

Global Direct Lithium Extraction Technology Services Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Direct Lithium Extraction Technology Services market size is expected to reach \$ 782.2 million by 2029, rising at a market growth of 46.6% CAGR during the forecast period (2023-2029).

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.

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

This report studies the global Direct Lithium Extraction Technology Services demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Direct Lithium Extraction Technology Services, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Direct Lithium Extraction Technology Services that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Direct Lithium Extraction Technology Services total market, 2018-2029, (USD Million)

Global Direct Lithium Extraction Technology Services total market by region & country, CAGR, 2018-2029, (USD Million)

U.S. VS China: Direct Lithium Extraction Technology Services total market, key domestic companies and share, (USD Million)

Global Direct Lithium Extraction Technology Services revenue by player and market

share 2018-2023, (USD Million)

Global Direct Lithium Extraction Technology Services total market by Type, CAGR, 2018-2029, (USD Million)

Global Direct Lithium Extraction Technology Services total market by Application, CAGR, 2018-2029, (USD Million).

This reports profiles major players in the global Direct Lithium Extraction Technology Services market based on the following parameters – company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lilac Solutions, Sunresin Inc., Jiuwu Hi-tech, TUS-MEMBRANE, Summit Nanotech, EnergySource Minerals LLC, E3 LITHIUM, SLB and Energy Exploration Technologies, 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 Direct Lithium Extraction Technology Services market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Direct Lithium Extraction Technology Services Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Direct Lithium Extraction Technology Services Market, Segmentation by Type

Sorbent Extraction

Ion Exchange

Solvent Extraction

Global Direct Lithium Extraction Technology Services Market, Segmentation by Application

Salt Lake Brine Extraction

Deep Brine Extraction

Companies Profiled:

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.

Key Questions Answered

1. How big is the global Direct Lithium Extraction Technology Services market?
2. What is the demand of the global Direct Lithium Extraction Technology Services market?
3. What is the year over year growth of the global Direct Lithium Extraction Technology Services market?
4. What is the total value of the global Direct Lithium Extraction Technology Services market?
5. Who are the major players in the global Direct Lithium Extraction Technology Services market?

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Figure 41. Research Process and Data Source

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