

**Allianz Risk Consulting GmbH
Allianz Center for Technology (AZT)**

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**AZT laboratory in cooperation with
the Organization for Materials Testing
(Gesellschaft für Werkstoffprüfung mbH,
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AZT Hotline

We are available:
24 hours a day
7 days a week
365 days a year!

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AZT damage expertise covers the entire spectrum of conventional and renewable energy production.

When carrying out checks, our experts always take a very close look.

We advise you from A to Z.

About us

The Allianz Center for Technology (Allianz Zentrum für Technik or AZT) has been involved in damage investigation and prevention for more than 80 years. A renowned institution with specialized expertise, the AZT is the Allianz Group's leading consulting company for safety, risk and technology.

The AZT provides objective and interdisciplinary clarifications and advice regarding complex risks and damage in industrial facilities and power plants.

Global reach

Our experts are deployed to loss-events worldwide – both as part of Allianz's international network, and as commissioned by our global customer base.

Our customers

Our customers include manufacturers as well as operating and service companies for industrial facilities and power plants.

Our areas of expertise

- **Conventional power plants** (steam and gas turbines, boilers, generators, transformers, pumps, compressors, gears, bearings)
- **Renewable energies** (wind, solar, hydro, geothermal, biomass)
- **Industrial facilities** (paper, metal, chemicals)

Interdisciplinary expertise is our core focus

Our team consists of experts from a variety of specialist areas, such as mechanical engineering, gear technology, turbo machinery, vibration analysis, chemical and process engineering, material and welding technology and electrical engineering.

Damage analysis and prevention

In addition to damage analysis, AZT's core competencies include damage prevention. This means offering our customers a comprehensive and holistic service spectrum, from A to Z, all from one source:

- Investigating the damage mechanisms in materials laboratory
- Checking calculations, design and manufacturing

- Evaluating technical operation data
- Investigating, determining and representing the primary causes of damage
- Establishing corrective measures
- Site visits for quality assurance (checks and measurements)
- Non-destructive checks and targeted vibration analyses for damage prevention

Machine, plant and operational safety

To ensure that the highest standards of technological safety are met, our AZT experts support you through all project phases, no matter how complex. This includes planning, design, manufacturing and assembly, as well as machine and plant operations.

Our services in detail:

- Construction and assembly surveying
- Machinery and plant monitoring
- Checking and providing advice on condition monitoring systems
- Advising on maintenance and repair
- Assessing the condition of technical facilities
- Assessing lifetime

Technical support and risk consultation

We support you on technical issues to power plants and machinery through targeted and individually tailored analysis.

Our consultancy services cover the following:

- Technical assessment of upgrades and prototype developments
- Conceptual and systematic assessment of critical infrastructures
- Analyzing technical performance and advising on operational management
- Assessing construction, including welding technology and selection of materials

Why damage analysis?

„A man who has committed a mistake and doesn't correct it, is committing another mistake.“

Confucius, ca. 500 B.C.