

# Global Fitness for Service Market Size Study & Forecast, by Service Type (Non-destructive Testing (NDT), Engineering Critical Assessment (ECA)) by End-use (Oil & Gas, Power Generation) and Regional Forecasts 2025-2035

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## Abstracts

The Global Fitness for Service Market is valued at approximately USD 6.9 billion in 2024 and is projected to expand at a compelling compound annual growth rate of 7.90% over the forecast period from 2025 to 2035, supported by historical performance observed during 2023 and 2024, with 2024 positioned as the base year for estimation. Fitness for Service (FFS) refers to a structured engineering assessment methodology used to determine whether industrial equipment—often operating beyond its original design life—can continue to function safely and reliably. These assessments are increasingly being leaned into across asset-intensive industries to evaluate structural integrity, material degradation, corrosion, and fatigue, thereby allowing operators to extend asset life while aligning with safety, compliance, and cost-efficiency objectives.

Rising pressure to optimize aging infrastructure, coupled with heightened regulatory scrutiny around operational safety and environmental risk, has significantly pushed up demand for fitness for service solutions. Asset owners are increasingly shifting away from reactive maintenance models and leaning into predictive integrity management strategies that help head off catastrophic failures before they spiral into costly shutdowns. In parallel, volatile energy markets and capital expenditure constraints have encouraged operators to sweat existing assets rather than pursue greenfield investments. Advances in inspection technologies, digital twins, and data-driven engineering assessments are further amplifying the value proposition of fitness for service services, enabling faster, more accurate decision-making across complex operating environments.

**The detailed segments and sub-segments included in the report are:**

## By Service Type:

- Non-destructive Testing (NDT)
- Engineering Critical Assessment (ECA)
- Remaining Life Assessment (RLA)
- Fitness For Purpose (FFP) Assessment

## By End-use:

- Oil & Gas
- Chemicals and Petrochemicals
- Power Generation
- Refining and Midstream
- Others

Among service types, non-destructive testing (NDT) is expected to dominate the global market over the forecast period. NDT continues to be worked into routine inspection and integrity management programs due to its ability to detect flaws, corrosion, and material degradation without interrupting operations. As facilities age and inspection intervals tighten, NDT techniques such as ultrasonic testing, radiography, and acoustic emission monitoring are being leaned on heavily to provide real-time insights into asset condition. The scalability and cost-effectiveness of NDT make it a cornerstone service across both upstream and downstream applications.

From a revenue perspective, engineering critical assessment (ECA) currently accounts for the largest share of the Global Fitness for Service Market. ECA services are extensively adopted when assets exhibit known defects and require detailed, standards-

based evaluations to determine safe operating limits. These assessments play a pivotal role in high-risk environments where failure consequences are severe, such as high-pressure pipelines, reactors, and offshore structures. While remaining life and fitness-for-purpose assessments continue to gain traction, ECA remains the primary revenue driver owing to its complexity, engineering intensity, and indispensable role in risk-based decision-making.

The key regions considered for the Global Fitness for Service Market study include Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. North America holds a commanding position in the market, driven by a vast installed base of aging oil & gas and power infrastructure, along with stringent safety regulations and mature inspection ecosystems. Europe follows closely, supported by strong compliance frameworks and a growing emphasis on asset sustainability. Asia Pacific is expected to witness the fastest growth during the forecast period, as rapid industrial expansion, rising energy demand, and increasing investments in refining, petrochemicals, and power generation push operators to adopt structured integrity assessment practices.

**Major market players included in this report are:**

SGS S.A.

Bureau Veritas

T?V S?D

Intertek Group plc

ABS Group

DNV Group

Aker Solutions

Rosen Group

Technip Energies

John Wood Group PLC

Applus+

Fluor Corporation

Worley Limited

Quest Integrity Group

MISTRAS Group, Inc.

### **Global Fitness for Service Market Report Scope:**

Historical Data ? 2023, 2024

Base Year for Estimation ? 2024

Forecast period ? 2025?2035

Report Coverage ? Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope ? North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope ? Free report customization (equivalent to up to 8 analysts? working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define the market size of various segments and countries in recent years and to forecast their values over the coming decade. The report has been designed to weave together quantitative data with qualitative industry insights, offering a holistic view of market dynamics. It highlights the key drivers, emerging challenges, and regulatory pressures shaping future growth, while also mapping out investment pockets across micro-markets. In addition, the study delivers a detailed competitive analysis and service benchmarking, equipping stakeholders with the strategic clarity needed to navigate an increasingly risk-aware and compliance-driven industrial landscape.

**Key Takeaways:**

Market estimates and forecasts for the period 2025?2035

Annualized revenue analysis across regions and market segments

In-depth geographical assessment with country-level insights

Competitive landscape profiling of leading service providers

Strategic evaluation of business models and future growth pathways

Analysis of market structure and competitive intensity

Comprehensive demand-side and supply-side assessment

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