



# POWER GENERATION



## HEADQUARTERS

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## ENGINEERING INSTALLATION COMMISSIONING



# POWER GENERATION DIVISION

Provided according to the scope of the project and customer needs, we do Turnkey projects, from the engineering and procurement, up to commissioning and starting-up with high-efficiency to maximize the benefits. We also integrate equipment and complete systems.

- Turbines, Generators and Transformers.
- High, medium and low voltage switch-gear.
- Generator circuit breakers and Bus-ducts.
- Unit and auxiliary protection.
- Synchronizing, metering, measurement and control.
- Rectifiers, inverters and batteries.
- Change over devices.
- Drivers and static frequency converters.
- Emergency power supply.
- Cabling and tray systems.
- Lighting, grounding and lightning protection.
- Communication and alarm systems.

## MAINTENANCE AND SERVICES

Preventive, predictive and corrective maintenance to Power Equipment.

- Video inspection for turbine, auxiliary equipment and generators.
- Measurement and analysis of vibrations.
- Non destructive Testing and analysis.
- All kinds of maintenance, Inspection and repairs for Steam and Simple Cycle Turbines .
- Troubleshooting , Analysis and solutions.
- Work and bid scope development.
- Project Management: Turbine Project Management (Gas and Steam) Project Schedulers (Primavera P6, P5, P3, Microsoft Project, Suretrak, etc) Project Controls, Project Estimation and Cost Tracking, Outage Planning / Modeling.

Preventive, predictive and corrective maintenance to Generators and Power Transformer:

- Test To Power Transformers, Instrument Transformers, Voltage Regulators.
- Test Of Insulation Power Factor.
- Excitation Current Test.
- Relation Of Transformation And Polarity Test.
- Ohm Resistance Test.
- Contact Resistance Test.
- Reactance Of Dispersion Test.
- Residual Humidity Test.
- Saturation Test.
- Insulation Resistance Test To The Windings.
- Power Circuit Breaker Test.
- Insulation Power Factor Test.
- Contact Resistance In Power Circuit Breakers
- Operation Time & Simultaneously Closing/Opening In Power Circuit Breakers.
- Electric Test To Bushings, Lighting Arresters, Disconnecting Switches, Single Or Group Operation.
- Hot Collar Bushing And Disconnecting Switches Test.

## Engineering, Installation, Commissioning

Our qualified staff make possible the commissioning and starting-up of equipment and systems in optimal time, encouraging customer participation in all processes, sharing experiences and knowledges

