The power generation process from plant to distribution

If you work in power generation you face challenges such as preventing downtime, testing safety systems, troubleshooting process interruption with immediate response and repair, testing leak rate, and increasing throughput. Many tools—digital multimeters, vibration tools, thermal imagers—can help you; we highlight process tools here.

**Multifunction and loop calibrators**
- Troubleshooting and calibrating 4-20 mA loops, temperature, pressure and frequency input instruments
- Documenting the performance of temperature and calibration pressure switches and transmitters

**Temperature calibration tools**
- Troubleshooting and calibrating temperature instrumentation
- Testing temperature sensors
- Measuring and sourcing thermocouples and RTDs, plus volts and ohms into control system I/O

**Pressure calibration tools**
- Calibrating pressure transmitters, gauges, and switches
- Maintaining almost any pressure device using pressure sourcing and milliamp measurements
- Calibrating P/I instruments with simultaneous pressure and current measurement

See diagram on next page
Diagram is not intended to be an exact representation. Diagram components are not to scale and are for illustrative purposes only.

Coal furnace → Heated steam

Steam turbine → Condenser → Condensate pump

Generator

Transformer

Power distribution

Steam

Cooled water return

Gas turbine exhaust → Heated steam

Coal furnace

Nuclear reactor

Natural gas

Transmitter

Pressure gauge

Fluid stream

Control valve

Process piping or vessel wall

Conduit connection

RTD Connection head

Steam trap

Condensate pump

Pump

Natural gas fueled turbine

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