

# **Advanced Process Control (APC) Market By Component (Hardware, Software, Services), By Technology (Advanced Regulatory Control (ARC), Multivariable Model Predictive Control (MPC), Sequential Control, Inferential Control, Compressor Control), By End user (Oil and Gas, Food and Beverages, Pharmaceuticals, Power, Others): Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

The global advanced process control (APC) market was valued at \$2.3 billion in 2023, and is projected to reach \$5.3 billion by 2033, growing at a CAGR of 9% from 2024 to 2033.

Advanced process control (APC) is a set of advanced techniques and technologies applied in industrial process control systems, which manages simple tasks. APC systems employ complex algorithms to predict future process behaviors and adjust for optimal performance. APC is widely used in industries with continuous processes, including chemical, petrochemical, oil and mineral refining, food processing, pharmaceuticals, and power generation.

Rise in focus on energy efficiency across various industries is a major factor driving the growth of the advanced process control (APC) market. Companies are working to reduce operational costs and lower their carbon footprints to meet sustainability targets and comply with regulatory requirements. APC systems help optimize energy use by continuously monitoring and adjusting process parameters in real-time, minimizing

waste. For example, in chemical plants, APC systems control temperatures and pressures to ensure efficient energy consumption. In power generation, APC improves the performance of turbines and boilers. With rising energy costs and stricter environmental regulations, more industries are turning to APC solutions to achieve cost-effective and sustainable operations, fueling substantial growth in the market.

However, high initial costs associated with implementing APC systems hampers the market growth. Advanced process control solutions require significant investments in software, hardware, system integration, and skilled personnel for installation and maintenance. For smaller enterprises or industries with tight budgets, these costs can be prohibitive, delaying adoption. Moreover, integration of Artificial Intelligence (AI) and Machine Learning (ML) in APC systems offers significant growth opportunities for the market. AI and ML enhance the predictive capabilities of APC by analyzing vast datasets to identify patterns and anomalies, enabling better decision-making. For example, AI-driven APC can predict equipment failures and optimize maintenance schedules, reducing downtime and operational costs.

### **Segment Review:**

The advanced process control (APC) market is segmented on the basis of component, technology, end user, and region. On the basis of components, the market is divided into hardware, software, and services. Based on technology, the market is segmented into advanced regulatory control (ARC), multivariable model predictive control (MPC), sequential control, inferential control, and compressor control. On the basis of end user, the advanced process control (APC) market share is classified oil & gas, food & beverages, pharmaceuticals, power, and others. Region-wise, it is analyzed across North America (the U.S., Canada, and Mexico), Europe (the UK, Germany, France, Italy, and the rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, Africa).

### **Key Findings:**

By component, the software segment accounted for maximum revenue in 2023 and is projected to grow at a notable CAGR of 9.0% during the forecast period.

By technology, the advanced regulatory control (ARC) segment was the highest revenue contributor in 2023.

By end user, the oil and gas segment accounted for the highest revenue in 2023.

Region-wise, Asia-Pacific, accounted for the highest revenue in the market in 2023.

### **Competition Analysis:**

The key players in the advanced process control (APC) market are General Electric Company, Siemens AG, ABB Ltd., Rockwell Automation Inc., Honeywell International Inc., Onto Innovation, Inc., Yokogawa Electric Corporation, Emerson Electric Corporation, Schneider Electric, and SAP SE. Product launch and acquisition business strategies were adopted by the major advanced process control (APC) Market players in 2023.

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SWOT Analysis

## **Key Market Segments**

### By Component

Hardware

Software

Services

### By Technology

Advanced Regulatory Control (ARC)

Multivariable Model Predictive Control (MPC)

Sequential Control

Inferential Control

Compressor Control

## By End user

Oil and Gas

Food and Beverages

Pharmaceuticals

Power

Others

## By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

## LAMEA

Latin America

Middle East

Africa

## Key Market Players

General Electric Company

Siemens AG

ABB Ltd.

Rockwell Automation Inc.

Honeywell International Inc.

Onto Innovation, Inc.

Yokogawa Electric Corporation

Emerson Electric Corporation

Schneider Electric

SAP SE

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