

**Engineering + Technology + Ingenuity =  
Customized solutions for some of the world's  
most challenging material evaluation problems.**



### **At Adaptive Energy it's a simple equation.**

We create unique non-destructive testing (NDT) solutions to address mission-critical, time-sensitive testing needs. By combining the latest imaging technologies with innovative mechanical and robotic assemblies, Adaptive Energy's integrated systems offer rapid deployment, are easy to learn and maintain, and perform reliably under pressure.

The company was founded in 2001, and its team brings decades of experience in imaging technologies, engineering, machining and materials.

Adaptive Energy's experts collaborate with customer R&D, production, operations and QC & QA teams around the world to design and fabricate effective solutions that perform with precision even in the most difficult or hazardous environments while delivering low total cost of ownership.

### **Adaptive Energy offers expertise in:**

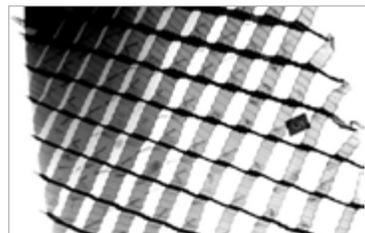
- **Digital radiography**—High-energy and micro-focus X-ray systems Using a multitude of imaging media such as amorphous silicon digital panels, LDA, CMOS and TDI
- **Computed tomography**—Systems for advanced, three-dimensional digital X-ray imaging
- **Ultrasonic scanning**—ultrasonic scanners combined with mechanical assemblies and robotic crawlers for specialized and remote testing in extreme environments and confined spaces

We combine these technologies with custom-designed, built and installed **radiation enclosures, overhead gantry systems, immersion tanks** and **part manipulation assemblies** for inspection of even the largest or most complex components.



### **Adaptive Energy serves leading organizations in the following industries:**

- Aerospace & Aviation
- Automotive
- Defense & Military
- Energy & Power Generation
- Government
- Infrastructure
- Manufacturing
- Nuclear
- Petrochemical, Oil & Gas
- Primary Materials





## Adaptive Energy solutions help address testing challenges such as:

- Crack detection
- Porosity, hardness and density
- Inclusions and flaws
- Corrosion
- Delamination and layer separation
- Weld inspection to meet AWS, ASME and ASTM standard
- Honeycomb structures analysis
- Measuring dimensional characteristics
- Material sorting applying both eddy current and fluoroscopy methods
- Bladeless mixing and de-aerating

Adaptive Energy works with virtually any type of material including **metals and alloys, polymers, concrete, composite materials and fluids**, and structures such as **pipes, pressure vessels, underground tanks** and **concrete infrastructure**.

Adaptive Energy is the exclusive distributor in the U.S. and Canada of FORCE Technology's **P-Scan ultrasonic scanners** including the **P-Scan Stack with Phased Array**—cutting edge ultrasonic technology integrated with rapid, automated scanning capability and data analysis. Adaptive Energy is also the U.S. distributor of **Anti-Smut® 100 (JAR 3N)** from ISCA UK, Ltd. to non-destructively eliminate surface smutting in nitric acid etching of high-strength modified steels.

Whether you need to test mission-critical components at production line speeds, require precision imaging with digital capture and analysis capabilities, or have to perform in-service inspection of critical infrastructure in confined spaces or extreme environments, Adaptive Energy can design an NDT solution for even the most challenging testing problem.

**Contact us today to learn how we can help.**



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