



Oil and gas is big business in Western Australia. Photo courtesy of BHP.

Oil and gas companies cluster at the AMC

Two of the biggest names in the oil and gas industry have signed up to take advantage of the new land available at the Australian Marine Complex (AMC).

The AMC Subsea Cluster is close to capacity with FMC Technologies confirming they will call the cluster home and Chevron Australia moving in right next door.

Western Trade Coast Business Manager Bill Adlam said interest in the Subsea Cluster was red hot following a remarkable year for the Western Australian oil and gas sector with strong growth due to the continued demand from some of the State's major trading partners (see page 3).

With several major offshore oil and gas projects in the pipeline off the coast of the State, the Subsea Cluster is answering the need for a locally-based subsea service and supply destination that can cater for the South East Asia-Pacific region.

Located next to the Common User Facility (CUF), the AMC Subsea

Cluster is a 20 hectare serviced area specifically suited to the requirements of the subsea oil and gas industry.

Department of Commerce General Manager of Marine, Defence and Resource Services John O'Hare said clustering companies together would help the long-term development of the sector.

"The AMC Subsea Cluster will enable companies to take advantage of the rapidly expanding local and Asia-Pacific subsea industry by creating a strategic network of service and supply capabilities for the oil and gas industry," Mr O'Hare said.

Chevron Australia will continue its relationship with the AMC and take up land next to the Subsea Cluster on the northern side of Quill Way.

The four hectares of land will primarily be used for laydown, office accommodation and quarantine activities with access to a roll-on/roll-off berth in support of the Chevron-operated Gorgon Project.

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Engineering excellence



(L-R) Department of Commerce's Brett Chisholm, LandCorp's Mark Pasalich and Governor of Western Australia Dr Ken Michael AC.

The Australian Marine Complex (AMC) floating dock has won the Infrastructure and Building category at the 2009 WA Engineering Excellence Awards.

The \$60 million project, built by AMC-based shipbuilder Strategic Marine, was recognised for its exceptional engineering standards and contribution to Western Australia's economy.

Measuring 99 metres x 53 metres, the dock will lift vessels up to 12,000 tonnes out of the water for service and maintenance, and its many applications will add significant value to the State's industry base.

Minister's foreword

I recently made my first visit to the Australian Marine Complex (AMC) and it is easy to see how the complex has become an important marine engineering facility for the Asia-Pacific region.

I had already heard about the AMC but I wanted to view its success first-hand.

So on one of the windiest days in winter my hosts Richard Clark and Jonathan Smith from AMC Management (WA) Pty Ltd took me on a tour of the AMC Common User Facility (CUF).

The AMC-CUF's strong capabilities and infrastructure make it a key economic development tool, an enabler to attract significant fabrication projects to Western Australia. The common use model has proved so successful that other States have established, or propose to establish, similar common use infrastructure facilities.

After my tour of the CUF, I met with some of the key companies located in the complex including ASC Pty Ltd, Austal Ships, Strategic Marine and AGC.

I was very pleased to see the impressive products and services of these world-class organisations and to hear their plans for the future.

ASC Pty Ltd's Acting Managing Director Graeme Bulmer and General Manager of WA Operations Mike Poynter proudly took me on a tour of ASC's impressive facility.

And what a facility! The capability to support the Collins Class submarines in the West is now located in this purpose built facility at the AMC. The \$35 million investment by ASC will enable the vessels to be serviced and maintained undercover, something that has been lacking to date.

This facility will also assist ASC to meet the Defence Materiel Organisation's requirements and will greatly assist in growing the skills base to support the vessels right here in the West.

Riding on a wave of successive contract wins Austal Ships Executive Chairman John Rothwell and Managing Director Bob Browning sat down to chat with me about Austal's future plans.

Both gentlemen, leaders in lightweight high speed ship construction, outlined some of the opportunities they see coming over the next decade. Austal's growth and market share is a great reflection on this iconic brand and I believe their presence in the AMC greatly assists in marketing the capability of industries located in the complex.

I am sure most *AMC News* readers are aware that Strategic Marine is currently building Western Australia's floating dock. I met with the company's Chairman Mark Newbold and Managing Director Mark Schiller. The floating dock is a significant and exciting project for the State and its construction is a real credit to this AMC-based company. Their plans for the future are just as exciting and I was keen to learn how the State Government could assist in their endeavours.

My visit to the AMC concluded by meeting John Sheridan, Managing Director of one of the State's key manufacturing and construction companies, AGC.



I was very interested to learn about how useful the infrastructure at the CUF was for key fabricators. It was very pleasing to hear about examples of how this government-owned infrastructure has played a critical role in winning projects for local manufacturers. This meeting made it clear that the infrastructure at the CUF is assisting fabricators to compete for larger and more complex projects.

I am currently addressing a number of issues that were raised in these meetings to ensure these great companies continue to invest and grow with the AMC. The AMC is fortunate to have companies of this calibre located in the complex and I am sure that we will see their current and future plans continue to bring more opportunities to the AMC.

This will not be my last visit to the AMC and next time I hope to meet with more of the great companies that help to make the AMC so successful.

Thank you and I hope you enjoy this edition of *AMC News*.

The Hon Troy Buswell MLA
Minister for Commerce



Minister Buswell tours the CUF with AMC Management WA Pty Ltd's Jonathan Smith and Richard Clark.

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Oil and gas big business in Western Australia

The world's economy has suffered some major setbacks in the last year but there is one industry that has remained relatively untouched and against all odds continues to grow, especially in Western Australia.

The steady demand for oil and gas, or petroleum, has guided this growth with present figures estimating that it accounts for more than 50 per cent of Australia's primary energy needs. As the future demand for reliable, secure and competitively priced energy increases, the world will look to investigate relatively unexplored regions with low sovereign risk. In this regard, Western Australia offers great opportunities.

In 2008, Western Australia's petroleum industry grew in value by 33 per cent to \$22.3 billion. The industry now accounts for 71 per cent of gas and 66 per cent of oil and condensate production nationally.

Mines and Petroleum Minister Norman Moore said the continued strength of WA's resources industry in the face of the global economic crisis would help to insulate the State against the worst effects of the situation.

The positive trend for the oil and gas industry looks set to continue in Western Australia. A number of major offshore oil and gas projects are in planning or already underway, including two LNG trains for Woodside's Pluto project; Chevron, Shell and ExxonMobil's Gorgon Project; the Northwest Shelf; Inpex's Ichthys; Woodside's joint venture Browse Project; and Sunrise developments.

It is estimated that projected expenditure for major gas-related projects in Western Australia will exceed \$148 billion in the coming five years, rapidly expanding the State's natural gas exporting capability.

APPEA Chief Executive Belinda Robinson recently said one of the great advantages Australia has over mature oil producing regions is that only about 20 per cent of Australia's 50 potential petroleum provinces have been explored.

This figure provides great opportunities for future exploration in Western Australia. It also highlights the growing importance of subsea and LNG engineering. Companies in the Australian Marine Complex are perfectly placed to take advantage.

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Oil and gas companies cluster at the AMC

The site will be used to receive deliveries from suppliers before being transferred to Chevron Australia's new service and supply base at the CUF.

By using common-user marine facilities to deliver equipment by sea, Gorgon and other projects will be able to reduce the volume of road transport between Perth and the North-West.

FMC Technologies will also join Chevron Australia at the AMC Subsea Cluster.

FMC Technologies is a leading manufacturer and supplier of subsea production systems, including subsea trees, controls and manifold and tie-in systems.

While FMC's new facility is being completed the company will be stationed in Building 2 at the CUF.

Project Name	Operator	Product	Estimated total Expenditure
DBNGP expansion - Stage 5B	W.A. Nominees	Gas	\$700 M
DBNGP expansion - Stage 5C	W.A. Nominees	Gas	\$800 M
Great Northern Pipeline	ARC Energy	Gas	-
Neerabup Gas Pipeline	ERM	Gas	\$65 M
Pilbara Gas to Liquids (GTL)	Sasol Chevron	Gas	-
Browse LNG (Brecknock & Scott Reef 2 trains)	Woodside	Gas	\$20,000 M
Gorgon CO2 sequestration project	Chevron	Gas	-
Greater Gorgon area offshore (including Jansz-Io)	Chevron/Exxon Mobil	Gas	\$37,333 M
Ichthys gas	Inpex	Gas & Condensate	\$10,750 M
NWS 6th LNG Train	Woodside	Gas	\$27,000 M
NWS LNG 6th onshore stabiliser	Woodside	Gas	\$100 M
Pilbara LNG	BHP Billiton/Exxon	Gas	\$5,000 M
Pluto project (train 1)	Woodside	Gas	\$12,000 M
Pluto project (train 2)	Woodside	Gas	-
Prelude	Shell	Gas	\$2,300 M
Scarborough gas field	BHP Billiton/Exxon	Gas	-
Wheatstone / Iago (Carnarvon Basin LNG)	Chevron	Gas	\$20,800 M
Blacktip	ENI Australia	Gas	\$623 M
Greater Goodwyn (Western Flank Gas project)	Woodside	Gas	-
Halyard	Apache Energy	Gas	\$129 M
Reindeer / Caribou (Devil Creek) (Phase 1)	Apache Energy	Gas	\$800 M
Julimar (Devil Creek) (Phase 2)	Apache Energy	Gas	\$1,685 M
Macedon	BHP Billiton	Gas	\$1,500 M
North Rankin 'B' field life extension (incl NR2 & NRA)	Woodside	Gas	\$5,000 M
Perseus Phase 1c (North Rankin Platform)	Woodside	Gas	\$800 M
Tern-Petrel Gasfield	Santos	Gas	\$1,000 M
Warro	Latent	Gas	\$300 M
Wilcox	Woodside	Gas & Condensate	\$150 M
PROJECTED TOTAL GAS-RELATED PROJECT EXPENDITURE IN WESTERN AUSTRALIA.			Estimate \$148,835,000,000

The estimated projected expenditure for major gas-related projects in Western Australia. Data has been provided by the WA Department of Mines and Petroleum.

WA technology revolutionises surveillance



In an Australian first, a locally-made aircraft took to the skies from the Common User Facility to demonstrate the latest capabilities in surveillance technology.

Developed by Bibra Lake-based Cyber Technology, the Cyber Eye 2 Unmanned Aerial Vehicle (UAV) is a remotely piloted aircraft that integrates a collection of WA-designed surveillance technology.

Cyber Eye 2, also described as an *eye in the sky*, is ideal for a number of commercial applications including border protection, surveillance of illegal fishing, people smuggling, drug trafficking and bush fires, search and rescue and environmental pollution identification.

UAVs or drones, are remotely piloted aircrafts that are typically controlled from a remote location or pre-programmed to fly autonomously. The Cyber Eye 2 has a seven metre wing span, can fly at speeds of up to 160 kilometres per hour and has 10 hours of flight time.

Operational Solutions Management BronzeSky Director Eric Pearson said he brought the technologies together to showcase WA's technical expertise to the rest of the world.

"The Cyber Eye 2 UAV has been designed to incorporate a number of practical applications that have been created in Australia," Mr Pearson said.

"The current financial crisis had made it difficult to capture separate markets for the technologies, so when the idea to pair the technologies with the UAV was presented, it opened up more opportunities."

The demonstration featured several very different scenarios to display the aircraft's versatility on its first mission over Rottnest Island and Fremantle.

One of the technologies on display, with particular relevance to the marine industry, was the Mobilarm V100 VPIRB or Man Over Board system. Once

activated, Mobilarm transmits a mayday distress alert and real-time GPS position of the person in the water to all VHF marine radios within range for the quickest rescue possible.

Mr Pearson said international and local demand for the aircrafts had been strong.

"Malaysia and Thailand have both bought three of the aircraft and at least 20 orders have been received from other countries since the Cyber Eye's debut," he said.

"The current economic climate favours the collaborative approach we've taken in developing the Cyber Eye."

Cyber Eye 2 was developed by Operational Solutions Management, Cyber Technology, Tacronics Australasia, ETCORP, Mobilarm and BronzeSky.

"..when the idea to pair the technologies with the UAV was presented, it opened up more opportunities."



The Cyber Eye 2 gets ready to take off from the CUF.

Navantia visits the AMC

One of the largest military shipbuilding companies in Europe, Navantia SA, recently returned to Perth on a reconnaissance mission to meet with some of the shipbuilders located at the Australian Marine Complex (AMC).

In 2007, Navantia was selected by the Federal Government as the major subcontractor to Tenix Defence, now BAE Systems Australia, to build two Landing Helicopter Docks (LHDs) for the Royal Australian Navy and design three Air Warfare Destroyers (AWD) for the AWD Alliance.

Based in Spain and owned by the Spanish Government, the Navantia team were taken on a comprehensive tour of the Common User Facility including the floating dock by AMC Management (WA) Pty Ltd and the State Government.

Representatives of the Spanish shipbuilder also visited a number of Western Australian-based shipbuilders to discuss the opportunity of building some or all of the LHD Landing Craft in Australia.

Navantia's Canberra-based representative Dr Jeremy Ranicar said the Navantia team were very impressed with the CUF and its management.

"The AMC clearly has a critical mass of shipbuilders, suppliers and supporting industry that is entirely capable of building the LHD Landing Craft," Dr Ranicar said.

"Based on results of the current, competitive tendering process the final decision on where the Landing Craft will be built, and by which company or companies, will be made by the Federal Government in 2010."

Navantia's Fene-Ferrol shipyard in the north west of Spain officially started construction of the Australian Navy's first LHD in September last year.

What is an LHD?

LHDs are used by navies throughout the world as amphibious landing ships, helicopter carriers, and floating headquarters. They contain medical facilities for humanitarian assistance, launching pads for Unmanned Aerial Vehicles and helicopters.

The two LHDs being built for the Australian Navy will be 231 metres in length, with a 990 square metre hangar, a 1165 square metre dock, a 4750 square metre flight deck and have 3290 square metres of garage space. The vessels will be able to carry more than 1000 military personnel, 243 crew members and will have a top speed of 20.5 knots.



Navantia has begun to construct the Australian Navy's first LHD.

First impressions count

The Consul General of the United States Dr Kenneth Chern recently took time out of his busy schedule to visit the Australian Marine Complex (AMC).

Western Australia's US representative was very impressed by the facility as a whole but took a keen interest in the floating dock.

Dr Chern said the breadth of sectors the facility supported was very impressive.

"I had a thorough, highly informative, and enjoyable briefing on the AMC and the Common User Facility," Dr Chern said.

"I was especially impressed by the floating dock that is currently being constructed.

"At 44 metres wide, the dock will be capable of accommodating ships close to the size of aircraft carriers, and perhaps assist to build them in the future."



AMC Management (WA) Pty Ltd's floating dock manager, Mike Bailey, shows Dr Chern WA's floating dock on his first visit to the AMC.

Pre-assembled conference

The third International Modular Construction and Pre-Assembled Fabrication Conference is back for another year.

Australia's only event dedicated to engineering, manufacturing, production and transportation of pre-assembled modules will take place on the 17-19 November at the Novotel Langley, Perth.

At the conference you will hear how businesses are using pre-assembly to improve construction projects by reducing labour and supply issues and minimising on site congestion and planning concerns.

For more information and to register contact (02) 9080 4090 or visit www.iir.com.au/modular

Common User Facility update



The subsea infrastructure for Woodside's Enfield project.



MY Silver Zwei which was built and launched at the CUF.



One of the tanks that will be used at Alcoa's Alumina Refinery.



Triton alongside at the CUF's Eastern Wharf.

On the laydown

Linkweld Engineering recently utilised one hectare of fully serviced laydown area at the CUF for an offshore fabrication project. Managed by Technip and Subsea 7 Inc, the project involved the post-metrology assembly of a large subsea water injection spool piece and its transport/deployment cradle for Woodside's Enfield project.

Fabrication was completed in early August and the spool was transported to the field on a specially designed cradle before being installed.

The facility's laydown area provided Linkweld Engineering with the space and services to efficiently fabricate and transport the spools, maximising the dimensions of the cradle without the need for public road transport.

Insulation

ISF Contracting is utilising the CUF to undertake final insulation of the three eight-metre diameter tanks.

The tanks will be used as flash vessels and form an integral part of the pressure reducing system in Alcoa's alumina refining process operations.

Another example of the flexibility and versatility of the facility is the conversion of a 300 square metre area of hardstand to completely seal the operational area and facilitate the containment of materials in compliance with the AMC-CUF environmental management plan.

Easy access

The CUF has two new access towers to service increasing numbers of vessels and large modules on the

hardstand and within the soon to be completed floating dock.

The portable towers are 13 metres high and provide access to vessels and modules at several levels.

As with all facilities and services at the facility, the towers are available for any project undertaken.

New office space at the CUF

FMC Technologies has moved into the newly refurbished Building 2 at the CUF. Over 15 days, Birch Group converted Building 2 into 36 permanent office spaces while retaining a 60 person mess hall for use by Royal Australian Navy crews.

FMC Technologies has leased this office space until its new premises within the AMC Subsea Cluster is complete. The space has been designed to convert

Common User Facility update



The two access towers are ready for use at the CUF.

easily into two office areas with separate entries, providing future opportunities for two separate businesses to operate from the one premise.

Plant infrastructure

Monodelphous Engineering and Bechtel Australia are using two hectares of the CUF's serviced laydown area to fabricate a range of plant infrastructure including conveyor systems.

The work, which will be ongoing for the next 12 to 18 months, forms part of the \$1.5 billion upgrade to BHP Billiton's Worsley Alumina refinery. When completed, the equipment will be transported by road to the Worsley refinery near Collie in the South West.

The CUF is increasingly utilised for infrastructure and capital works projects that require the space, services, security

and flexibility of lease agreements over a long project period.

MY Silver Zwei in-dock

Hanseatic Marine, which manufactures custom aluminium superyachts at the AMC, recently launched the Motor Yacht MY Silver Zwei at the CUF.

The 73.3 metre vessel is the sister ship to MY Silver which was built and launched at the CUF in 2007.

Launched in early August, the vessel will remain berthed at the CUF while sea trials and systems testing are completed prior to her departure for the Maldives later this year.

Berth of the Triton

In May, the Australian Customs Service vessel ACV Triton dropped into the CUF to berth at the Eastern Wharf.

The vessel underwent a six week in-water maintenance program including the replacement of engines and repainting of the hull and superstructure.

Owned by Gardline Marine Sciences Limited, the trimaran vessel – a former prototype British warship demonstrator – is one of the Australian Customs Service's fleet of patrol vessels operating in Australia's northern waters.

The project was managed by Gardline utilising the open access structure of the facility to engage and manage selected teams of suppliers and sub-contractors.

While at the CUF, Triton shared berthing facilities with larger cousins, ANZAC frigates HMAS Arunta and Perth, which were all undergoing routine maintenance and upgrade work.

ATOM get down to business

With years bring experience and that's not all the Australian Marine Complex's (AMC) newest addition has to offer.

For more than 30 years ATOM Supply has been supplying industrial and engineering consumable products to the oil and gas and mining construction industries.

Helped by the strength of the oil and gas industry, the last three years has seen ATOM Supply expand from two offices to six including the brand new location at the AMC.

From the humble beginnings of a small business catering specifically for the oil and gas industry, ATOM Supply has grown into a truly consolidated company with a strong reputation as a supplier of choice.

The company identified a need for a dedicated product supplier in the Henderson area and the AMC was the obvious choice.

The move will allow the company to tap into new industries including marine and boat building as well as expand its significant oil and gas contacts.

ATOM Supply aims to provide customers with a complete range of industrial, consumable and maintenance products. They have established long term relationships with key customers because of the personal interaction they offer.

With a reputation as a one-stop-shop, ATOM Supply offers a complete range of facility maintenance products from more than 600 suppliers and has access to 400,000 product lines. Product categories include safety, welding equipment, hand tools, power tools, lifting/rigging, abrasives, fasteners, hose and fittings, pipe/valves, janitorial, lubes/compounds, gauges, oil field products and cutting and threading.

To make it easy for customers, ATOM provides a number of avenues to purchase products including an extensive product catalogue, CD and an e-commerce solution to be released later in the year.

ATOM Supply also has offices in Welshpool, Karratha, Geraldton, Darwin and Kalgoorlie.

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Promote your company in the AMC News

The AMC News is received by more than 2000 readers including other businesses within the AMC, key industry representatives from many organisations, local councils and the media. This newsletter is a great way to promote your business and the new ventures at the AMC. In each issue we profile different companies within the Shipbuilding, Fabrication, Technology and Support Industry Precincts as well as Common User Facility activities.

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