

Solvent Recovery and Recycling Market Forecasts to 2030 – Global Analysis By Solvent Type (Alcohols, Amides, Esters, Ketones, Aromatic solvents, Chlorinated solvents, Acetone, Butanol, Propanol, E-Caprolactam, Terephthalic Acid, and Other Solvent Types), Recovery Method, Technology, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Solvent Recovery and Recycling Market is accounted for \$1203.72 million in 2024 and is expected to reach \$1920.79 million by 2030 growing at a CAGR of 8.1% during the forecast period. Solvent recovery and recycling refers to the process of capturing and reusing solvents from industrial waste or spent solvents to minimize environmental impact and reduce operational costs. This process involves techniques such as distillation, filtration, and absorption to separate impurities from solvents, making them suitable for reuse in manufacturing or chemical processes. By recycling solvents, companies can comply with environmental regulations, reduce waste, conserve resources, and improve cost efficiency, while contributing to sustainability efforts in industrial operations.

According to the Worlds Paint and Coatings Industry Association (WPCIA), the global paint and coatings market achieved a valuation of USD 185.5 billion in 2023, marking a 3.2% increase from the prior year.

Market Dynamics:

Driver:

Rising environmental consciousness

Growing awareness of the environmental impact of solvent pollution, coupled with increasing consumer and corporate demand for sustainable practices, is driving the adoption of solvent recovery and recycling technologies. Additionally, the global shift towards a circular economy, where resources are reused and recycled, is further propelling the growth of this market. As a result, industries are increasingly investing in technologies that minimize waste, reduce the consumption of virgin solvents, and lower their overall environmental footprint.

Restraint:

Shortage of skilled labor

Adoption of new technologies and operational efficiency may be severely hampered by the lack of competent workers in the solvent recovery and recycling sector. The risk of equipment failure or subpar performance rises when recovery systems are not managed and maintained by qualified specialists, which lowers recovery rates and raises operating expenses. Inadequate solvent or recovery process handling can also result in contamination, safety risks, and environmental infractions. In addition to delaying the adoption of cutting-edge recovery technology, this labor constraint keeps companies from streamlining operations and adhering to ever#- #stringent regulations.

Opportunity:

Growing demand in end-user industries

Increasing end-user industry demand is a key factor propelling the solvent recovery and recycling market. Solvents are essential to many processes in industries like paints and coatings, chemicals, electronics, and medicines. The need for effective solvent management is growing along with these businesses. Additionally, there is a growing preference for solvent recovery and recycling technologies as a result of the increased emphasis on sustainability and cost reduction. These businesses may save operating costs, cut waste, and lessen their overall environmental effect by recovering and reusing solvents.

Threat:

Lack of awareness in emerging markets

Growth in emerging markets may be seriously hampered by a lack of awareness of the advantages and significance of solvent recovery and recycling. Industries may continue to dispose of solvents carelessly if they lack the necessary understanding, which would increase waste management expenses and pollute the environment. The adoption of effective, economical technology that could lower solvent usage and enhance sustainability is also delayed by this ignorance. Long-term market expansion in these areas is also hampered by the lack of knowledge, which inhibits the construction of a strong infrastructure.

Covid-19 Impact

The COVID-19 pandemic had a mixed impact on the solvent recovery and recycling market. The demand for solvents and recovery services was momentarily lowered by interruptions in global supply chains and a decline in industrial activity. Industries increased their investments in waste reduction and resource conservation as a result of the pandemic's emphasis on the value of sustainable practices. The market for solvent recovery and recycling has better long-term growth prospects as a result of the post-pandemic recovery phase's heightened emphasis on environmental sustainability.

The membrane filtration segment is expected to be the largest during the forecast period

The membrane filtration segment is estimated to be the largest, due to its ability to efficiently separate solvents from impurities, reducing waste and improving recovery rates. Membrane filtration offers a cost-effective and energy-efficient alternative to traditional methods like distillation. It supports the growing demand for sustainable and green technologies by minimizing solvent loss and ensuring high-quality recovered solvents. Additionally, advancements in membrane technology, such as increased permeability and selectivity, are driving its adoption in various industries.

The pharmaceuticals segment is expected to have the highest CAGR during the forecast period

The pharmaceuticals segment is anticipated to witness the highest CAGR during the forecast period, due to its high solvent usage in drug formulation, extraction, and synthesis processes. Stricter environmental regulations and the need for cost reduction are pushing pharmaceutical companies to adopt solvent recovery systems. Recycling solvents helps minimize waste, reduce hazardous emissions, and ensure compliance

with sustainability standards. Additionally, recovering solvents lowers operational costs by reducing the need for purchasing new solvents, enhancing the industry's focus on resource efficiency and sustainability.

Region with largest share:

Asia Pacific is expected to have the largest market share during the forecast period due to increased demand for solvents in industries such as chemicals, pharmaceuticals, automotive, and paints & coatings is fueling the need for efficient recovery and recycling solutions. Additionally, rising environmental awareness and stricter regulatory frameworks are encouraging industries to adopt sustainable practices. Economic growth, expanding manufacturing sectors, and the push for cost reduction further accelerate the demand for solvent recovery systems.

Region with highest CAGR:

During the forecast period, the North America region is anticipated to register the highest CAGR. Countries like the U.S. and Canada enforce strict waste management and pollution control laws, encouraging industries to adopt solvent recovery technologies. The growing emphasis on reducing operational costs also boosts market demand, as solvent recycling offers significant savings by minimizing the need for fresh solvents. Technological advancements in solvent recovery methods and a rising corporate focus on sustainability further propel market growth in North America.

Key players in the market

Some of the key players profiled in the Solvent Recovery and Recycling Market include Veolia Environnement, Clean Planet Energy, Harsco Corporation, Thermo Fisher Scientific, Ecolab Inc., BASF SE, Gulf Coast Environmental Systems, EnviroTech Services, Inc., Delta Separations, Bayer AG, Solvay SA, Linde Group, Mitsubishi Chemical Corporation, Jiangsu Yoke Technology Co., Ltd., SUEZ, Envirogen Technologies, and Alfa Laval.

Key Developments:

In March 2021, Veolia launched a new solvent recovery system designed to reduce environmental impact and improve cost-efficiency in industries like chemicals, pharmaceuticals, and coatings. The system focuses on recovering and reusing solvents, reducing waste, and complying with regulatory standards.

In January 2020, Delta Separations introduced an innovative solvent recovery solution, enhancing the efficiency of solvent purification and recycling for the cannabis industry. The technology optimizes solvent recovery rates while minimizing energy consumption, offering a more sustainable approach to solvent management.

Solvent Types Covered:

Alcohols

Amides

Esters

Ketones

Aromatic solvents

Chlorinated solvents

Acetone

Butanol

Propanol

E-Caprolactam

Terephthalic Acid

Other Solvent Types

Recovery Methods Covered:

Closed-loop Recovery

Open-loop Recovery

Technologies Covered:

Distillation

Filtration

Absorption

Membrane Filtration

Centrifugation

Evaporation

Liquid-Liquid Extraction

Other Technologies

Applications Covered:

Solvent Recycling Systems

Solvent Recovery Plants

Solvent Disposal and Treatment

Other Applications

End Users Covered:

Chemical Industry

Pharmaceuticals

Automotive

Food & Beverages

Oil & Gas

Paints & Coatings

Cosmetics & Personal Care

Printing

Electronics

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Solvent Recovery and Recycling Market Forecasts to 2030 – Global Analysis By Solvent Type (Alcohols, Amides, E...

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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