

Graphite resources ranked by contained graphite (kt)

Resources estimated according to JORC 2012

| Project | Status | Owner | Resources TGC (Mt) | Average grade TGC (%) | Contained TGC (kt) | Resource date |
|--------------|-------------|-----------------------------------|--------------------|-----------------------|--------------------|---------------|
| McIntosh | Feasibility | Hexagon Energy Materials | 23.8 | 4.5 | 1059 | 05/04/2019 |
| Munglinup | Feasibility | Mineral Commodities, Gold Terrace | 8.0 | 12.2 | 973 | 08/01/2020 |
| Springdale | Exploration | Comet Resources | 15.6 | 6.0 | 936 | 06/12/2018 |
| Yalbra | Exploration | Buxton Resources | 4.0 | 16.2 | 650 | 24/10/2014 |
| TOTAL | | | 51.4 | | 3619 | |

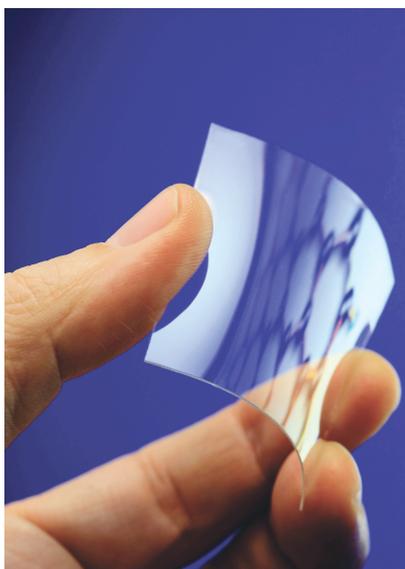
Resource estimates have been rounded
Abbreviation: TGC, total graphitic carbon

Graphite prospectivity of Western Australia

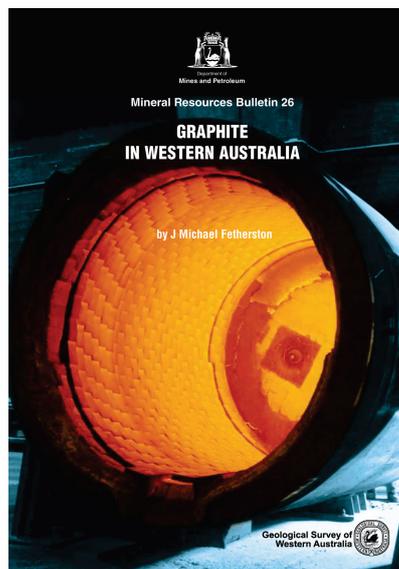
- Flake and amorphous graphite in regionally metamorphosed metasedimentary rocks of Archean and Proterozoic terranes (e.g. the majority of Western Australia's graphite deposits, including Yalbra, McIntosh and Munglinup)
- Flake graphite deposits hosted in veins associated with pegmatites and paragneisses in Proterozoic terranes (e.g. Ajana region, Northampton Inlier)
- Disseminated flake graphite hosted in weathered pegmatites (e.g. Katanning)

Properties and uses

- Graphite is a naturally occurring crystalline form of carbon
- It does not react with other materials and is an excellent conductor of electricity and heat
- Applications and uses include pencils, lubricants, brake lining and clutches, lithium-ion batteries, fuel cells, vanadium redox-flow batteries, and in the aerospace industry
- Medium- to coarse-grained graphite is particularly useful in batteries, when >150 microns long



Graphene, termed 'the world's next wonder material', comprises a series of one-atom thick sheets of graphite. © gettyimages



Graphite prospectivity in Western Australia is outlined in the DMIRS publication **Graphite in Western Australia**, available as a free downloadable PDF from the DMIRS bookshop (www.dmirs.wa.gov.au/ebookshop)

For more information



Geological Survey of Western Australia

www.dmirs.wa.gov.au/gswa

MINEDEX

www.dmirs.wa.gov.au/minedex

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www.dmirs.wa.gov.au/geoview

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December 2021

Geological Survey of Western Australia

