



Custom Fabrication Capabilities for the Power Generation Industry





A Comprehensive, Industry-Leading Resource Providing Boiler Components, Assemblies, and Parts to the Power Generation Industry



Here's Why:

Years of Experience Resulting in Long-Term Relationships

For more than 20 years, Metalfab has been working with the PowerGen Industry to manufacture a diverse range of high quality equipment, assemblies, and parts for use at power plants throughout the world. These long term relationships have resulted in a large, multimillion dollar installed base of equipment and a long list of highly satisfied customers.

The Capabilities *You Need* and the Project Management Expertise *You Want*

Located on 11 acres of land approximately 50 miles from New York City, Metalfab's northern NJ facilities are comprised of a 30,000 sq. ft. manufacturing plant fronted by a 4,000 sq. ft. office facility.

From engineering for drafting/layout of manufacturing drawings, prototyping, machining/fabrication, manufacturing certification to AWS D1.1, D 1.6, and ASME-31.3 to full time project management, Metalfab has you covered. This is your guarantee of cost predictability, on-time delivery, and the high quality needed to ensure your profitability and complete satisfaction.

These Capabilities Include:

- Mechanical Engineering (Piping, Valves, Instruments, and Structural)
- SolidWorks 3D Modeling and AutoCAD®
- Mechanical, Electrical, and Controls Drawings in Electronic DWG, ASCII, DXF, and IGES formats
- Electrical and Controls Engineering (P&ID, Control Philosophies, Logic Diagrams, Ladder Diagrams, Electrical Drawings, Programming, and Systems Integration)
- Unique Ability to Integrate Electro-Mechanical Components and Programmable Controls into a Fully Shop Assembled and Tested System (Such as Piping or Fan Skids)
- Ability to Work with a Diversity of Materials Including: Carbon Steel, 304SS and 316SS; High Temperature 309SS and 310SS; and Abrasion-Resistant AR400
- Expertise to Engineer, Supply, Integrate, and Program Controls for Any Type of Operating System Regardless of Size
- Shop Floor Electronic Video Imaging
- Project Scheduling, Monitoring, and Reporting
- In-House Certified Welding Inspector and Weld Procedures Certified to ASME-31.3 and AWS D1.1 and D1.6
- Experienced and Highly Competent Project Management Personnel



A Large Variety of In-House Fabrication Equipment

Whatever the need, Metalfab offers a large and diverse selection of vertically integrated machining and fabrication capabilities—inclusive of shearing, forming, punching, burning, rolling, cutting, and welding equipment—to produce components, assemblies, and parts from your designs.

When your project specifications require something outside the scope of our in-house capabilities, we partner with a select list of subcontractors who meet our high standards for quality and on-time delivery.



Slidegates

Ductwork



Wind Box Assembly During Fabrication



Fan Skid with Diverter Damper and Operator

Round Burners



In-House Facilities and Equipment Include:

Manufacturing Space	30,000 sq. ft.
Lifting (Bridge Cranes)	1 ea. 5 ton, 4 ton, 3.5 ton, 2 ton; 19' lift height
Brake Forming	Cincinnati CNC 10' long, 10" stroke, 230 ton Chicago 8' long, 55 ton
Burning	AKS Hi Definition CNC plasma cutter, 72" x 120" table Capacity: 1.5" thick carbon steel, 1" thick stainless sheet Portable plasma cutter, 1" thick CS, 3/4" SS
Cutting	Marvel Series 81A automatic feed 18" band saw Marvel 8" band saw
Punching	90 ton portable punch; 82 ton Mubea beam punch; 60 ton Ironworker; 50 ton Rudel station punch
Rolling	Roundo 5/16" x 10' Carbon Steel Niagara 11GA x 5' Carbon Steel
Shearing	Cincinnati Model 2510 Capacity: 3/8" x 120" HRS, 1/4" x 120" SS
Welding	(14) MIG, (4) TIG, Oxy/Acetylene, and Stick
Painting	Cross draft open spray booth for prime, enamel, and epoxy coatings
Sand Blasting	Coarse, fine, glass bead, and other special media available
Additional support, testing, and inspection equipment	

Urea Skid w/Shop Wired Controls



Round Burner Fuel Inlet Assemblies



*Complete Windbox
Assembly w/Shop
Mounted Tube Panel*



A Wide and Diverse Range of PowerGen Specific Products

Metalfab's long and knowledgeable experience in fabrication of products for the power and process industries has resulted in a long list of components, assemblies, parts, systems, and

integrated, engineered components designed to improve efficiency while lowering raw material and overall operating costs.

This Extensive List Includes:

Boiler Fuel Firing and Emissions Systems Equipment and Parts

- Windbox Assemblies
- Overfire Air Registers
- Round Wall Burners
- Ductwork
- Fabricated Oil, Air, Gas, and Coal Tips (in various stainless, high alloy, wear resistant/abrasion resistant materials, and weld overlay applications)
- Damper Assemblies Including: Linkages, Tilt Arms, Bushings, Bearings, Seal Pipes
- Coal Pipe
- Fabricated Coal Nozzles
- Fabricated Elbows
- Coal Distributors
- Slide Gates

Boiler Lime Systems

- Hoppers
- Distributors
- Feeders
- Conveyors
- Fabricated Pipe
- Integrated Systems

Integrated Engineered Components

Specialized Pipe Skids Incorporating:

- Fabricated Piping
- Pumps
- Valves
- Actuators
- Instruments
- Operating Controls/Instrumentation/Programming
- NEMA Cabinets
- Shop Wiring Through Simulation/Checkout

Fan Skids Inclusive of:

- Fabricated Piping
- Fabricated Diverter Dampers
- Fan/Motor Sizing
- Motors
- Operating Controls/Instrumentation/Programming
- NEMA Cabinets
- Shop Wiring Through Simulation/Checkout

Other Plant Equipment and Parts

- Custom Hanger Supports
- Round and Rectangular Ductwork
- Mounting Boxes, Access Doors, Scallop Bars
- Fabricated Pulverizer Components
- In-House Parts Inventories



Fabricated Coal Pipe



Fabricated Elbows

Round Burner Coal Spreader w/Overlay



Fan Skid w/Auto Shutoff

A Large and Growing Base of Successful Customer Installations

If you can truly “judge someone by the company they keep”, then the following partial list of plants where Metalfab PowerGen equipment and parts are installed should prove useful in deciding if Metalfab is the right company to assist you with your next project.

Plant Name

AES Beaver Valley
Ameren Energy Res. Generating/E.D. Edwards Plant
American Electric Power/Clinch River Plant S/R
Blue Ridge Paper Products, Inc.
Cinergy Power Generation Serv./W.C. Beckjord Generating Stat.
City Utilities of Springfield/James River Power Station
Colorado Springs Utilities/RD Nixon Generating Station
Detroit Edison/Saint Clair Generating Station
Duke Energy Corporation/Belew’s Creek Steam Station
Energy Operational Services
First Energy Generation Corp./W.H. Sammis Plant
Indianapolis Power & Light Co./Eagle Valley Station
Lansing Board of Water & Light
Middletown Power, LLC
Nova Scotia Power, Inc./Trenton Generating Station
NRG Indian River Power LLC
OH Hutchings Station/Dayton Power & Light Company
PPG Industries, Inc.
Public Service Co. of N.H./Schiller Station
TVA John Sevier Fossil Plant
Union Electric Company/D/B/A Ameren UE/Meramec Plant
Westar Energy/Gordon Evans Energy Center
Western Resources/Gordon Evans Energy Center
Wisconsin Public Service Corp./Weston Steam Plant
Xcel Energy/Black Dog Generating Plant
... Many Others

Location

Monaca, PA
Bartonville, IL
Cleveland, VA
Canton, NC
New Richmond, OH
Springfield, MO
Fountain, CO
East China, MI
Belew’s Creek, NC
Killona, LA
Stratton, OH
Martinsville, IN
Lansing, MI
Middletown, CT
Trenton, NS, Canada
Dagsboro, DE
Miamisburg, OH
New Martinsville, WV
Portsmouth, NH
Rogersville, TN
St. Louis, MO
Colwich, KS
Colwich, KS
Rothschild, WI
Burnsville, MN

The Metalfab “PowerGen Mission”

Metalfab, Inc. will bring to market products which consistently meet or exceed customer quality and delivery expectations at competitive prices. These products will bring to bear these core engineering and production competencies required to continue to increase customer satisfaction. Metalfab will seek and maintain strong customer relationships to grow market share and profitability.

For more information and a quote on Metalfab Custom Fabricated Capabilities call 800-764-2999, in NJ 973-764-2000, Fax: 973-764-0272, e-mail: sales@metalfabinc.com or write:

 Metalfab, Inc.

**PowerGen Equipment, Assemblies & Parts
“Made Better by Design”**

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