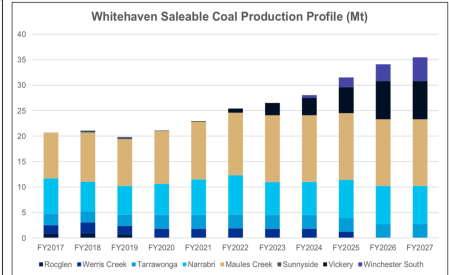
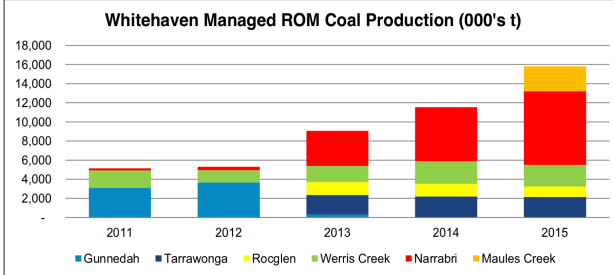


	A	B	C	D	E	F	G	H	I	J	K	L	M	N			
1	Coal extraction data																
2	Richard Heede <i>Climate Mitigation Services</i> File started: 19 June 2019 Last modified: January 2020																
3																	
4																	
5																	
6																	
7																	
8																	
9	Whitehaven Coal, Australia											yellow column indicates original reported units					
10	www.whitehavencol.com.au Sydney, Gunnedah, Newcastle																
11	Production / Extraction data																
12	Year	Lignite				Hard Coal				Total Coal							
13		Gross production		Gross production		Gross production		Gross production		Gross production		Gross production					
14		Million tons/yr		Million tonnes/yr		Million tons/yr		Million tonnes/yr		Million tons/yr		Million tonnes/yr					
15																	
16																	
17																	
18	1950																
19	1951																
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79	2011																
80	2012																
81	2013																
82	2014																
83	2015																
84	2016																
85	2017																
86	2018																
87	Total	77				103				26				-		103	
88																	
89																	
90																	
91																	

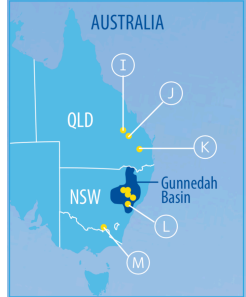


Whitehaven FY2015 Results Presentation

Whitehaven Annual Presentation for 2019, page 20.

Consolidated equity production, sales and coal stocks

Whitehaven Total (000t)	FY2019	FY2018
ROM Coal Production	18,358	17,727
Saleable Coal Production	15,817	16,160
Sales of Produced Coal	16,017 ¹	16,109 ¹
Sales of Purchased Coal	1,615	1,256
Total Coal Sales	17,631	17,365
Coal Stocks at Year End	2,754	2,621



	Thermal (est) Mt Run of mine	Total production Mt Run of mine	Metallurgical (est) Mt Run of mine		
2005	-	-	-	-	-
2006	1.2	1.6	0.4	-	1.6
2007	2.0	2.7	0.7	-	2.7
2008	1.7	2.3	0.6	-	2.3
2009	2.3	3.0	0.8	-	3.0
2010	2.8	3.7	0.9	-	3.7
2011	3.4	4.6	1.1	-	4.6
2012	3.5	4.7	1.2	-	4.7
2013	5.5	7.4	1.8	-	7.4
2014	6.9	9.2	2.3	-	9.2
2015	9.2	12.2	3.1	-	12.2
2016	11.8	15.8	3.9	-	15.8
2017	13.3	17.7	4.4	assume one-quarter metallurgical	17.7
2018	13.3	17.7	4.4		17.7
Total	77	103	26	-	103

Thermal	76.88 Mt	75%	Metallurgical	25.63 Mt	25%	Total	102.50 Mt
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Whitehaven

Cell: I9

Comment: Rick Heede:

Operates 6 mines in the Gunnedah Region of New South Wales. Several large scale projects are in the works, namely the Vickery Project in Gunnedah and Winchester South project in Central Queensland.
https://en.wikipedia.org/wiki/Coal_companies_of_Australia
A publicly listed mining company, Whitehaven Coal Limited is currently developing and operating coal projects in the Gunnedah Region of New South Wales and exploring other opportunities.
The Group operates five open-cut mines, Canyon (formerly Whitehaven), Tarrawonga, Werris Creek, Rocglen (formerly Belmont) and Sunnyside and is developing the Narrabri North underground mine.
CAI: no info on history of Whitehaven at company website.

Cell: D11

Comment: Rick Heede:

Coal production by coal mining companies and state-owned enterprises, including subsidiaries of oil and gas companies.

Coal types produced are not ordinarily reported by coal operators (except for metallurgical coal). We distinguish, where possible and reasonably well known, between hard (bituminous and subbituminous) and soft (lignite or peat) coals, especially for the larger companies operating in regions such as Australia and India where soft coals are predominant. Soft coals have lower carbon content per tonne than do hard coals.

Cell: E73

Comment: Rick Heede:

Whitehaven FY2007 Results Presentation; ROM production for FY2006 and FY2007.

Cell: E77

Comment: Rick Heede:

Whitehaven Annual Presentation for 2011, ROM (run of mine) production for FY2010 and FY2011, page 6.

Cell: E79

Comment: Rick Heede:

Whitehaven Coal Annual Results for FY 2012 and FY 2013.

Cell: E81

Comment: Rick Heede:

Whitehaven Coal Annual Results for FY 2014 and FY 2015.

Cell: H84

Comment: Rick Heede:

Whitehaven Coal produces thermal and metallurgical coal, but to our knowledge does not specify quantities or percent. We assume 25% metallurgical and 75% thermal. We thus also use the generic emission factor for thermal coal, rather than the bituminous coal rank prevalent in New South Wales and Queensland.

Cell: E85

Comment: Rick Heede:

Whitehaven Annual Presentation for 2019, ROM (run of mine) production for FY2018, page 23.