

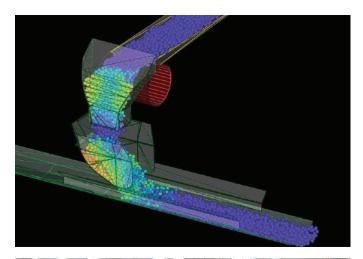
Projects & Systems Capability Statement

Our Capabilities

NEPEAN Conveyors are a wholly Australian owned company specialising in the design, in-house manufacturing, installation and servicing of overland, underground and surface belt conveyor products, systems and bulk materials handling projects for over 30 years. NEPEAN Conveyors has forged a solid reputation for robust, practical and reliable designs and quality manufactured equipment. NEPEAN Conveyors has become the leading technology provider for bulk materials handling.

- Engineering from concept, through to detailed design and drafting
- Global sourcing, supply and in-house manufacture: (mechanical, structural, process and electrical)
- Flexible engagement: eg. Financing, EPC (D+C) Contracts
- **Performance Warranty:** Single point accountability (all disciplines)
- Installation and Commissioning
- Sustainable technology: eg. VVVF energy optimised systems; Modular construction for scalable packaged solutions
- PMBOK accredited Project Managers
- Life Cycle Services: Audits, Optimisation Studies, Spares, After Sales Service and Training.



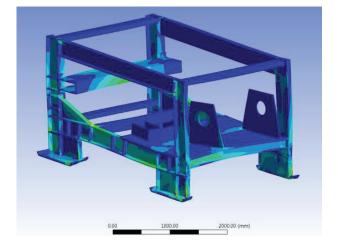






When dealing with NEPEAN Conveyors for conveying systems or individual component supply you gain access to:

- In-house specialist conveyor and materials handling designers (mechanical, process, civil/structural, electrical).
- OEM support for Order of Magnitude studies through Prefeasibility studies and Bankable studies.
- Modern in-house manufacturing.
- Full life cycle support.
- Global sourcing.
- Single point accountability for your materials handling project.
- Downhill regenerative braking conveyors.
- Truck and rail loading and unloading stations.
- Feeders / Sizers / Crushing stations.
- Transfer stations / Material placement solutions / Port infrastructure.
- Overburden removal/ Tailings transfer systems.
- Power distribution and supply to 130kV. earthing / switchgear/ protection systems.
- Complete drift, trunk, maingate and development solutions.
- Splitters, belt winders, clamping stations, belt maintenance stations.
- Hazardous area systems e.g. hazardous area Exd solutions.
- Functional safety systems to SIL2 and SIL3.
- Control system design and functional specification design.
- Conveyor drives VVVF, CST, BOSS fluid coupling.
- Loop take up and belt storage units.
- Constant tension winches Vector, eddy-current, hydraulic, electromechanical.
- Jiffy/ Nifty/ Hefty Combination Relocatable Development Drives.
- Class A approved workshop for Exd equipment manufacture and overhaul.
- Extensive software design tools (CATIA, X-steel/Tekla, MicroStran, Autodesk Inventor).
- In-house pulley design and manufacture, deadshaft/liveshaft, various types of lagging.
- In-house idler design and manufacture including plastic and aluminium alternatives.
- Comprehensive mechanical design facility e.g. DEM + FEA modelling.



- 1200+ employees
- Industry leading world class LTIFR
- > 80,000m² manufacturing/ fabrication facility
- NEPEAN operates in the USA, Canada, Europe,
 Middle East, Africa, Asia, New Zealand and Australia
- Strong balance sheet backed with significant fixed assets
- One of Australia's largest privately held engineering businesses

Yancoal: Moolarben - New Coal Clearance System

Owner: Yancoal Project Type: Turnkey Completion: Current Value: \$50M

Scope: The project consists of an 1800mm wide

Drift Conveyor 3km, an 1800mm underground Trunk Conveyor .75km, complete with three 1600mm wide.



Newcrest: Cadia - Conveyor 1 to Conveyor 2 upgrade

Owner: Newcrest
Project Type: Turnkey
Completion: Current
Value: \$8M

Scope: 3 x 1200mm elevated overland

conveyors 650m / 1300 tph.



BHP: Appin Area 9 - Coal Clearance System

Owner: BHP
Project Type: Turnkey
Completion: 2014
Value: \$40M

Scope: Design, manufacture and supply of four

underground conveyor systems.

An underground 'sizing & splitter transfer station' capable of joining three existing coal mines and enabling coal divergence



from Mine A to either the coal preparation plant of Mine B via the Mine B conveyor clearance system and winder, or the Mine C coal clearance system and drift conveyor. Project managed as a complete package with NEPEAN Conveyors. Supplied all pulleys, belt magnets and conveyor drives for the complete coal clearance system. 7 km trunk belt.

Idemitsu Boggabri Coal: Coal Terminal Upgrade

Owner: Idemitsu Resources Australia

Project Type: Turnkey – Fixed Price Design and Construct

Timing: 2010 Value: \$15M

Scope: Design and construct 1500tph stockpiling system including: conveyors, radial

stacker, feeders, unloading station, loadout station, roadways, HV substation

with PF correction, control system, dust control, earthworks.

Ramp conveyor included covered gallery discharging onto 20,000m³ ROM coal stockpile. Project included civil design of footings and slabs and reduced speed conveying operation during development phase of operation.



Above: Overview of the BCTU site



Above: Completed BCTU works showing CV02, CV03 and CV04 stacker conveyor in operation

Atlas Iron: Port Hedland Utah Point Expansion to 15mtpa

Owner: Atlas Iron
Project Type: Turnkey
Completion: 2013
Value: \$15M

Scope: Major plant expansion consisting of overland transport conveyor



Atlas Iron - Port Headland Utah Point Expansion

Vale: Carborough Downs: ROM Stockpile Conveyor + Underground Coal Clearance

System

Owner: AMCL (now Vale)
Project Type: Design + Construct

Completion: 2006 Value: \$25M

Scope: Design and supply entire coal clearance system on greenfield site, including:

2500tph 1200mm ramp conveyor / cross conveyor / eastern mains conveyor.

Development phase =1600tph. Full production =2500tph

Ramp conveyor included covered gallery discharging onto 20,000m³ ROM coal stockpile. Project included civil design of footings and slabs and reduced speed conveying operation during development phase of operation.





KMG: Ridges Iron Ore: Wyndham Barge Loading Facility

Owner: Kimberley Metals Group

Project Type: Design, Supply, Install, Commission

Completion: 2011 Value: \$15M

Scope: Design, supply, installation assistance package for greenfield 1755tph barge

loading facility site, incorporating: jetty overland conveyor, pivot conveyor,

substation and control system

Significant design criteria: The pivot conveyor was particularly challenging, with the head end positioned on a pontoon capable of moving significantly in all directions, loading into a rotating hopper and having to accommodate an 8.5m tidal range and withstand cyclonic wind conditions.

Design of the CV01 jetty conveyor was also very challenging in terms of the footing design for intertidal zone land and the over-water area. Management of differential settlement was paramount in ensuring system performance did not erode due to environmental conditions.



Above: KMG aerial photo of site showing overland/ overwater conveyor installed over intertidal waters (differential settlement a key design parameter)



Above: KMG overland/overwater CV01 jetty conveyor





Above: Ore is loaded onto barges via the Telestacker, which is mounted on the pontoon at the head end of CV02. These are then towed 1.2km to waiting ships in the Cambridge Gulf for delivery to Sinters' markets in China.

Anglocoal: Kayuga Mine: KD01 Trunk Conveyor

Owner: Anglocoal Australia

Project Type: Turnkey (Design + Construct)

Completion: June 2004

Value: \$8M

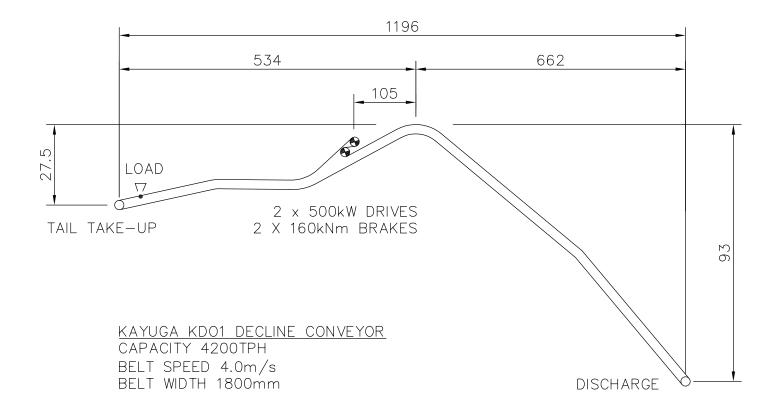
Scope: Design and supply 4200tph 1800mm trunk conveyor for new mine -

incorporating 500kW VVVF drives, regeneration system, 160kNm dynamic

brakes, 11kV/415VAC substation starter

'One of the most technically challenging conveyor design projects undertaken in Australia'

The uphill/downhill configuration (inverted boomerang profile) means conveyor power demand varied from -800kW (ie regenerative) to +400kW when loaded on uphill sections only. Due to high risk of damage to plant and risk to safety of personnel in the event of brake failure under any conditions (including power-loss), multiple redundancies were designed into the operation and control of the braking systems to ensure controlled braking under any circumstance. Commissioning included deliberately flooding the conveyor under a worst case load profile, then dropping power to the substation to mimic a power-loss condition under extreme loads, with one of the brakes disabled.



Whitehaven Coal: Narrabri Coal Drift and Skyline Conveyor System

Whitehaven Coal Owner:

Project Type: Turnkey (PFS Development through to Design + Construct)

Completion: 2010 Value: \$20M

Scope: Turnkey design and construct package for greenfield 3600tph system,

> including: drift conveyor, skyline tripper stockpile conveyor 11kV/690V/415V electrical substation and switchroom installation, commissioning and training

packages

The drift conveyor was designed to be functional firstly as a drift development conveyor with a sacrificial belt and installation of 2 x 1000kW VVVF drives, and once tunnelling by the roadheader is completed to the coal seam, the conveyor shall be reconfigured for production by adding a third 1000kW drive, supplying a tail take-up system and pulling on the steel cord belt.

Stockpiling of ROM coal is via a travelling tripper mounted on an elevated gantry structure with 30m. spans and walkways fitted on both sides. Stockpile height was limited by the mine development application and approval, and thus the client sought to maximise the live stockpile area provided by the conveyor system. Rail clamps provide security against unwanted movement of the travelling tripper, which discharges either side of the gantry.



Above: Drift and skyline conveyors



Above: Skyline conveyor with tripper in operation and stockpile conveyor

For more information:

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NEPEAN CONVEYORS ARE AUSTRALIA'S MARKET LEADER

Majority of Australian underground coal mines have invested in NEPEAN equipment. NEPEAN Conveyors is the large scale mining conveyor project arm of NEPEAN Mining, a division of NEPEAN, Australia's largest privately owned engineering, mining services and industrial manufacturing organisation. NEPEAN Conveyors, NEPEAN Power and NEPEAN Longwall provide an extensive portfolio of products and services to independently deliver unique, high quality results or when united, NEPEAN offers a one stop mining solution.

WITH MORE LOCATIONS, WE'RE NEVER FAR AWAY

We design and manufacture in multiple locations around Australia and South Africa. We are strategically located close to major mining areas so we can service our coal, iron ore, hard-rock and port customers.

