

# The 2023-2028 Outlook for Lithium-Ion Battery Recycling in China

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## Abstracts

This study covers the latent demand outlook for lithium-ion battery recycling across the regions of China, including provinces, autonomous regions (Guangxi, Nei Mongol, Ningxia, Xinjiang, Xizang - Tibet), municipalities (Beijing, Chongqing, Shanghai, and Tianjin), special administrative regions (Hong Kong and Macau), and Taiwan (all hereafter referred to as 'regions'). Latent demand (in millions of U.S. dollars), or potential industry earnings (P.I.E.) estimates are given across some 1,100 cities in China. For each major city in question, the percent share the city is of the region and of China is reported. Each major city is defined as an area of 'economic population', as opposed to the demographic population within a legal geographic boundary. For many cities, the economic population is much larger than the population within the city limits; this is especially true for the cities of the Western regions. For the coastal regions, cities which are close to other major cities or which represent, by themselves, a high percent of the regional population, actual city-level population is closer to the economic population (e.g. in Beijing). Based on this 'economic' definition of population, comparative benchmarks allow the reader to quickly gauge a city's marketing and distribution value vis-?-vis others. This exercise is quite useful for persons setting up distribution centers or sales force strategies. Using econometric models which project fundamental economic dynamics within each region and city of influence, latent demand estimates are created for lithium-ion battery recycling. This report does not discuss the specific players in the market serving the latent demand, nor specific details at the product level. The study also does not consider short-term cyclicalities that might affect realized sales. The study, therefore, is strategic in nature, taking an aggregate and long-run view, irrespective of the players or products involved.

In this report we define the sales of lithium-ion battery recycling as including all commonly understood products and/or services falling within this broad category,

irrespective of product packaging, formulation, size, or form. Companies participating in this industry include ACCUREC Recycling, AkkuSer Oy, American Manganese, ANHUA TAISEN RECYCLING Technology Company, Ltd., Batrec Industrie, Battery Recycling Made Easy, Chemetall, Contemporary Amperex Technology, Dowa Eco-System Company, Ltd., ECOBAT Technologies, Euro Dieuze Industrie (E.D.I.), Fortum, Foshan Nanhai Zhongnan Aluminum Wheel Company, G&P Batteries, Ganfeng Lithium Company, GEM Company, Glencore, Global Technology Systems, Inc., Hunan Maunsell Chemical New Technology Company, innovative battery recycling, International Metals Reclamation Company (INMETCO), Interstate Batteries, JX Nippon Mining & Metals, LI-CYCLE, Lithion Recycling, Lithium Australia, Metal Conversion Technologies (MCT), Neometals, Onto Technology, LLC, Quzhou Huayou Cobalt New Material Company, Raw Materials Company, Recupyl, Redux Recycling GmbH, Retrieval Technologies, REVATECH SA, San Lan Technologies Company, Ltd., Shenzhen Green Eco-Manufacturer Hi-Tech Company, Ltd., SITRASA, Snam, Sony and Sumitomo Metals Corporation, Stiftung GRS Batterien, Storage Battery Systems, Tata Chemicals, Tes - Amm India Pvt, Ltd., Tesla, TOXCO, Inc., Umicore, and Urecycle Group Oy. In addition to the sources indicated, additional information available to the public via news and/or press releases published by players in the industry was considered in defining and calibrating this category. All figures are in a common currency (U.S. dollars, millions) and are not adjusted for inflation (i.e., they are current values). Exchange rates used to convert to U.S. dollars are averages for the year in question. Future exchange rates are assumed to be constant in the future at the current level (the average of the year of this publication's release in 2022).

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