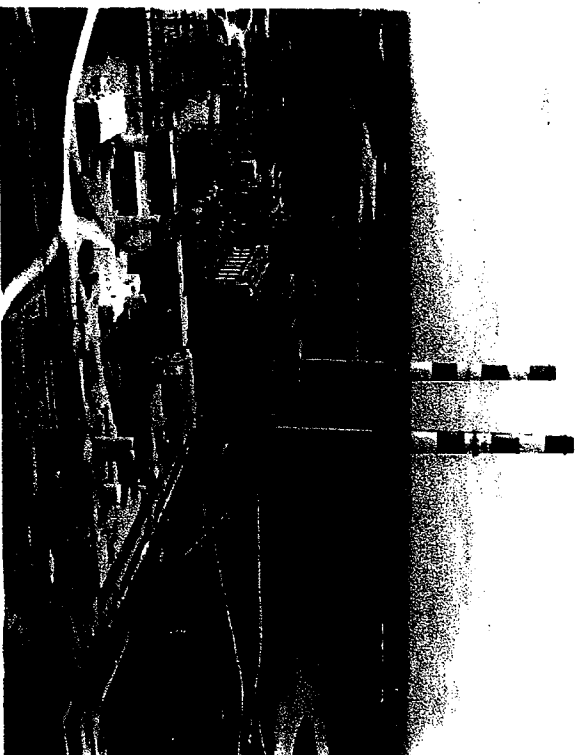




**NATIONAL ENERGY TECHNOLOGY LABORATORY**



# **Tracking New Coal-Fired Power Plants**

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**National Energy Technology Laboratory**

**Office of Systems Analyses and Planning**

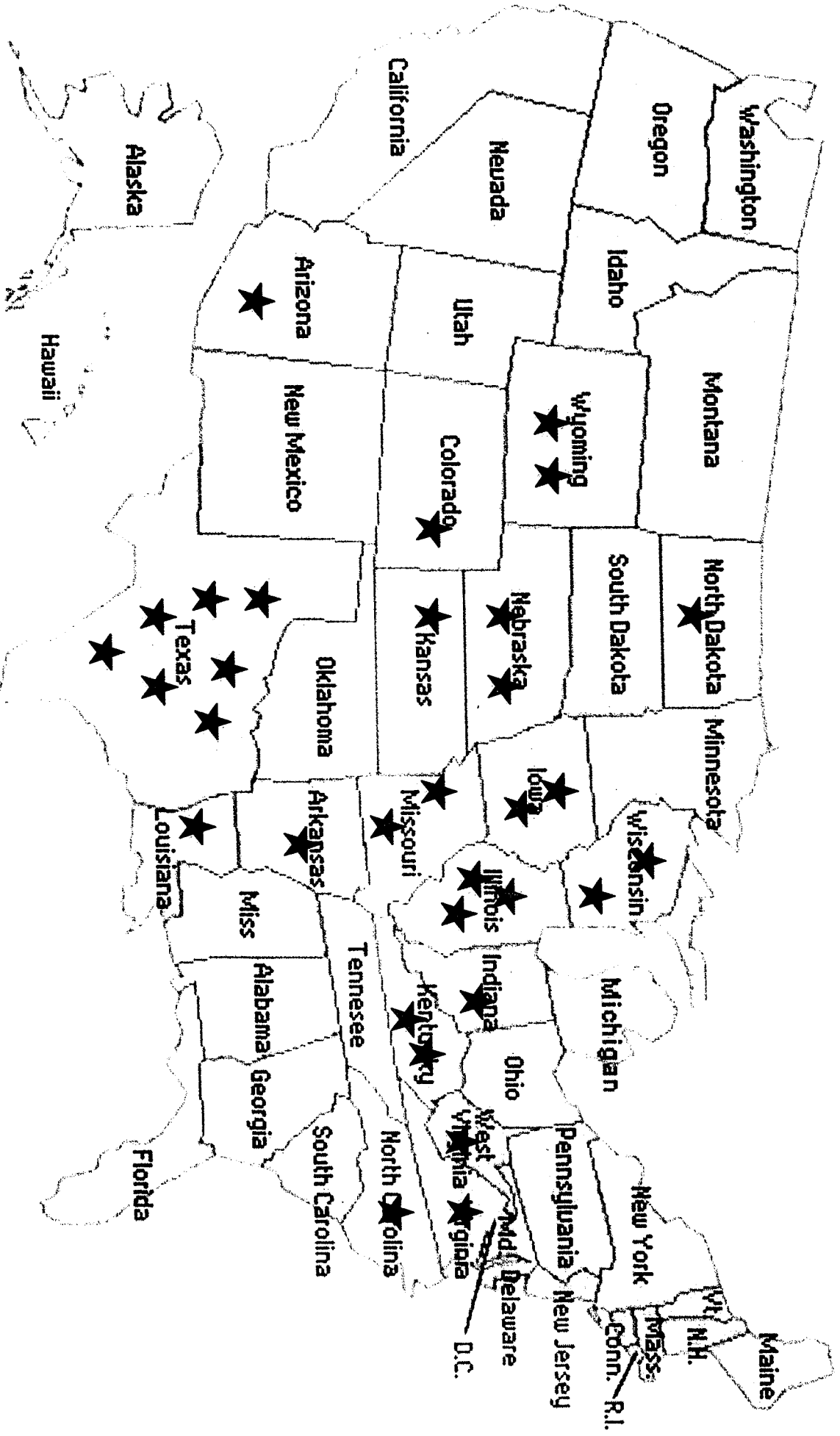
**Erik Shuster**

**January 5, 2009**



# Where are current coal-based generating units being built?

★ Coal-based Electric Generating Unit    ★ Non-utility Coal-based Electric Generators



# Current Coal-Fired Capacity Projects (2008 year change)

## Table 1

General Status	Number of Plants			Capacity (MW)		
	December 2007	January 2009	Yr Change	December 2007	January 2009	Yr Change
<i>Under Construction</i>	28	28	0	14,885	16,319	+1,434
<i>Near Construction</i>	6	7	+1	1,859	2,812	+953
<i>Permitted</i>	13	13	0	6,422	7,000	+578
<b>SUB TOTAL</b>	47	48	+1	23,166	26,131	+2,965 (+13%)
<i>Announced (early stages of development)</i>	67	47	-20	42,394	31,869	-10,525 (-25%)
<b>TOTAL</b>	114	95	-19	65,560	58,000	-7,560 (-12%)
<i>Operational this Year (2008)</i>	-	5	+5	-	1,392	+1,392
<b>TOTAL (with Operational)</b>			-14			-6,168 (-9%)

Uncertain Potential and Timing

Status Listing	Description
<i>Under Construction</i>	Project is under construction.
<i>Near Construction</i>	Project has been approved; majority or all permits are obtained. Sponsor is contracting vendors and Engineering. Procurement and Construction (EPC) contractors. Site preparation has begun.
<i>Permitted</i>	In the permitting phase. Two or more permits approved or fuel or power contracts have been negotiated.
<i>Announced</i>	Early stages of development to filing for permits. May include a feasibility study.

Source: Ventyx - Velocity Suite  
Data collected 12/31/2007 and 1/5/2009

Summary of Restrictions on the Stringency of State Air Permit Programs					
	Is the state precluded from being more stringent than the federal program?				Statutory Reference
	Yes	Yes, with Exceptions	No	Silent	
Alabama				X	
Alaska		X			46.14.010
Arizona				X	
Arkansas		X			8-1-203
California			X		
Colorado		X			25.7.114.2
Connecticut			X		
Delaware				X	
Florida		X			403.061
Georgia			X		
Hawaii				X	
Idaho	X				39-107D
Illinois			X		
Indiana			X		
Iowa				X	
Kansas				X	
Kentucky	X				224.10.100
Louisiana				X	
Maine				X	
Maryland				X	
Massachusetts				X	
Michigan				X	
Minnesota		X			"delegated"
Mississippi		X			
Missouri		X			XL-640.033
Montana		X			75-2-207
Nebraska				X	
Nevada				X	
New Hampshire			X		
New Jersey		X			26:2c-9.2
New Mexico		X			74-2-5
New York		X			19-0302
North Carolina				X	
North Dakota		X			23.25.03.3
Ohio	X				3704-03
Oklahoma		X			27-1-1-206
Oregon				X	
Pennsylvania		X			35.23.4004.2
Rhode Island		X			23-23.5
South Carolina				X	
South Dakota	X				1-40-4.1
Tennessee				X	
Texas			X		382.0173
Utah		X			19-2-106
Vermont				X	
Virginia				X	
Washington			X		70.94.152
West Virginia		X			22-5-4
Wisconsin		X			285.27
Wyoming			X		
<b>TOTAL</b>	<b>4</b>	<b>18</b>	<b>9</b>	<b>19</b>	

### Coal-based Electricity Generating Units

Plant Operator Name	Plant Name	State	Online Date	Unit	Capacity (MW)
Dynegy Inc	Sandy Creek	Texas	4/1/2012	1	900
Kansas City Power & Light Co	Iatan	Missouri	6/1/2010	2	850
TXU Power	Oak Grove	Texas	10/1/2009	1	817
TXU Power	Oak Grove	Texas	6/30/2010	2	817
CMS Enterprises Co	Prairie State	Illinois	1/1/2011	1	800
CMS Enterprises Co	Prairie State	Illinois	1/1/2012	2	800
Duke Energy Carolinas	Cliffside	N Carolina	6/1/2012	6	800
CPS Energy	J K Spruce	Texas	6/1/2010	2	750
Louisville Gas & Electric Co	Trimble	Kentucky	1/1/2010	2	750
Public Service Co of Colorado	Comanche	Colorado	10/1/2009	3	750
GenPower LLC	Longview	W Virginia	3/1/2011	1	695
Plum Point Energy Associates LLC	Plum Point	Arkansas	6/1/2010	1	665
Omaha Public Power District	Nebraska City	Nebraska	5/1/2009	2	663
CLECO Power LLC	Rodemacher	Louisiana	9/1/2009	3	660
Duke Energy Indiana	Edwardsport IGCC	Indiana	1/1/2012	1	630
Wisconsin Electric Power Co	Oak Creek	Wisconsin	12/31/2009	1	615
Wisconsin Electric Power Co	Oak Creek	Wisconsin	9/29/2010	2	615
Virginia Electric & Power Co	Virginia City	Virginia	6/1/2012	1	585
Energy Future Holdings Corp	Sandow	Texas	6/30/2009	5	581
Basin Electric Power Coop	Dry Fork	Wyoming	1/1/2011	1	422
Tucson Electric Power Co	Springerville	Arizona	9/30/2009	4	400
Springfield MO (City of)	Southwest	Missouri	10/1/2010	2	300
East Kentucky Power Coop	Spurlock	Kentucky	4/1/2009	4	278
Springfield Water Light & Power	Dallman	Illinois	1/1/2010	4	250
Hastings Utilities	Whelan	Nebraska	1/1/2011	2	220
Black Hills Power Inc	Wygen	Wyoming	6/1/2010	3	100
Great River Energy	Spiritwood	N Dakota	3/31/2010	1	99
Goodland Energy Resources	Goodland	Kansas	9/1/2010	1	22

### Non-utility Coal-based Electricity Generators

Plant Operator Name	Plant Name	State	Online Date	Unit	Capacity (MW)
Formosa Plastics Corp TX	Port Lavaca	Texas	6/1/2009	1	150
Formosa Plastics Corp TX	Port Lavaca	Texas	6/1/2009	2	150
Archer Daniels Midland Co	Clinton	Iowa	5/1/2009	2	97.65
Archer Daniels Midland Co	Clinton	Iowa	3/1/2009	1	69.75