

Gladstone Australia's 21st Century Industrial City





A DECADE OF GROWTH, PROSPERITY, COMMUNITY

The Powerhouse of the Eastern Seaboard



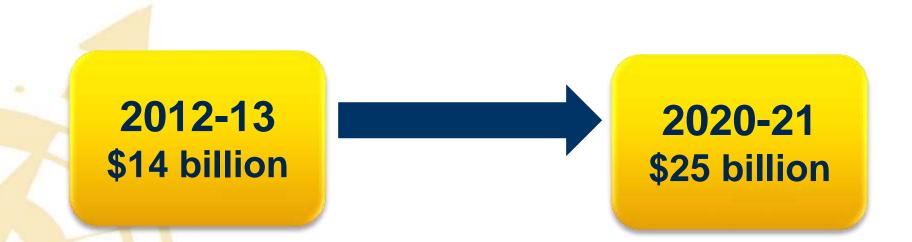
GLADSTONE INDUSTRY





PORT OF GLADSTONE

Value of Trade



20% of Australian coal, LNG, alumina and aluminium exports by value



THE FOUNDATION OF OUR SUSTAINABLE FUTURE

The Port of Gladstone The 28,500ha Gladstone State Development Area

Major economic infrastructure

- Rail and Road network
- Water Supply
- 4000MW of Coal Fired Power

Over 25 years of economic and environmental planning and research [\$225M]

Continuous airshed and harbour environs monitoring

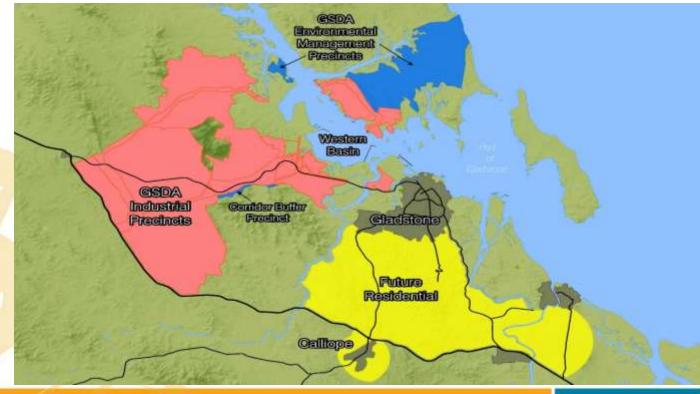
Major Community infrastructure





Building a Sustainable Future

Gladstone – a Sustainable Industrial City and Port





Port of Gladstone - 50 Year Strategic Plan

SATIONAL INFRASTRUCTURE PLAN

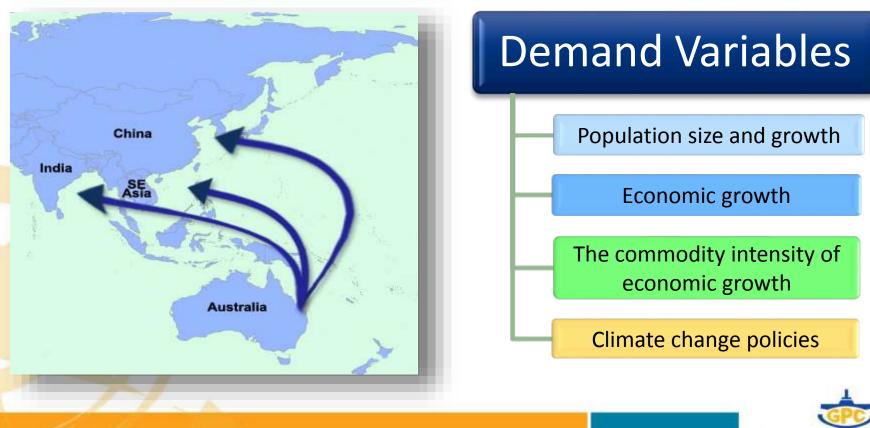
"Only the Port of Gladstone has a long-term plan in place"



Port of Gladstone - 50 Year Strategic Plan





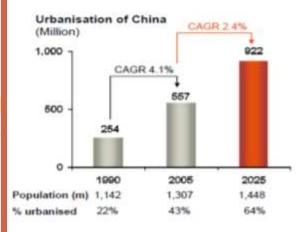


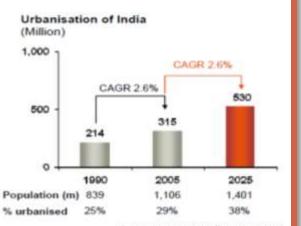
Gladstone Ports Corporation Growth, Prosperity, Community,

Projected Urbanisation

580 Million People

Urbanisation and Industrialisation Driving Chinese and Indian Energy Demand

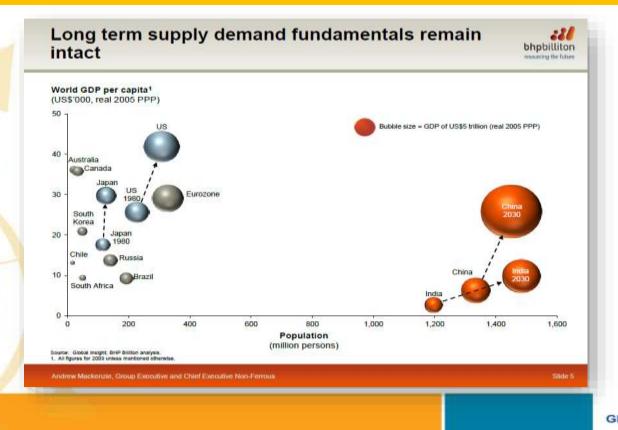




Source : McKinsey, 8HPBilliton presentation

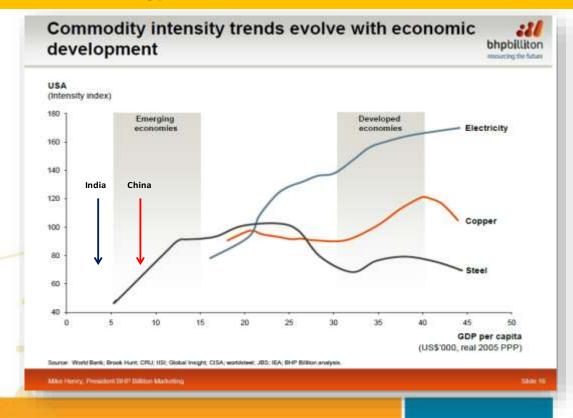


Strong Demand for Energy Resources





Strong Demand for Energy Resources





Port of Gladstone – Coal & LNG Exports – 2015-2020



Understanding the Coal Market

Global Coal Production (billion tonnes)	
2035	8.500
2015	7.709
1975	3.520

World Energy Consumption Forecast to increase by 34% 2015-2035

Top Hard Coal P	roducers (2015)
PR China	3527 Mt
USA	812 Mt
India	691 Mt
Australia	508 Mt
Indonesia	469 Mt

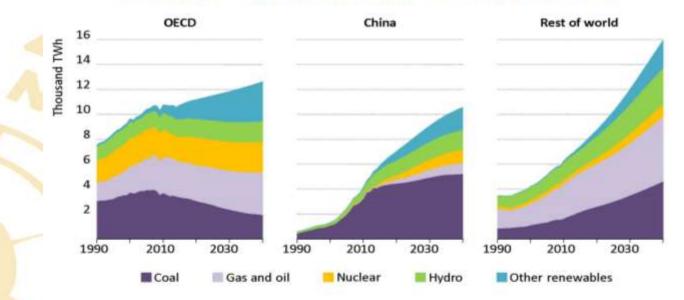
World Coal Export Market (2015)	
Thermal Coal	1002 Mt
Metallurgical Coal	299 Mt
Total	1301 Mt



Source: IEA / BP

Understanding the Energy Market

Electricity generation by source in the New Policies Scenario



But coal still important

Source: World Energy Outlook 2015



Metallurgical Coal Market

Top Met Coa	al Producers (2015)
PR China	611 Mt
Australia	191 Mt
Russia	78 Mt
USA	57 Mt
India	54 Mt

World Met Coal Exports	
Source	2015 <i>(Mt)</i>
Australia	188
USA	41
Canada	28
Russia	18
Other	24
World	299 Mt

Source: World Coal Association / IEA



Metallurgical Coal Market

Queensland controls OVER 60% of the World Traded Market of 300Mt pa (approx.)



	Asian Gas Demand (bcm)	
	2000	2021 (Forecast)
China	25	320
India	28	72
Rest of Asia	218	409
	271	801

World Gas demand is forecast to increase by 1.8% pa (2015 – 2035)

Source: IEA 2016; BP



	Port of Glad	stone
Trade Forecast		cast
	2015	2020
Coal	68.6 MT	→ 92 MT
LNG	1.6	→ 26.7
Aluminium Industry	24.0	26.7
Cement	1.7	1.4
Petroleum	1.4	1.5
Other	2.7	1.8
TOTAL	100 MT	150 MT





Gladstone Ports Corporation Growth Respectly, Community.

Building a Sustainable Environmental Gladston Fistu Corporation

Building on Two Decades of Harbour Health Monitoring

\$125 Million

1991 – 1994 Curtis Coast Resource Plan (Environmental Scan)	
1995 → Water Quali	ty Monitoring • Benthic testing – CQ University
1998 – 2005	 Contaminate pathways in Port Curtis a CRC Study in metals and dissolved metals in Gladstone harbour by CSIRO, University of Queensland and CQ University
2002 →Port Curtis I	ntegrated Monitoring Program (\$750,000pa) (Ecosystem Health Report Card) Water Monitoring Seagrass Monitoring No Sewerage effluent into Gladstone Harbour
2002 – 2005	Annual Seagrass Monitoring
2007 – 2010	Detailed testing of harbour environ for Western Basin Dredging Project and LNG projects marine studies
2011 – 2014	\$72M of monitoring, marine restoration, marine enhancement and research primarily in the Western Basin
2014 – 2018	\$17.5M Harbour Enhancement Project
2014	Gladstone Healthy Harbour Partnership



Port of Gladstone Harbour Enhancement Program



Port of Gladstone Harbour Enhancement Program Ecosystem Research and Monitoring Program (ERMP)

> 10 year program

Marine Megafauna

\$5M

\$2M Seagrasses – monthly monitoring

Overseen by the ERMP advisory panel appointed by the Commonwealth Environment Minister



Port of Gladstone Harbour Enhancement Program Ecosystem Research and Monitoring Program (ERMP)

Marine Fish Habitat Enhancement

5 year program, \$5 million, protection of 5330 hectares of land at Port Alma. Projects include reinstating hydrology, mangrove and salt marsh rehabilitation

Harbour Fish Habitat Enhancement

10 year program, \$5 million, projects include migration projects, marketing and marine debris tracking and surveying

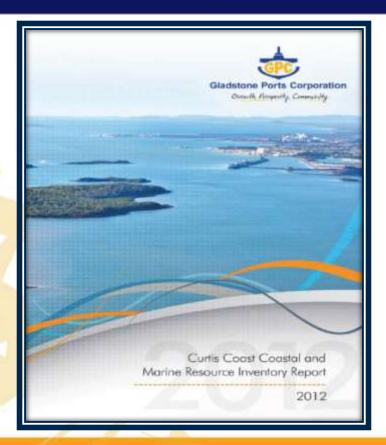


Port of Gladstone Harbour Enhancement Program Ecosystem Research and Monitoring Program (ERMP)

Marine and Coastal Biodiversity Offset Program

- Threatened species protection
- Habitat enhancement and restoration
 - Wetland rehabilitation
 - Strategic vessel management plan
- Support QPWS turtle recovery activities
- Funding to Council to improve stormwater management





REPORT SUMMARY

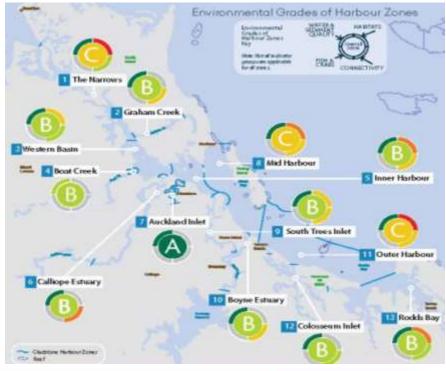
The cumulative impact of port development on the environs of the Port of Gladstone over the past 2 decades has been minor



The Great Barrier Reef Issue

Impact of Port Development on GBRMP

GBRMPA to conduct monitoring along Port boundary with Great Barrier Reef Marine Park





The Great Barrier Reef Issue

Impact of Increased Shipping

Reef VTS – Risk Mitigation



Continuous Airshed Monitoring



Source: KateStone Environmental Consultants





Gladstone Ports Corporation

Building a Sustainable Social Future

Historical Context



Marina Boat Ramp



Matthew Flinders Bridge



Spinnaker Park



Library Square

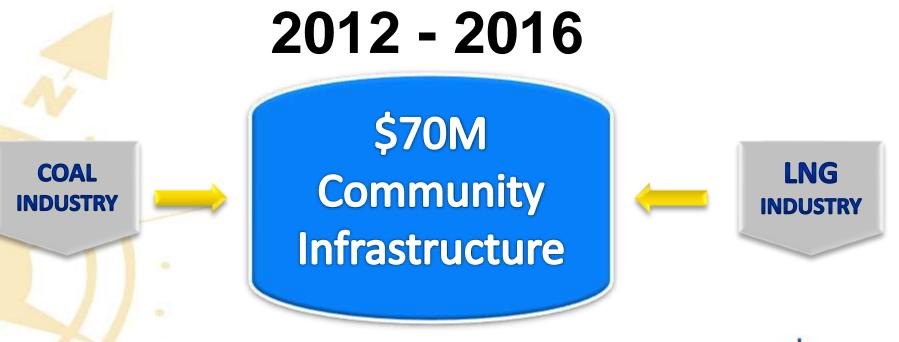


CQ University Site



Building a Sustainable Social Future

Build New Social Infrastructure





Building Future Social Infrastructure





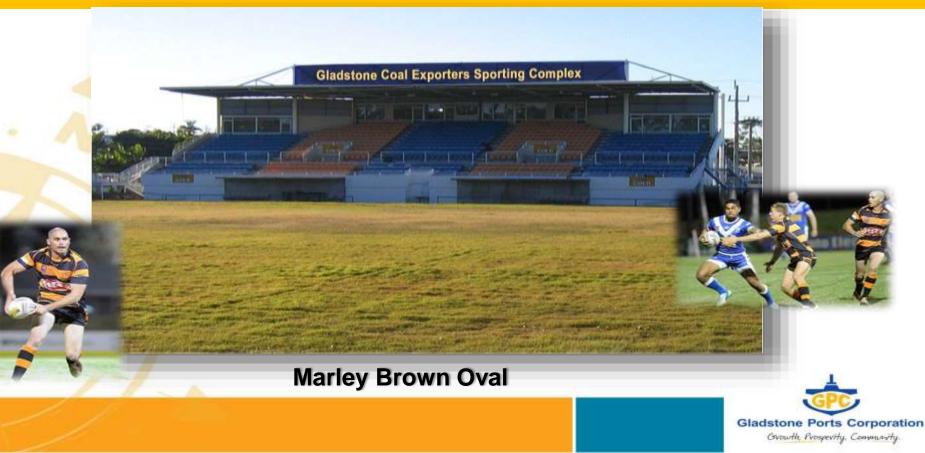
Auckland East Shore Stage 1

Auckland East Shore Stages 2 and 3



Building a Sustainable Social Future

Historical Context



Building Future Social Infrastructure

New Social Infrastructure



Office and Entertainment Centre Development

Themsde

Gladstone Entertainment Centre

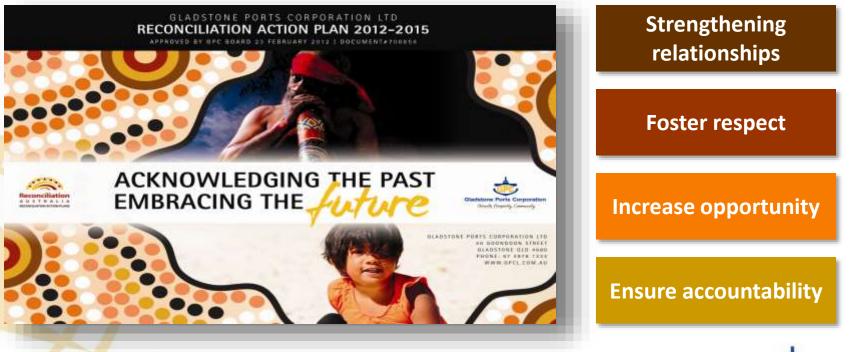






Building a Sustainable Social Future

Reconciliation Action Plan





Building a Sustainable Social Future

Native Title Land Use Agreement – 35 Year Agreement









Underpinning the Sustainable Development of Central Queensland