

# Global Direct Lithium Extraction Technology Services Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Direct Lithium Extraction Technology Services market size was valued at USD 54 million in 2023 and is forecast to a readjusted size of USD 782.2 million by 2030 with a CAGR of 46.6% during review period.

Lithium is a highly reactive alkali metal that offers excellent heat and electrical conductivity, which makes it ideal for several uses such as EV and energy storage, as mentioned above. However, because of its high reactivity, pure elemental lithium is not found in nature but is instead present as a constituent of salts or other compounds. Direct Lithium Extraction (DLE) is one of the latest trends to extract lithium. This technique consists of several chemical processes that allow for fast isolated lithium production into saleable forms of lithium. This can be done via three main methods:

1. Adsorption: using sorbents to physically adhere to the lithium for selective removal. After the sorbent is loaded with the lithium chloride, it's washed with a diluted lithium chloride stream to remove unwanted ions, and then washed a second time to unload the lithium chloride. The latest sorbent being tested is a lithium aluminum layered double hydroxide chloride sorbent, or LDH. As described in a recent study published by Environmental Science & Technology, this method doesn't require an acid wash or other chemicals, which ultimately makes it more friendly.

2. Ion Exchange: These systems separate ionic contaminants from solution through a physicochemical process where undesirable ions are replaced by other ions of the same electrical charge. Lithium recovery by ion exchange can change with a simple adjustment in pH, temperature, or stream composition (and the same goes for other

lithium extraction methods), but researchers also believe this method can recover roughly 90% of the lithium present.

3.Solvent extraction: this process involves capturing lithium either chemically or physically and transforming it into LiCl or Li\* from brine.

Since the Direct Lithium Extraction Technology not yet been commercialized on a large scale, the report predicts and analyses revenue data for 2020-2031

Global key players of direct lithium extraction technology services include Lilac Solutions, Sunresin, Jiuwu Hi-tech, etc. The top three players hold a share over 70%.

North America is the largest market, has a share about 42%, followed by Asia-Pacific, with share 35%.

In terms of product type, sorbent extraction is the largest segment, occupied for a share of 64%, and in terms of application, salt lake brine extraction has a share about 96 percent.

The Global Info Research report includes an overview of the development of the Direct Lithium Extraction Technology Services industry chain, the market status of Salt Lake Brine Extraction (Sorbent Extraction, Ion Exchange), Deep Brine Extraction (Sorbent Extraction, Ion Exchange), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Direct Lithium Extraction Technology Services.

Regionally, the report analyzes the Direct Lithium Extraction Technology Services markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Direct Lithium Extraction Technology Services market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Direct Lithium Extraction Technology Services market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Direct Lithium

Extraction Technology Services industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Sorbent Extraction, Ion Exchange).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Direct Lithium Extraction Technology Services market.

**Regional Analysis:** The report involves examining the Direct Lithium Extraction Technology Services market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Direct Lithium Extraction Technology Services market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Direct Lithium Extraction Technology Services:

**Company Analysis:** Report covers individual Direct Lithium Extraction Technology Services players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Direct Lithium Extraction Technology Services This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Salt Lake Brine Extraction, Deep Brine Extraction).

**Technology Analysis:** Report covers specific technologies relevant to Direct Lithium Extraction Technology Services. It assesses the current state, advancements, and

potential future developments in Direct Lithium Extraction Technology Services areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Direct Lithium Extraction Technology Services market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

### Market Segmentation

Direct Lithium Extraction Technology Services market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

#### Market segment by Type

- Sorbent Extraction

- Ion Exchange

- Solvent Extraction

#### Market segment by Application

- Salt Lake Brine Extraction

- Deep Brine Extraction

#### Market segment by players, this report covers

- Lilac Solutions

- Sunresin Inc.

Jiuwu Hi-tech

TUS-MEMBRANE

Summit Nanotech

EnergySource Minerals LLC

E3 LITHIUM

SLB

Energy Exploration Technologies

Standard Lithium

International Battery Metals Inc

Xinjiang Tailixin Mining Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Direct Lithium Extraction Technology Services product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Direct Lithium Extraction Technology Services, with revenue, gross margin and global market share of Direct Lithium Extraction Technology Services from 2019 to 2024.

Chapter 3, the Direct Lithium Extraction Technology Services competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Direct Lithium Extraction Technology Services market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Direct Lithium Extraction Technology Services.

Chapter 13, to describe Direct Lithium Extraction Technology Services research findings and conclusion.

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