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PNN

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Salta Lithium Project

**Brazil**

Lítio Niobium Project

**Australia**Eyre Peninsula Kaolin-Halloysite-  
REE ProjectMusgrave Nickel-Copper-Cobalt-  
PGE Project

## Power to commence LiDAR survey at Lítio Niobium Project, Brazil

- Light detection and ranging (LiDAR) survey to be undertaken at Lítio Niobium Project, Brazil
- Survey designed to provide very high-resolution imagery and a detailed 3D topography model to help define new, priority exploration targets
- LiDAR survey will be airborne - drone controlled - and will initially cover an area of 1600 hectares
- The survey is expected to be completed in the current quarter and results will be released when available
- The LiDAR survey follows initial sampling at Lítio which returned high-grade niobium, tantalum and rare earth elements (REE)

Power Minerals Limited (ASX: PNN, Power or the Company) is pleased to announce that it will undertake a light detection and ranging (LiDAR) survey at its Lítio Niobium Project in Paraiba State, Brazil.

The LiDAR survey aims to provide expedited new, priority exploration targets at the Lítio Project, and is the next phase of Power's systematic exploration of the Project.

- Power's LiDAR survey at Lítio will be an airborne (drone controlled) survey, and will initially cover an area of 1600 hectares. It is designed to provide very high-resolution imagery to identify pegmatite trends and facilitate detailed mapping of the survey area.
- The survey will also provide a detailed 3D topography image of the terrain including any existing artisanal workings (Garimpeiros), which will further aid in mapping the pegmatite trends.
- LiDAR is a cost effective optical remote-sensing technique that uses laser light to densely sample the earth's surface and is able to produce highly accurate measurements.

The LiDAR survey is expected to be completed in the current quarter and results will be released when available.

**“The LiDAR survey represents the next stage in our systematic exploration and appraisal of the Lítio Project. It provides an excellent, cost effective method to help identify and define exploration targets within the Project area. The data generated by the survey is expected to identify pegmatite trends within the Project area and allow for detailed mapping of the survey area.**

**This work forms part of our expedited exploration plans at the Lítio Project, which are designed to deliver targets for a first-phase of drilling.”**

**Power Minerals Managing Director Mena Habib**

### **Lítio Project background**

The Project comprises three permits and is considered highly prospective for niobium, rare earth (REE) and lithium (Figure 1).

Power recently completed the acquisition of the Lítio Project (ASX Announcement 6 August 2024), and has conducted a highly successful initial stage of surface sampling which confirmed the presence of high-grade niobium, tantalum and rare earth elements (REE) within the Project area, with results including (ASX Announcement 22 July 2024);

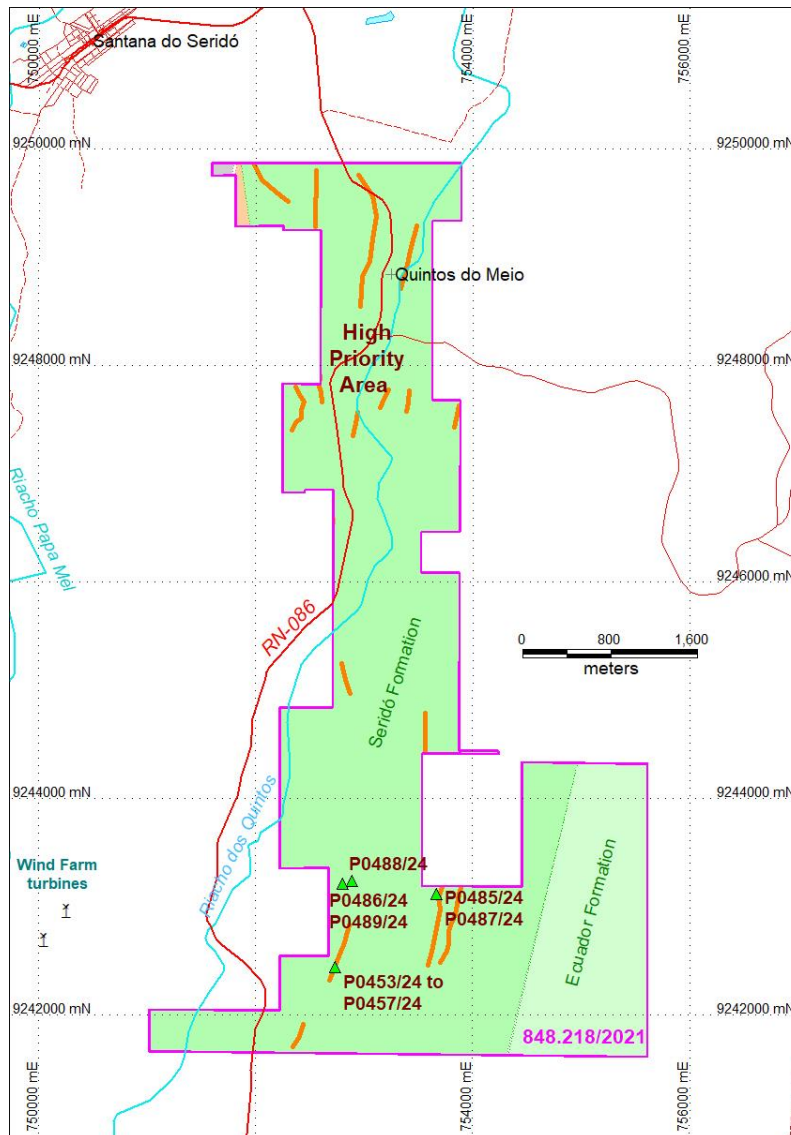
- 63.7% Nb<sub>2</sub>O<sub>5</sub> and 9.5% Ta<sub>2</sub>O<sub>5</sub> with 2354ppm partial REO
- 43.5% Ta<sub>2</sub>O<sub>5</sub> and 17.5% Nb<sub>2</sub>O<sub>5</sub> with 1062ppm partial REO
- 41.3% Nb<sub>2</sub>O<sub>5</sub> and 11.99 % Ta<sub>2</sub>O<sub>5</sub> with 1793 ppm partial REO
- 48.4% Nb<sub>2</sub>O<sub>5</sub> and 6.3% Ta<sub>2</sub>O<sub>5</sub> with 4975ppm partial REO

The Lítio Project is adjacent to Summit Minerals’ (ASX: SUM) Equador Project, which has returned laboratory assay results from sampling of up to **63.07% Nb<sub>2</sub>O<sub>5</sub>, 47.17% Ta<sub>2</sub>O<sub>5</sub>** and **24,760ppm (2.47%)** partial rare earth oxides (PREO) (SUM: ASX Announcement, 24 June 2024). The geology of Summit’s Equador Project is interpreted to continue into the Lítio Project.

### **Next Steps**

Power plans to use the results of the LiDAR survey, in conjunction with ongoing sampling programs at Lítio, to define and prioritise exploration targets. The Company plans to utilise the imagery and topography model generated by the LiDAR survey to assist in defining location(s) for potential bulk sampling and a first-phase drilling program (subject to results).

Power also plans to map the locations and use existing artisanal workings (Garimperios) as a guide to defining other prospective target areas.



**Figure 1:** Geological map of Power’s PNN Lítio Project, with Equador Formation quartzite in the east and Seridó Formation in the west hosting possible pegmatites (orange lines). Power sample locations (ASX announcement 22 July 2024) are also shown.

**Authorised for release by the Board of Power Minerals Limited.**

**-ENDS-**

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**About Power Minerals Limited**

Power Minerals Limited is an ASX-listed exploration and development company. We are committed to the development of our lithium assets in Argentina into significant lithium producing operations, the exploration of the Lítio Niobium Project in Brazil and delivering value from our non-core Australian assets.