

# Distillers Corn Oil Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Distillation Type (Dry-Milling Distillery, Wet-Mill Distillery, Others), By End User (Biodiesel Manufacturing, Livestock Feed, Others), By Region and Competition

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# **Abstracts**

Global Grains Silo & Storage Systems Market has valued at USD 1.72 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 3.30% through 2028. Global Grains Silo & Storage Systems Market stands at the intersection of innovation, challenges, and opportunities. Addressing climate variability, navigating regulatory landscapes, and implementing effective pest management are crucial for the industry's sustained growth. Simultaneously, the market thrives on the increasing demand for grains, the modernization of agriculture, and global initiatives promoting food security. As technology continues to advance, the grains storage sector must remain agile and proactive, contributing to a world where the bounty of the harvest is efficiently stored, safeguarded, and accessible to meet the needs of a growing population.

**Key Market Drivers** 

**Population Growth** 

The burgeoning population translates to heightened demand for staple grains like wheat, rice, and corn, prompting agricultural sectors to boost production to meet consumption requirements. This surge in grain production, however, necessitates robust storage infrastructure to ensure the preservation of harvests and prevent post-



#### harvest losses.

Grains silo and storage systems emerge as the linchpin in addressing this challenge, offering a controlled and secure environment for storing vast quantities of grains. These systems not only act as a buffer against supply chain disruptions but also enable farmers and agribusinesses to strategically manage their produce to meet the escalating global demand.

Furthermore, the globalization of food supply chains amplifies the importance of efficient storage solutions. Grains silo systems play a pivotal role in facilitating the seamless movement of grains across borders, ensuring a stable and resilient supply chain in the face of varying climatic conditions and geopolitical challenges.

#### Increased Food Demand

The crux of the matter lies in the imperative to store surplus harvests effectively. Grains, being the cornerstone of our sustenance, require meticulous storage solutions to prevent spoilage, maintain quality, and meet the ever-growing demand. Increased food demand, driven by population growth, directly translates into a heightened need for expanded grain storage capacities.

Grains silos and storage systems emerge as the backbone of this demand-driven ecosystem, offering secure and controlled environments for stockpiling vast quantities of essential crops. As the world races to produce more to feed its inhabitants, the storage industry responds by innovating and expanding its capacities. Advanced technologies, such as automated silos and smart storage systems, become integral in managing the escalating quantities of grains.

In essence, the heightened demand for food acts as the catalyst for the continuous evolution and expansion of the Grains Silo & Storage Systems Market. It prompts investments, encourages technological advancements, and underscores the critical role that efficient storage infrastructure plays in meeting the global appetite for sustenance. As long as the demand for food continues its upward trajectory, the grains storage industry remains an indispensable player in the journey towards ensuring food security on a global scale.

# Modernization of Agriculture Practices

In the dynamic landscape of agriculture, the modernization of farming practices



emerges as a key driver propelling the Grains Silo & Storage Systems Market to new heights. As agricultural methods evolve, embracing cutting-edge technologies and practices, the demand for advanced storage solutions becomes increasingly pronounced.

The adoption of precision agriculture, IoT-enabled monitoring systems, and automated machinery has revolutionized the way crops are cultivated and harvested. This surge in efficiency and productivity leads to higher yields, subsequently driving the need for sophisticated grain storage infrastructure. Modern farming practices generate larger quantities of grains, necessitating storage solutions that not only accommodate the surplus but also ensure the preservation of quality and safety.

Automated silos equipped with state-of-the-art monitoring and control systems have become instrumental in aligning storage capabilities with the demands of modern agriculture. Real-time data analytics and remote sensing technologies enable farmers to optimize storage conditions, preventing post-harvest losses and ensuring a seamless transition from farm to storage.

Moreover, as sustainability takes center stage in global agriculture, the modernization of practices extends to environmentally friendly storage solutions. Eco-conscious farmers seek storage systems that not only enhance efficiency but also minimize environmental impact.

In conclusion, the modernization of agriculture practices serves as a powerful catalyst, propelling the Grains Silo & Storage Systems Market forward. As technology continues to redefine the agricultural landscape, the demand for innovative storage solutions remains robust, positioning the industry for sustained growth and resilience in the face of evolving agricultural practices.

Key Market Challenges

Climate Variability

The Global Grains Silo & Storage Systems Market faces a formidable adversary in the form of climate variability, a challenge that reverberates throughout the entire supply chain. As the climate becomes increasingly unpredictable, the storage of grains encounters hurdles that demand innovative solutions.

Extreme temperatures, fluctuating humidity levels, and unpredictable weather patterns



pose a direct threat to the quality and safety of stored grains. Traditional storage systems designed for stable climates are now grappling with the need to adapt to these dynamic conditions. The heightened risk of spoilage, mold, and infestations necessitates a paradigm shift in storage practices.

Furthermore, the frequency and intensity of extreme weather events, such as storms and floods, expose grains stored in silos to potential damage. Reinforcing storage infrastructure to withstand these environmental challenges becomes imperative, adding a layer of complexity to the industry.

Addressing climate variability requires the integration of advanced technologies into grain storage systems. Climate-controlled silos, real-time monitoring systems, and precision agriculture techniques offer promising avenues for mitigating the impact of climate change on stored grains. However, the implementation of such solutions comes with its own set of challenges, including high upfront costs and the need for continuous adaptation to evolving climate patterns.

# Regulatory Compliance

In the complex realm of the Grains Silo & Storage Systems Market, regulatory compliance emerges as a formidable challenge, shaping the industry's landscape and influencing strategic decisions. Stringent food safety standards and evolving regulations present a multifaceted obstacle that demands unwavering attention from industry players.

Ensuring compliance with a myriad of regulations, both at national and international levels, adds layers of complexity to the design, construction, and operation of grain storage facilities. Meeting these standards requires substantial investments in technology, infrastructure, and personnel training to guarantee the highest level of safety and quality control.

Constantly evolving regulations, often driven by changing consumer expectations and global health concerns, pose a continuous challenge for market participants. The need to stay abreast of these changes and adapt storage systems accordingly demands agility and proactive engagement.

Moreover, the diversity of regulations across regions adds an extra layer of intricacy. Navigating this complex regulatory landscape becomes crucial for companies operating on a global scale, requiring a comprehensive understanding of varying compliance



requirements in different markets.

The financial burden associated with compliance, including certification processes, audits, and ongoing monitoring, adds to the operational costs for businesses in the grains storage sector. Despite these challenges, industry players are compelled to embrace compliance as a non-negotiable aspect of their operations, recognizing that it not only ensures legal adherence but also fosters consumer trust and confidence in the safety and quality of stored grains. As the regulatory environment continues to evolve, companies that proactively address compliance challenges will stand resilient in an industry that demands uncompromising standards.

Key Market Trends

Adoption of IoT and Automation

In a paradigm shift for the Grains Silo & Storage Systems Market, the adoption of Internet of Things (IoT) and automation emerges as a transformative force, reshaping the industry's landscape and enhancing operational efficiency. These advanced technologies bring a wave of innovation, providing real-time insights and control over grain storage facilities.

IoT technologies enable the integration of smart sensors within storage systems, facilitating continuous monitoring of environmental conditions such as temperature, humidity, and pest activity. This real-time data is then leveraged to optimize storage conditions, ensuring grains are preserved at their highest quality. Automated systems take this a step further, allowing for precision control and immediate responses to fluctuations, reducing the risk of post-harvest losses.

The seamless connectivity afforded by IoT empowers stakeholders to remotely monitor and manage storage facilities, providing unparalleled flexibility and efficiency. With automated alerts and predictive maintenance capabilities, potential issues can be identified and addressed proactively, minimizing downtime and maximizing operational continuity.

Furthermore, the adoption of IoT and automation aligns with broader industry trends toward sustainability. By optimizing resource usage and reducing waste, these technologies contribute to a more environmentally conscious approach to grain storage.

Focus on Sustainability



As global awareness of environmental challenges grows, stakeholders in the grains storage sector are increasingly embracing eco-friendly practices. Sustainable storage solutions are gaining traction, driven by the imperative to reduce the environmental impact of agricultural operations. These solutions prioritize energy efficiency, utilize renewable resources, and employ innovative technologies to minimize the carbon footprint of grain storage facilities.

The implementation of sustainable practices extends beyond the operational aspects, influencing the entire supply chain. From the construction of storage facilities using recycled materials to the integration of smart technologies that optimize energy consumption, the industry is witnessing a paradigm shift towards greener and more environmentally responsible solutions.

Furthermore, consumers and regulatory bodies are placing a premium on sustainability, prompting businesses to align their strategies with the values of eco-conscious stakeholders. Companies investing in sustainable grain storage not only contribute to environmental conservation but also enhance their brand reputation and appeal to a market increasingly inclined towards socially responsible practices.

#### Integration of Data Analytics

In the fast-paced world of agriculture, the integration of data analytics has emerged as a transformative force, propelling the Grains Silo & Storage Systems Market into a new era of efficiency and precision. This technological evolution is revolutionizing the way grain storage is managed, offering unprecedented insights and optimization opportunities for industry players.

Data analytics plays a pivotal role in optimizing storage conditions by providing real-time monitoring of crucial variables such as temperature, humidity, and grain quality. This not only minimizes post-harvest losses but also ensures that grains are stored in conditions that preserve their nutritional value and market quality.

The predictive capabilities of data analytics enable storage facility managers to anticipate and address potential issues before they escalate. From identifying potential pest infestations to predicting equipment maintenance needs, data-driven insights empower proactive decision-making, ultimately enhancing the overall reliability and performance of grain storage systems.



Furthermore, the integration of data analytics fosters a data-driven approach to inventory management. Accurate and real-time information about grain stocks allows for precise tracking, minimizing the risk of overstocking or shortages. This, in turn, optimizes the supply chain, reducing operational costs and ensuring a seamless transition from farm to storage to market.

As the Grains Silo & Storage Systems Market continues to embrace data analytics, the industry is poised for a future where precision and efficiency define the storage of this vital agricultural commodity. The transformative power of data analytics not only addresses current challenges but also positions the market for sustained growth and resilience in the face of evolving agricultural landscapes.

Segmental Insights

Silo Type Insights

Recognized for their versatility, flat bottom silos are ideal for storing a wide range of grains. Their design allows for efficient extraction and utilization of stored grains. This type is particularly well-suited for large-scale storage facilities where maximizing capacity is a priority.

Hopper silos, with their tapered bottom design, facilitate the smooth flow of grains during unloading. This feature minimizes the risk of clogging and ensures efficient gravity-based discharge. Hopper silos are commonly used for storing free-flowing grains and play a vital role in preventing spoilage.

Grain bins, often used interchangeably with silos, are typically smaller and more portable. They are commonly employed on farms for short-term storage. Grain bins offer ease of access, making them suitable for frequent loading and unloading operations. Their modular design allows for flexibility in terms of placement and capacity.

The market also witnesses innovations in silo design, including multi-compartment silos for segregating different grain types and bag silos for temporary and flexible storage solutions. These variations cater to specific needs, providing solutions for diverse storage requirements.

Commodity Type Insights



Rice, a staple for nearly half of the world's population, demands precise storage conditions to maintain its delicate texture and nutritional value. Silo systems equipped with controlled humidity and temperature settings are crucial to prevent moisture-induced issues such as mold and insect infestations.

Maize, known for its versatility and widespread use, requires storage solutions that address its susceptibility to mold and mycotoxin contamination. Modern silo systems equipped with aeration and temperature control mechanisms are essential to preserve the quality of maize during storage.

As a major global grain staple, wheat demands storage systems that maintain optimal moisture levels and prevent the development of pests. Silos designed with a focus on aeration and effective pest management play a critical role in preserving the quality of stored wheat.

Soybeans, with their high protein content, necessitate storage solutions that protect against moisture and maintain a controlled environment. Silo systems with advanced ventilation and temperature control features are vital to prevent the development of mold and maintain the nutritional integrity of soybeans.

Sunflower, valued for its oil-rich seeds, requires storage solutions that prevent oil oxidation and maintain seed quality. Silos equipped with climate control features ensure that sunflower seeds are stored in conditions that preserve their oil content and overall market value.

# Regional Insights

Asia-Pacific emerges as a powerhouse in the global grains market, driven by a burgeoning population and increasing food demand. Countries like China and India, with their substantial agricultural sectors, are witnessing a surge in the need for efficient storage solutions. The adoption of modern farming practices, supported by government initiatives, is contributing to higher grain production, thus elevating the demand for advanced storage systems. Asia-Pacific's role as a key player in the global food supply chain amplifies the significance of robust and technologically advanced storage infrastructure to meet the challenges of a rapidly growing population.

In Europe, the Grains Silo & Storage Systems Market is influenced by a combination of factors, including the emphasis on sustainable agriculture and the stringent adherence to quality and safety standards. European nations prioritize eco-friendly storage



solutions and technologies that minimize environmental impact. As the region experiences shifts in climate patterns, there is a growing need for adaptive storage systems that can protect grains from the adverse effects of changing weather conditions. Moreover, government support for initiatives that reduce post-harvest losses and improve food security is driving investments in modern storage facilities across Europe.

North America, with its advanced agricultural practices and a focus on technological innovation, is a driving force behind the growth of the Grains Silo & Storage Systems Market. The United States and Canada, in particular, witness a constant evolution in storage technologies, with an increasing emphasis on automation, data analytics, and precision agriculture. The need for seamless integration within the global food supply chain further underscores the importance of efficient storage systems. Additionally, the region's commitment to sustainable agriculture and reducing environmental impact aligns with the development and adoption of eco-friendly storage solutions.

**Key Market Players** 

**AGCO Corporation** 

Silos Cordoba

Prado Silos

Bentall Rowlands Silo Storage Ltd

Sukup Manufacturing Company

**Brock Grains Systems** 

Hoffmann Inc

Sioux Steel Company

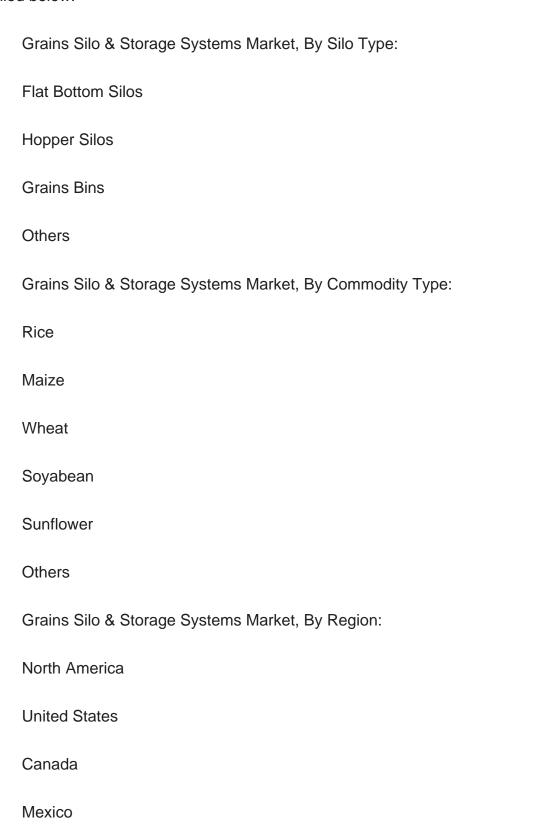
Prive SA

Behlen Manufacturing Company



# Report Scope:

In this report, the Global Grains Silo & Storage Systems Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:





Europe
France
United Kingdom
Italy
Germany
Spain
Asia-Pacific
China
India
Japan
Australia
South Korea
South America
Brazil
Argentina
Colombia
Middle East & Africa
South Africa
Saudi Arabia



UAE

# Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Grains Silo & Storage Systems Market.

Available Customizations:

Global Grains Silo & Storage Systems market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).



# **Contents**

#### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

#### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Applications
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

# 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

#### 4. IMPACT OF COVID-19 ON GLOBAL DISTILLERS CORN OIL MARKET

#### 5. GLOBAL DISTILLERS CORN OIL MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Distillation Type (Dry-Milling Distillery, Wet-Mill Distillery, Others)
  - 5.2.2. By End User (Biodiesel Manufacturing, Livestock Feed, Others)
  - 5.2.3. By Region



# 5.2.4. By Company (2022)

# 5.3. Market Map

#### 6. ASIA PACIFIC DISTILLERS CORN OIL MARKET OUTLOOK

6 1	1 N	Market	Size &	Forecast
<b>()</b> .		VICILINGE	OIZE U	1 (1) (5) (4)

- 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Distillation Type
  - 6.2.2. By End User
  - 6.2.3. By Country
- 6.3. Asia Pacific: Country Analysis
  - 6.3.1. China Distillers Corn Oil Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Distillation Type
      - 6.3.1.2.2. By End User
  - 6.3.2. India Distillers Corn Oil Market Outlook
  - 6.3.2.1. Market Size & Forecast
    - 6.3.2.1.1. By Value
  - 6.3.2.2. Market Share & Forecast
    - 6.3.2.2.1. By Distillation Type
    - 6.3.2.2.2. By End User
  - 6.3.3. Australia Distillers Corn Oil Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Distillation Type
    - 6.3.3.2.2. By End User
  - 6.3.4. Japan Distillers Corn Oil Market Outlook
    - 6.3.4.1. Market Size & Forecast
      - 6.3.4.1.1. By Value
    - 6.3.4.2. Market Share & Forecast
      - 6.3.4.2.1. By Distillation Type
      - 6.3.4.2.2. By End User
  - 6.3.5. South Korea Distillers Corn Oil Market Outlook
    - 6.3.5.1. Market Size & Forecast
      - 6.3.5.1.1. By Value



- 6.3.5.2. Market Share & Forecast
  - 6.3.5.2.1. By Distillation Type
  - 6.3.5.2.2. By End User

#### 7. EUROPE DISTILLERS CORN OIL MARKET OUTLOOK

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Distillation Type
  - 7.2.2. By End User
  - 7.2.3. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. France Distillers Corn Oil Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1 By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Distillation Type
      - 7.3.1.2.2. By End User
  - 7.3.2. Germany Distillers Corn Oil Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Distillation Type
    - 7.3.2.2.2. By End User
  - 7.3.3. Spain Distillers Corn Oil Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Distillation Type
    - 7.3.3.2.2. By End User
  - 7.3.4. Italy Distillers Corn Oil Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Distillation Type
      - 7.3.4.2.2. By End User
  - 7.3.5. United Kingdom Distillers Corn Oil Market Outlook
    - 7.3.5.1. Market Size & Forecast



7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Distillation Type

7.3.5.2.2. By End User

#### 8. NORTH AMERICA DISTILLERS CORN OIL MARKET OUTLOOK

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Distillation Type
  - 8.2.2. By End User
  - 8.2.3. By Country
- 8.3. North America: Country Analysis
  - 8.3.1. United States Distillers Corn Oil Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Distillation Type
      - 8.3.1.2.2. By End User
  - 8.3.2. Mexico Distillers Corn Oil Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Distillation Type
      - 8.3.2.2.2. By End User
  - 8.3.3. Canada Distillers Corn Oil Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Distillation Type
      - 8.3.3.2.2. By End User

#### 9. SOUTH AMERICA DISTILLERS CORN OIL MARKET OUTLOOK

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Distillation Type



- 9.2.2. By End User
- 9.2.3. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Distillers Corn Oil Market Outlook
    - 9.3.1.1. Market Size & Forecast
    - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Distillation Type
      - 9.3.1.2.2. By End User
  - 9.3.2. Argentina Distillers Corn Oil Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
    - 9.3.2.2.1. By Distillation Type
    - 9.3.2.2.2. By End User
  - 9.3.3. Colombia Distillers Corn Oil Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Distillation Type
      - 9.3.3.2.2. By End User

#### 10. MIDDLE EAST AND AFRICA DISTILLERS CORN OIL MARKET OUTLOOK

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Distillation Type
  - 10.2.2. By End User
  - 10.2.3. By Country
- 10.3. MEA: Country Analysis
  - 10.3.1. South Africa Distillers Corn Oil Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Distillation Type
      - 10.3.1.2.2. By End User
  - 10.3.2. Saudi Arabia Distillers Corn Oil Market Outlook
    - 10.3.2.1. Market Size & Forecast



10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Distillation Type

10.3.2.2.2. By End User

10.3.3. UAE Distillers Corn Oil Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Distillation Type

10.3.3.2.2. By End User

#### 11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

#### 12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Recent Developments
- 12.2. Product Launches
- 12.3. Mergers & Acquisitions

#### 13. GLOBAL DISTILLERS CORN OIL MARKET: SWOT ANALYSIS

#### 14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Product

# 15. PESTLE ANALYSIS

# 16. COMPETITIVE LANDSCAPE

#### 16.1. Archer-Daniels-Midland Co



- 16.1.1. Business Overview
- 16.1.2. Company Snapshot
- 16.1.3. Products & Services
- 16.1.4. Financials (As Reported)
- 16.1.5. Recent Developments
- 16.2. Green Plains Inc
- 16.3. Cardinal Ethanol LLC
- 16.4. Redfield Energy LLC
- 16.5. POET LLC
- 16.6. United Wisconsin Grain Producers LLC
- 16.7. Aemetis Inc
- 16.8. Ace Ethanol LLC
- 16.9. Patriot Renewable Fuels, LLC
- 16.10. RPMG Inc.

# 17. STRATEGIC RECOMMENDATIONS

#### 18. ABOUT US & DISCLAIMER



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