Asset management for power generation
Safety, reliability and compliance
We will help you secure the benefits of effective asset management.

- Safety - reduce technical risks
- Reliability - improve profitability by better knowledge of plant status
- Compliance - increase stakeholder confidence by demonstrating implementation of clear and effective policy

ABB Consulting provides technical and engineering services to improve performance in the areas of compliance, operations and engineering to customers in the chemical, petrochemical, oil & gas, power, pharmaceuticals, metals and consumer industries worldwide.

ABB supports successful asset management in the power industry, from thermal generation, renewables, and gas storage through to transmission and distribution.

The challenges
Operating companies in the power industry are increasingly seeking to improve asset integrity, reliability, and process safety whilst demonstrating compliance and use of good practice from other industry sectors to manage technical risks.

Capabilities
We offer a comprehensive range of services in the areas of:

Strategic reviews:
- Independent engineering audit
- Asset management review
- PAS 55 audit
- Plant status review
- Safety critical systems review
- Legislative compliance audit
- Outage planning and delivery audits

Problem and solution identification
- Risk identification and assessment
- Engineering critical assessments
- Plant life extension
- Incident investigation and failure analysis
- Design reviews

Implementation
- Inspection programmes
- Maintenance programmes
- Competence development
- Improvement projects
Our experience
ABB Consulting, a group specialising in a range of consulting services for the power and process industries, are able to support our clients in all aspects of asset management. Our customers benefit from our long experience across the full range of high hazard industries to support cost effective asset management programmes.

We have technical specialists in the full range of technical disciplines including:

- Pressure systems
- Materials technology
- Stress analysis
- Power generation and distribution

Our technical specialists are experienced in all aspects of design, operation and maintenance, not only focussing on the equipment issues, but also on the vital ‘softer’ issues of organisational and personal competence.

Our approach
ABB works in partnership with customers, transferring knowledge to allow the benefits we deliver to be sustained and increased. We identify and implement pragmatic solutions based on excellent technical knowledge and operational experience.

Benefits
Using risk-based approaches, we have helped many companies improve the integrity of their assets by:

- Identifying the critical equipment items and systems
- Helping implement appropriate steps to improve equipment reliability and safety
- Improving the effectiveness of maintenance, inspection and testing programmes
- Helping to ensure asset management systems are sustained and improved by development of necessary procedures, auditing and training
Asset management services
- Asset life studies and plans
- Auditing and gap analysis PAS 55, PSSR, PUWER
- Civil and structural inspection and consultancy
- Critical defect assessment
- Finite Element Analysis (FEA)
- Fitness for service assessment
- Independent design review
- Materials engineering and consultancy
- Preparation of focussed schemes of examination
- Pressure equipment specification and design
- RBI+© software
- Reliability and maintenance
- Repair specification
- UKAS accredited inspection service

Other ABB capabilities include:
- Inspection
- Integrity management
- Operations improvement
- Process safety
- Project services
- Site and asset regeneration
- Technical engineering
- Technical software
- Technical training and competency

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