

# Tracking New Coal-Fired Power Plants



**Coal's Resurgence in Electric Power Generation**



September 3, 2004



# Tracking New Coal-Fired Power Plants

This information package is intended to provide an overview of “Coal’s Resurgence in Electric Power Generation” by examining proposed new coal-fired power plants that are under consideration.

The results contained in this package are derived from information that is available from various tracking organizations and news groups. Although comprehensive, this information is not intended to represent every possible plant under consideration but is intended to illustrate the large potential that exists for new coal-fired power plants.

Proposals to build new power plants are often speculative and typically operate on “boom & bust” cycles, based upon the ever changing economic climate of power generation markets. As such, it should be noted that many of the proposed plants will not likely be built. For example, out of a total portfolio (gas, coal, etc) of 500 GW of newly planned power plant capacity announced last year, 91 GW have been already been scrapped or delayed<sup>1</sup>.

**The Department of Energy does not guarantee the accuracy or suitability of this information.**

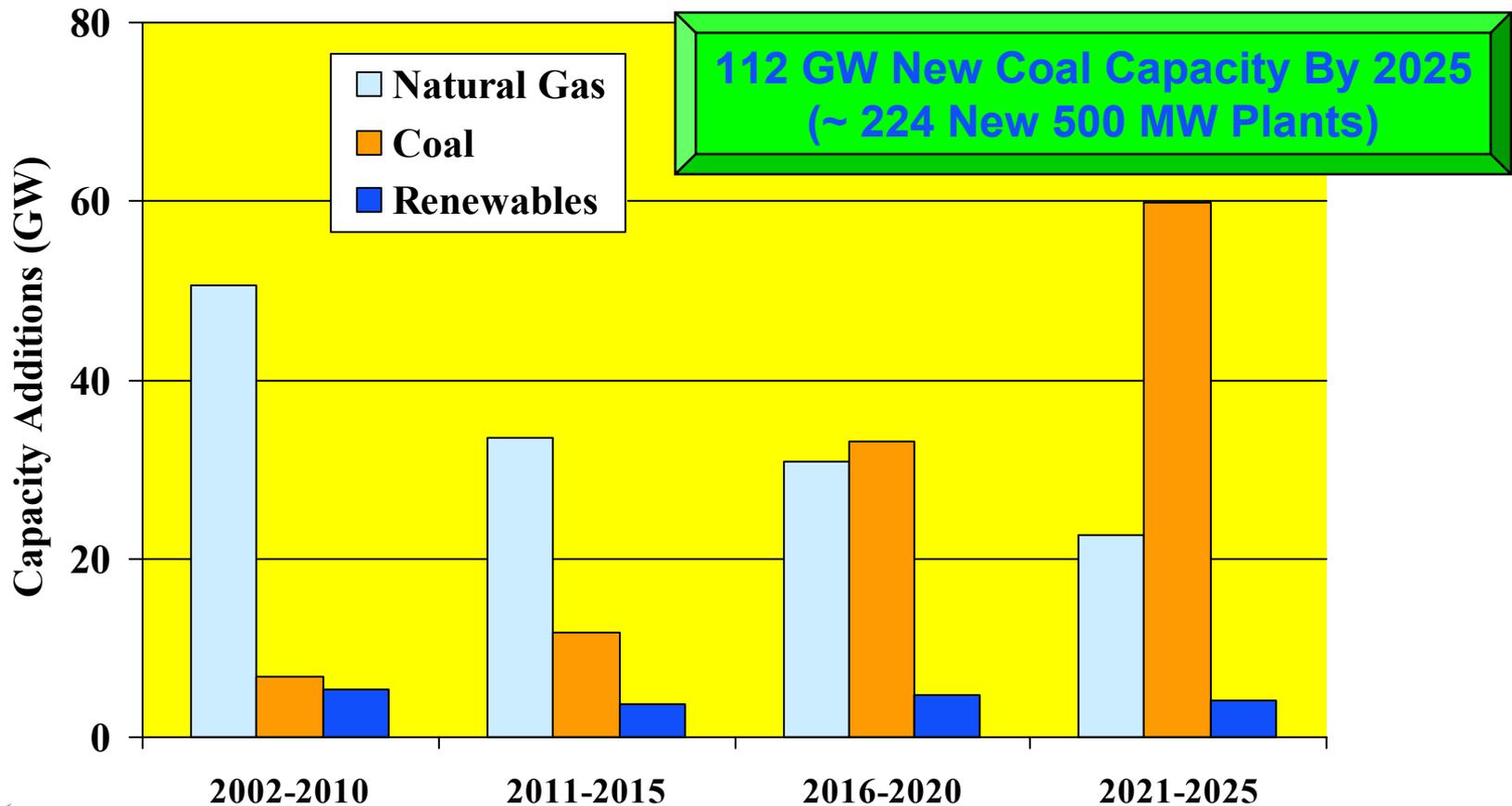
*Sources: 1 - Energy Central Daily & Wall Street Journal*



# 112 GW New Coal Capacity By 2025 (Accounts for 42% of New Capacity Additions)

## New Electricity Capacity Additions

(EIA Reference Case)

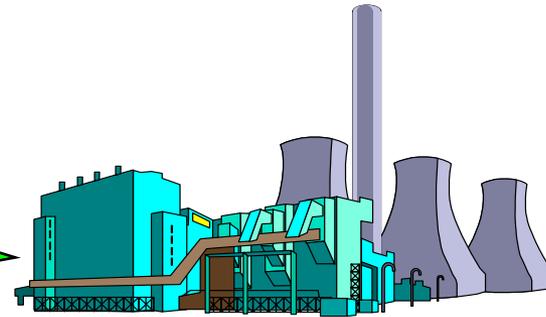


Source: Data Derived From EIA Annual Energy Outlook 2004



# Coal's Resurgence in Electric Power Generation

100 Proposed Plants  
63 GW Power  
\$ 73 Billion Investment



Equivalent Power  
for  
63 Million Homes



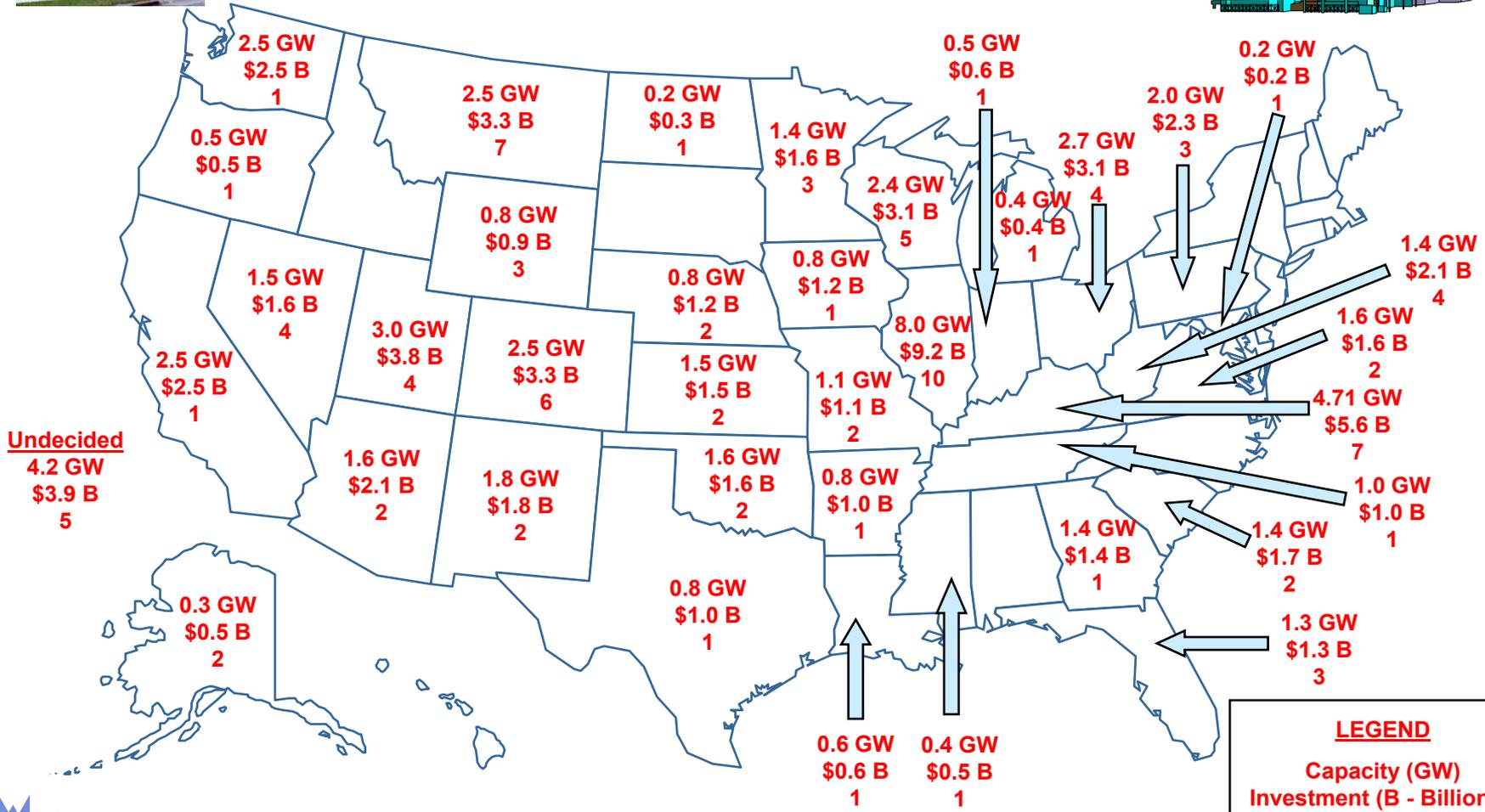
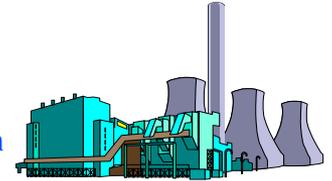
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Equivalent Power for  
63 Million Homes

## Proposed New Plants

100 Plants  
63 GW  
\$ 73 Billion

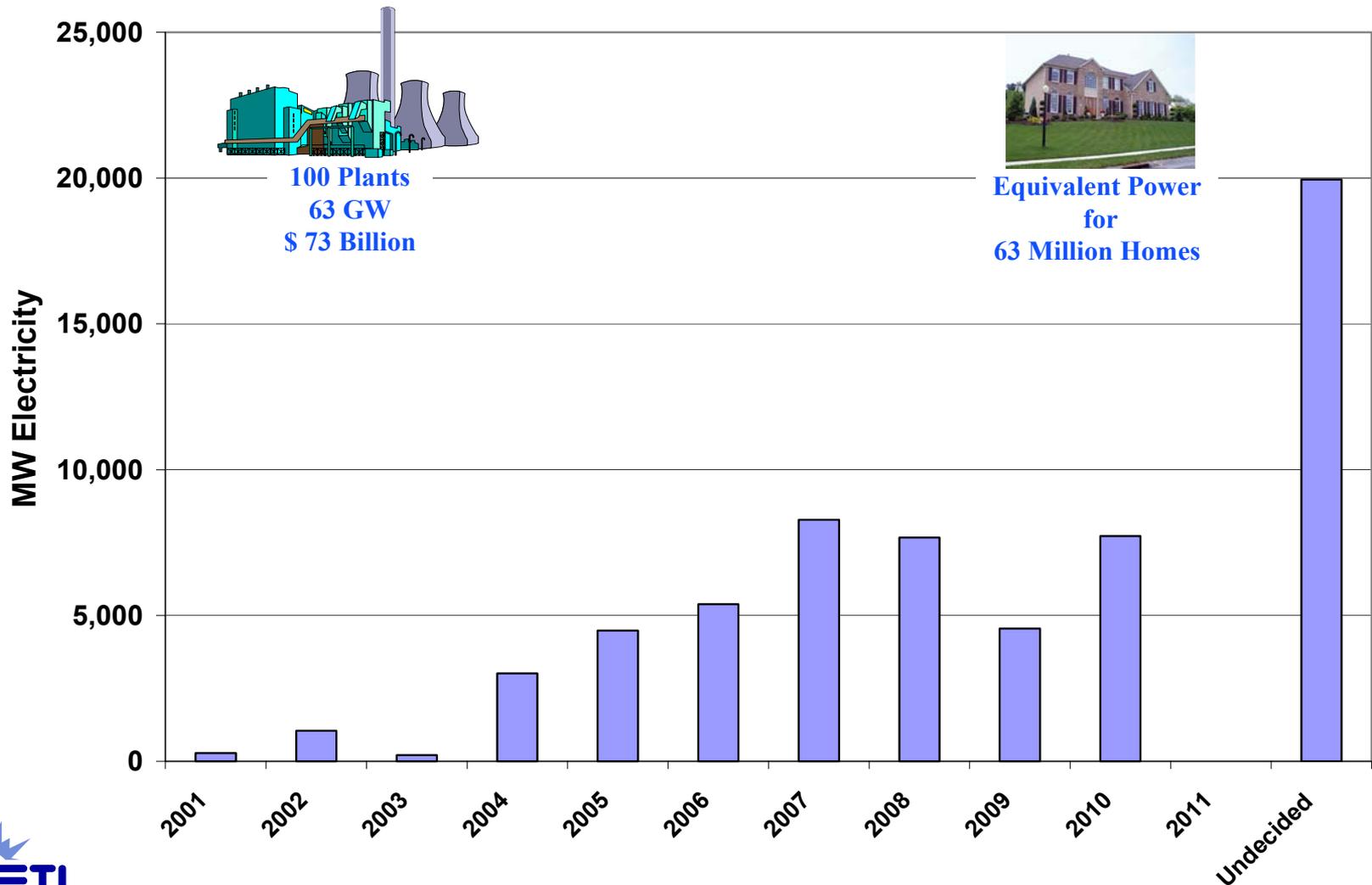


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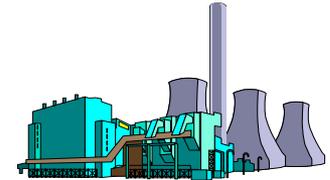
# Coal's Resurgence in Electric Power Generation

## \*\* Annual Capacity Additions \*\*



# Coal's Resurgence State Summary

State	Plants	Capacity (MW)	% Capacity	Investment (Million \$)	% Investment
Alabama	0	0	0.0	\$0	0.0
Alaska	2	300	0.5	\$521	0.7
Arizona	2	1,600	2.6	\$2,139	2.9
Arkansas	1	800	1.3	\$1,000	1.4
California	1	2,500	4.0	\$2,500	3.4
Colorado	6	2,469	3.9	\$3,282	4.5
Florida	3	1,250	2.0	\$1,300	1.8
Georgia	1	1,400	2.2	\$1,400	1.9
Illinois	10	8,041	12.8	\$9,225	12.6
Indiana	1	500	0.8	\$600	0.8
Iowa	1	790	1.3	\$1,200	1.6
Kansas	2	1,510	2.4	\$1,510	2.1
Kentucky	7	4,650	7.4	\$5,637	7.7
Louisiana	1	600	1.0	\$600	0.8
Maryland	1	180	0.3	\$180	0.2
Michigan	1	425	0.7	\$425	0.6
Minnesota	3	1,375	2.2	\$1,550	2.1
Mississippi	1	440	0.7	\$500	0.7
Missouri	2	1,100	1.8	\$1,100	1.5
Montana	7	2,513	4.0	\$3,270	4.5
Nevada	4	1,465	2.3	\$1,615	2.2
Nebraska	2	820	1.3	\$1,200	1.6
New Mexico	2	1,800	2.9	\$1,800	2.5
North Dakota	1	175	0.3	\$300	0.4
Ohio	4	2,710	4.3	\$3,050	4.2
Oklahoma	2	1,600	2.6	\$1,600	2.2
Oregon	1	500	0.8	\$500	0.7
Pennsylvania	3	2,045	3.3	\$2,325	3.2
South Carolina	2	1,440	2.3	\$1,720	2.3
Tennessee	1	1,000	1.6	\$1,000	1.4
Texas	1	750	1.2	\$1,000	1.4
Utah	4	2,970	4.7	\$3,770	5.1
Virginia	2	1,600	2.6	\$1,600	2.2
Washington	1	2,500	4.0	\$2,500	3.4
West Virginia	4	1,435	2.3	\$2,055	2.8
Wisconsin	5	2,400	3.8	\$3,100	4.2
Wyoming	3	740	1.2	\$900	1.2
Undecided	5	4,200	6.7	\$5,350	7.3
<b>TOTALS</b>	<b>100</b>	<b>62,593</b>	<b>100</b>	<b>\$73,324</b>	<b>100</b>



**100 Plants**  
**63 GW**  
**\$ 73 Billion**



**Equivalent Power**  
**for**  
**63 Million Homes**



# Coal's Resurgence in Electric Power Generation

**\*\* Database \*\***

SPONSOR	PROPOSED LOCATION	SIZE TECHNOLOGY	TIMING	INVESTMENT	COAL SOURCE	SOURCES
			Status - (Date indicates latest reference) In Service - Planned Date			
IVA Bellefonte Site	Alabama Jackson County	1500 MW IGCC Texaco	Cancelled (4/2003) In Service - 2005	~ \$ 1.5 Billion	High-Sulfur-Coal- Illinois-Basin	8, 7, 9, 12
Nuvista	Alaska Bethel	100 MW	Proposed (3/2004) In Service - 2010	~ \$ 100 Million	Coal	11
Usibelli Coal Mine Inc.	Alaska Healy	200 MW	Proposed (5/2003) In Service - TBD	\$ 421 Million	Coal	1
Reliant Resources Hopi Tribe	Arizona Not yet located	1,200 MW	Proposed (4/2002) In Service - 2008	~ \$ 1.2 Billion	low Sulfur Sub- bituminous	11
Tuscon Electric Power	Arizona Springerville	400 MW	Approved (11/2003) In Service - 2006	\$ 939 Million	Sub-Bituminous	2, 3, 4, 12
Alabama Electric	Arizona Sumter County	500 MW	Cancelled In Service - 2007	~ \$ 500 Million	Sub-Bituminous	9, 6
Fort Chaffee Authority	Arkansas Fort Chaffee	2 Plants 750 MW each	Cancelled In Service - 2007	\$ 2.5 Billion	Arkansas Coal	11
LS Power Development	Arkansas Osceola	800 MW	Permitting (10/2003) In Service - 2008	\$ 1 Billion	Powder River Basin Coal	6, 9, 11
Fernald Power	California Humbolt City	2500 MW	Proposed (10/2001) In Service - TBD	~ \$ 2.5 Billion	Coal	11
Radar Acquisitions Corp. / Kiewit	Colorado	400 - 500 MW	Feasibility study (10/03) In Service - TBD	~\$500 Million	Coal	11
DOE Foster Wheeler	Colorado Colorado Springs	150 MW CFB	On Hold (12/2003) In Service - 2008	\$275 Million	Coal	1, 11
Tri-State Generation and Transmission	Colorado Front Range	1,000 MW	Proposed (8/2004) In Service - TBD	~\$1 Billion	Coal	1

Red text above indicates recent updates

Investment costs noted by "~" were unavailable and estimated by DOE at \$1000 per kW



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Larmer Light & Power Ark. River Power Auth.	Colorado Lamar	39 MW increase Conversion	Feasibility study (8/2004) In Service - TBD	\$67 Million	Coal to replace natural gas	2
Tri-State Generation and Transmission	Colorado Las Animas	3 Units 400 MW each	Cancelled (4/03) In Service - 2005,06,07	\$ 1.2 Billion	Coal	11, 4, 12
Xcel Energy	Colorado Pueblo	750MW	Proposed (8/2004) In Service - 2009	\$1.3 Billion	Coal	1, 11
Deseret Generation & Transmission Corp.	Colorado Rangely	80 MW	On Hold (6/2004) In Service - 2004	\$ 140 Million	Waste Coal	1, 3, 12
Florida Municipal Power Agency	Florida	500-600 MW	Considering (10/2002) In Service - 2009	\$ 600 Million	Coal	11
Florida Power & Light	Florida Crystal River	100 MW	Operational In Service - 2001	~ \$ 100 Million	Coal	12
Jacksonville Electric	Florida Duval	(2) 300 MW Units Combo cycle	Operational (7/2002) In Service - 2002	~\$ 600 Million	Coal/Pet Coke	12, 3, 9
Lakeland Electric & Water	Florida Polk County	350 MW	Initiate - TBD In Service - TBD	~ \$ 350 Million	Coal	12
LS Power Development	Georgia Early County	1,200 - 1,600 MW	Permitting (8/2002) In Service - 2005	~ 1.4 Billion	Coal	6
Dynegy	Illinois Baldwin	2 Plants 650 MW each	Proposed (10/2001) In Service - 2007	\$ 1.5 Billion	Illinois Coal	1
Illinois Energy Group	Illinois Benton	2 units 750 MW each	Proposed (8/2002) In Service - TBD	\$ 1.7 Billion	Coal	11, 17
Corn Belt Energy (DOE)	Illinois Elkhart	91 MW LEBS	Development (10/2003) In Service - 2004	\$ 140 Million	Waste Coal	1, 2, 8, 12

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Turris Coal Company	Illinois Elkhart	25 - 35 MW	Proposed (10/2001) In Service - TBD	~ \$ 35 Million	Coal	11
Indeck Energy Service	Illinois Elwood	600 MW CFB	Final Permitting (10/2003) In Service - 2007	\$1 Billion	Illinois Coal	1, 12
Clean Coal Power Resources	Illinois Fayette County	2,400 MW Gasification	Proposal (10/2002) In Service - TBD	~ \$2.8 Billion	Coal	11
EnviroPower	Illinois Franklin County	500 MW	Permitting (5/2003) In Service - 2007	~ \$ 500 Million	Coal	8, 12
Southern Illinois Power	Illinois Marion	120 MW	Operational (6/2003) In Service - 2003	\$ 50 Million	Bituminous Coal Fines	8, 9, 12
Peabody Prairie Energy Campus	Illinois Washington City	2 units 750 MW each	Air Permit Aprvd. (8/2004) In Service - 2008	~ \$ 1.5 Billion	Illinois Coal High Sulfur	1, 11, 12
EnviroPower	Indiana Fayette County	525 MW	Development (7/2002) In Service 2004	~ \$ 525 Million	Waste Coal	12, 8
EnviroPower	Indiana Pike County	500 MW	Initiate — 2004 Cancelled 2002	\$ 600 Million	Waste Coal	2, 5, 8, 9, 12
EnviroPower	Indiana Sullivan County	500 MW	Permitting - (10/2002) In Service - TBD	\$ 600 Million	Waste Coal	2, 5, 8, 9, 12
Alliant Energy	Iowa-	450 MW	Development (5/2003) Cancelled - 2003	~ \$ 450 Million	Coal	12, 1
MidAmerican Energy	Iowa Council Bluffs	790 MW Supercritical	Construction (8/2004) In Service - 2007	\$ 1.2 Billion	Coal	13, 1, 8, 11
Sunflower Electric & International Energy	Kansas Garden City (Holcomb)	660 MW	Development (5/2003) In Service - 2006	~\$660 Million	Coal	1, 11, 12

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Kansas City Power & Light	Kansas Iatan	725 MW	In Service - TBD	~ \$ 725 Million	Coal	8
Great Plains Energy	Kansas	850 MW	On Hold (7/2004) In Service - TBD	~ \$ 850 Million	Coal	1
EnviroPower	Kentucky Calvert City	500 MW	Development (8/2002) In Service - TBD	\$ 600 Million	Coal & Waste Coal	1, 2
Peabody Group "Thoroughbred"	Kentucky Central City/Muhlenberg	2 Units 750 MW each	Approved (8/2004) In Service - 2007	\$ 2.1 Billion	Western Kentucky High Sulfur Coal	1, 3, 9, 12, 16
Estill County Energy Partners	Kentucky Estill County	110 CFB	Proposed (7/2004) In Service - 2008	\$ 150 Million	Waste Coal	11, 2, 18
Cash Creek Generation	Kentucky Henderson City	1,000 MW	Permitting (11/2001) In Service - 2006	\$ 1 Billion	Coal	1
Kentucky Mountain Power- (EnviroPower)	Kentucky Knott County	525 MW	Suspended (4/2004) In Service - 2006	\$ 600 Million	Waste Coal & New Coal	1, 2, 9, 12, 18
East Kentucky Power co-op	Kentucky Maysville	268 MW COB	Construction (5/2004) In Service - 2005	\$ 367 Million	Coal	15, 8, 12
Global - Kentucky Pioneer Energy - DOE	Kentucky Clark County	540 MW IGCC	Delayed (6/2004) In Service - 2004	~ \$ 520 Million	20% Coal 80% Waste	12, 1, 11, 18
LG&E Powergen	Kentucky Trimble County	732 MW	Proposal (12/2003) In Service - 2008	\$ 900 Million	Coal Illinois Basin	11, 1
NRG Energy	Louisiana New Roads	675 MW	Cancelled - 2002	~ \$ 675 Million	Coal	12
NRG Energy	Louisiana Pointe Coupee	600 MW	Initiate - 2001 In Service - 2006	~ \$ 600 Million	Coal	2

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AES Corporation	Maryland Cumberland	180 MW CFB	Operational In Service - 2001	~ \$ 180 Million	Maryland Coal	2, 7
Manistee Saltwork Tondy Corp.	Michigan Manistee	425 MW	Proposed (7/2004) In Service - TBD	~ \$ 425 Million	Coal	2
Great River Energy	Minnesota Dakota County	250-500 MW IGCC or CFBC	Proposed (2/2002) In Service - 2008	~ \$500 Million	Coal	11
Minnesota Power	Minnesota Grand Rapids	225 MW	Cancelled (8/2002) <del>In Service - 2005</del>	~ \$200 Million	Coal	8, 11
Excelsior Energy Mesaba Energy Project	Minnesota Northeastern	450 MW Gasification	Proposed (7/2004) In Service - 2010	\$450 Million	Coal	11, 19
Xcel Energy / LS Power	Minnesota Rosemount	550 MW	Preliminary (3/2003) In Service - TBD	~ \$ 600 Million	Coal	1, 2
Tractebel Power	Mississippi Choctaw County	440 MW	Operational In Service - 2002	\$ 500 Million	Lignite	2, 11, 12, 7
Springfield City Council	Missouri Springfield	275 MW Additional	Voters Reject (8/2004) In Service - 2007	~ \$ 250 Million	PRB Coal	11
Great Plains Power	Missouri Weston	750 MW	(5/2004) In Service - 2005	~ \$750 Million	Coal	12, 1, 8
Great Plains Energy	Missouri Platte County	850 MW	Proposed (7/2004) In Service - 2010	~ \$ 850 Million	Coal	1
Composite Power	Montana Bear Creek	4 Plants 500 MW each	Cancelled (2/2003) <del>In Service - 2004, 6, 8</del>	\$ 1.5 Billion	Montana Coal	2, 8, 12
Bull Mountain Development	Montana Billings	2 Units 350 MW each	Near Constrct. (8/2004) In Service - 2005, 6	~ \$ 700 Million	Coal	8, 12, 11

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Southern Montana Electric Gen & Trans	Montana Great Falls	250 MW	Proposed (6/2004) In Service - 2008	\$ 470 Million	Coal	21
Centennial Power	Montana Hardin	113 MW	Construction (8/2004) In Service - 2005	~ \$ 150 Million	Coal	11, 1, 8, 12
Great Northern Power Development / Kiewit	Montana Miles City	500 MW CFB	Proposal (8/2004) In Service - 2008	\$ 900 Million	Lignite (Wind also)	1, 2, 11, 12
Comanche Park LLC	Montana Yellowstone City	2 Plants 100 MW each	Development (7/2002) In Service - 2004-05	\$ 300 Million	Montana Coal	1
Bechtel / Kennecott Energy	Montana Undetermined	750 MW Phase I	Proposal (10/2003) In Service - 2010	~ \$ 750 Million	Montana (Mine-Mouth) Coal	11
Nevada Power	Nevada	500 MW	Feasibility Study (11/2003) In Service - 2010	~ \$ 500 Million	Coal	11, 2
Newmont Mining Corp.	Nevada Northern Nevada	200 MW	Considering (7/2004) In Service - 2007	~ \$ 200 Million	Coal	1
Barrick Gold	Nevada East of Reno	115 MW	Considering (7/2004) In Service - TBD	~ \$ 115 Million	Coal	1
White Pine Energy	Nevada White Pine County	500 to 800 MW	Considering (2/2004) In Service - 2010	~ \$ 0.6 - 1 Billion	Coal	1, 2
Hastings, Grand Island	Nebraska Hastings	220 MW	Proposal (11/2003) In Service - TBD	350 Million	Coal	2
Omaha Public Power District	Nebraska Nebraska City	600 MW	Approved (1/2004) In Service - 2009	\$ 850 Million	Powder River Basin	1, 11
Steag Power / Navajo Nation	New Mexico Farmington	1,500 MW	Proposal (11/2003) In Service - 2007	\$1.5 Billion	Coal	1, 2, 12

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Peabody Energy	New Mexico Star Lake	300 MW	Permitting stage (8/2004) In Service - 2006	~ \$ 300 Million	Coal	11, 12, 8
Montana Dakota Utility Westmoreland Power	North Dakota Gascoyne	175 MW	Permitting (5/2004) In Service - 2010	\$ 300 Million	North Dakota Lignite	2, 3, 4, 8, 12
Great River Energy	North Dakota TBD	500 MW	Cancelled (1/2003) In Service - 2010	\$ 700 Million	North Dakota Lignite	11, 12, 1
Nordic Energy	Ohio Ashtabula	830 MW Cogeneration	Permitting (12/2002) In Service - 2006	\$1.2 Billion	Coal	8, 11
Dominion Energy	Ohio Conneaut	600MW	Considering (7/2004) In Service - 2010	~ \$600 Million	Coal	11
Global Energy	Ohio Lima	580 MW IGCC	Permit/Develop (7/2002) In Service - 2004	\$ 550 Million	Coal Fines	1, 7, 3, 9, 11, 12
Sunoco	Ohio Scioto County	700 MW	Proposed (2001) In Service - TBD	~ \$ 700 Million	Coal	12
SynFuel	Oklahoma Enid	600 MW Gasification	Initiate - 2001 In Service - 2004	~\$ 600 Million	Coal	8
LS Power Development	Oklahoma Sequoyah	1,000 MW	On Hold (8/2002) In Service - TBD	~ \$ 1 Billion	Coal	6, 8
PacifiCorp	Oregon	500 MW	Initiate - In Service - 2004	~ \$ 500 Million	Coal	8
AES Corporation	Pennsylvania Beaver	800 MW	Cancelled In Service - TBD	~ \$ 800 Million	Coal	8
Reliant Energy	Pennsylvania Indiana	520 MW CFB	Construction (9/2004) In Service - 2004	\$ 800 Million	Waste Coal	1, 2, 8, 12

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EnviroPower	Pennsylvania Somerset	525 MW	Initiate - 2002 In Service - TBD	~ \$525 Million	Coal	8
PA Energy Development Corp.	Pennsylvania Southwestern region	1000 MW	Proposed (4/2004) In Service - TBD	~ \$ 1 Billion	Coal	2
Santee Cooper	South Carolina Berkeley County	640 MW	Development (2/2004) In Service - 2007	\$ 720 Million	Coal	1, 12, 2
LS Power Development	South Carolina Marion City	500-1,100 MW	Permitting (8/2002) In Service - 2006	~ \$ 1 Billion	Coal	6, 11
CME North America Merchant Energy	Tennessee Chattanooga	1000 MW	Proposed (9/2001) In Service - 2007	~ \$ 1 Billion	Coal	8, 11, 12
Pickwick Power TVA	Tennessee Hardin County	400 MW CFB	Cancelled (1/2003) In Service - 2004	\$400 Million	Coal	13, 11, 8, 12
City Public Service Board of San Antonio	Texas Calaveras Lake	750 MW	Permitting (2/2004) In Service - 2009	\$1 Billion	Coal	1, 11
San Antonio Public Service Bd.	Texas San Antonio	500 MW	Cancelled In Service - 2004	~ \$500 Million	Coal	14
Utah Associated Municipal Power System	Utah Delta	900 MW	Development (2/2003) In Service - 2008	~ \$1 Billion	Coal	10, 12
PacifiCorp	Utah Emery	850 MW	Development (8/2003) In Service - 2009	\$ 800 Million	Coal	12, 2
Intermountain Power	Utah Delta	950 MW	Proposed (8/2004) In Service - 2010	~\$1.7 Billion	Coal	3, 4, 8, 12, 20
Nevco Energy	Utah Sigurd	270 MW CFB	Proposed (6/2004) In Service - 2008	~\$ 270 Million	Coal	11

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Duke Energy North America	Virginia Isle of Wright	700-MW Gasification	Cancelled (9/2002) <del>In Service - 2008</del>	\$800 Million	Coal	1
LS Power Development	Virginia Sussex County	1,600 MW	Permitting (8/2002) In Service - 2005	~ \$ 1.6 Billion	Coal	6, 8, 1
<b>Dominion</b>	<b>Virginia</b>	<b>TBD</b>	<b>Proposed (7/2004)</b> <b>In Service - 2011</b>	<b>TBD</b>	<b>Coal</b>	<b>2</b>
Composite Power	Washington Richland	2500 MW Refurbish old site	Assessment (8/2001) In Service - TBD	~ \$ 2.5 Billion	Coal	11
U.S. Electric Power Globaltex	Washington Whatcom County	249-MW	Cancelled (4/2003) <del>In Service - 2004</del>	~ \$ 250 Million	Low Sulfur Coal Vancouver	1, 3, 4, 8, 12
GenPower LLC	West Virginia Monogalia County	600 MW	Permitting (5/2004) In Service - 2010	\$940 Million	Coal	2, 11
Western Greenbrier CO- Generation / DOE	West Virginia Greenbrier County	85 MW Advanced CFB	DOE Approved - (7/2004) In Service - 2008	\$215 Million	Waste Coal	1, 11
North American Power Group Ltd.	West Virginia Not yet located	300 MW	Proposal (2/2002) In Service - 2005	~ \$300 Million	Coal	14
Anker Energy	West Virginia Upshur County	450 MW	On Hold - (9/2002) In Service - 2006	\$ 600 Million	Central App. Coal & Waste Coal	1, 2, 12
Alliant Energy	Wisconsin	500 MW	Considering (5/2004) In Service - 2010	~ \$ 500 Million	Coal PBR	1, 9, 12
MidAmerican Energy	Wisconsin Cassville	200 MW	Proposal - (9/2002) In Service - TBD	~ \$ 250 Million	Coal	8, 12
Wisconsin Energy & Madison Gas	Wisconsin Oak Creek	2 Plants (S-critical) 600 MW each	Development (8/2004) In Service - 2009-10	\$ 1.6 Billion	Powder River Basin Sub-Bituminous	11, 1, 12, 2

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# Coal's Resurgence in Electric Power Generation

## \*\* Database \*\*

SPONSOR	PROPOSED LOCATION	SIZE TECHNOLOGY	TIMING	INVESTMENT	COAL TYPE	SOURCES
			Status - (Date indicates latest reference) In Service - Planned Date			
Wisconsin Public Service Corp.	Wisconsin Wausau	500 MW	Development (8/2004) In Service - 2008	\$750 Million	Coal	1, 2, 11
North American Power Power Group	Wyoming Campbell County	300 MW	Construction (7/2004) In Service - 2008	\$ 450 Million	Powder River Basin Sub-Bituminous	4, 6, 7, 12
North American Power Power Group	Wyoming Campbell County	500 MW	Cancelled (2/2003) In Service - 2005	\$ 750 Million	Powder River Basin Waste Coal	6, 12
Black Hills Corp.	Wyoming Gillette	90 MW	Operational (3/2003) In Service - 2003	\$ 100 Million	Powder River Basin Sub-Bituminous	2, 4, 7, 12
Black Hills Corp.	Wyoming Gillette	500 MW	Development (5/2003) In Service - 2005	~ \$ 350 Million	Powder River Basin Sub-Bituminous	2, 3, 4, 7, 12
American Electric Power	Undecided Eastern U.S.	1,000 MW IGCC	Proposed (9/2004) In Service - 2010	1.5 Billion	Coal	1, 11
Dairyland Power Cooperative	Undecided Iowa or Wisconsin	350-550 MW	Considering (11/2003) In Service - 2009-2014	~550 Million	Low Sulfur PRB and Colorado	11
Dominion Resources	Undecided	3 Plants 2,750 MW (total)	Initiate - TBD In Service - TBD	~ \$ 3.3 Billion	Coal	7, 8

Red text above indicates recent updates

Investment costs notated by "~" were unavailable and estimated by DOE at \$1000 per kW



# New Coal Fired Power Plant Projects

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