

# Global Thermal Energy Storage Tank Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Thermal Energy Storage Tank market size was valued at US\$ 1152 million in 2025 and is forecast to a readjusted size of US\$ 1682 million by 2032 with a CAGR of 5.2% during review period.

In 2025, global Thermal Energy Storage Tank production reached approximately 1,560 k units, with an average global market price of around US\$ 7,200 per unit. The gross profit margin of major companies in the industry is between 25% ? 40%. Thermal Energy Storage Tanks are insulated vessels engineered to store thermal energy in the form of hot or chilled fluids for later use. They are commonly used with water, glycol, steam condensate, or molten salts to enable load shifting, peak shaving, and stable heat supply. By charging during off-peak hours or when renewable heat is available and discharging during demand peaks, TES tanks improve energy efficiency and reduce operating cost. Designs include pressurized and atmospheric tanks, stratified storage for better temperature layering, and corrosion-resistant linings. Key requirements include thermal insulation performance, pressure and leakage safety, cycling durability, and integration with heat exchangers and controls. The industrial chain of Thermal Energy Storage Tanks includes upstream inputs such as carbon or stainless steel plates, welding consumables, insulation materials, liners and coatings, nozzles, manways, supports, heat exchangers, pumps, valves, piping, sensors, and instrumentation. Midstream manufacturing covers tank design, plate rolling, welding, NDT inspection, pressure testing, surface treatment, insulation installation, and skid integration with control modules. Downstream applications include district heating and cooling, industrial process heat buffering, HVAC thermal storage, renewable heat integration, and waste-heat recovery projects. Service segments include engineering, installation, commissioning, inspection, and maintenance.

The Thermal Energy Storage Tank market is growing as district energy networks, commercial buildings, and industrial sites adopt thermal load shifting to cut energy costs and emissions. Hot-water and chilled-water tanks remain the volume core, while higher-temperature designs are gaining attention in renewable heat and industrial buffering applications. Buyers increasingly demand better stratification performance, lower heat loss, and reliable long-cycle operation, driving upgrades in insulation, internal diffusers, and corrosion protection. Integration with heat pumps, boilers, solar thermal, and waste-heat recovery systems is expanding, making turnkey skid solutions more attractive. At the same time, project economics depend on local electricity tariffs, peak-demand charges, and available space, so optimized sizing and control strategies are critical. Overall, the market benefits from decarbonization policies, grid flexibility needs, and the practicality of using mature tank manufacturing to deliver scalable thermal storage capacity.

This report is a detailed and comprehensive analysis for global Thermal Energy Storage Tank market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Thermal Energy Storage Tank market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Energy Storage Tank market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Energy Storage Tank market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Energy Storage Tank market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thermal Energy Storage Tank

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Thermal Energy Storage Tank market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Trane Technologies, Wessels Company, Highland Tank, DN Tanks, LIPP GmbH, PTTG, ARANER, CiNQ, Advance Tank, Caldwell, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Thermal Energy Storage Tank market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Sensible Heat Storage (SHS)

Latent Heat Storage (LHS)

Thermochemical Storage (TCS)

### Market segment by Material

Carbon Steel

Stainless Steel

Others

#### Market segment by Storage Medium

Water

Molten Salt

Others

#### Market segment by Application

Industrial

Municipal

Commercial

#### Major players covered

Trane Technologies

Wessels Company

Highland Tank

DN Tanks

LIPP GmbH

PTTG

ARANER

CiNQ

Advance Tank

Caldwell

EVAPCO

Pacific Tank

IES Engineering

BERG Industries

Paso Robles Tank

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Thermal Energy Storage Tank product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Energy Storage Tank, with price,

sales quantity, revenue, and global market share of Thermal Energy Storage Tank from 2021 to 2026.

Chapter 3, the Thermal Energy Storage Tank competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Energy Storage Tank breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thermal Energy Storage Tank market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermal Energy Storage Tank.

Chapter 14 and 15, to describe Thermal Energy Storage Tank sales channel, distributors, customers, research findings and conclusion.

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