

LITHIUM

Current resources for Western Australia

- Western Australia contains the world's largest single hardrock deposit of lithium – **Greenbushes**
- Australia has been the world's largest supplier of lithium since 2013
- Total resources of spodumene currently estimated at 16.8 Mt of contained Li₂O
- Lithium minerals in Western Australia (all occurring in pegmatite) include spodumene, lepidolite, zinnwaldite and petalite
- Construction of two lithium hydroxide processing plants was completed in 2019 at Kwinana (Tianqi Lithium) and Kemerton (Albemarle), both sourcing spodumene concentrate from the Greenbushes operation

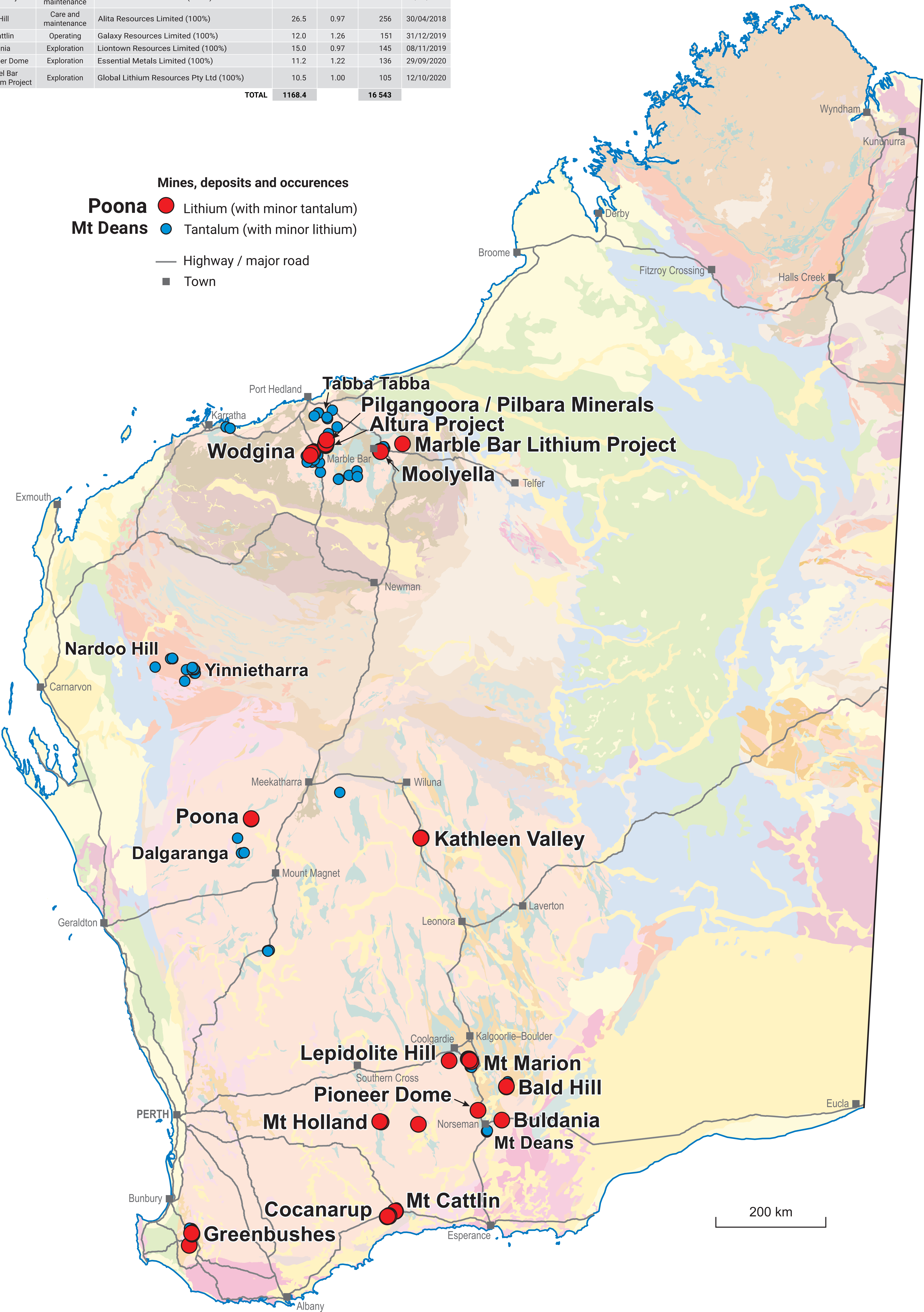
Lithium resources of Western Australia

Resources estimated according to JORC 2012

Project	Status	Owner	Resources (Mt)	Av. grade Li ₂ O (%)	Contained Li ₂ O (kt)	Resource date
Greenbushes	Operating	IGO Limited (24.9%), Albemarle Corporation (49%), Tianqi Lithium Australia Pty Ltd (26.1%)	196.8	1.90	3748	31/03/2018
Wodgina	Care and maintenance	Mineral Resources Limited (40%), Albemarle Corporation (60%)	259.2	1.17	3032	23/10/2018
Mt Holland	Pre-feasibility	Sociedad Química Y Minera De Chile S.A. (50%), Wesfarmers Limited (50%)	189.0	1.50	2843	19/03/2018
Pilgangoora	Operating	Pilbara Minerals Limited (100%)	222.5	1.27	2814	30/06/2020
Kathleen Valley	Pre-feasibility	Liontown Resources Limited (100%)	156.0	1.35	2100	31/03/2021
Mt Marion	Operating	Gangfeng Lithium Company Limited (50%), Mineral Resources Limited (50%)	72.9	1.37	995	01/07/2019
Altura Project	Care and maintenance	Pilbara Minerals Limited (100%)	45.7	1.06	482	30/06/2019
Bald Hill	Care and maintenance	Alita Resources Limited (100%)	26.5	0.97	256	30/04/2018
Mt Cattlin	Operating	Galaxy Resources Limited (100%)	12.0	1.26	151	31/12/2019
Buldania	Exploration	Liontown Resources Limited (100%)	15.0	0.97	145	08/11/2019
Pioneer Dome	Exploration	Essential Metals Limited (100%)	11.2	1.22	136	29/09/2020
Marbel Bar Lithium Project	Exploration	Global Lithium Resources Pty Ltd (100%)	10.5	1.00	105	12/10/2020
TOTAL			1168.4		16 543	

Mines, deposits and occurrences

- Poona** ● Lithium (with minor tantalum)
- Mt Deans** ● Tantalum (with minor lithium)
- Highway / major road
- Town



Lithium operations

Greenbushes

- Historic spodumene production, all from pegmatites, commenced in 1985
- Production of spodumene concentrate has increased to 1.34 Mt per annum following the opening of a new chemical grade processing plant (CGP2) in 2019

Mt Cattlin

- Mined from 1955 to 1964 (108 t), 2011 to 2012 and from 2016
- The project has recently reopened to produce spodumene concentrate and a tantalum byproduct

Pilgangoora

- Pilbara Minerals has operated the mine since opening in 2018
- Resources are to be updated in Q3 2021 following the acquisition of the Altura Project

Mt Marion

- Site upgrades during 2018–19 have increased capacity to 450 000 t per annum. The spodumene concentrate will also be produced with a lithium content of 6%