

# Western Australia – Rich in Resources



Jeff Haworth, Executive Director  
Geological Survey and Resource Strategy  
Department of Mines, Industry Regulation and Safety

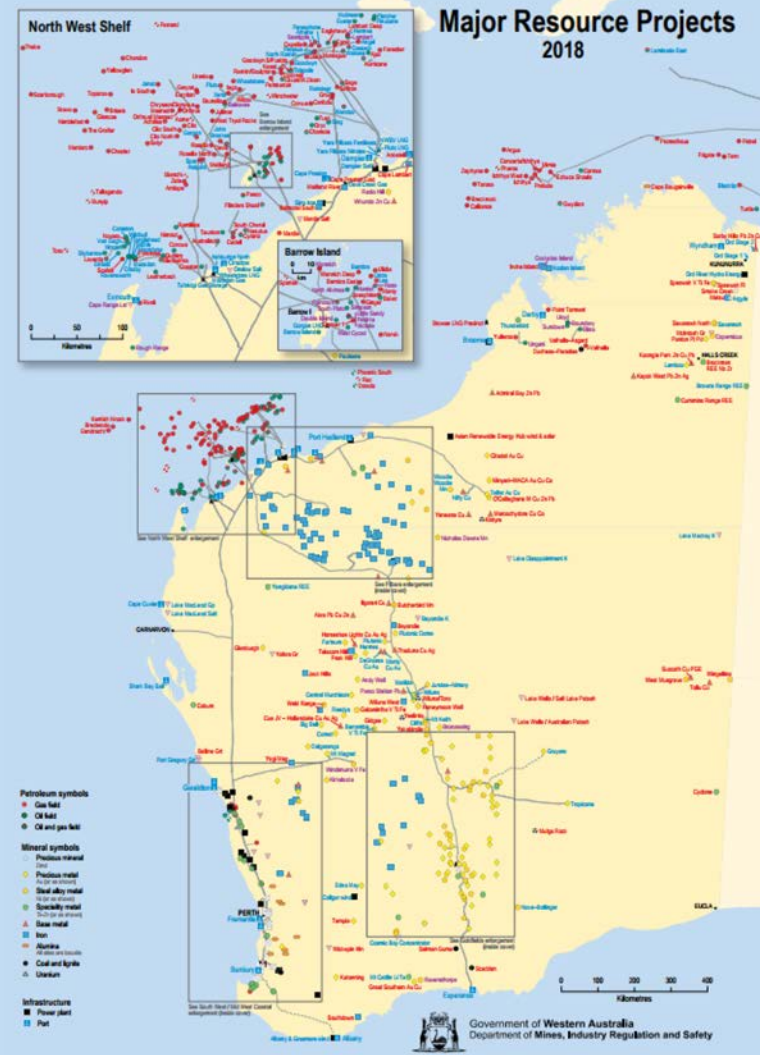
# WA Resources World-class

World's #1 diversified mining and energy province

- LNG, iron ore, gold, bauxite, nickel, battery metals, heavy mineral sands, etc.

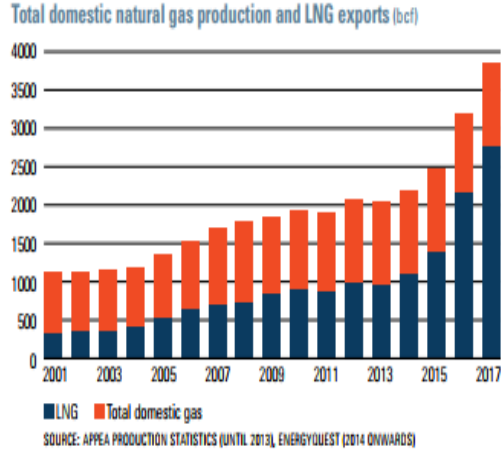
Capital city Perth

- has Australia's largest concentration of global oil & gas companies and oil service companies.
- centre for scientific and technological innovation.
- hosts the Australasian Oil and Gas Conference which showcases engineering products and services.

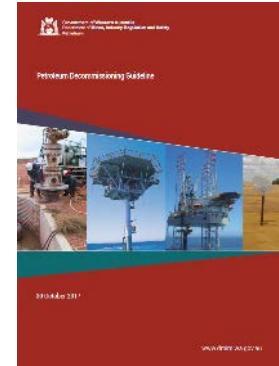
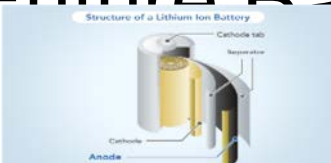


# WA Government Initiatives

- LNG Jobs Taskforce
- Hydrogen Energy – Our Next Great Export?
- Future Batteries



H 1.52E-3																	He											
Li 1.80E-5	Be 2.00E-6															Ne												
Na 2.27E-2	Mg 2.76E-2															Ar												
K 1.84E-2	Ca 4.66E-2	Sc 2.50E-5	Ti 9.32E-3	V 1.36E-4	Cr 1.22E-4	Mn 1.06E-3	Fe 6.2E-2	Co 2.90E-5	Ni 9.90E-5	Cu 6.80E-5	Zn 7.60E-5	Ga 1.90E-5	Ge 1.60E-6	As 1.80E-6	Se 5.00E-6	Br 2.5E-6	Kr											
Rb 7.88E-5	Sr 3.84E-4	Y 3.10E-5	Zr 1.62E-4	Nb 2.00E-5	Mo 1.20E-6	Tc 1.0E-10	Ru 1.0E-10	Rh 1.0E-10	Pd 1.5E-8	Ag 8.00E-8	Cd 1.60E-7	In 2.40E-7	Sn 2.10E-6	Sb 2.00E-7	Te 1.00E-9	I 4.60E-7	Xe											
Cs 6.60E-5	Ba 3.90E-4	Lu 2.80E-6	Hf 2.80E-6	Ta 1.70E-6	W 1.20E-6	Re 7.0E-10	Os 5.00E-9	Ir 1.00E-9	Pt 1.00E-8	Au 4.00E-9	Hg 8.00E-8	Tl 7.00E-7	Pb 1.30E-5	Bi 8.00E-9	Po 0.5-1.5	At 5-15	Rn											
<table border="1"> <tr> <td colspan="2">Type B Conversion Anodes</td> <td colspan="2">Type B Conversion Cathodes</td> <td colspan="2">Commonly used Transition Metals for Intercalation Electrodes</td> </tr> <tr> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> </tr> </table>																	Type B Conversion Anodes		Type B Conversion Cathodes		Commonly used Transition Metals for Intercalation Electrodes		■	■	■	■	■	■
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■	■	■	■	■	■																							





# Exciting drilling, new plays

## Northern Perth Basin

Waitsia - biggest WA onshore gas field, record flow

- Deeper Permian sandstone play discovered in 2014

Xanadu - offshore oil discovery 2017 in Permian sandstones.

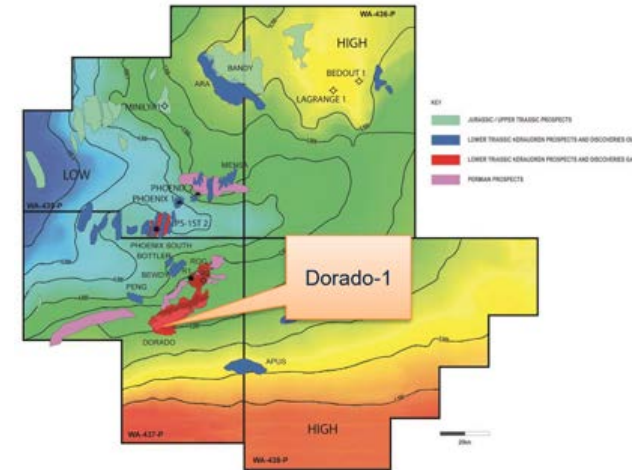


## Onshore Canning Basin

- Ungani oilfield's Dev-Carb dolomite play discovered in 2011

## Bedout Sub-basin

- Dorado 1 Lower Triassic oil discovery in 2018.
- Carnarvon Petroleum indicated ~171 million barrels.



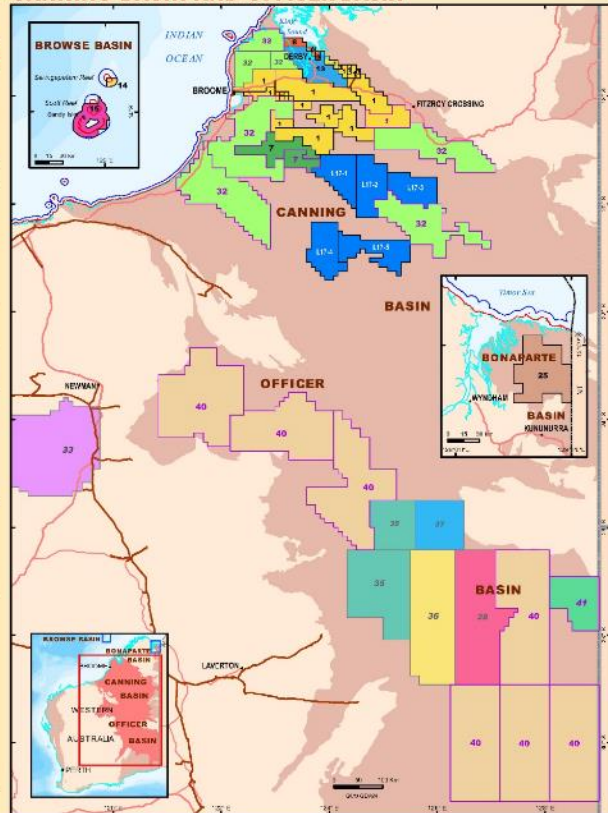
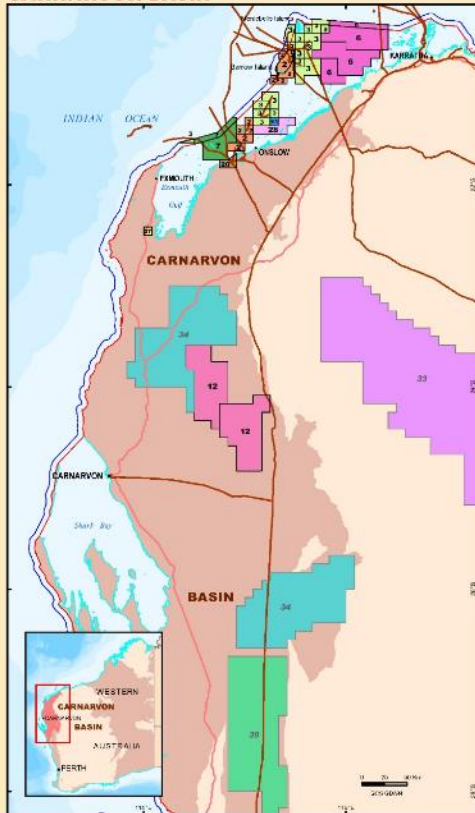
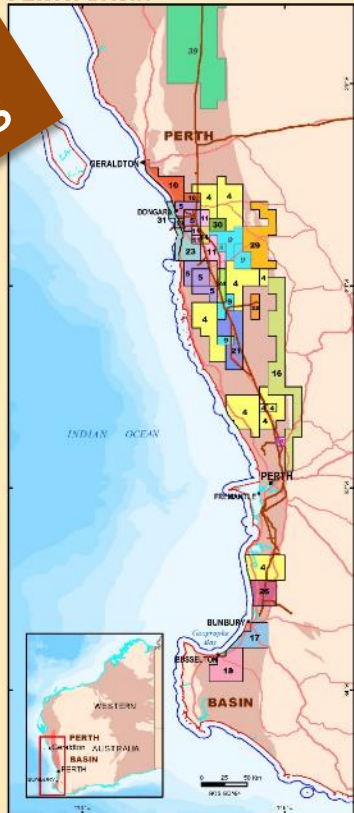
Images courtesy Norwest Energy, Buru Energy & Carnarvon Petroleum

# PETROLEUM TITLES BY NOMINEES AND APPLICANTS

## PERTH BASIN

## CARNARVON BASIN

## CANNING BASIN AND OFFICER BASIN



Nominees	
4	Empire Oil *
5	AWE Perth
6	UL Energy
8	Key Petroleum #
11	Lattice Energy
14	Origin Energy
16	Macalum Group
17	Bunbury Energy
18	CellEnergy Res.
19	Cyclone Energy
21	OCC Methane
22	Latent Petroleum
23	Horvest Energy +
24	Coconut Hill
26	Piki Energy
29	Southern Sky Energy
30	Warrageo Energy
31	Westbranch +

Applicants	
9	IM Energy
10	Macalum Group
25	Palatine Energy

Nominees	
2	Chevron Australia
3	Quadrant
4	Empire Oil *
7	Tasman Energy
17	Flindor
18	New Standard Onshore
19	Oil Basins
20	DDG Tubridgi
27	Rough Range Oil *

28	Skye Alva Petroleum
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Applicants	
37	Pengana Resources
38	Rusa Resources
39	Pacific Energy

Nominees	
1	Bura Energy
7	Flinder
8	Oil Basins
9	Coalbrook
14	Origin Energy
15	Woodside Energy
25	Onshore Energy

Applicants	
7	Rusa Energy
7	Flinder
32	Coalbrook
33	Pengana Resources
35	Zamboran Res.
36	Australian Petroleum Portfolio
38	Australasia Energy
40	Liberty Petroleum
42	Petrex

Government of Western Australia  
Department of Mines, Industry Regulation and Safety

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Farm-in opportunities

### SIZE COMPARISON MAP



# Further information

**Card for information on DMIRS website such as:**

- Prospectivity and acreage
- Petroleum data – free to download
- Explorer's guide
- Titles register & titles maps
- Various other books, flyers and maps

[www.dmirs.wa.gov.au/](http://www.dmirs.wa.gov.au/)

Email [petroleum.acreage@dmirs.wa.gov.au](mailto:petroleum.acreage@dmirs.wa.gov.au)

**NAPE's Australia Petroleum booth # 1535**

