

Global Co-Fired Piezo Actuators Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC96FEB871B9EN.html>

Date: August 2026

Pages: 154

Price: US\$ 4,480.00 (Single User License)

ID: GC96FEB871B9EN

Abstracts

The global Co-Fired Piezo Actuators market size is expected to reach \$ 934 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

In 2025, global Co-Fired Piezo Actuators production reached approximately 6711 K Units, with an average global market price of around 88 USD per Unit.

Co-Fired Piezo Actuators are piezoelectric actuation devices manufactured by alternately stacking green piezoelectric ceramic layers and internal electrode materials, then co-firing them into a monolithic multilayer structure. They use the inverse piezoelectric effect to convert electrical signals into micro-displacement, force, vibration, or precision positioning motion. Compared with conventional stack piezo actuators made by bonding or assembling separately fired piezoceramic plates, co-fired piezo actuators typically feature thinner ceramic layers, lower driving voltage, higher integration, better batch-to-batch consistency, and stronger miniaturization advantages. They are suitable for applications requiring low-voltage drive, fast response, and high-precision motion control, such as nanopositioning, semiconductor equipment, precision valve control, microfluidics, medical devices, precision optics, automotive electronics, haptic feedback, and high-end industrial automation.

The core advantage of Co-Fired Piezo Actuators lies in their monolithic multilayer structure, where piezoelectric ceramic layers and internal electrodes are co-fired into an integrated body, enabling fast, stable, and repeatable micro-displacement and high-precision motion output in a smaller form factor and at lower driving voltage. This helps address the limitations of conventional electromagnetic actuators in miniaturization, response speed, nanometer-level control, low power consumption, and electromagnetic interference, while also improving consistency, compactness, and manufacturability.

compared with conventional bonded stack piezo actuators. As semiconductor equipment, precision optics, microfluidic medical devices, industrial jetting valves, automotive precision valve control, haptic feedback, and high-end automation systems increasingly require low-voltage, fast-response, highly reliable, and compact actuation components, co-fired piezo actuators are evolving from specialized precision parts into key enabling components for advanced manufacturing and intelligent devices. Looking ahead, as end products move toward higher precision, smaller size, smarter functionality, and lower power consumption, and as localized high-end manufacturing supply chains continue to mature, co-fired piezo actuators are expected to gain broader adoption in high-value applications such as semiconductors, medical devices, automotive electronics, consumer electronics, and industrial automation, with future growth driven by deeper penetration into premium applications, product standardization, and stronger system-level integration.

The upstream raw materials for Co-Fired Piezo Actuators mainly include piezoelectric ceramic powder, basic oxide raw materials, and electrode materials. Typical raw material suppliers include CeramTec, L3Harris, Morgan Advanced Materials, American Elements, Merck/Sigma-Aldrich, Thermo Fisher Scientific, Heraeus, and DuPont. Downstream applications are mainly in industrial and manufacturing, automotive, consumer electronics, optical instruments, medical, and military fields. Typical downstream users include Zeiss, Nikon, Canon, Bosch, Continental, Denso, Apple, Samsung, and Sony.

The production capacity of Co-Fired Piezo Actuators varies greatly due to factors such as the stability of the piezoelectric ceramic formulation, the yield of multilayer co-firing, the polarization process, microcrack control, packaging preloading, aging testing, and closed-loop calibration cycle. The industry's gross profit margin is typically between 30% and 40%.

This report studies the global Co-Fired Piezo Actuators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Co-Fired Piezo Actuators and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Co-Fired Piezo Actuators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Co-Fired Piezo Actuators total production and demand, 2021-2032, (K Units)
Global Co-Fired Piezo Actuators total production value, 2021-2032, (USD Million)
Global Co-Fired Piezo Actuators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Co-Fired Piezo Actuators consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Co-Fired Piezo Actuators domestic production, consumption, key domestic manufacturers and share
Global Co-Fired Piezo Actuators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Co-Fired Piezo Actuators production by Stroke, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Co-Fired Piezo Actuators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Co-Fired Piezo Actuators market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Physik Instrumente (PI) Group, TDK, KEMET (TOKIN Corporation), CTS (Noliac), TAIYO YUDEN, Piezosystem Jena, APC International, Ltd., Thorlabs, Inc., Piezomechanik, Piezomotor Uppsala (acuvi), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Co-Fired Piezo Actuators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Stroke, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Co-Fired Piezo Actuators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Co-Fired Piezo Actuators Market, Segmentation by Stroke:

10?m Below

10-20?m

20?m Above

Global Co-Fired Piezo Actuators Market, Segmentation by Displacement Output:

Direct Stroke Stack Actuator

Amplified Stack Actuator

Global Co-Fired Piezo Actuators Market, Segmentation by Control Method:

Open-loop Type

Closed-loop Type

Global Co-Fired Piezo Actuators Market, Segmentation by Application:

Industrial & Manufacturing

Automotive

Consumer Electronics

Optical Instrument

Medical

Military

Others

Companies Profiled:

Physik Instrumente (PI) Group

TDK

KEMET (TOKIN Corporation)

CTS (Noliac)

TAIYO YUDEN

Piezosystem Jena

APC International, Ltd.

Thorlabs, Inc.

Piezomechanik

Piezomotor Uppsala (acuvi)

NGK Corporation

KYOCERA Corporation

Unictron Technologies

Suzhou Pant Piezoelectric

Harbin Core Tomorrow

Shanghai Yinguan Semiconductor

Guangdong Deci Technology

Key Questions Answered:

1. How big is the global Co-Fired Piezo Actuators market?
2. What is the demand of the global Co-Fired Piezo Actuators market?
3. What is the year over year growth of the global Co-Fired Piezo Actuators market?
4. What is the production and production value of the global Co-Fired Piezo Actuators market?
5. Who are the key producers in the global Co-Fired Piezo Actuators market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Co-Fired Piezo Actuators Introduction
- 1.2 World Co-Fired Piezo Actuators Supply & Forecast
 - 1.2.1 World Co-Fired Piezo Actuators Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Co-Fired Piezo Actuators Production (2021-2032)
 - 1.2.3 World Co-Fired Piezo Actuators Pricing Trends (2021-2032)
- 1.3 World Co-Fired Piezo Actuators Production by Region (Based on Production Site)
 - 1.3.1 World Co-Fired Piezo Actuators Production Value by Region (2021-2032)
 - 1.3.2 World Co-Fired Piezo Actuators Production by Region (2021-2032)
 - 1.3.3 World Co-Fired Piezo Actuators Average Price by Region (2021-2032)
 - 1.3.4 North America Co-Fired Piezo Actuators Production (2021-2032)
 - 1.3.5 Europe Co-Fired Piezo Actuators Production (2021-2032)
 - 1.3.6 China Co-Fired Piezo Actuators Production (2021-2032)
 - 1.3.7 Japan Co-Fired Piezo Actuators Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Co-Fired Piezo Actuators Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Co-Fired Piezo Actuators Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Co-Fired Piezo Actuators Demand (2021-2032)
- 2.2 World Co-Fired Piezo Actuators Consumption by Region
 - 2.2.1 World Co-Fired Piezo Actuators Consumption by Region (2021-2026)
 - 2.2.2 World Co-Fired Piezo Actuators Consumption Forecast by Region (2027-2032)
- 2.3 United States Co-Fired Piezo Actuators Consumption (2021-2032)
- 2.4 China Co-Fired Piezo Actuators Consumption (2021-2032)
- 2.5 Europe Co-Fired Piezo Actuators Consumption (2021-2032)
- 2.6 Japan Co-Fired Piezo Actuators Consumption (2021-2032)
- 2.7 South Korea Co-Fired Piezo Actuators Consumption (2021-2032)
- 2.8 ASEAN Co-Fired Piezo Actuators Consumption (2021-2032)
- 2.9 India Co-Fired Piezo Actuators Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Co-Fired Piezo Actuators Production Value by Manufacturer (2021-2026)

- 3.2 World Co-Fired Piezo Actuators Production by Manufacturer (2021-2026)
- 3.3 World Co-Fired Piezo Actuators Average Price by Manufacturer (2021-2026)
- 3.4 Co-Fired Piezo Actuators Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Co-Fired Piezo Actuators Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Co-Fired Piezo Actuators in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Co-Fired Piezo Actuators in 2025
- 3.6 Co-Fired Piezo Actuators Market: Overall Company Footprint Analysis
 - 3.6.1 Co-Fired Piezo Actuators Market: Region Footprint
 - 3.6.2 Co-Fired Piezo Actuators Market: Company Product Type Footprint
 - 3.6.3 Co-Fired Piezo Actuators Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Co-Fired Piezo Actuators Production Value Comparison
 - 4.1.1 United States VS China: Co-Fired Piezo Actuators Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Co-Fired Piezo Actuators Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Co-Fired Piezo Actuators Production Comparison
 - 4.2.1 United States VS China: Co-Fired Piezo Actuators Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Co-Fired Piezo Actuators Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Co-Fired Piezo Actuators Consumption Comparison
 - 4.3.1 United States VS China: Co-Fired Piezo Actuators Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Co-Fired Piezo Actuators Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Co-Fired Piezo Actuators Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Co-Fired Piezo Actuators Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Co-Fired Piezo Actuators Production Value (2021-2026)

4.4.3 United States Based Manufacturers Co-Fired Piezo Actuators Production (2021-2026)

4.5 China Based Co-Fired Piezo Actuators Manufacturers and Market Share

4.5.1 China Based Co-Fired Piezo Actuators Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Co-Fired Piezo Actuators Production Value (2021-2026)

4.5.3 China Based Manufacturers Co-Fired Piezo Actuators Production (2021-2026)

4.6 Rest of World Based Co-Fired Piezo Actuators Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Co-Fired Piezo Actuators Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Co-Fired Piezo Actuators Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Co-Fired Piezo Actuators Production (2021-2026)

5 MARKET ANALYSIS BY STROKE

5.1 World Co-Fired Piezo Actuators Market Size Overview by Stroke: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Stroke

5.2.1 10?m Below

5.2.2 10-20?m

5.2.3 20?m Above

5.3 Market Segment by Stroke

5.3.1 World Co-Fired Piezo Actuators Production by Stroke (2021-2032)

5.3.2 World Co-Fired Piezo Actuators Production Value by Stroke (2021-2032)

5.3.3 World Co-Fired Piezo Actuators Average Price by Stroke (2021-2032)

6 MARKET ANALYSIS BY DISPLACEMENT OUTPUT

6.1 World Co-Fired Piezo Actuators Market Size Overview by Displacement Output: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Displacement Output

6.2.1 Direct Stroke Stack Actuator

6.2.2 Amplified Stack Actuator

6.3 Market Segment by Displacement Output

6.3.1 World Co-Fired Piezo Actuators Production by Displacement Output (2021-2032)

6.3.2 World Co-Fired Piezo Actuators Production Value by Displacement Output (2021-2032)

6.3.3 World Co-Fired Piezo Actuators Average Price by Displacement Output (2021-2032)

7 MARKET ANALYSIS BY CONTROL METHOD

7.1 World Co-Fired Piezo Actuators Market Size Overview by Control Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Control Method

7.2.1 Open-loop Type

7.2.2 Closed-loop Type

7.3 Market Segment by Control Method

7.3.1 World Co-Fired Piezo Actuators Production by Control Method (2021-2032)

7.3.2 World Co-Fired Piezo Actuators Production Value by Control Method (2021-2032)

7.3.3 World Co-Fired Piezo Actuators Average Price by Control Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Co-Fired Piezo Actuators Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial & Manufacturing

8.2.2 Automotive

8.2.3 Consumer Electronics

8.2.4 Optical Instrument

8.2.5 Medical

8.2.6 Military

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World Co-Fired Piezo Actuators Production by Application (2021-2032)

8.3.2 World Co-Fired Piezo Actuators Production Value by Application (2021-2032)

8.3.3 World Co-Fired Piezo Actuators Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Physik Instrumente (PI) Group

9.1.1 Physik Instrumente (PI) Group Details

9.1.2 Physik Instrumente (PI) Group Major Business

9.1.3 Physik Instrumente (PI) Group Co-Fired Piezo Actuators Product and Services

9.1.4 Physik Instrumente (PI) Group Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Physik Instrumente (PI) Group Recent Developments/Updates

9.1.6 Physik Instrumente (PI) Group Competitive Strengths & Weaknesses

9.2 TDK

9.2.1 TDK Details

9.2.2 TDK Major Business

9.2.3 TDK Co-Fired Piezo Actuators Product and Services

9.2.4 TDK Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 TDK Recent Developments/Updates

9.2.6 TDK Competitive Strengths & Weaknesses

9.3 KEMET (TOKIN Corporation)

9.3.1 KEMET (TOKIN Corporation) Details

9.3.2 KEMET (TOKIN Corporation) Major Business

9.3.3 KEMET (TOKIN Corporation) Co-Fired Piezo Actuators Product and Services

9.3.4 KEMET (TOKIN Corporation) Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 KEMET (TOKIN Corporation) Recent Developments/Updates

9.3.6 KEMET (TOKIN Corporation) Competitive Strengths & Weaknesses

9.4 CTS (Noliac)

9.4.1 CTS (Noliac) Details

9.4.2 CTS (Noliac) Major Business

9.4.3 CTS (Noliac) Co-Fired Piezo Actuators Product and Services

9.4.4 CTS (Noliac) Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 CTS (Noliac) Recent Developments/Updates

9.4.6 CTS (Noliac) Competitive Strengths & Weaknesses

9.5 TAIYO YUDEN

9.5.1 TAIYO YUDEN Details

9.5.2 TAIYO YUDEN Major Business

9.5.3 TAIYO YUDEN Co-Fired Piezo Actuators Product and Services

9.5.4 TAIYO YUDEN Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 TAIYO YUDEN Recent Developments/Updates

9.5.6 TAIYO YUDEN Competitive Strengths & Weaknesses

9.6 Piezosystem Jena

9.6.1 Piezosystem Jena Details

9.6.2 Piezosystem Jena Major Business

9.6.3 Piezosystem Jena Co-Fired Piezo Actuators Product and Services

9.6.4 Piezosystem Jena Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Piezosystem Jena Recent Developments/Updates

9.6.6 Piezosystem Jena Competitive Strengths & Weaknesses

9.7 APC International, Ltd.

9.7.1 APC International, Ltd. Details

9.7.2 APC International, Ltd. Major Business

9.7.3 APC International, Ltd. Co-Fired Piezo Actuators Product and Services

9.7.4 APC International, Ltd. Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 APC International, Ltd. Recent Developments/Updates

9.7.6 APC International, Ltd. Competitive Strengths & Weaknesses

9.8 Thorlabs, Inc.

9.8.1 Thorlabs, Inc. Details

9.8.2 Thorlabs, Inc. Major Business

9.8.3 Thorlabs, Inc. Co-Fired Piezo Actuators Product and Services

9.8.4 Thorlabs, Inc. Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Thorlabs, Inc. Recent Developments/Updates

9.8.6 Thorlabs, Inc. Competitive Strengths & Weaknesses

9.9 Piezomechanik

9.9.1 Piezomechanik Details

9.9.2 Piezomechanik Major Business

9.9.3 Piezomechanik Co-Fired Piezo Actuators Product and Services

9.9.4 Piezomechanik Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Piezomechanik Recent Developments/Updates

9.9.6 Piezomechanik Competitive Strengths & Weaknesses

9.10 Piezomotor Uppsala (acuvi)

9.10.1 Piezomotor Uppsala (acuvi) Details

9.10.2 Piezomotor Uppsala (acuvi) Major Business

9.10.3 Piezomotor Uppsala (acuvi) Co-Fired Piezo Actuators Product and Services

9.10.4 Piezomotor Uppsala (acuvi) Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 Piezomotor Uppsala (acuvi) Recent Developments/Updates
- 9.10.6 Piezomotor Uppsala (acuvi) Competitive Strengths & Weaknesses
- 9.11 NGK Corporation
 - 9.11.1 NGK Corporation Details
 - 9.11.2 NGK Corporation Major Business
 - 9.11.3 NGK Corporation Co-Fired Piezo Actuators Product and Services
 - 9.11.4 NGK Corporation Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 NGK Corporation Recent Developments/Updates
 - 9.11.6 NGK Corporation Competitive Strengths & Weaknesses
- 9.12 KYOCERA Corporation
 - 9.12.1 KYOCERA Corporation Details
 - 9.12.2 KYOCERA Corporation Major Business
 - 9.12.3 KYOCERA Corporation Co-Fired Piezo Actuators Product and Services
 - 9.12.4 KYOCERA Corporation Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 KYOCERA Corporation Recent Developments/Updates
 - 9.12.6 KYOCERA Corporation Competitive Strengths & Weaknesses
- 9.13 Unictron Technologies
 - 9.13.1 Unictron Technologies Details
 - 9.13.2 Unictron Technologies Major Business
 - 9.13.3 Unictron Technologies Co-Fired Piezo Actuators Product and Services
 - 9.13.4 Unictron Technologies Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Unictron Technologies Recent Developments/Updates
 - 9.13.6 Unictron Technologies Competitive Strengths & Weaknesses
- 9.14 Suzhou Pant Piezoelectric
 - 9.14.1 Suzhou Pant Piezoelectric Details
 - 9.14.2 Suzhou Pant Piezoelectric Major Business
 - 9.14.3 Suzhou Pant Piezoelectric Co-Fired Piezo Actuators Product and Services
 - 9.14.4 Suzhou Pant Piezoelectric Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Suzhou Pant Piezoelectric Recent Developments/Updates
 - 9.14.6 Suzhou Pant Piezoelectric Competitive Strengths & Weaknesses
- 9.15 Harbin Core Tomorrow
 - 9.15.1 Harbin Core Tomorrow Details
 - 9.15.2 Harbin Core Tomorrow Major Business
 - 9.15.3 Harbin Core Tomorrow Co-Fired Piezo Actuators Product and Services
 - 9.15.4 Harbin Core Tomorrow Co-Fired Piezo Actuators Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.15.5 Harbin Core Tomorrow Recent Developments/Updates

9.15.6 Harbin Core Tomorrow Competitive Strengths & Weaknesses

9.16 Shanghai Yinguan Semiconductor

9.16.1 Shanghai Yinguan Semiconductor Details

9.16.2 Shanghai Yinguan Semiconductor Major Business

9.16.3 Shanghai Yinguan Semiconductor Co-Fired Piezo Actuators Product and Services

9.16.4 Shanghai Yinguan Semiconductor Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Shanghai Yinguan Semiconductor Recent Developments/Updates

9.16.6 Shanghai Yinguan Semiconductor Competitive Strengths & Weaknesses

9.17 Guangdong Deci Technology

9.17.1 Guangdong Deci Technology Details

9.17.2 Guangdong Deci Technology Major Business

9.17.3 Guangdong Deci Technology Co-Fired Piezo Actuators Product and Services

9.17.4 Guangdong Deci Technology Co-Fired Piezo Actuators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Guangdong Deci Technology Recent Developments/Updates

9.17.6 Guangdong Deci Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Co-Fired Piezo Actuators Industry Chain

10.2 Co-Fired Piezo Actuators Upstream Analysis

10.2.1 Co-Fired Piezo Actuators Core Raw Materials

10.2.2 Main Manufacturers of Co-Fired Piezo Actuators Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Co-Fired Piezo Actuators Production Mode

10.6 Co-Fired Piezo Actuators Procurement Model

10.7 Co-Fired Piezo Actuators Industry Sales Model and Sales Channels

10.7.1 Co-Fired Piezo Actuators Sales Model

10.7.2 Co-Fired Piezo Actuators Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Co-Fired Piezo Actuators Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Co-Fired Piezo Actuators Production Value by Region (2021-2026) & (USD Million)

Table 3. World Co-Fired Piezo Actuators Production Value by Region (2027-2032) & (USD Million)

Table 4. World Co-Fired Piezo Actuators Production Value Market Share by Region (2021-2026)

Table 5. World Co-Fired Piezo Actuators Production Value Market Share by Region (2027-2032)

Table 6. World Co-Fired Piezo Actuators Production by Region (2021-2026) & (K Units)

Table 7. World Co-Fired Piezo Actuators Production by Region (2027-2032) & (K Units)

Table 8. World Co-Fired Piezo Actuators Production Market Share by Region (2021-2026)

Table 9. World Co-Fired Piezo Actuators Production Market Share by Region (2027-2032)

Table 10. World Co-Fired Piezo Actuators Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Co-Fired Piezo Actuators Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Co-Fired Piezo Actuators Major Market Trends

Table 13. World Co-Fired Piezo Actuators Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Co-Fired Piezo Actuators Consumption by Region (2021-2026) & (K Units)

Table 15. World Co-Fired Piezo Actuators Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Co-Fired Piezo Actuators Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Co-Fired Piezo Actuators Producers in 2025

Table 18. World Co-Fired Piezo Actuators Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Co-Fired Piezo Actuators Producers in 2025

Table 20. World Co-Fired Piezo Actuators Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Co-Fired Piezo Actuators Company Evaluation Quadrant

Table 22. World Co-Fired Piezo Actuators Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Co-Fired Piezo Actuators Production Site of Key Manufacturer

Table 24. Co-Fired Piezo Actuators Market: Company Product Type Footprint

Table 25. Co-Fired Piezo Actuators Market: Company Product Application Footprint

Table 26. Co-Fired Piezo Actuators Competitive Factors

Table 27. Co-Fired Piezo Actuators New Entrant and Capacity Expansion Plans

Table 28. Co-Fired Piezo Actuators Mergers & Acquisitions Activity

Table 29. United States VS China Co-Fired Piezo Actuators Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Co-Fired Piezo Actuators Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Co-Fired Piezo Actuators Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Co-Fired Piezo Actuators Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Co-Fired Piezo Actuators Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Co-Fired Piezo Actuators Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Co-Fired Piezo Actuators Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Co-Fired Piezo Actuators Production Market Share (2021-2026)

Table 37. China Based Co-Fired Piezo Actuators Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Co-Fired Piezo Actuators Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Co-Fired Piezo Actuators Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Co-Fired Piezo Actuators Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Co-Fired Piezo Actuators Production Market Share (2021-2026)

Table 42. Rest of World Based Co-Fired Piezo Actuators Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Co-Fired Piezo Actuators Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Co-Fired Piezo Actuators Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Co-Fired Piezo Actuators Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Co-Fired Piezo Actuators Production Market Share (2021-2026)

Table 47. World Co-Fired Piezo Actuators Production Value by Stroke, (USD Million), 2021 & 2025 & 2032

Table 48. World Co-Fired Piezo Actuators Production by Stroke (2021-2026) & (K Units)

Table 49. World Co-Fired Piezo Actuators Production by Stroke (2027-2032) & (K Units)

Table 50. World Co-Fired Piezo Actuators Production Value by Stroke (2021-2026) & (USD Million)

Table 51. World Co-Fired Piezo Actuators Production Value by Stroke (2027-2032) & (USD Million)

Table 52. World Co-Fired Piezo Actuators Average Price by Stroke (2021-2026) & (US\$/Unit)

Table 53. World Co-Fired Piezo Actuators Average Price by Stroke (2027-2032) & (US\$/Unit)

Table 54. World Co-Fired Piezo Actuators Production Value by Displacement Output, (USD Million), 2021 & 2025 & 2032

Table 55. World Co-Fired Piezo Actuators Production by Displacement Output (2021-2026) & (K Units)

Table 56. World Co-Fired Piezo Actuators Production by Displacement Output (2027-2032) & (K Units)

Table 57. World Co-Fired Piezo Actuators Production Value by Displacement Output (2021-2026) & (USD Million)

Table 58. World Co-Fired Piezo Actuators Production Value by Displacement Output (2027-2032) & (USD Million)

Table 59. World Co-Fired Piezo Actuators Average Price by Displacement Output (2021-2026) & (US\$/Unit)

Table 60. World Co-Fired Piezo Actuators Average Price by Displacement Output (2027-2032) & (US\$/Unit)

Table 61. World Co-Fired Piezo Actuators Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Co-Fired Piezo Actuators Production by Control Method (2021-2026) & (K Units)

Table 63. World Co-Fired Piezo Actuators Production by Control Method (2027-2032) &

(K Units)

Table 64. World Co-Fired Piezo Actuators Production Value by Control Method (2021-2026) & (USD Million)

Table 65. World Co-Fired Piezo Actuators Production Value by Control Method (2027-2032) & (USD Million)

Table 66. World Co-Fired Piezo Actuators Average Price by Control Method (2021-2026) & (US\$/Unit)

Table 67. World Co-Fired Piezo Actuators Average Price by Control Method (2027-2032) & (US\$/Unit)

Table 68. World Co-Fired Piezo Actuators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Co-Fired Piezo Actuators Production by Application (2021-2026) & (K Units)

Table 70. World Co-Fired Piezo Actuators Production by Application (2027-2032) & (K Units)

Table 71. World Co-Fired Piezo Actuators Production Value by Application (2021-2026) & (USD Million)

Table 72. World Co-Fired Piezo Actuators Production Value by Application (2027-2032) & (USD Million)

Table 73. World Co-Fired Piezo Actuators Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Co-Fired Piezo Actuators Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Physik Instrumente (PI) Group Basic Information, Manufacturing Base and Competitors

Table 76. Physik Instrumente (PI) Group Major Business

Table 77. Physik Instrumente (PI) Group Co-Fired Piezo Actuators Product and Services

Table 78. Physik Instrumente (PI) Group Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Physik Instrumente (PI) Group Recent Developments/Updates

Table 80. Physik Instrumente (PI) Group Competitive Strengths & Weaknesses

Table 81. TDK Basic Information, Manufacturing Base and Competitors

Table 82. TDK Major Business

Table 83. TDK Co-Fired Piezo Actuators Product and Services

Table 84. TDK Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. TDK Recent Developments/Updates

Table 86. TDK Competitive Strengths & Weaknesses

Table 87. KEMET (TOKIN Corporation) Basic Information, Manufacturing Base and Competitors

Table 88. KEMET (TOKIN Corporation) Major Business

Table 89. KEMET (TOKIN Corporation) Co-Fired Piezo Actuators Product and Services

Table 90. KEMET (TOKIN Corporation) Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. KEMET (TOKIN Corporation) Recent Developments/Updates

Table 92. KEMET (TOKIN Corporation) Competitive Strengths & Weaknesses

Table 93. CTS (Noliac) Basic Information, Manufacturing Base and Competitors

Table 94. CTS (Noliac) Major Business

Table 95. CTS (Noliac) Co-Fired Piezo Actuators Product and Services

Table 96. CTS (Noliac) Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. CTS (Noliac) Recent Developments/Updates

Table 98. CTS (Noliac) Competitive Strengths & Weaknesses

Table 99. TAIYO YUDEN Basic Information, Manufacturing Base and Competitors

Table 100. TAIYO YUDEN Major Business

Table 101. TAIYO YUDEN Co-Fired Piezo Actuators Product and Services

Table 102. TAIYO YUDEN Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. TAIYO YUDEN Recent Developments/Updates

Table 104. TAIYO YUDEN Competitive Strengths & Weaknesses

Table 105. Piezosystem Jena Basic Information, Manufacturing Base and Competitors

Table 106. Piezosystem Jena Major Business

Table 107. Piezosystem Jena Co-Fired Piezo Actuators Product and Services

Table 108. Piezosystem Jena Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Piezosystem Jena Recent Developments/Updates

Table 110. Piezosystem Jena Competitive Strengths & Weaknesses

Table 111. APC International, Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. APC International, Ltd. Major Business

Table 113. APC International, Ltd. Co-Fired Piezo Actuators Product and Services

Table 114. APC International, Ltd. Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 115. APC International, Ltd. Recent Developments/Updates

Table 116. APC International, Ltd. Competitive Strengths & Weaknesses

Table 117. Thorlabs, Inc. Basic Information, Manufacturing Base and Competitors

Table 118. Thorlabs, Inc. Major Business

Table 119. Thorlabs, Inc. Co-Fired Piezo Actuators Product and Services

Table 120. Thorlabs, Inc. Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Thorlabs, Inc. Recent Developments/Updates

Table 122. Thorlabs, Inc. Competitive Strengths & Weaknesses

Table 123. Piezomechanik Basic Information, Manufacturing Base and Competitors

Table 124. Piezomechanik Major Business

Table 125. Piezomechanik Co-Fired Piezo Actuators Product and Services

Table 126. Piezomechanik Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Piezomechanik Recent Developments/Updates

Table 128. Piezomechanik Competitive Strengths & Weaknesses

Table 129. Piezomotor Uppsala (acuvi) Basic Information, Manufacturing Base and Competitors

Table 130. Piezomotor Uppsala (acuvi) Major Business

Table 131. Piezomotor Uppsala (acuvi) Co-Fired Piezo Actuators Product and Services

Table 132. Piezomotor Uppsala (acuvi) Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Piezomotor Uppsala (acuvi) Recent Developments/Updates

Table 134. Piezomotor Uppsala (acuvi) Competitive Strengths & Weaknesses

Table 135. NGK Corporation Basic Information, Manufacturing Base and Competitors

Table 136. NGK Corporation Major Business

Table 137. NGK Corporation Co-Fired Piezo Actuators Product and Services

Table 138. NGK Corporation Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. NGK Corporation Recent Developments/Updates

Table 140. NGK Corporation Competitive Strengths & Weaknesses

Table 141. KYOCERA Corporation Basic Information, Manufacturing Base and Competitors

Table 142. KYOCERA Corporation Major Business

Table 143. KYOCERA Corporation Co-Fired Piezo Actuators Product and Services

Table 144. KYOCERA Corporation Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. KYOCERA Corporation Recent Developments/Updates

Table 146. KYOCERA Corporation Competitive Strengths & Weaknesses

Table 147. Unictron Technologies Basic Information, Manufacturing Base and Competitors

Table 148. Unictron Technologies Major Business

Table 149. Unictron Technologies Co-Fired Piezo Actuators Product and Services

Table 150. Unictron Technologies Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Unictron Technologies Recent Developments/Updates

Table 152. Unictron Technologies Competitive Strengths & Weaknesses

Table 153. Suzhou Pant Piezoelectric Basic Information, Manufacturing Base and Competitors

Table 154. Suzhou Pant Piezoelectric Major Business

Table 155. Suzhou Pant Piezoelectric Co-Fired Piezo Actuators Product and Services

Table 156. Suzhou Pant Piezoelectric Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Suzhou Pant Piezoelectric Recent Developments/Updates

Table 158. Suzhou Pant Piezoelectric Competitive Strengths & Weaknesses

Table 159. Harbin Core Tomorrow Basic Information, Manufacturing Base and Competitors

Table 160. Harbin Core Tomorrow Major Business

Table 161. Harbin Core Tomorrow Co-Fired Piezo Actuators Product and Services

Table 162. Harbin Core Tomorrow Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Harbin Core Tomorrow Recent Developments/Updates

Table 164. Harbin Core Tomorrow Competitive Strengths & Weaknesses

Table 165. Shanghai Yinguan Semiconductor Basic Information, Manufacturing Base and Competitors

Table 166. Shanghai Yinguan Semiconductor Major Business

Table 167. Shanghai Yinguan Semiconductor Co-Fired Piezo Actuators Product and Services

Table 168. Shanghai Yinguan Semiconductor Co-Fired Piezo Actuators Production (K

Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Shanghai Yinguang Semiconductor Recent Developments/Updates

Table 170. Shanghai Yinguang Semiconductor Competitive Strengths & Weaknesses

Table 171. Guangdong Deci Technology Basic Information, Manufacturing Base and Competitors

Table 172. Guangdong Deci Technology Major Business

Table 173. Guangdong Deci Technology Co-Fired Piezo Actuators Product and Services

Table 174. Guangdong Deci Technology Co-Fired Piezo Actuators Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Guangdong Deci Technology Recent Developments/Updates

Table 176. Guangdong Deci Technology Competitive Strengths & Weaknesses

Table 177. Global Key Players of Co-Fired Piezo Actuators Upstream (Raw Materials)

Table 178. Global Co-Fired Piezo Actuators Typical Customers

Table 179. Co-Fired Piezo Actuators Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Co-Fired Piezo Actuators Picture
- Figure 2. World Co-Fired Piezo Actuators Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Co-Fired Piezo Actuators Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Co-Fired Piezo Actuators Production (2021-2032) & (K Units)
- Figure 5. World Co-Fired Piezo Actuators Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Co-Fired Piezo Actuators Production Value Market Share by Region (2021-2032)
- Figure 7. World Co-Fired Piezo Actuators Production Market Share by Region (2021-2032)
- Figure 8. North America Co-Fired Piezo Actuators Production (2021-2032) & (K Units)
- Figure 9. Europe Co-Fired Piezo Actuators Production (2021-2032) & (K Units)
- Figure 10. China Co-Fired Piezo Actuators Production (2021-2032) & (K Units)
- Figure 11. Japan Co-Fired Piezo Actuators Production (2021-2032) & (K Units)
- Figure 12. Co-Fired Piezo Actuators Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Co-Fired Piezo Actuators Consumption (2021-2032) & (K Units)
- Figure 15. World Co-Fired Piezo Actuators Consumption Market Share by Region (2021-2032)
- Figure 16. United States Co-Fired Piezo Actuators Consumption (2021-2032) & (K Units)
- Figure 17. China Co-Fired Piezo Actuators Consumption (2021-2032) & (K Units)
- Figure 18. Europe Co-Fired Piezo Actuators Consumption (2021-2032) & (K Units)
- Figure 19. Japan Co-Fired Piezo Actuators Consumption (2021-2032) & (K Units)
- Figure 20. South Korea Co-Fired Piezo Actuators Consumption (2021-2032) & (K Units)
- Figure 21. ASEAN Co-Fired Piezo Actuators Consumption (2021-2032) & (K Units)
- Figure 22. India Co-Fired Piezo Actuators Consumption (2021-2032) & (K Units)
- Figure 23. Producer Shipments of Co-Fired Piezo Actuators by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Co-Fired Piezo Actuators Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Co-Fired Piezo Actuators Markets in 2025
- Figure 26. United States VS China: Co-Fired Piezo Actuators Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Co-Fired Piezo Actuators Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Co-Fired Piezo Actuators Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Co-Fired Piezo Actuators Production Market Share 2025

Figure 30. China Based Manufacturers Co-Fired Piezo Actuators Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Co-Fired Piezo Actuators Production Market Share 2025

Figure 32. World Co-Fired Piezo Actuators Production Value by Stroke, (USD Million), 2021 & 2025 & 2032

Figure 33. World Co-Fired Piezo Actuators Production Value Market Share by Stroke in 2025

Figure 34. 10?m Below

Figure 35. 10-20?m

Figure 36. 20?m Above

Figure 37. World Co-Fired Piezo Actuators Production Market Share by Stroke (2021-2032)

Figure 38. World Co-Fired Piezo Actuators Production Value Market Share by Stroke (2021-2032)

Figure 39. World Co-Fired Piezo Actuators Average Price by Stroke (2021-2032) & (US\$/Unit)

Figure 40. World Co-Fired Piezo Actuators Production Value by Displacement Output, (USD Million), 2021 & 2025 & 2032

Figure 41. World Co-Fired Piezo Actuators Production Value Market Share by Displacement Output in 2025

Figure 42. Direct Stroke Stack Actuator

Figure 43. Amplified Stack Actuator

Figure 44. World Co-Fired Piezo Actuators Production Market Share by Displacement Output (2021-2032)

Figure 45. World Co-Fired Piezo Actuators Production Value Market Share by Displacement Output (2021-2032)

Figure 46. World Co-Fired Piezo Actuators Average Price by Displacement Output (2021-2032) & (US\$/Unit)

Figure 47. World Co-Fired Piezo Actuators Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Figure 48. World Co-Fired Piezo Actuators Production Value Market Share by Control

Method in 2025

Figure 49. Open-loop Type

Figure 50. Closed-loop Type

Figure 51. World Co-Fired Piezo Actuators Production Market Share by Control Method (2021-2032)

Figure 52. World Co-Fired Piezo Actuators Production Value Market Share by Control Method (2021-2032)

Figure 53. World Co-Fired Piezo Actuators Average Price by Control Method (2021-2032) & (US\$/Unit)

Figure 54. World Co-Fired Piezo Actuators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Co-Fired Piezo Actuators Production Value Market Share by Application in 2025

Figure 56. Industrial & Manufacturing

Figure 57. Automotive

Figure 58. Consumer Electronics

Figure 59. Optical Instrument

Figure 60. Medical

Figure 61. Military

Figure 62. Others

Figure 63. World Co-Fired Piezo Actuators Production Market Share by Application (2021-2032)

Figure 64. World Co-Fired Piezo Actuators Production Value Market Share by Application (2021-2032)

Figure 65. World Co-Fired Piezo Actuators Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Co-Fired Piezo Actuators Industry Chain

Figure 67. Co-Fired Piezo Actuators Procurement Model

Figure 68. Co-Fired Piezo Actuators Sales Model

Figure 69. Co-Fired Piezo Actuators Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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