	4	2701 VEPCO St 2701 VEPCO St	Chesapeake Chesapeake	Chesapeake (city) Chesapeake	VA VA	23323	16	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011). IPM Parsed Results - Policy Case (Toxics Rule)
Chesapeake Chesapeake	3	2701 VEPCO St	Chesapeake	(city) Chesapeake (city)	VA	23323	185	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Chesapeake	6	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	16	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Chesapeake	7	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	24	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Chesapeake	8	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	24	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Chesapeake	9	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	24	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).

Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	<u>County</u>	State	<u>Zip</u>	Capacity (MW)	<u>Year</u>	<u>Fuel</u> <u>Source</u>	<u>Citation</u>
Chesapeake	ST1	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	113	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Chesapeake	ST2	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	113	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Chesapeake	ST4	2701 VEPCO St	Chesapeake	Chesapeake (city)	VA	23323	239	2016	Coal	Dominion plans to shutter Yorktown and Chesapeake power plants between 2015 and 2022, Daily Press (Sep. 1, 2011).
Clinch River	3	State Route 82	Cleveland	Cleveland	VA	24225	235	12/31/2014	Coal	AEP Shares Plan For Compliance With Proposed EPA Regulations, Press Release (June 9, 2011) AEP Shares Plan For
Glen Lyn	1	U.S Route 460	Glen Lyn	Giles	VA	24093	100	12/31/2014	Coal	Compliance With Proposed EPA Regulations, Press Release (June 9, 2011). AEP Shares Plan For
Glen Lyn	2	U.S Route 460	Glen Lyn	Giles	VA	24093	238	12/31/2014	Coal	Compliance With Proposed EPA Regulations, Press Release (June 9, 2011).
Glen Lyn	51	U.S Route 460	Glen Lyn	Giles	VA	24093	45	2015	Coal	IPM Parsed Results - Policy Case (Toxics Rule) IPM Parsed Results - Policy Case
Glen Lyn	52	U.S Route 460	Glen Lyn	Giles	VA	24093	45	2015	Coal	(Toxics Rule)
Potomac River	1	1400 Royal St.	Alexandria	Alexandria (city)	VA	22314	88	2015	Coal	Alexandria coal plant may shut by 2012, Washington Post (Aug. 30, 2011); IPM Parsed Results - Policy Case (Transport Rule)
Potomac River	2	1400 Royal St.	Alexandria	Alexandria (city)	VA	22314	88	2015	Coal	Alexandria coal plant may shut by 2012, Washington Post (Aug. 30, 2011)
Potomac River	3	1400 Royal St.	Alexandria	Alexandria	VA	22314	110	2015	Coal	Alexandria coal plant may shut by 2012, Washington Post (Aug. 30, 2011)

							Capacity		<u>Fuel</u>	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	<u>County</u>	State	<u>Zip</u>	(MW)	<u>Year</u>	<u>Source</u>	Citation
										Alexandria coal plant may shut
										by 2012, Washington Post (Aug.
Potomac River	4	1400 Royal St.	Alexandria	Alexandria	VA	22314	110	2015	Coal	30, 2011)
										Alexandria coal plant may shut
										by 2012, Washington Post (Aug.
Potomac River	5	1400 Royal St.	Alexandria	Alexandria	VA	22314	110	2015	Coal	30, 2011)
										Dominion plans to shutter
										Yorktown and Chesapeake
		1600 Waterview								power plants between 2015 and
Yorktown	1	Road	Yorktown	York	VA	23690	188	2015	Coal	2022, Daily Press (Sep. 1, 2011).
TOTRIOWIT	'	rtodd	TOIRLOWIT	TOIK	1	20000	100	2010	Ooui	2022; Buily 1 1003 (CCp. 1; 2011).
										Dominion plans to shutter
										Yorktown and Chesapeake
		1600 Waterview								power plants between 2015 and
Yorktown	2	Road	Yorktown	York	VA	23690	188	2015	Coal	2022, Daily Press (Sep. 1, 2011).
										Dairyland to shutter three Alma
										coal units, LaCrosse Tribune
Alma	1	1420 S. Main	Alma	Buffalo	WI	54610	15	2012	Coal	(Dec. 7, 2011)
										Dairyland to shutter three Alma
										coal units, LaCrosse Tribune
Alma	2	1420 S. Main	Alma	Buffalo	WI	54610	15	2012	Coal	(Dec. 7, 2011)
										Dairyland to shutter three Alma
					l				<u>.</u> .	coal units, LaCrosse Tribune
Alma	3	1420 S. Main	Alma	Buffalo	WI	54610	15	2012	Coal	(Dec. 7, 2011)
Dia at Otasat		745 F. Maile Otto et	NA - Para	D		0.4050	40	0045	0	IPM Parsed Results - Policy Case
Blount Street	8	715 E. Main Street	Madison	Dane	WI	64056	49	2015	Coal	(Toxics Rule)
Diamet Ctract		745 E. Main Chrook	Madiana	Dana	\^/1	C40FC	40	2045	Cool	IPM Parsed Results - Policy Case
Blount Street		715 E. Main Street 11060 S. Chicago	Madison	Dane	WI	64056	48	2015	Coal	(Toxics Rule) IPM Parsed Results - Policy Case
South Oak Creek			Oak Creek	Milwaukee	WI	53154	261	2015	Coal	(Toxics Rule)
South Oak Creek		11060 S. Chicago	Oak Creek	Milwaukee	VVI	33134	201	2013	Coai	IPM Parsed Results - Policy Case
South Oak Creek		Road	Oak Creek	Milwaukee	WI	53154	264	2015	Coal	(Toxics Rule)
Coult Cak Creek	+	rtodd	Ouk Oreck	Milwaakee	1	00104	204	2010	Ooui	(TOXIGE TRUIE)
		1035 West Canal								IPM Parsed Results - Policy Case
Valley	1	Street	Milwaukee	Milwaukee	WI	53233	70	2014	Coal	(Toxics Rule/Transport Rule)
	1 1							-		
		1035 West Canal								IPM Parsed Results - Policy Case
Valley	2	Street	Milwaukee	Milwaukee	WI	53233	70	2014	Coal	(Toxics Rule/Transport Rule)
		1035 West Canal								IPM Parsed Results - Policy Case
Valley	3	Street	Milwaukee	Milwaukee	WI	53233	70	2014	Coal	(Toxics Rule/Transport Rule)

				-	_		Capacity		<u>Fuel</u>	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	<u>County</u>	<u>State</u>	<u>Zip</u>	<u>(MW)</u>	<u>Year</u>	<u>Source</u>	<u>Citation</u>
		1035 West Canal								IPM Parsed Results - Policy Case
Valley	4	Street	Milwaukee	Milwaukee	WI	53233	70	2014	Coal	(Toxics Rule/Transport Rule)
valley	4	Sireei	Miliwaukee	Milwaukee	VVI	33233	70	2014	Coai	AEP Shares Plan For
										Compliance With Proposed EPA
		W.Va. State Route								Regulations, Press Release
Kammer	1	2	Captina	Moundsville	wv	26041	238	12/31/2014	Coal	(June 9, 2011)
Rammer	'		Сарина	Modridsville	V V	20041	230	12/31/2014	Coai	AEP Shares Plan For
										Compliance With Proposed EPA
		W.Va. State Route								Regulations, Press Release
Kammer	3	2	Captina	Moundsville	WV	26041	238	12/31/2014	Coal	(June 9, 2011)
ranimo		<u>-</u>	Оцрина	Widariadvillo	+***	20011	200	12/01/2011	Coai	AEP Shares Plan For
										Compliance With Proposed EPA
		1301 Lumpkin								Regulations, Press Release
Kammer	2	Road	Oroville	Moundsville	wv	30	238	12/31/2014	Coal	(June 9, 2011)
. tarrinio.	_	rtodd	0.040	Modridovino	1	00	200	12,01,2011	- Cour	AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
Kanawha	1	U.S. Route 60	Glasgow	Glasgow	WV	25086	220	12/31/2014	Coal	(June 9, 2011)
			Ŭ							AEP Shares Plan For
										Compliance With Proposed EPA
										Regulations, Press Release
Kanawha	2	U.S. Route 60	Glasgow	Glasgow	WV	25086	220	12/31/2014	Coal	(June 9, 2011)
			<u> </u>	Ğ				2011 (450		AEP Shares Plan For
								MW), Dec.		Compliance With Proposed EPA
								31, 2014		Regulations, Press Release
Phillip Sporn	1	State Route 62	Graham Station	New Haven	WV	25265	153	(600 MW)	Coal	(June 9, 2011).
								2011 (450		AEP Shares Plan For
								MW), Dec.		Compliance With Proposed EPA
								31, 2014		Regulations, Press Release
Phillip Sporn	2	State Route 62	Graham Station	New Haven	WV	25265	153	(600 MW)	Coal	(June 9, 2011).
								2011 (450		AEP Shares Plan For
								MW), Dec.		Compliance With Proposed EPA
								31, 2014		Regulations, Press Release
Phillip Sporn	3	State Route 62	Graham Station	New Haven	WV	25265	153	(600 MW)	Coal	(June 9, 2011).
								2011 (450		AEP Shares Plan For
								MW), Dec.		Compliance With Proposed EPA
								31, 2014		Regulations, Press Release
Phillip Sporn	4	State Route 62	Graham Station	New Haven	WV	25265	153	(600 MW)	Coal	(June 9, 2011)

							Capacity		<u>Fuel</u>	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	County	<u>State</u>	<u>Zip</u>	(MW)	<u>Year</u>	<u>Source</u>	<u>Citation</u>
								2011 (450		AEP Shares Plan For
								MW), Dec.		Compliance With Proposed EPA
								31, 2014		Regulations, Press Release
Phillip Sporn	5	State Route 62	Graham Station	New Haven	WV	25265	496	(600 MW)	Coal	(June 9, 2011)
										IPM Parsed Results - Policy Case
Rivesville	7	P.O.Box 190	Rivesville	Marion	WV	26588	46	2014	Coal	(Toxics Rule/Transport Rule)
Rivesville	8	P.O.Box 190	Rivesville	Marion	WV	26588	91	2014	Coal	IPM Parsed Results - Policy Case (Toxics Rule/Transport Rule)
Willow Island		#2 Power Station Blvd	Willow Island	Pleasants	WV	26134	54	2014	Coal	IPM Parsed Results - Policy Case (Toxics Rule/Transport Rule)

						Capacity		<u>Fuel</u>	
Plant Name	<u>Unit</u>	<u>Address</u>	<u>City</u>	County	State Zip	(MW)	<u>Year</u>	<u>Source</u>	<u>Citation</u>
						29865			

Notes:

- 1. All retirements announced by plant owners result from EPA regulation. In each such case, the citation included directly identifies EPA regulations as the sole or main reason for the power plant's retirement.
- 2. Plant closures attributed to EPA modeling only include those plants that EPA projects to close as a result of EPA regulations. "Toxics Rule" results were found by removing plants listed on the Toxics Rule "IPM Parsed File Base Case" (EPA-HQ-OAR-2009-0234-3032) from the "IPM Parsed File Policy Case" (EPA-HQ-OAR-2009-0234-3033). "Transport Rule" results were found by removing plants listed on CATR "TR Base Case Final" from the CATR "TR Remedy Final" (both files available at: http://www.epa.gov/airmarkets/progsregs/epa-ipm/transport.html).
- 3. According to the EPA, the Toxics Rule base case includes the Transport Rule. Thus, theoretically, both the Toxics Rule Policy Case and Transport Rule Remedy Case (when controlled for their respective base cases) should not both independently identify closure of the same plant. Nevertheless, the list shows a 2 GW overlap between the two rules. This is, presumably, due to variance in the modeling platforms EPA utilized for both rules.

APPENDIX

POWER PLANT RETIREMENT LIST BACKGROUND INFORMATION

METHODOLOGY

LIST SOURCES	
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This list is derived from three sources: (1) EPA's parsed modeling files, which identify the power-plant units that EPA models say will close as a result of either the Clean Air Transport Rule (Transport Rule) or Utility MACT (Toxics Rule); (2) news releases or press stories where a power-plant operator says a unit will or is likely to close due to EPA regulations; and (3) filings with state public utility commissions where a power-plant operator says a unit will or is likely to close due to EPA regulations. All sources are publically available information.

EPA PARSED FILES

Process to Identify Units Closed by EPA Regulation

Individual power-plants often have multiple boilers, called "units," that generate electricity. EPA, in addition to overall modeling, models the impact that the Agency believes its regulations will have on each unit, at each power-plant in America. EPA lists these results in "parsed files." When producing parsed files for a regulation, EPA will first create a business-as-usual "base" case parsed file where the Agency details what it believes will happen absent EPA's new regulation. Next, EPA creates a "policy" or "remedy" case parsed file showing how EPA believes plants will respond to a regulation. Thus, one can find the difference between these two cases, and figure out the impact EPA believes a regulation will have, by comparing the policy/remedy case parsed file to the base case parsed file. As such, the following steps were taken so that the list would only include those units EPA said would retire as a result of the Transport Rule and Toxics Rule:

- 1. For the Transport Rule, data from the parsed files for the Transport Rule's base case and remedy case were put on a single spreadsheet. The combined results were organized by plant name. Each plant listed in both the base case and remedy case was removed. Thus, the resulting list only shows those plants that EPA believes will close because of the Transport Rule.
- 2. For the Toxics Rule, data from the parsed files for the Toxics Rule's base case and policy case were put on a single spreadsheet. The combined results were organized by plant name. Each plant listed in both the base case and policy case was removed.

Thus, the resulting list only shows those plants that EPA believes will close because of the Toxics Rule.

3. The resulting base case-free Transport Rule list and Toxics Rule list were then put on a single spreadsheet. The combined results were organized by plant name. In each instance where the Transport Rule and the Toxics Rule independently said the same plant would retire, one of the entries was deleted so as to not double-count it. The citation was modified to attribute the unit closure to both the Transport Rule and Toxics Rule.

Transport Rule Parsed File

The parsed file for the Transport Rule is based on EPA's proposed Clean Air Transport Rule and not the final Cross State Air Pollution Rule (CSAPR). EPA has not yet made the CSAPR parsed files available to the public. However, given that the final CSAPR is more stringent than the rule's proposed version, it is likely that CSAPR's parsed file will show more unit closures than the parsed file used on this list.

POWER-PLANT OWNER PUBLIC ANNOUNCEMENTS

Ensuring that Retirements are Result of EPA Regulation

All retirements announced by plant owners in news releases or through public filings on this list were due to EPA regulation. In each such case, the source cited directly identifies EPA regulations as the sole or main reason for the power plant's retirement.

Avoiding Double-Counting

If a unit was identified to close by both EPA parsed files and public announcements, then the duplicate entry was released. The units citation was modified to indicate that both EPA and public announcements slated the unit for retirement.

FREQUENTLY ASKED QUESTIONS

Why is this list's total retired capacity higher than EPA's total?

The total retired capacity for this list is higher than EPA's total because this list includes EPA's projected unit retirements *and* unit retirements announced by power-plant operators. No unit cited by both sources was double counted.

Does this list include plants that will close even without the Transport Rule or Toxics Rule?

No. The parsed file results used in this list do not include business-as-usual base case results. In other words, if EPA modeled a unit to close even if the Transport Rule or Toxics Rule were not implemented, then that unit was not included.

EPA says only 9.9 GW will close, so why are these numbers higher?

The 9.9 GW retired coal-plant capacity figure is from the EPA Regulatory Impact Analysis (RIA) for the Toxics Rule alone. The Transport Rule RIA projects an additional 4.8 GW of coal-plant capacity to retire due to the Transport Rule. When combined, the RIA's project 13.8 GW of coal-plant capacity to retire due to the Toxics Rule and Transport Rule. As noted above, additional plant retirements are due to actually announced retirements.

Why do EPA's RIAs say the Transport and Toxics Rule will retire 13.8 GW of coalcapacity, while EPA's parsed files say the two rules will retire 14.5 GW?

EPA's overall modeling runs and parsed model use slightly different methods. Thus, the totals for the final results are slightly different, though very similar. The difference between the two totals is only .8 GW.

When a power-plant operator announces that it is closing a certain unit, how do you know that is because of EPA regulations?

In each case where a retirement is attributed to public announcements, the cited source material lists EPA regulations as the sole or main reason for the plant's retirement.

Some groups have said EPA regulations will retire 60 - 80 GW of coal-fired generation, but this list only shows 28 GW. Does this mean those projections are wrong?

No. If anything this list gives more credibility to those higher retirement projections. This list is very conservative; it merely shows what units EPA says its regulations will close, plus specific units that plant-operators have said will close because of EPA regulations. Those analyses that show higher power-plant retirements than this list lay out what the final overall impact of EPA's regulation will be. On the other hand, this list focuses just on the

currently disclosed impact. Plant-operators generally announce retirements only when required to by public filings. Thus, this list will likely grow far higher. However, because this list already finds twice as many retirements as EPA projected, the Agency's claim that its regulations will have minimal impact on electric generation are clearly incorrect.

EPA has said that other projections showing a high coal generation retirements were based on incorrect assumptions. Is that the case for this list?

No. The only modeling in this list is from EPA. Thus, any mistaken assumption would be EPA's mistaken assumption. Otherwise, the remaining data is from actual public announcements detailing the imminent or highly possible closure of specific units at specific power-plants.

The North American Electric Reliability Corporation (NERC) projected that most power-plants will retire because of EPA 316(b) cooling tower regulations. Does this list account for the fact that EPA has since indicated it will pursue less stringent 316(b) regulations?

This list only includes the parsed files for EPA's Transport Rule and Toxics Rule modeling. EPA's modeling for the 316(b) is not included. Public unit retirement announcements largely cited the Transport Rule and Toxics Rule as causing a unit to retire; there is little discussion of 316(b) regulations. This is likely due to the fact that EPA ultimately chose to pursue less stringent cooling tower rules than the Agency originally insinuated. Regardless, all of the publically announced plant retirements listed are retiring due to EPA regulations.

This list compares its total numbers to NERC's worst case analysis. Does that include NERC's analysis of 316(b) regulations?

No. The NERC analysis was broken down between the Transport Rule, the Toxics Rule and 316(b) regulations. The chart compares the list only to the NERC Transport Rule and Toxic Rule "strict," or worst case, scenarios.