

Global Data-driven Plant Optimization Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GF40DD966D75EN.html>

Date: October 2026

Pages: 142

Price: US\$ 3,660.00 (Single User License)

ID: GF40DD966D75EN

Abstracts

The global Data-driven Plant Optimization market size is predicted to grow from US\$ 9636 million in 2025 to US\$ 16099 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 2032.

Data-driven Plant Optimization refers to software, hardware, and service solutions that collect, integrate, and analyze data from industrial sensors, production-control systems, and factory software platforms, and then use analytical or artificial-intelligence models to generate predictions, operational recommendations, or automated control actions. These solutions are designed to improve production efficiency, equipment utilization, product quality, and energy performance. Core functions generally include industrial data acquisition and connectivity, real-time monitoring, advanced process control, predictive maintenance, digital twins, production scheduling optimization, energy management, and AI-based analytics. This report covers revenue from software licenses, cloud subscriptions, system integration, data modeling, implementation, and ongoing technical services, while excluding standalone sensors, controllers, and conventional automation equipment that do not include plant-optimization functions.

The upstream industry chain mainly includes industrial sensors, instrumentation, PLCs, DCS, SCADA systems, industrial gateways, edge-computing devices, servers, cloud-computing resources, databases, and industrial communication networks that provide data-acquisition and computing infrastructure. It also includes analytical algorithms, industry knowledge bases, and industrial software development tools. Midstream participants include industrial-automation companies, industrial-software suppliers, cloud-platform providers, artificial-intelligence companies, system integrators, and engineering-service providers. Their activities cover data connectivity, platform development, process modeling, algorithm training, system deployment, maintenance,

and continuous optimization. Downstream users mainly include companies in oil and gas, chemicals, refining, power generation, steel, non-ferrous metals, cement, pulp and paper, food and beverage, pharmaceuticals, and other process and discrete-manufacturing industries. Customers generally purchase these solutions through software licenses, cloud subscriptions, implementation projects, and long-term service contracts.

United States market for Data-driven Plant Optimization is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Data-driven Plant Optimization is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Data-driven Plant Optimization is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Data-driven Plant Optimization players cover ABB, Honeywell, Siemens, Emerson, Zeeco, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LPI (LP Information)' newest research report, the "Data-driven Plant Optimization Industry Forecast" looks at past sales and reviews total world Data-driven Plant Optimization sales in 2025, providing a comprehensive analysis by region and market sector of projected Data-driven Plant Optimization sales for 2026 through 2032. With Data-driven Plant Optimization sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Data-driven Plant Optimization industry.

This Insight Report provides a comprehensive analysis of the global Data-driven Plant Optimization landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Data-driven Plant Optimization portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Data-driven Plant Optimization market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Data-driven Plant Optimization and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Data-driven Plant Optimization.

This report presents a comprehensive overview, market shares, and growth opportunities of Data-driven Plant Optimization market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

On-premises Type

Cloud-based Type

Segmentation by Data Update Frequency:

Offline Batch Optimization (Update Cycle Above 24 Hours)

Near-real-time Optimization (Update Cycle from 1 Minute to 24 Hours)

Real-time Optimization (Update Cycle Below 1 Minute)

Continuous Closed-loop Optimization (Millisecond-level Response)

Segmentation by Application:

Oil and Gas

Chemical and Petrochemical

Power and Energy

Iron, Steel and Non-ferrous Metals

Cement and Building Materials

Pulp and Paper

Food and Beverage

Pharmaceutical and Life Sciences

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

ABB

Honeywell

Siemens

Emerson

Zeeco

Yokogawa Electric Corporation

Valmet

DURAG

Fuji Electric

Focused Photonics (Hangzhou)

Yantai Longyuan Power Technology

VetterTec

Environmental Energy Services

GE Vernova

Schneider Electric

Rockwell Automation

AVEVA

AspenTech

Bentley Systems

IBM

AVAT Automation

Microbeam Technologies, Inc

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