



amec  
foster  
wheeler

Leading-edge  
technology  
solutions

connected excellence in all we do

[amecfw.com](http://amecfw.com)

# A full range of global capabilities

Amec Foster Wheeler's Global Power Group (GPG) offers a full range of steam generator equipment, clean air technologies, aftermarket products and services to the power, industrial, and waste-to-energy sectors. GPG's global engineering, manufacturing, and procurement network delivers high-quality, cutting-edge products and services cost competitively, no matter where the project is located.

Our experience comes from designing, servicing and improving fossil generating plants that has successfully and reliably logged over 200 million hours of operation. GPG operates major engineering centers in the United States, China, Finland, Spain and Poland. It also operates fabrication plants in China, Poland and Spain.

## OUR POWER SYSTEMS & TECHNOLOGY PRODUCTS



Samcheok - South Korea (4 x 550 MWe)



Longview - WV, USA (1 x 770 MWe)



Polaniec - Poland (1 x 190 MWe)



Port Said - Egypt (2 x 341 MWe)

### Circulating Fluidized-Bed (CFB)

- ▶ Over 435 units sold
- ▶ Units in service for over 35 years logging over 30 million hours of operation
- ▶ Widest fuel experience including carbon-neutral biomass
- ▶ High availability demonstrated

### Pulverized Coal (PC)

- ▶ Over 335 units sold
- ▶ Units in service for over 50 years logging over 50 million hours of operation
- ▶ Capable of burning a wide range of coals from anthracite to sub-bituminous fuels as well as petcoke

### Biomass Solutions

- ▶ For utility power, industrial steam and biofuels production
- ▶ Circulating and bubbling fluidized bed and grate technologies
- ▶ Widest fuel experience in the industry
- ▶ Over 325 biomass boilers and 11 gasifiers sold

### Oil & Gas

- ▶ Over 330 units sold
- ▶ Units in service for over 35 years logging over 25 million hours of operation
- ▶ High availability demonstrated

## OUR INDUSTRIAL PRODUCTS



Navoi - Uzbekistan (1 x 160 MWe)



Sturgeon Refinery - Canada (3 x 35 MWe)



Granada - Spain (1 x 45 MWe)



Valle 1 & 2 - Cadiz, Spain (2 x 50 MWe)

### Condensers & Feedwater Heaters

- ▶ Proven experience with over 230 condensers and 515 feedwater heaters sold worldwide
- ▶ Operating at thermal, coal, combined cycle, oil/gas, and nuclear plants
- ▶ Ranging from 50-1,600 MWe

### Package Boilers

- ▶ Supplied over 490 package boilers worldwide
- ▶ Units up to 275 tph steam capacity
- ▶ Standard and custom designs
- ▶ Proven efficient and reliable designs

### Heat Recovery Steam Generators (HRSG)

- ▶ Over 445 HRSGs in the field
- ▶ Offering horizontal and vertical HRSGs for all applications ranging from large utility combined cycle plants to small cogeneration and industrial facilities

### Solar Power

- ▶ We offer a full line of steam generating equipment for all types of thermal solar plants
- ▶ Steam cycle components include: feedwater heaters, preheaters, evaporators, superheaters and reheaters

# Comprehensive plant service and clean air solutions

... For utility and industrial applications

## Comprehensive Plant Service

We have improved the environmental performance, efficiency, and productivity of thousands of utility and industrial plants while extending their lives well into the future. We offer a full spectrum of services and equipment upgrades for boilers and air pollution control equipment.

- ▶ Plant and equipment condition assessment
- ▶ Plant upgrade and refurbishment engineering studies
- ▶ Custom designed boiler pressure parts
- ▶ Off-the-shelf replacement parts
- ▶ Weld overlays and refractory upgrades
- ▶ Coal mill service and upgrades
- ▶ Construction services
- ▶ Low NOx firing systems upgrades and retrofits
- ▶ Air pollution equipment upgrades and retrofits

## Clean Air Solutions

We offer a complete range of specialist services and industry-leading products to help our clients meet their environmental objectives.

With environmental legislation becoming increasingly stringent, we deliver solutions for our clients by applying our detailed knowledge of the energy, utility and process industries and our design, engineering and construction expertise to deliver products, technologies and services that help our clients solve their environmental challenges.

We offer plant service and clean air solutions for the utility and industrial sectors.



## OUR CLEAN AIR TECHNOLOGY PRODUCTS



Dry Fork Station - WY, USA (420 MWe)



PPL - PA, USA (2 x 750 MWe)



### Acid Gas and Metal Control

- ▶ CFB Scrubbers
- ▶ Spray Dry Absorbers
- ▶ Dry Sorbent Injection
- ▶ Wet FGD

### Particulate Control

- ▶ Dry Electrostatic Precipitators
- ▶ Wet Electrostatic Precipitators
- ▶ Fabric Filters
- ▶ Cartridge Collectors

### NOx Reduction

- ▶ Low NOx Burners (LNB)
- ▶ Over Fire Air (OFA) Systems
- ▶ Coal Conduit Measuring and Balancing
- ▶ Coal Pulverizers
- ▶ SCR and SNCR

### Services

- ▶ Renewal Parts
- ▶ Performance Enhancements
- ▶ Specialty Products



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## PRODUCTS AND SERVICES

### Steam Generators

- ▶ Circulating Fluid Bed
- ▶ Pulverized Coal
- ▶ Oil & Gas
- ▶ Solar
- ▶ Bubbling Fluid Bed
- ▶ Package
- ▶ Grate and MSW
- ▶ Waste Heat
- ▶ HRSG

### Environmental Products

- ▶ Wet FGD systems
- ▶ CFB scrubbers
- ▶ Dry Sorbent Injection
- ▶ Spray Dry Absorbers
- ▶ Wet and dry ESPs
- ▶ Fabric filters
- ▶ Cartridge collectors
- ▶ Low NOx combustion and SCR retrofits

### Aftermarket Services

- ▶ Engineered pressure parts
- ▶ Replacement parts
- ▶ Weld overlays
- ▶ Refractory upgrades
- ▶ Coal mill service and upgrades
- ▶ Construction Services
- ▶ Performance upgrades
- ▶ Boiler retrofits

### Auxiliary Equipment

- ▶ Condensers
- ▶ Feedwater heaters
- ▶ Biomass gasifiers

## Contact Us

### Globally

amecfw.com

### China

Unit 12

14th Floor, Tower B  
Beijing COFCO Plaza,  
No.8 Jianguomennei Street,  
Beijing, China 100005  
T +86 (0) 10 6522 2771

8<sup>th</sup> Floor  
UC Tower

500 Fushan Road  
Pudong New Area  
Shanghai 200122 China  
T +86 (0) 21 5058 2266

### Finland

Metsänneidonkuja 8  
FI-02130 Espoo, Finland  
T +358 (0) 10 393 11

Relanderinkatu 2  
FI-78201 Varkaus, Finland  
T +358 (0) 10 393 11

### Poland

ul. Chmielna 85/87  
00-805 Warsaw  
T +48 (0) 22 581 00 36

ul. Staszica 31  
41-200 Sosnowiec, Poland  
T +48 (0) 32 368 1300

### South Korea

7th Floor, 621 Bldg., 76-3,  
Samsung-dong, Gangnam-gu,  
Seoul, Korea 135-871  
T +82 (0) 2 3446 8325

### Spain

Calle Gabriel Garcia Márquez, 2  
28230 Las Rozas  
Madrid, Spain  
T +34 (0) 91 336 2400

### Sweden

Lindövägen 75  
602 28 Norrköping, Sweden  
T +46 (0) 11 285 330

### Thailand

9th Floor, Maneeya Bldg,  
518/5 Ploenchit Road  
Lumpini, Pathumwan  
Bangkok 10330, Thailand  
T +66 (0) 2 652 0760

### USA

53 Frontage Rd., PO Box 9000  
Hampton, NJ 08827 USA  
T +1 908 730 4000

9780 Mt. Pyramid Ct., Ste. 260  
Englewood, CO 80112-7060 USA  
T +1 303 784 4880

501 Grant Street, Suite 400  
Pittsburgh, PA 15219-442 USA  
T +1 412 562 7300

1080 Holcomb Bridge Road  
Building 100 - Suite 100  
Roswell, GA 30076-4346 USA  
T +1 770 325 7500

### Vietnam

Suite 706-708, 7th Floor,  
Central Bldg  
31 Hai Ba Trung Street  
Hanoi, Vietnam  
T +84 (0) 4 39393809