

# Pressure Vessel Market to Hit \$33.7 Bn by 2030 | Growth Driven by Energy Demand

*Stricter safety rules and new energy projects are reshaping the market — compliance and innovation now determine which suppliers win long-term contracts.*

WILMINGTON, DE, UNITED STATES,  
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EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "Pressure Vessel Market for Alternative Fuels, by Material (Hastelloy, Titanium, Nickel & Nickel Alloys, Tantalum, Steel, and Others), Product (Boiler, Nuclear

Reactor, Separator, and Others), and End Use (Chemicals & Petrochemicals, Oil & Gas, Power Generation, and Fertilizers): Global Opportunity Analysis and Industry Forecast 2021-2030" The global pressure vessel market size for alternative fuels was valued at \$21.9 billion in 2020, and is projected to reach \$33.7 billion by 2030, growing at a CAGR of 4.4% from 2020 to 2030.

The global pressure vessel market comprises manufacturers and service providers that design, fabricate, install, inspect, and maintain vessels used to contain gases or liquids at pressures different from ambient. Demand is driven by oil & gas, petrochemicals, power generation, chemicals, and industrial manufacturing, where vessels are critical for storage, reaction, separation and heat exchange. Regulatory safety standards, materials technology, and aftermarket inspection services strongly influence purchasing decisions and lifecycle costs.

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- Demand drivers — energy & industrial activity. Expansion in upstream oil & gas, petrochemical capacity, and growing power-generation (including hydrogen and ammonia projects) are primary demand engines. Industrialization and a renewed focus on domestic manufacturing in several countries also increase need for bespoke and large-capacity vessels.



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- Regulation & safety pressure. Stricter safety codes (ASME, PED and national standards), more frequent inspections, and liability considerations force operators to prioritize certified suppliers and invest in durable, inspectable designs. Compliance increases upfront cost but creates recurring revenue for certified inspection and refurbishment services.
- Materials, design and manufacturing evolution. Adoption of higher-strength alloys, corrosion-resistant linings, composite materials, and advanced welding/forming techniques allow lighter, more compact vessels and extend service life. Additive manufacturing and modular fabrication reduce lead times for complex, low-volume units.
- Aftermarket services & digitalization. Predictive maintenance, non-destructive testing (ultrasonic, radiography), and digital asset management (inspection drones, sensor monitoring) are becoming differentiators. Providers offering integrated lifecycle solutions (design → fabrication → inspection → repair) capture higher margins and longer customer relationships.
- Market challenges & opportunities. Volatile commodity prices and cyclic capital spending in oil & gas create short-term demand swings, while opportunities arise from energy transition projects (hydrogen, CO<sub>2</sub> capture, thermal storage) and from replacement of aging infrastructure worldwide.

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#### Pressure Vessel Market Analysis

The [pressure vessel market analysis](#) is segmented by product type (storage vessels, reactors, heat exchangers, autoclaves, boilers), material (carbon steel, stainless steel, nickel alloys, composites), pressure rating (low, medium, high), manufacturing method (shop-fabricated, site-erected), and end-use (oil & gas, power & utilities, chemicals, water treatment, food & beverage, pharmaceuticals, maritime, aerospace). Each segment has distinct certification, material and inspection needs that influence supplier selection and pricing.

#### Regional Market Insights

Asia-Pacific leads in volume due to large-scale petrochemical, power and manufacturing projects, competitive fabrication capacity, and significant investments in infrastructure in China, India, South Korea and Southeast Asia. Rapid industrial expansion and competitive local manufacturers keep prices aggressive while improving local technical capabilities.

North America and Europe are mature, high-value markets that emphasize stringent certification, advanced materials and aftermarket services; growth is steadier but margins are higher. The Middle East remains a concentrated market for large, high-capacity vessels tied to oil & gas and refining projects, while Latin America and Africa represent emerging demand driven by resource development and infrastructure replacement.

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Competition is shaped by scale and certification: large global fabricators compete on engineering depth, certifications, and integrated project execution, while regional specialists win on speed, local compliance knowledge, and cost. Key competitive levers include turnaround time, custom engineering, material sourcing, and proven inspection/QA programs.

Consolidation, strategic partnerships and vertical integration (fabrication + inspection + digital monitoring) are common strategies to capture lifecycle value. New entrants often focus on niche opportunities—composite vessels, small-batch high-alloy fabrications, or digital inspection services—rather than full-scope EPC competition.

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- Energy transition projects (hydrogen, CO<sub>2</sub> capture, thermal storage) create new demand vectors beyond traditional oil & gas.
- Regulatory compliance and certification drive buyer preference toward established, accredited suppliers.
- Aftermarket inspection and digital monitoring are rapidly increasing in importance and revenue contribution.
- Materials and manufacturing innovations (high-strength alloys, composites, modular fabrication) reduce lifecycle costs but raise initial technical barriers.
- Market cyclicalities from commodity-linked capex remains a key risk; diversification across end-uses and service offerings mitigates exposure.

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