

COAL LOADING PORTS

The export coal industry in Australia is serviced by nine coal loading terminals in Queensland and New South Wales.

As a result of expansion work recently completed or currently in progress, the terminals have a total handling capacity of 237 million tonnes a year. All coal ports in Australia are able to increase capacity as the market expands.

Abbreviations used in this section:

<i>LOA</i>	<i>Length (of vessel) overall</i>
<i>dwt</i>	<i>deadweight tonnes (total tonnage capacity including cargo, stores and bunkers)</i>
<i>m</i>	<i>metres</i>
<i>Mtpa</i>	<i>Million tonnes per annum</i>

ABBOT POINT

<i>Terminal:</i>	Abbot Point Coal Terminal
<i>Operator:</i>	Abbot Point Bulkcoal Pty Ltd
<i>Location:</i>	Abbot Point QLD Lat. 19° 53' south Long. 148° 05' east

<i>Annual throughput capacity:</i>	12 million tonnes
<i>Maximum ship loading rate:</i>	4,600 tonnes per hour

Vessel size:

(Nominal data, vessels of larger dimensions subject to approval)

Maximum LOA:	297 m
Maximum beam:	47.5 m
Capacity (min.):	20,000 dwt
Capacity (max.):	166,000 dwt

<i>Depth at berth (low water, incl underkeel clearance):</i>	19.4 m
<i>Departure draft (notional):</i>	17.5 m
<i>Approach channel depth:</i>	17.2 m
<i>Number of berths:</i>	One

Number of shiploaders:

One

Expansion plans:

None at present

BRISBANE

<i>Terminal:</i>	Brisbane Coal Terminal
<i>Operator:</i>	Queensland Bulk Handling Pty Limited
<i>Location:</i>	3 Bulk Terminals Road, Fisherman Islands Brisbane QLD Lat. 27° 23' south Long. 153° 09' east
<i>Annual throughput capacity:</i>	5 million tonnes
<i>Maximum ship loading rate:</i>	3,000 tonnes per hour
<i>Vessel size:</i>	
Maximum LOA:	269 m
Maximum beam:	43 m
Capacity (min.):	10,000 dwt
Capacity (max.):	138,000 dwt (loaded to approx. 107,000t)
<i>Depth at berth (low water, incl underkeel clearance):</i>	13.5 m
<i>Departure draft:</i>	13.5 m (tidal)
<i>Approach channel depth:</i>	14 m (low water datum)
<i>Number of berths:</i>	One
<i>Number of shiploaders:</i>	One
<i>Expansion plans:</i>	None at present

DALRYMPLE BAY

Terminal:	Dalrymple Bay Coal Terminal
Lessee:	Prime Infrastructure (DBCT) Management Pty Ltd
Operator:	Dalrymple Bay Coal Terminal Pty Ltd
Location:	Hay Point, approximately 40 km south-east of Mackay QLD Lat. 21° 15' south Long. 149° 18.2' east
Annual throughput capacity:	56 million tonnes
Maximum ship loading rate:	7,200 tonnes per hour
Vessel size:	
Maximum LOA:	300 m
Maximum beam:	56 m
Capacity (min.):	20,000 dwt
Capacity (max.):	200,000 dwt
Depth at berth (low water, incl underkeel clearance):	17.9 m LAT (Berth No. 1) 18.3 m LAT (Berth No. 2) 18.9 m LAT (Berth No. 3)
Departure draft:	A departure path is being dredged to 14.5 m LAT by the port authority and is expected to be completed by October 2006.
Approach channel depth:	13.10 m (low water datum)
Number of berths:	Three
Number of shiploaders:	Three
Expansion plans:	Third rail loop and associated inloading system with a third conveyor to stockyard, new stackers/reclaimers and two new stockyard bunds, improvements to other yard equipment and control

systems, third surge bin, third outloading conveyor and optional fourth berth and shiploader.

Web page:

www.primeinfrastructure.com.au

GLADSTONE

Terminal:	Barney Point Coal Terminal
Operator:	Central Queensland Ports Authority (CQPA)
Location:	Gladstone QLD Lat. 23° 51' south Long. 151° 15' east
Website:	www.gpa.org.au
Annual throughput capacity:	5 million tonnes
Maximum ship loading rate:	2,000 tonnes per hour
Vessel size:	
Maximum LOA:	160 m
Maximum beam:	45 m
Capacity (min.):	12,000 dwt
Capacity (max.):	90,000 dwt (fully loaded) 150,000 dwt (part loaded cape size vessels)
Depth at berth (low water, incl underkeel clearance):	15.0 m LWOST (Under keel clearance at berth: 0.5 m)
Departure draft:	15.5 m (greater depending on tide)
Approach channel depth:	13.5 m 11.5 m (in turning basin, north-west of wharf)
Number of berths:	One
Number of shiploaders:	One
Expansion plans:	CQPA's expansion of Barney Point Coal Terminal will increase throughput capacity from 5 Mtpa to 7 Mtpa. The extension project is expected to be completed by June 2005.
Terminal:	R G Tanna Coal Terminal

Operator:	Central Queensland Ports Authority (CQPA)
Location:	Gladstone QLD Lat. 23° 51' south Long. 151° 15' east
Annual throughput capacity:	40 million tonnes
Maximum ship loading rate:	2 x 4,000 tonnes per hour (8,000 tph)
Vessel size:	
Maximum LOA:	315 m
Maximum beam:	55 m
Capacity (min.):	25,000 dwt (or subject to approval)
Capacity (max.):	220,000 + dwt (larger vessels subject to approval)
Depth at berth (low water, incl underkeel clearance):	18.8 m LWOST (Under keel clearance at berth: 0.5 m)
Departure draft:	17.0 m on any day 18.0 m on days of highest tides
Approach channel depth:	16.0 m 10.4 m in turning basin, north-west end of wharf
Number of berths:	Three
Number of shiploaders:	Two
Expansion plans:	CQPA's expansion of RG Tanna Coal Terminal will increase throughput capacity from 40 Mtpa to 54 Mtpa. The project will involve a number of works including: <ul style="list-style-type: none"> • Upgrading the existing shiploading streams to 6,000 tonnes per hour (tph) • Building stockpiles 17 and 18 • Installing a third shiploader and conveyor stream

- Installing a third rail unloading station

The expansion project is expected to be completed by third quarter 2006.

HAY POINT

Terminal:	BHP Billiton Mitsubishi Alliance (BMA) Terminal
Operator:	Hay Point Services Pty Ltd
Location:	Approximately 40 km south-east of Mackay QLD Lat. 21° 15' south Long. 149° 18.2' east
Annual throughput capacity:	34 million tonnes
Maximum ship loading rate:	5,000 tonnes per hour (Berth No. 1) 6,000 tonnes per hour (Berth No. 2)
Vessel size:	
Maximum LOA:	315 m
Maximum beam:	50 m
Capacity (min.):	15,000 dwt
Capacity (max.):	230,000 dwt
Depth at berth (low water, incl underkeel clearance):	16.4 m, less 10 per cent of sailing draft
Departure draft:	17.7 m (max.)
Approach channel depth:	13.1 m (min.)
Number of berths:	Two, allowing simultaneous loading
Number of shiploaders:	Two
Expansion plans:	An expansion program at Hay Point will increase annual throughput capacity from 34 Mtpa to 40 Mtpa by the second half of 2006.

NEWCASTLE

Terminal:	PWCS - Kooragang
Operator:	Port Waratah Coal Services Limited (PWCS)
Location:	Curlew Street, Kooragang Island Newcastle NSW Lat. 32° 56' south Long. 151° 47' east
Annual shiploading capacity:	89 million tonnes (combined capacity of 64 mt at Kooragang and 25 mt at Carrington terminals)
Maximum shiploading rate:	10,500 tonnes per hour from each of the three shiploaders
Vessel size:	
Maximum LOA:	300 m (longer vessels can be accommodated if approved by NPC)
Maximum beam:	50 m
Capacity (min.):	40,000 dwt
Capacity (max.):	232,000 dwt
Depth at berth (low water, incl underkeel clearance):	16.5 m
Departure draft:	15.2 m plus tide, less allowance for underkeel clearance of 10% of draft.
Approach channel depth:	15.2 m (low water datum)
Number of berths:	Three
Number of shiploaders:	Three
Expansion plans:	<ul style="list-style-type: none">- Additional stockyard capacity- Additional rail receipt capacity- Additional shiploading capacity
Terminal:	PWCS - Carrington

Operator:	Port Waratah Coal Services Limited (PWCS)
Location:	Port Waratah Drive Carrington, NSW Lat. 32° 56' south Long. 151° 47' east
Annual shiploading capacity:	89 million tonnes (combined capacity of 64 mt at Kooragang and 25 mt at Carrington terminals)
Maximum shiploading rate:	2,500 tonnes from each of the two shiploaders
Vessel size:	
Maximum LOA:	290 m (total vessel length at the two berths is 540 m)
Maximum beam:	47 m
Capacity (min.):	20,000 dwt
Capacity (max.):	180,000 dwt
Depth at berth (low water, incl underkeel clearance):	16.5 m
Departure draft:	15.2 m plus tide, less underkeel clearance of 10% of draft
Approach channel depth:	15.2 m (low water datum)
Number of berths:	Two
Number of shiploaders:	Two
Expansion plans:	For the foreseeable future further expansion plans will take place at PWCS - Kooragang.

PORT KEMBLA

Terminal:	Port Kembla Coal Terminal
Operator:	Port Kembla Coal Terminal Limited
Location:	Inner Harbour (Port Kembla Road) Wollongong NSW 2500 Lat. 34° 28' south Long. 150° 54' east
Annual throughput capacity:	16 million tonnes
Shiploader Rate (tonnes per hour):	Coal berth - 6,600 tonnes per hour (design capacity) Products berth – 1,000 tonnes per hour
Vessel size:	
Maximum LOA:	Coal berth - 290 m Products berth – 230 m
Maximum beam:	Coal berth - 55 m Products berth – 35 m
Capacity (min.):	Coal berth - 25,000 dwt Products berth – 10,000 dwt
Capacity (max.):	Coal berth - 180,000 dwt Products berth – 70,000 dwt
Depth at berths (metres):	Coal berth - 16.25 m Products berth – 11.6 m
Departure draft (metres):	Coal berth - 15.25 m (plus tide at departure divided by 1.08) Products berth – 11.6 m plus tide minus 0.3 m
Approach channel (metres):	15.25 m plus tide, minus 1.37 m
Number of berths:	Two: Bulk products berth is used for

coke trade and other bulk materials.
Coal berth is the major coal export berth.

Number of shiploaders:

One on bulk products berth
Two on coal berth (only one operating at a time)

Improvement program:

Ongoing improvement program to ensure average vessel turnaround times remain below two days at the coal berth.

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