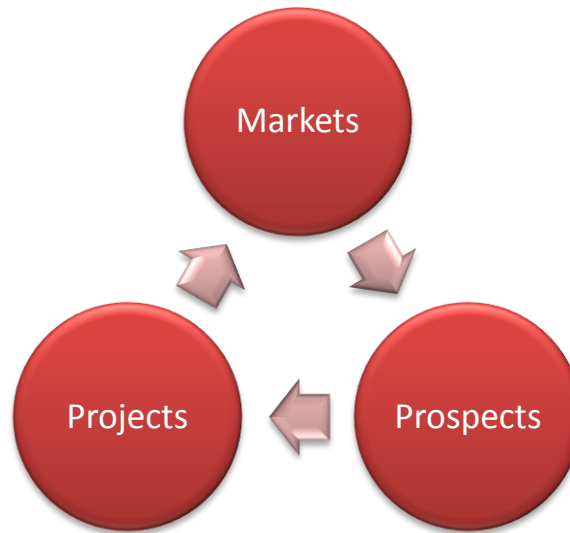


Utility Tracking System



Markets, Prospects, and Projects for Suppliers of Products and Services to Coal Fired Power Plant Operators



This service is for you if you want to learn about

- New coal fired power plants being installed around the world
- Retrofit projects for precipitators, FGD, DeNOx, boiler feedwater, cooling, and other components
- Details on every coal fired electricity generator in the world with more than 100 records per boiler unit
- Weekly updates on regulations, projects, prospects and markets
- Webinars where you can interface with owners
- Hundreds of previously recorded webinars to be used for sales and training purposes

New Plants Reported Weekly in Utility E Alert

- [Coal-fired Power Plant near Ho Chi Minh City awaiting Government approval](#)
 - [Sri Lanka- India Coal-fired Power Project to get Environmental Clearance Soon](#)
 - [Dubai awards ACWA \\$1.8 Billion Coal-fired Power Plant Deal](#)
 - [CPI Linhe Coal-fired Power Station plans 350 MW Expansion in Ningxia Hui, China](#)
 - [1,320 MW proposed expansion of Baotou Donghua Power Station in Inner Mongolia Autonomous Region, China](#)
 - [Baotou Hexi proposes 1,320 MW Expansion Project for Inner Mongolia, China](#)
 - [Proposed 1,320 MW Coal-fired Power Station for Inner Mongolia Autonomous Region, China](#)
 - [North United Power Company planning 1,320 MW additional Units for Huaneng Xilinhot Coal-fired Power Plant](#)
 - [Cheyur Ultra Mega Power Project proposed by Coastal Tamil Nadu Power, India](#)
 - [Malakoff's Tanjung Bin Power Plant nears Target 2016 Startup](#)
-
- [Dubai awards ACWA \\$1.8 Billion Coal-fired Power Plant Deal](#)
 - Dubai's government-owned utility picked Saudi Arabia's **ACWA Power International** to partner in a \$1.8 billion project to build the emirate's first coal-burning power plant as it steps up efforts to meet rising electricity demand.
 - The 1,200 MW facility will be followed by two more, each of the same size and using the same fuel, Saeed Mohammed Al Tayer, chief executive officer of **Dubai Electricity and Water Authority**, said Tuesday at a news conference in Dubai. Power use in the emirate has risen 6.4 percent in 2015, faster than the utility's forecast of 5 percent growth for the whole year, he said. As the emirate's economy has expanded, so has its need for electricity. Dubai must import liquefied natural gas and is also building solar plants to generate power.

Utility E Alert Tracks Bids and Awards

- [*AECOM receives Selective Catalytic Reduction Retrofit Contract with Arizona Public Service*](#)
 - [*Valmet to supply FGD and Denitrification Installation for CIECH Soda Polska SA*](#)
 - [*MET awarded Contract for ESP upgrade for a Coal-fired Utility Boiler in Caribbean*](#)
 - [*TBKi supplies Limestone for Indonesian FGD*](#)
 - [*Doosan is a Major APC Supplier in Asia*](#)
 - [*Emerson wins Order from NTPC for Automation Technologies for Two 800 MW Supercritical Units*](#)
-
- [*Three International Companies submit Tender for Rampal Coal-fired Power Project*](#)
 - Three international companies have submitted tender documents to set up the 2 x 660 MW Maitree Super Coal-fired Thermal Power Plant in Rampal. The companies are **Marubeni Corporation** (Japan), **Harbin Electric International Company Limited** (China) and **Bharat Heavy Electricals Limited** (India). They each submitted techno-commercial and financial bid documents. Only the techno-commercial bid documents were opened Tuesday. An eight-member committee headed by U K Bhattacharya will evaluate the techno-commercial bids and will only consider the financial bid documents of those companies whose techno-commercial bids qualify. “We hope to finally select a company to award the deal to by January 2016,” a senior BIFPCL official said.

McIlvaine Provides Continuing Weekly Analysis

- [*\\$60 Billion O&M and Upgrade Opportunity for U.S. Fossil and Nuclear Power Plant Suppliers*](#)
- [*Chinese Air Pollution Tsunami will Hit U.S. Shores in a Few Years*](#)
- [*Ten Power Generators will Purchase 50 Percent of the Mercury Reduction Products and Services in 2016*](#)
- [*Power Plants will spend \\$8 Billion for Valves in 2016*](#)
- [*Over 70,000 MW of Solid Fuel-fired Generators Slated for 2017*](#)
- [*200 Companies Account for 75 Percent of All Fabric Dust Collector and Bag Purchases*](#)
- [*\\$2.7 Billion Market for Catalyst for Stationary NO_x and CO Control*](#)
- [*China plans to launch National Cap-and-Trade Program*](#)
- [*LongKing is a Market Leader in Air Pollution Control with nearly \\$1 Billion in Annual Sales*](#)
- [*NO_x Control Market leveling off but at a High Level*](#)
- [*Investment in Coal-Fired Power Plants will exceed Other Energy Sectors in 2016*](#)
- [*Who buys Flow Control and Treatment Equipment?*](#)
- [*Jiangnan Environmental Technology launches Worldwide Air Pollution Control effort from US*](#)

Important Regulatory Developments Also Reported Weekly

- [Effluent Guidelines to be released Next Week](#)
- [India ratcheting down Emissions as it embarks on New Coal -fired Power Plant Program](#)
- [Japan's Coal Policy by Toshihiko Fuj](#)
- [Continuing Role for Coal by Keith Burnard of IEA](#)
- [China moving toward Clean Coal](#)
- [Clean Power Plan is unfolding](#)
- [Proposed BAT Reference Document Could Require SCR Retrofits on Gas Turbines in Europe](#)

2015 Draft Air Regulations for Power Plants in India

Ministry of Environment Draft Regulations
issued April 2015

Plant age	Particulate mg/Nm ³	SO ₂ mg/Nm ³	Mercury mg/Nm ³	NO _x mg/Nm ³
Prior to 2003	50	200-600	.03 for 500 MW units	600
2003-2016	30	200	.03	300
After 2017	30	100	.03	100

Utility Plans Database

Provides Access to Plant Information

This database allows you to search for individual plants or utilities.

To search for an individual plant name or any part of a plant name [click here to go to the generic search engine.](#)

- If you don't know the plant name and you would like to see a list of [all utility and plant names click here.](#)
- To search all plants listed for a specific utility [click here.](#)
- To search all plants listed for a specific parent utility [click here.](#)
- If you want to see all plant names beginning with a letter of the alphabet click on that letter:
- [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#)
[N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [Y](#) [Z](#)

plant name: Maritsa East III (Dimo Dichev)

- **unit id:** 4 **owner:** Contour Global
- **utility name:** Maritza East III Power Co.
- **country:** Bulgaria **size MW:** 210
- **fgd startup:** 2007 **fgd supplier:** RWE Solutions **fgd reagent:** limestone
- **fgd method:** wet **fgd waste disposal:** mine disposal **fgd efficiency:** 94

Hundreds of Records Provided for Each Unit

Plants in Finland

Haapaniemi	1
Haapaniemi I-II	2
Haapavesi	1
Hanasaari A	1
Hanasaari A	2
Hanasaari B	3
Hanasaari B	4
Inkoo	1
Inkoo	2
Inkoo	3
Inkoo	4
Joensuu	1
Kristiinankangas	1
Kymijärvi (Lahti)	L
Martinlaakso(Sahkolaitos)	2
Meri Pori	1
Mussalo I (Kotka)	1
Naantali	1
Naantali	2
Naantali	3
Naistenlahti (Tampere)	1
Naistenlahti (Tampere)	2
Rauhalahti	1
Salmisaari B	1
Seinäjoki	SJK
Suomenoja (Espoo)	1
Tahkoluoto (Pori)	1
Toppilan	1
Toppilan	2
Vaskiluoto II (Vaasa)	VL2

- **plant name:** Meri Pori
- **unit id:** 1
- **utility name:** Imatran Voima Oy
- **country:** Finland
- **coastal/inland:** C
- **size MW:** 560
- **plant startup:** 1993
- **fuel specific:** bituminous
- **boiler type:** pfw
- **Boiler manufacturer:** Tampella Power/Mitsui Babcock
- **FGD:**
- **fgd startup:** 1993
- **fgd supplier:** Steinmueller
- **-fgd reagent:** lime/limestone
- **fgd method:** wet
- **fgd waste disposal:** gypsum, commercial
- **fgd efficiency:** 90
- **fgd dampers supplier:** Bachmann
- **fgd dewatering supplier:** Delkor
- **fgd dewatering type:** belt filter
- **fgd dewatering description:** 18 m2
- **Particulate:** ESP
- **part manufacturer:** Outokumpu EcoEnergy

U.S. Plants Can be Searched by Air Pollution Equipment Types

- **FGD**
- U.S. Retrofit and New FGD Projects
 - [Search by Reagent](#) - NEW
 - [Search by Process](#) - NEW
 - [All](#)
 - [Dry FGD](#)
 - [Lime](#)
 - [FGD Projects 2009-2013](#)
- Component Suppliers and U.S. FGD Installations
 - [All](#)
- Utility System SO₂
 - [Analysis](#)
 - [Summary](#)
- SO₂ Interstate Air Quality
 - [Analysis](#)
 - [Summary](#)
- SO₃ Producers
 - [Ranking](#) - 2006
 - [Ranking](#) - 2007
- FGD Byproducts
 - [Commercial Gypsum from Wet Limestone FGD Systems](#)
 - [Commercial Gypsum from Wet Lime FGD Systems](#)
 - [Disposal Gypsum from Wet Limestone FGD Systems](#)
 - [Disposal Gypsum from Wet Lime FGD Systems](#)
- **NO_x**
- [U.S. Retrofit and New NO_x/Post Combustion Projects](#)
- [NO_x/Post Combustion Control Installations and Component Suppliers](#)
- [NO_x Interstate Air Quality Analysis](#)
- [Analysis of SCR Performance](#)
- **Particulate**
- [Utility System Particulate - Startup Dates](#)
- [Utility System Particulate - Fabric Filter](#)
- [Utility System Fine Particulate Overview](#)
- **Mercury**
- [Mercury Removal - Startup Dates](#)
- [Mercury Removal - Technology](#)
- [Mercury Removal - Supplier](#)
- [Individual Plant Mercury Emissions](#)
- **CO₂**
- [Carbon Capture & Sequestration](#)
- **General**
- [Utility Name List with New Owner](#)
- [Utility System Size Ranking](#)
- [Search by Pulverizer Manufacturers](#)
- [New Coal Fired Plants](#)

U.S FGD Startups in 2016

plant name	state	epa unit id	size MW	McIlvaine fgd startup
Belle River	MI	1	697.5	2016
Belle River	MI	2	697.5	2016
Clay Boswell	MN	4	558	2016
Edgewater	WI	5	400	2016
Flint Creek	AR	1	558	2016
Gerald Whelan Energy	NE	1	76	2016
Homer City	PA	1	660	2016
Homer City	PA	2	660	2016
J H Campbell	MI	2	385	2016
Joliet 29	IL	71	556	2016
Michigan City	IN	12	520.9	2016
Nearman Creek	KS	N1	261	2016
Nebraska City	NE	1	615.9	2016
Platte	NE	1	109.8	2016
Powerton	IL	51	892.8	2016
St. Clair	MI	1	170	2016
St. Clair	MI	2	171	2016
St. Clair	MI	3	171	2016
St. Clair	MI	4	171	2016
St. Clair	MI	6	172	2016
St. Clair	MI	7	545	2016

2016 Coal Fired Retirements

Plant Name	EPA unit id	State	Size MW	Plant Startup
B C Cobb	4	MI	156	1956
B C Cobb	5	MI	156	1957
Beaver Valley AES	1	PA	125	1987
Big Sandy	BSU1	KY	281	1963
Blue Valley	3	MO	58	1965
Cane Run	4	KY	163	1962
Cane Run	5	KY	209	1966
Cane Run	6	KY	299	1969
Cherokee	3	CO	150	1962
Chesapeake	1	VA	112.5	1953
Chesapeake	2	VA	112.5	1954
Chesapeake	3	VA	185	1959
Greene County	2	AL	269	1966
H T Pritchard (Eagle Valley)	1	IN	46	1949

Council Bluffs	1	IA	49	1954
Council Bluffs	2	IA	81.6	1958
E D Edwards	1	IL	136	1960
George Neal North	1	IA	147	1964
George Neal North	2	IA	320	1972
Grand River Dam Auth	1	OK	490	1981
Green River	4	KY	75	1954
Green River	5	KY	113	1959
Greene County	1	AL	299	1965
Greene County	2	AL	269	1966
H T Pritchard (Eagle Valley)	1	IN	46	1949
Kraft	1	GA	50	1958
Kraft	2	GA	54.4	1961
Kraft	3	GA	103.5	1965
Kraft	4	GA	126	1972
<i>Continued</i>				

Webinars Interface with Power Plant Operators

Date of Hot Topic Webinar	Subject and Length
October 22, 2015	Precipitator Improvements 47 minutes
October 1, 2015	Power Plant Water Treatment Chemicals 29 minutes
September 24, 2015	Power Plant Water Monitoring 68 minutes
September 10, 2015	Power Plant Pumps 49 minutes
August 20, 2015	Total Solutions 113 minutes
July 23, 2015	Mercury Removal Options 92 minutes
July 2, 2015	Hot Gas Filtration 110 minutes
June 18, 2015	SO3 Removal Options 109 minutes
June 4, 2015	Power Plant Valves 67 minutes
May 14, 2015	Wet Calcium FGD 84 minutes
May 7, 2015	MACT Update 71 minutes
April 16, 2015	CEMs for MACT and MATS Compliance 95 minutes
April 9, 2015	Direct Sorbent Injection 125 minutes
March 26, 2015	NOx Control (SCR & SNCR) 116 minutes
March 12, 2015	Power Plant Wastewater Treatment 97 minutes

Tracking System Searches Last 16 Years

Example - Enel with 180 articles

[4. FGD Abstracts September 2001](#)

... with an Advanced Instrument to Monitor Unburned Carbon in Fly Ash from Coal-Fired Power Plants" by M. Graziadio and A. Cipriano, ENEL Produzione- Ricerca, Pisa, Italy, R. Turato, ENEL and M. McElroy, Electric Power Technologies, Inc., ...

Terms matched: 1 - Score: 80 - 3 Sep 2007 - URL:

http://www.mcilvaineconomy.com/utility/subscriber/Abstracts/fgdabs01/sept/fgd_abs_sept_2001.htm

[5. ENEL Installs Tail End SCR](#)

... FGD and DeNOx NEWSLETTER January 2002 No. 285 ENEL Installs Tail End SCR ENEL (Italy) has installed primary NOx control technology on 18 GW of coal, oil and gas fired power plants. SCR has been installed on 13 GW. M. Cioni, C ...

Terms matched: 1 - Score: 71 - 3 Sep 2007 - URL:

<http://www.mcilvaineconomy.com/utility/subscriber/Newsletter/fgdnl285/ENEL%20Installs%20Tail%20End%20SCR.htm>

[6. temp](#)

... at Power-Gen Europe 2007, Madrid, Spain, June 2007. HH 07 07 01 "Application of State-of-Art Process& Control Technology to ENEL Clean Coal Power Plant" by Marcello Ruscio and Roberto Dionisi, ENEL and Claudio Lavanna and Maurizio Barabino, ABB Energy Automation. 7 ...

Terms matched: 1 - Score: 69 - 1 Oct 2008 - URL:

<http://www.mcilvaineconomy.com/utility/subscriber/Abstracts/fgdabs07/july%2007/july%2007.htm>

[7. Aquatech Supplies FGD ZLD Systems at Five Enel Power Plants](#)

... FGD and DeNOx NEWSLETTER January 2009 No. 369 Aquatech Supplies FGD ZLD Systems at Five Enel Power Plants A consortium led by Aquatech International Corp. successfully commissioned Zero Liquid Discharge (ZLD) facilities at four of Enel's coal-fired power plants throughout Italy. The feed for the ...

Terms matched: 1 - Score: 56 - 22 Jan 2009 - URL:

<http://www.mcilvaineconomy.com/utility/subscriber/Newsletter/fgdnl369/Aquatech%20Supplies%20FGD%20ZLD%20Systems%20at%20Five%20Enel%20Power%20Plants.htm>

[8. HH 08 10 07 "Mercury Oxidation and Removal through the Gas-Cleaning System of Coal-Fired Power Plant"](#)

... Power Plant" by C. La Marca, M.L.V. DiBlasi, A. Bianchi, M. Cioni and S. Malloggi, Enel S.p.A, Pisa, Italy. Presented at Power-Gen Europe 2007, Madrid, Spain, June 2007, 15 p. ENEL is focusing ...

Terms matched: 1 - Score: 54 - 1 Oct 2008 - URL:

<http://www.mcilvaineconomy.com/utility/subscriber/Abstracts/fgdabs08/october%2008/HH%2008%2010%2007%20%E2%80%9CMercury%20Oxidation%20and%20Removal%20through%20the%20Gas-Cleaning%20System%20of%20Coal-Fired%20Power%20Plant%E2%80%9D.htm>

Networking Directory

with Interest Area, Emails and Titles

example - B&W Barberton, OH
88 people at one address and 7 at another

[Babcock & Wilcox Canada Ltd. - CANADA, 1](#)

[Babcock & Wilcox Canada Ltd. - CANADA, 1](#)

[Babcock & Wilcox Canada Ltd. - CANADA, 3](#)

[Babcock & Wilcox Co./Power Generation Group - TX, USA, 1](#)

[Babcock & Wilcox Company - NC, USA, 5](#)

[Babcock & Wilcox Construction Co., Inc. - OH, USA, 1](#)

[Babcock & Wilcox Construction Co., Inc. - PA, USA, 1](#)

[Babcock & Wilcox Gamma Boiler Technology, Inc. - TURKEY, 0](#)

[Babcock & Wilcox Power Generation Group - OH, USA, 7](#)

[Babcock & Wilcox Power Generation Group - OH, USA, 88](#)

[Babcock & Wilcox Power Generation Group - TX, USA, 9](#)

[Babcock & Wilcox Power, Inc. - NC, USA, 4](#)

[Babcock & Wilcox Volund A/S - DENMARK, 1](#)

[Babcock & Wilcox, Inc. - NJ, USA, 2](#)

[Babcock & Wilcox/ Technical Services Group - VA, USA, 1](#)

[Babcock & Wilcox/Clean Environment Dev.Facility/CEDF - OH, USA, 5](#)

[Babcock & Wilcox/PGG Preciptech - OH, USA, 1](#)

[Babcock and Wilcox Co. - DC, USA, 3](#)

The Utility Tracking System Database has quick search by product, contaminant, company, process with more than 1000 power point presentations and articles each with summaries

- [Arsenic](#)
- [Cadmium](#)
- [Carbon Dioxide](#)
- [Carbon Monoxide](#)
- [Condensibles](#)
- [Dioxin](#)
- [Dissolved Oxygen](#)
- [Fine Particulate](#)
- [Greenhouse Gas](#)
- [HCl](#) 氯化氢
- [Mercury](#) 水银 (汞)
- [NO₂](#)
- [Noise](#)
- [NO_x](#) 氮氧化物
- [Ozone](#)
- [Particulates](#)
- [PM_{2.5}](#)
- [Selenium](#)
- [SO₂](#) 二氧化硫
- [SO₃](#)
- [Toxic Metal](#)

- [Chinese standard for CEMS systems details technology requirements and procedures](#)
- [Corrosion Studies on GeoBrom® HG520 Total Immersion Study](#)

A 90-day, total-immersion corrosion rate study was conducted using GeoBrom® HG520 calcium bromide solution and six selected metals at 20° and 50° C. ASTM Method “Standard Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens” G1 - 03 (reapproved 2011) was used to prepare, clean, and evaluate tests specimens.
- [SO₃ Poses New Challenges and Opportunities for Power Plants](#)

SO₃ is a pollutant but it is injected into flue gas to improve particulate control. However, SO₃ interferes with mercury capture. It is unintentionally created by SCR catalysts. It is the major component of condensibles in total particulate. SO₃ control is key to a new approach to power plant efficiency improvement. Power plant decisions need to consider all the economic, operational and environmental impacts for each potential approach involving SO₃. A number of decision trees need to be navigated and then revisited. The best route can be likened to GPS guidance. McIlvaine has created a system for making all power plant air quality decisions: 44I Power Plant Air Quality Decisions. A fast track decision tree on SO₃ has just been posted in the system.