

MAINTENANCE & REPAIR

Minimize associated outage risk with a new level of repair services.

nrg EnergyServices

Central repair shop - Houston, TX

As one of the leading natural gas and power retailers in the U.S., we take the phrase “one-stop shop” seriously, offering comprehensive repair services out of our 80,000-sq.-ft., OSHA VPP Star-certified, and ISO 9001:2015 facility in Houston. Repair services include:

- Gas and steam turbine repair
- Low speed balancing
- Pump repair
- Valve repair
- Rotor life analysis
- Nondestructive testing
- Parts fabrication - reverse eng
- Steam turbine stationary component repair
- Turbine casing repair
- Welding and light fabrication
- Wind turbine main shaft repair
- Material analysis

Industry know-how

We provide a new perspective on maintenance. With over 40 years of power plant operation and maintenance and servicing a fleet of 13 GW of generating capacity, our experience is both substantial and wide-ranging.

We provide unique solutions to maintaining plant production and keeping your units and equipment running. Maintenance services has extensive knowledge in industrial plant processes and power generation equipment.

Wide-ranging shop equipment:

- 100/25-ton and 15/5-ton center bay cranes
- 3- to 15-ton cranes
- 34-foot blast house with 100-ton crane access
- 70+ additional machine tools
- Abrasive water jet with 12-foot by 6-foot cutting table
- Largest horizontal boring machine: 9 feet tall, 20 feet long
- Largest lathe: 11.5-foot swing, 35 feet between centers
- Largest vertical boring machine: 17-foot swing
- NC vertical boring machine: 10-foot swing
- Small CNC lathe and milling machines

Maintain. Repair. Overhaul.

GAS TURBINE	VALVE REPAIR	PUMP REPAIR	STEAM TURBINE	BALANCE OF PLANTS

Reliability and efficiency

ROTORS

- Gas turbine and compressor rotor repair
- Gas turbine and compressor unstack and restack
- Dovetail cracking
- Seals
- Steam turbine rotor repair
- Case welding and machining
- Diaphragm partition repair, weld repair, and rerounding

VALVES

- Turbine control/governor valves
- Turbine stop/throttle and intercept valves
- Reheat and combined valves
- Non-return valves
- Weld build-up of eroded areas

PUMPS

- Boiler feed pump, horizontal split/barrel case
- Large vertical turbine pump
- Condensate pumps
- Circulating water pumps

MAJOR MANUFACTURERS:
DeLaval, KSB, Allis Chalmers, Byron Jackson, Ingersoll Rand, Pacific, SPX ClydeUnion, Foster Wheeler, ITT Goulds

BALANCE OF PLANTS

- Forced draft/induction draft fan repair
- Blower repairs
- Cooling tower fan gearbox repair
- Fluid drives

METAL FABRICATION AND WELDING

- Water cutting
- Fabrication of parts and equipment
- Cooler head repair
- Pulverizer repairs

Rotor life management

Our customizable rotor life management program delivers measurable results: reduced downtime, minimized costs, and extended rotor life between 50,000 and 100,000 hours, or 2,500 starts. We also inspect, disassemble, and reassemble rotors, stack and unstack rotors, and perform engineering analysis at our Central Repair Shop. This keeps your rotors and units running as reliably as possible.







WE'RE THERE WHEN YOU NEED US.

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