

Global Pumped Storage Hydropower Plant 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 Pumped Storage Hydropower Plant market size was valued at US\$ 43010 million in 2025 and is forecast to a readjusted size of US\$ 64761 million by 2032 with a CAGR of 7.0% during review period.

In 2025, global newly commissioned pumped storage hydropower plants reached 110 units, with an average selling price of USD 380 million per unit, total planned and construction capacity of approximately 140 units, and an average gross margin of about 27%.

A pumped storage hydropower plant is a large-scale energy storage and regulation facility that uses water as the medium to convert electrical energy into potential energy and back. It typically consists of an upper reservoir, a lower reservoir, water conveyance systems, reversible pump-turbines, and generator units. During periods of low electricity demand or excess renewable generation, surplus electricity is used to pump water to the upper reservoir for energy storage; during peak demand periods, stored water is released to generate electricity. Pumped storage hydropower plants provide key grid services such as peak shaving, frequency regulation, reserve capacity, and system stability, and represent the most mature and widely deployed form of long-duration, grid-scale energy storage.

The upstream of pumped storage hydropower plants mainly includes manufacturers of hydropower equipment and key components (such as pump-turbines, generators, transformers, and control systems), suppliers of civil engineering materials, and engineering design and survey service providers. The midstream consists of EPC

contractors and specialized hydropower construction companies responsible for project design, construction, installation, and commissioning. Downstream customers are primarily national grid companies, regional power utilities, and renewable energy investors, with pumped storage plants serving as grid-side infrastructure to provide regulation and energy storage services for power systems and renewable integration.

This report is a detailed and comprehensive analysis for global Pumped Storage Hydropower Plant 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 Pumped Storage Hydropower Plant market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Pumped Storage Hydropower Plant market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Pumped Storage Hydropower Plant
- 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 Pumped Storage Hydropower Plant 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 GE Renewable Energy, EDF, Voith Hydro, Schluchseewerk, Toshiba, Dongfang Electric, Northland Power, SinoHydro, Eskom, J-Power, etc.

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

Market Segmentation

Pumped Storage Hydropower Plant 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

Closed-loop System

Open-loop System

Market segment by Topography & Structural Type

Surface Pumped Storage Facility

Underground Pumped Storage Facility

Market segment by Turbine-Generator Type

Reversible Pump-Turbine Pumped Storage

Fixed-speed and Variable-speed Pumped Storage Units

Market segment by Application Scenario

Grid Peak Shaving & Frequency Regulation Pumped Storage

Renewable Energy Integrated Pumped Storage

Market segment by Application

Natural Reservoirs

Man-made Reservoirs

Others

Major players covered

GE Renewable Energy

EDF

Voith Hydro

Schluchseewerk

Toshiba

Dongfang Electric

Northland Power

SinoHydro

Eskom

J-Power

Enel Green Power SpA

ANDRITZ

TC Energy

Iberdrola

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 Pumped Storage Hydropower Plant product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pumped Storage Hydropower Plant, with price, sales quantity, revenue, and global market share of Pumped Storage Hydropower Plant from 2021 to 2026.

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

Chapter 4, the Pumped Storage Hydropower Plant 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 Pumped Storage Hydropower Plant 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 Pumped Storage Hydropower Plant.

Chapter 14 and 15, to describe Pumped Storage Hydropower Plant sales channel, distributors, customers, research findings and conclusion.

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