Lake Resources’ Kachi Lithium project makes major headways in December quarter

Summary

- Lake Resources has commenced a Definitive Feasibility Study for its Kachi Project, which is being led by Dr Nicholas Lindsay, recently appointed as Technical Director.
- LKE has transported high purity battery quality lithium carbonate ($\text{Li}_2\text{CO}_3$) to Novonix, and the testing is expected to conclude in the current quarter.
- LKE is also well cashed up after raising A$20 million via construction finance in January 2021.

Lithium development company Lake Resources N.L. (ASX:LKE) has been working against the clock along with its partners to develop high-quality lithium products. Impressively, the Company has made notable progress during the past quarter ended 31 December 2021.

LKE’s flagship project Kachi Lithium Brine Project, which holds a total resource of 4.4 million tonnes LCE (Lithium Carbonate Equivalent), has undergone various exploration activities, and the Company is focussed on steering the project towards production. For this purpose, LKE has partnered with Lilac Solutions Inc to utilise their direct extraction technology, which is deemed as efficient and low cost-competitive.

Related: Lake Resources’ Technology Partner in California Picks Up Steam After Restrictions are Lifted
This technology has facilitated in producing high purity Lithium Carbonate (Li₂CO₃) from the brine samples of Kachi Project. The samples of this Li₂CO₃ were further processed into high purity Li₂CO₃ (99.97%). The production of Li₂CO₃ samples by Hazen remains in progress.

Maintaining purity is an integral element as the purity level of the Li₂CO₃ is critical to determine its pricing in the market. This means that there is potential for premium pricing if there are high purity results.

**Interesting Read:** Lake Resources Zooms ~9% on ASX; New Research Reflects Kachi Project's High Potential

### Definitive Feasibility Study (DFS)

Lately, LKE has also commenced a Definitive Feasibility Study (DFS) for its Kachi Lithium Brine Project that supplements the exciting and strong Pre-Feasibility Study (PFS) completed in 2020. For the DFS, LKE has appointed Hatch as the lead consultant, and the study builds into the technical and economic viability of the Kachi Project centred on the direct lithium extraction process of Lilac.

LKE believes that the DFS is a significant breakthrough for further advancement of its Kachi Project. This aligns well with the Company’s aim to emerge into a significant and successful maker of fine quality lithium product for the swiftly expanding battery market.

**September Quarter Update:** Lake Resources (ASX:LKE) serves up a sparkling September Quarter, Produces Battery Quality Lithium Carbonates

Further, the DFS will witness few related work streams progressing alongside in tandem. These include the ESIA (Environmental and Social Impact Study), the constant engagement of the community, and commissioning of a demonstration plant on-site towards the end of the current year.

### Appointment of Dr Nicholas Lindsay

In another significant development, LKE has appointed Dr Nicholas Lindsay to the role of Technical Director with a view to managing the DFS and related workstreams. Dr Lindsay had previously served the role of Non-Executive Director at LKE besides having an international experience in the feasibility studies in South America. LKE is optimistic that they would be able to provide the DFS for Kachi project by the first quarter of 2022.

**Related Update:** ASX-listed LKE cranks up Kachi Lithium Brine Project with Shallow Drill Testing

### High Purity Lithium Testing

LKE has transported Li₂CO₃ samples to Novonix Battery Technology Solutions to test it along with commercial battery cathode precursor materials in NMC622 batteries. The performance of LKE’s lithium product will be assessed for consistency with Li-ion battery industry guidelines by implementing pilot cell line and proprietary advanced diagnostic tools of Novonix.

The data so generated will help prospective users and off-takers to appropriately compare the performance of LKE’s product to peers. LKE expects this testing to conclude in the current quarter.

**Interesting Read:** Lake Resources in a sounding position amid focus on e-vehicle production

### Financing and Cash Position

At the end of December quarter 2020, LKE was suitably financed for supporting its existing plans through to the construction finance phase, including the DFS. The Company had around A$2 million cash on 31 December 2020 and had no debt.

On 25 January 2021, LKE held around A$25 million in cash and commitments, including commitments secured for A$20.6 million through a private placement. LKE has plans to utilise these funds towards various crucial activities, including the following:
Lake Resources’ Kachi Lithium project makes major headways in December quarter

- Producing high purity Li₂CO₃ samples
- Operating the Li₂CO₃ direct extraction pilot plant
- Concluding the demonstration plant
- Finalising the Definitive Feasibility Study (DFS)
- Completing the Environmental and Social Impact Study (ESIA)
- Finance works related to project development and general exploration across all projects and working capital.

READ MORE: [Lake Resources (ASX:LKE) welcomes global institutional backing via A$20 Mn commitments](https://kalkinemedia.com/au/sponsored/lake-resources-kachi-lithium-project-makes-major-headways-in-december-quarter)

Other than this, the Company also raised A$3.375 million through the issue of 40 million shares under the Controlled Placement Agreement with Acuity Capital Pty Ltd.

Overall, LKE has highlighted that the production of high purity Li₂CO₃ is possible through the direct lithium extraction process and is believed to be a sustainable solution for battery materials amid the international transformation towards clean energy. LKE eagerly looks forward to producing the cleanest battery quality Li₂CO₃ so that the same can be further used in the growing market for battery and electric vehicle.

INTERESTING READ: [Why are Lake Resources (ASX:LKE) shares making a splash in January?](https://www.kalkine.com/article/lake-resources-lke-share-price-kit) On 04 February 2021, LKE share price was trading at A$0.285 with a market capitalisation of A$277.09 million.
Lake Resources’ Kachi Lithium project makes major headways in December quarter

Alchemy Resources (ASX:ALY) Cutting The Mustard With All-Round Progress

Greenland Minerals (ASX:GGG) supports Kvanefjeld Project's public consultation period extension

Alchemy Resources (ASX:ALY) On The March With Major Plans Across Projects

Brett Lambert joins Musgrave Minerals (ASX:MGV) as a non-executive director

Horizon Minerals (ASX:HRZ) Going Great Guns with its Regional Consolidation Strategy

Sneak peek at MRG Metals’ (ASX:MRQ) progressive December 2020 quarter report

BlackEarth Minerals shares rocket 117% on Urbix deal

**TOP ASX LISTED COMPANIES**

- BHP Group Limited (ASX: BHP)
- Rio Tinto (ASX: RIO)
- Commonwealth Bank of Australia (ASX: CBA)
- Westpac Banking Corporation (ASX: WBC)
- Australia and New Zealand Banking Group Limited (ASX: ANZ)
- National Australia Bank Limited (ASX: NAB)
- Westpac Limited (ASX: WES)
- Woolworths Group Ltd (ASX: WOW)
- Macquarie Group Limited (ASX: MQG)
- Telstra Corporation Limited (ASX: TLS)
- Transurban Group (ASX: TCL)
- Fortescue Metals Group Limited (ASX: FMG)
- Woodside Petroleum Limited (ASX: WPL)
- Bank of America (ASX: BMO)
- Websterston Mining Ltd (ASX: WER)
- Macquarie Capital Group (ASX: MAC)
- Newcrest Mining Limited (ASX: NCM)
- Antofagasta Limited (ASX: ALL)
- Scentre Group (ASX: SCG)
- Coles Group Limited (ASX:COL)
- Sydney Airport (ASX:SYD)
- Brambles Limited (ASX: BBE)
- Amcor PLC (ASX: AMC)
- Insurance Australia Group Limited (ASX: IAG)
- Santos Limited (ASX: STO)
- Aristocrat Leisure Limited (ASX: ALL)
- Scentre Group (ASX: SCG)
- Coles Group Limited (ASX:COL)
- Sydney Airport (ASX:SYD)
- Brambles Limited (ASX: BBE)
- Amcor PLC (ASX: AMC)
- Insurance Australia Group Limited (ASX: IAG)
- Santos Limited (ASX: STO)
Lake Resources’ Kachi Lithium project makes major headways in December quarter

[Link to the article](https://kalkinemedia.com/au/sponsored/lake-resources-kachi-lithium-project-makes-major-headways-in-december-quarter)