

8 December 2011

The Manager Company Announcements Office Australian Securities Exchange

Dear Sir,

#### Wesfarmers Chemicals, Energy and Fertilisers Investor Site Tour

The following presentation is to be given at a Wesfarmers Chemicals, Energy and Fertilisers Investor Site Tour on 8 December 2011.

Yours faithfully,

L J KENYON COMPANY SECRETARY

# Wesfarmers Chemicals, Energy & Fertilisers Investor Site Tour

8 December, 2011





## Agenda

Item		Presenter	Time
1	Introduction	Tom O'Leary, Managing Director	11.00
2	Chemicals	Ian Hansen, CEO Chemicals	11.30
3	Fertilisers	Darryl Dent, GM Fertilisers	12.00
4	Kleenheat Gas	Graham Smith, GM Kleenheat Gas	12.30
	Q&A		13.00
	Lunch		13.15
	Safety Briefing		13.45
	CSBP Tour (Group 1), KHG Tour (Group 2)		14.00
	CSBP Tour (Group 2), KHG Tour (Group 1)		15.00
	Afternoon Tea		16.00
5	AN3 Update	Ross Martelli, GM Technical Services	16.15
6	Carbon Pricing Update	Julian Andrews, GM Business Development	16.30
7	Conclusion / Q&A	All Presenters	16.45

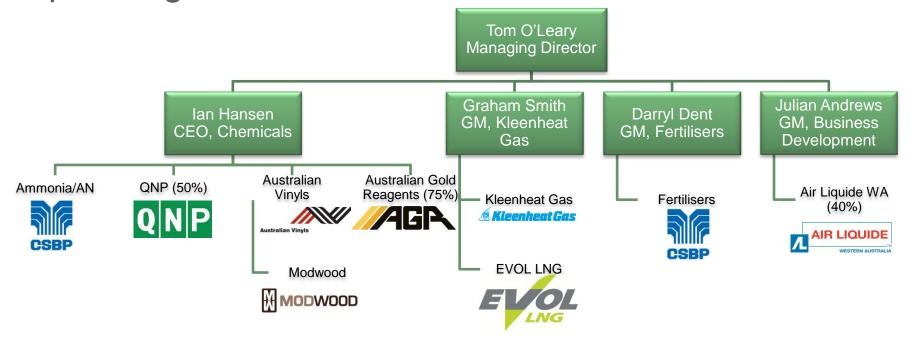
# 1. Introduction

Tom O'Leary Managing Director, WesCEF





## WesCEF Organisational Structure Operating Businesses











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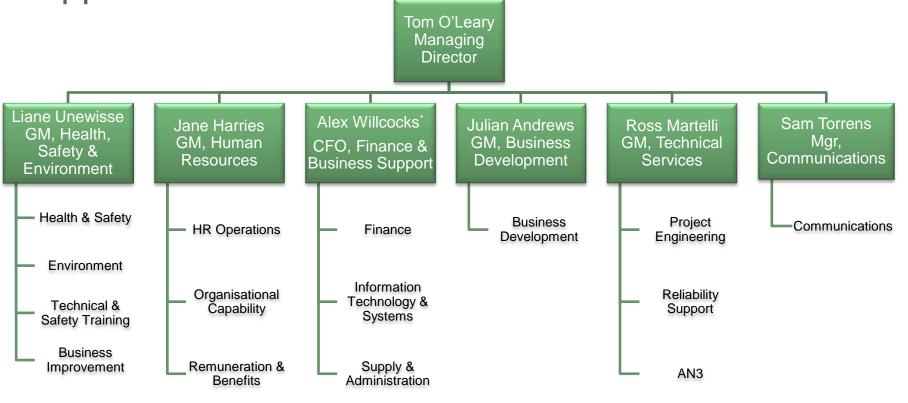








## WesCEF Organisational Structure Support Functions



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Kleenheat Gas

\* Tanya Rybarczyk is on maternity leave



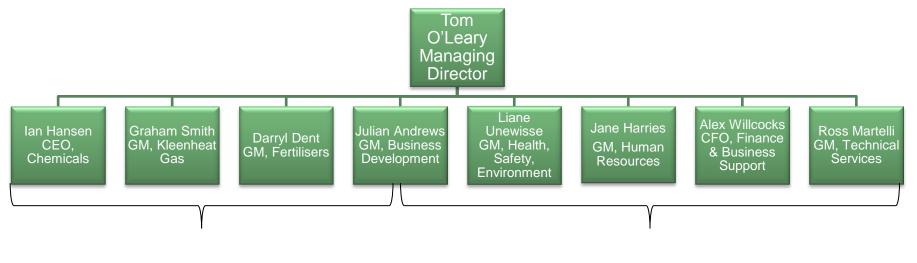








## WesCEF Leadership Team



**Business Units** 

#### **Support Functions**









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#### WesCEF Objective

## OBJECTIVE

Develop a portfolio of successful and innovative industrial businesses that deliver satisfactory shareholder returns and continually strengthen our reputation for the management of health, safety and the environment.



















#### OBJECTIVE

Develop a portfolio of successful and innovative industrial businesses that deliver satisfactory shareholder returns and continually strengthen our reputation for the management of health, safety and the environment.



















### **WesCEF** Strategies

STRATEGIES

Invest in our businesses' capacity to meet the needs of our customers. Execute opportunities for growth in existing and new markets. Foster a culture that recognises people are central to our success. Focus on sustainable operations for the benefit of team members, customers and communities in which we operate.



















#### OBJECTIVE

Develop a portfolio of successful and innovative industrial businesses that deliver satisfactory shareholder returns and continually strengthen our reputation for the management of health, safety and the environment.

Invest in our businesses, capacity to meet the needs of our customers.

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UALUES Integrity Working together Responsiveness Accountability









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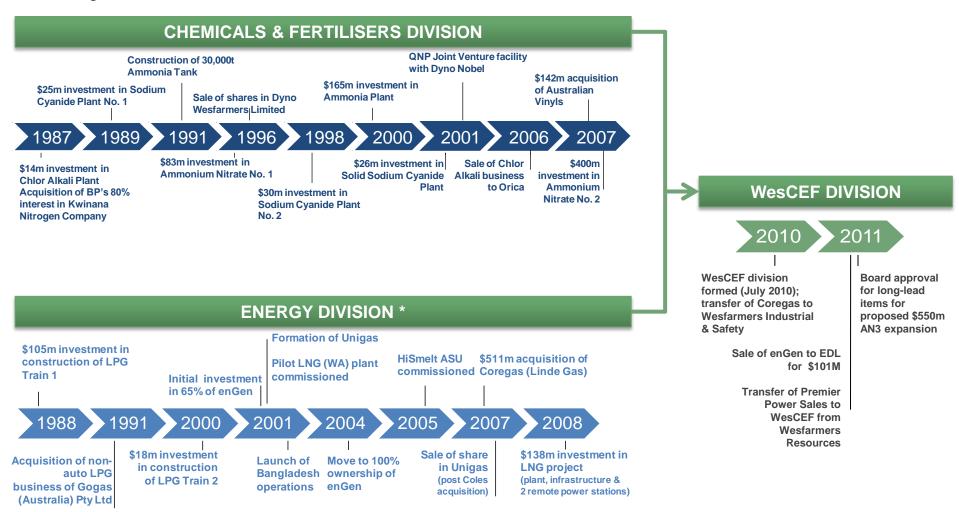






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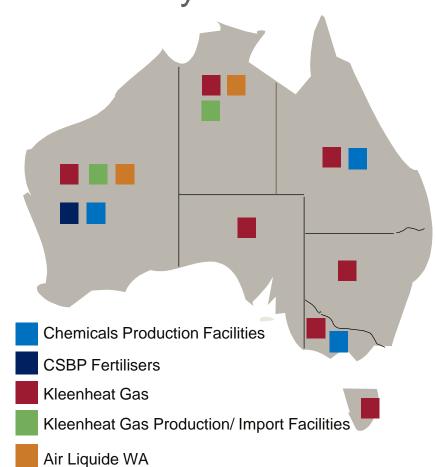
#### **Key Milestones**



\* The Energy Division was originally combined with the Wesfarmers Resources Division prior to restructuring in September 2006



### WesCEF Today



#### QUICK FACTS (At 30 June 2011)

- 1,472 employees
- 230,000 gas customers
- 300 chemical customers
- **5,000** farmer customers (serviced through distributors)
- 18 manufacturing plants
- 4 major hazard facilities















### Our People

- Highly skilled workforce
  - Engineers, chemists, environmental scientists, health & safety professionals, process operators, technical maintenance skills, finance/IT/procurement/HR professionals
- Organisational capability framework
  - Leadership Development, Talent Management, Core Capability Development



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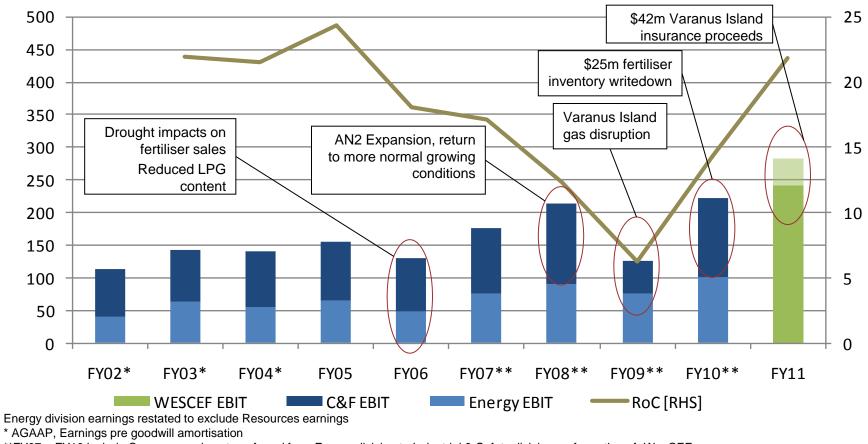
Jeenheat Gas





# Financial Performance – EBIT & Return on Capital

Percent



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Kleenheat Gas

\*\*FY07 – FY10 include Coregas earnings transferred from Energy division to Industrial & Safety division on formation of WesCEF

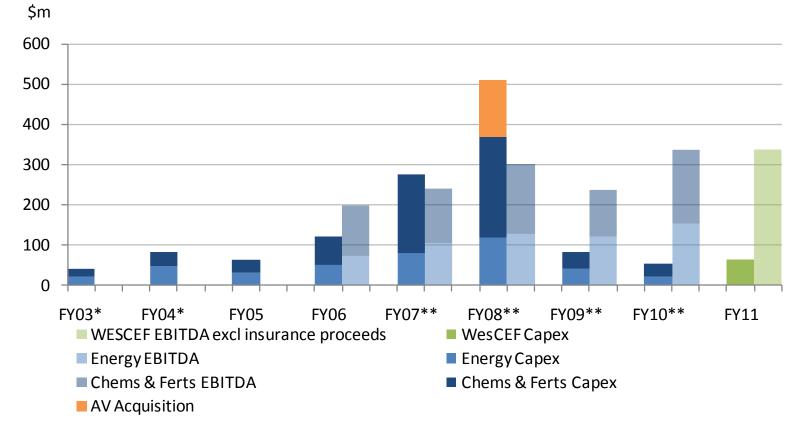








### Investment History – Capex & EBITDA



Energy division earnings restated to exclude Resources earnings

\* AGAAP

\*\*FY07 – FY10 include Coregas capital expenditure (excluding acquisition cost) transferred from Energy division to Industrial & Safety division on formation of WesCEF \*\*FY07 – FY10 include Coregas earnings transferred from Energy division to Industrial & Safety division on formation of WesCEF

















#### Potential AN3 Investment

- \$550 million investment (excluding capitalised interest) to expand AN production capacity at Kwinana site, subject to final approvals
- Environmental approvals in place
- Construction of a third nitric acid/ammonium nitrate plant with production capacity of 260,000 tonnes per annum (tpa)
- Expansion would take total AN production to 780,000 tpa
- Project construction expected to be completed by Q2 FY2014, with start up in Q4 FY2014
- Customer offtake agreements close to finalisation















Health & Safety

- High quality dedicated divisional health & safety resources
- Robust safety compliance systems
- Focus on process safety
- Expanded team post merger of Energy & Chemicals & Fertilisers divisions





















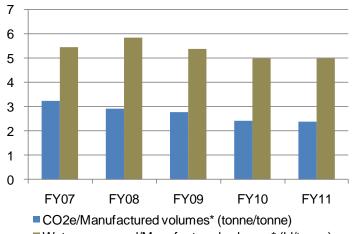




#### Environment

Focus on:

- Continually improving performance by minimising environmental footprint
- Adopting new technologies to reduce emissions
- Utilising recycled water (Kwinana Water Reclamation Plant, AV)
- Product Stewardship



Water consumed/Manufactured volumes\* (kl/tonne)

\* Manufactured volumes represent total tonnes of ammonia, nitric acid, sodium cyanide solution & PVC produced

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## **Community Engagement**

- Ongoing investment in the communities in which we operate
  - Youth Focus
  - The Salvation Army
  - The Clontarf Foundation
  - WA Country Cricket
- Stakeholder forums & facility tours











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# 2. Chemicals

Ian Hansen Chief Executive Officer





#### Overview

#### **Six Businesses**

- Ammonia
- Ammonium Nitrate (AN)
- Queensland Nitrates 50% ownership
- Australian Gold Reagents (AGR) Sodium Cyanide 75% ownership
- Australian Vinyls (AV)
  - ModWood





















#### **Business Propositions**

#### Value proposition

- Reliable, competitive local supplier of quality products & services
- Reputable, responsible manufacturer & distributor
- Product development & technical service provider (AV, ModWood)

#### **Competitive proposition**

- No 1 or strong No 2 in geographic market
- Cost competitive
- Essential inputs to customers' activities (difficult to substitute)
- Leverage manufacturing, distribution & B2B strengths

















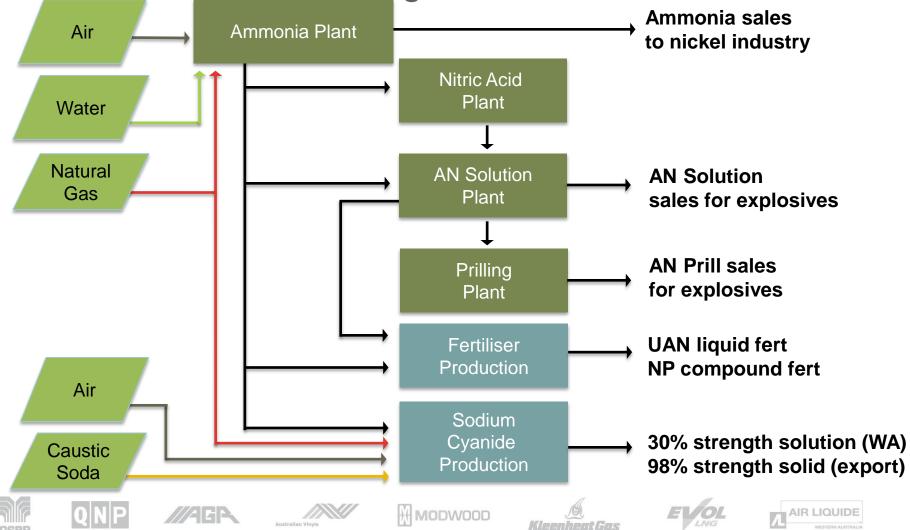
#### **CSBP** Kwinana

CSBP





#### Ammonia / Kwinana Integration





#### Ammonia Business













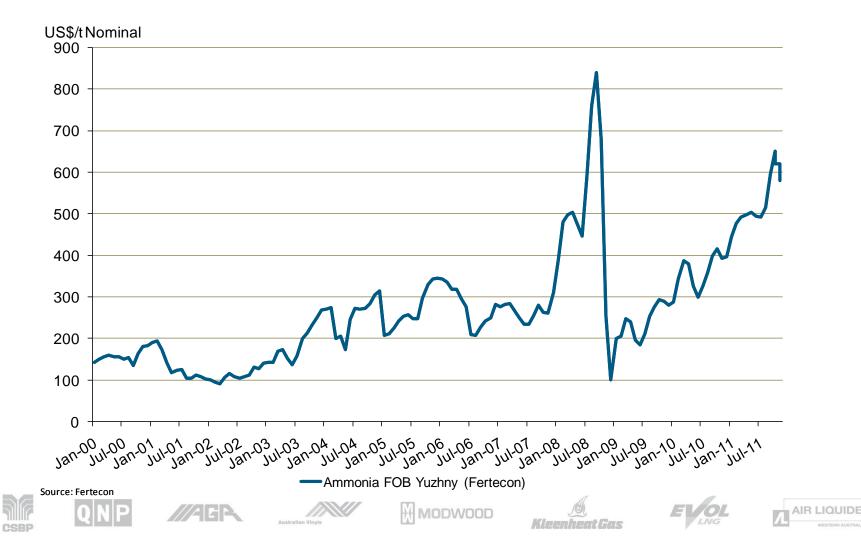








#### Ammonia Pricing





#### Ammonia Business

- 225,000 tpa plant commissioned in 2000
  - Replaced 1960s 110,000 tpa plant
- Debottlenecked to 250,000 tpa
- 40,000 tonne import/export terminal
- External customers nickel industry (80,000 tpa)
- Internal uses
  - Ammonium Nitrate (240,000 tpa)
  - Sodium Cyanide (36,000 tpa)
  - Fertilisers (15,000 tpa)
- Current WA demand 370,000 tpa















Wesfarmers Chemicals, Energy & Fertilisers

#### Ammonia Business

- Import 120,000 tpa, increasing to 240,000 tpa subject to AN3 expansion
- Main input natural gas
- Ammonia globally traded commodity
  - 130 million tonnes produced annually (80% of use in fertilisers)
  - Approximately 20 million tonnes annual deep sea trade
- Historically CSBP selling price back to back on gas contract
- Change to import parity as gas contracts change in the next few years









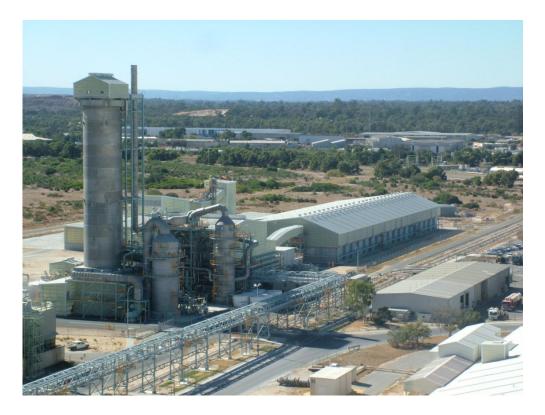








### **Ammonium Nitrate Business**















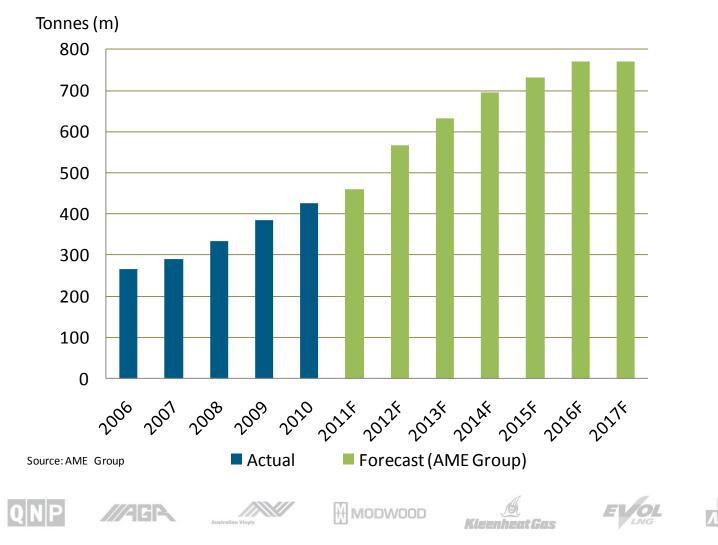








### WA Iron Ore Production







#### **Ammonium Nitrate**

- 200,000<sup>1</sup> tpa AN plant commissioned in 1996
  - Replaced 1960s 120,000 tpa plant
- Debottlenecked to 275,000<sup>1</sup> tpa
- Duplicate commissioned in 2008 increasing production to 550,000<sup>1</sup> tpa
- Manufacture Nitric Acid, AN solution (ANsol) & AN prill
- ANsol used in Flexi-N (fertilisers), emulsion (explosives) & AN prill production
- 350,000 tpa prill plant commissioned in 2008
  - Replacing 180,000 tpa unit
  - Increased capacity, much lower environmental emissions (90% reduction)

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- Debottlenecked to 435,000 to 450,000 tpa

<sup>1</sup> In a non-shutdown year





Wesfarmers Chemicals, Energy & Fertilisers

### **Ammonium Nitrate**

- Sole Western Australian (WA) producer
- Import competition from overseas & eastern Australia
- ANsol & AN prill sold to explosives sector
  - Explosives companies or mining houses that supply AN as ingredient to explosives companies
- Volumes being driven by investment in WA iron ore industry
- Pricing structure allows for raw material movement import parity based
- Long term contracts 5 to 10 years underwriting investment

















#### **Queensland Nitrates**













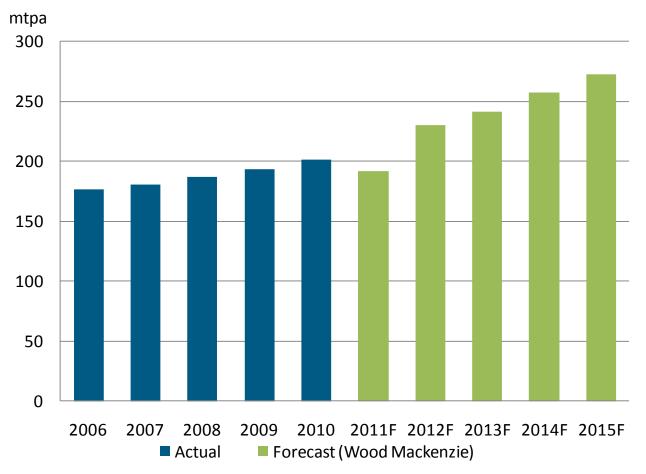








#### **Queensland Coal Production**



Source: Agricultural Bureau of Agricultural and Resource Economics and Sciences (ABARES), Wood Mackenzie



















#### **Queensland Nitrates**

- Integrated Ammonia/ Nitric Acid/ Ammonium Nitrate/ Prill
- 180,000 tpa plant commissioned in 2000
- Project financed
- Debottlenecked to 220,000 tpa, now targeting 227,000 tpa
- Requires purchased ammonia to produce additional AN
- Supports Bowen Basin coal industry
- Natural gas feedstock
- Long term customer contracts
- Identifying next debottleneck/expansion opportunities

















### Sodium Cyanide













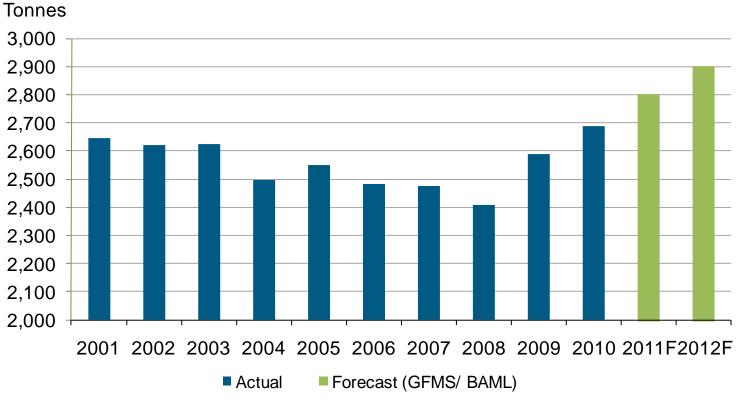








#### World Gold Mine Production



Source : GFMS – Gold Survey 2011 and Bank of America Merrill Lynch















Sodium Cyanide (SCN)

- Used in the extraction of gold
- Unincorporated joint venture established in the 1980s between CSBP, AIDC & Coogee Chemicals
- Current ownership CSBP (75%), Coogee Chemicals (25%)
- Australian Gold Reagents (AGR) management & sales company
- CSBP operates as sales agent for AGR
- 15,000 tpa (100%) solution SCN plant servicing WA since1988
- Duplicate commissioned in late 1990s expanding production to 32,000 tpa (solution)



















Sodium Cyanide (SCN)

- 20,000 tpa solid SCN plant commissioned in 2002
- Debottlenecked to 32,000 tpa (solid)
- Strong market demand
  - WA solution product (30% strength)
  - Other markets solid product (98% strength)
- Export markets include West Africa, South East Asia & South America
- Key raw materials include natural gas, ammonia & caustic soda
- Investigating debottlenecking/expansion opportunities











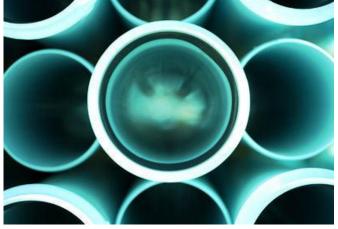






#### Australian Vinyls





















Australian Vinyls

- Purchased by CSBP in 2007
- Only Australian based PVC resin producer (Laverton, Victoria)
- 145,000 tpa capacity, 65% 75% of Australian market
- Produces & sells locally made PVC to extruders
- Also trades specialty chemicals & caustic soda
- Margin dependent on difference (spread) between raw material VCM (imported) & PVC selling price

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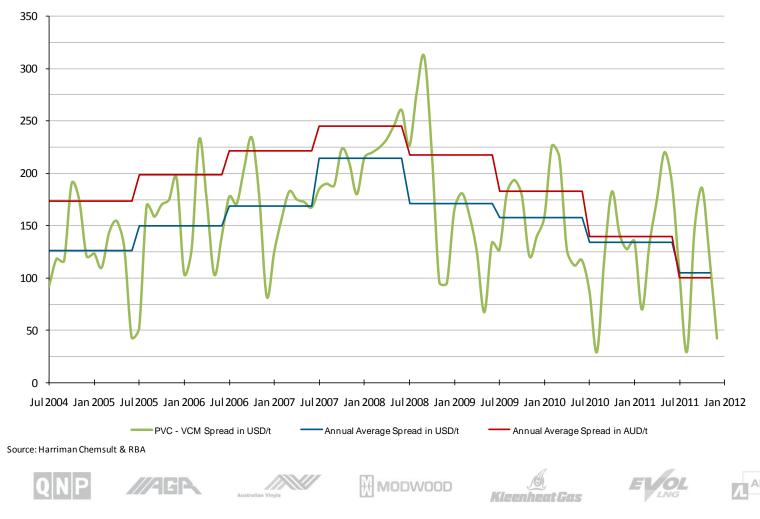
- Under pressure due to:
  - Regionally tight VCM market
  - Reduced global construction activity (PVC surplus)
  - High AUD as import parity based selling prices







#### **PVC Challenges**



#### Asian PVC/VCM Spread



### ModWood

- ModWood produces wood/plastic composite decking
- Inputs: Sawdust; recycled milk bottles; additives
- Uniform properties, minimal maintenance, environmentally friendly
- Premium product, hard wearing
- Introduction of "natural grain" range in 2010 has seen continued growth
- \$7 million investment underway to double production capacity (Campbellfield, Victoria)













### Outlook

- Small businesses supplying non-resource sector are challenged
  - PVC
  - ModWood, small but strong growth
- Ammonia (WA) business affected by gas price outlook
- Larger businesses supplying the resource sector have a strong outlook with expansion opportunities available

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- Ammonium Nitrate (WA)
- Queensland Nitrates
- Sodium Cyanide (AGR)
- Continue to work on operational improvement initiatives
  - Major maintenance shutdown frequency
  - Plant efficiency gains





## 3. Fertilisers

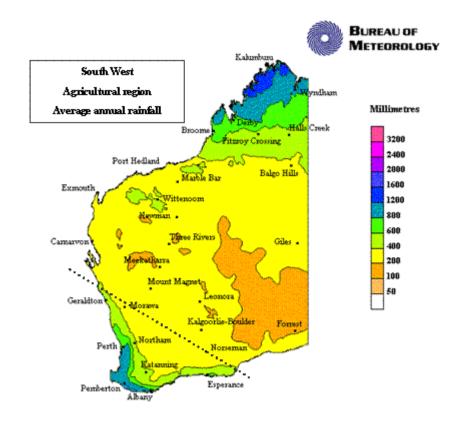
Darryl Dent General Manager





#### Market Overview - WA Agriculture

- Broadacre cropping dominant
- Low sheep numbers post drought
- Nutrient deficient soils
- Winter rainfall reliant
- Small beef, dairy & horticulture sectors













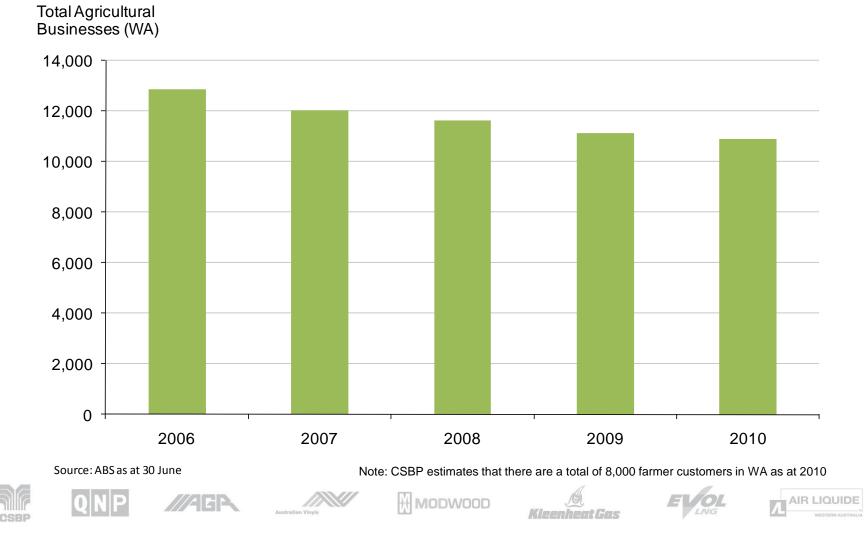








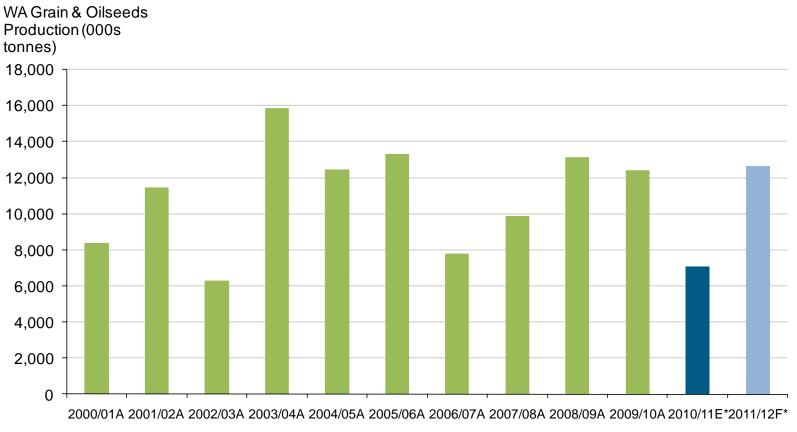
#### Market Overview - Consolidation







#### Market Overview - Crop Yields



Source: ABS, ABARES

\* ABARES Estimate/ Forecasts







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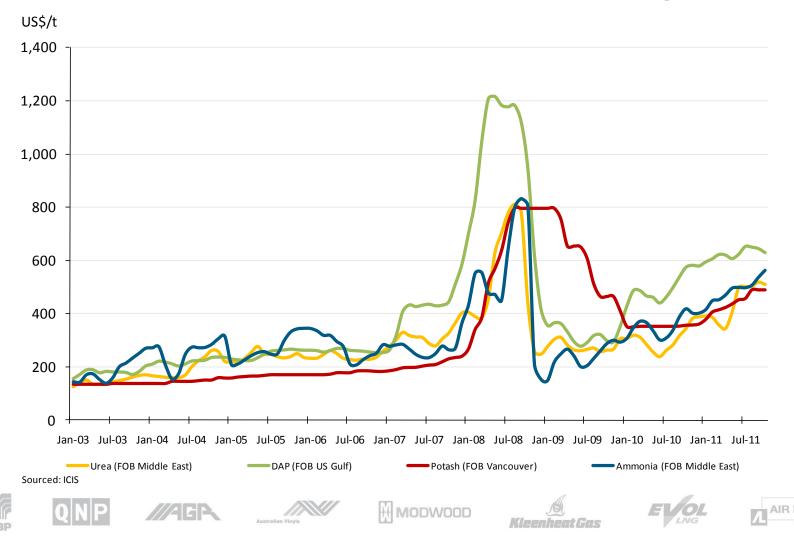








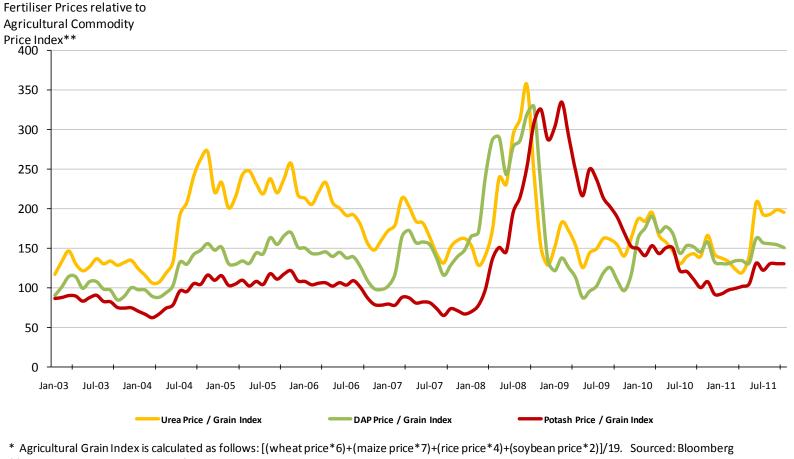
#### Market Overview - Global Fertiliser Pricing





Wesfarmers Chemicals, Energy & Fertilisers

#### Market Overview - Economics of Fertilisation



\*\* Fertiliser prices are FOB: US Gulf DAP; Yuzhny urea; Vancouver Potash. Sourced: ICIS









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## CSBP Fertiliser Our Aim

# To be a world class provider of best value nutritional solutions to agriculture in Australia.

#### **BEST VALUE**

What customers determine they have received from their total experience with us

#### WORLD CLASS

Our customers compete globally

We aim to be "world class" in all aspects of our business to remain relevant to them, and keep them competitive in global markets

#### NUTRITIONAL SOLUTIONS

Products, services and advice that meet the on farm nutritional needs of our customers





#### WA Demand & CSBP Market Share





#### **Business Overview**

- Established in 1910
  - Member of Wesfarmers Group since 1980
- Only major fertiliser supplier in WA until ~ 1990
  - Manufacturing focus at that time
- Market share erosion during 1990s
  - Emergence of import-based competitors
- Post 2000, market share stabilisation
  - Strong customer & distribution focus
  - Working capital, cost base & supply chain efficiencies
- WA's leading fertiliser supplier in a competitive market
  - Market share 60% +





















#### **Business Overview**

- Large scale infrastructure
  - Granular storage & import facilities in key locations
  - Flexi N (UAN1) import & storage
  - High capacity despatch facilities
- Domestic manufacturing capability
  - NP<sup>2</sup> Granulation, Superphosphate and UAN
  - Products developed specifically for WA agriculture
- Extensive distributor network
  - Landmark & Independents
  - Reward based incentive structure
  - Order collection, administration, finance & CSBP services delivery

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<sup>1</sup> Urea Ammonium Nitrate solution <sup>2</sup> Ammonium Phosphates





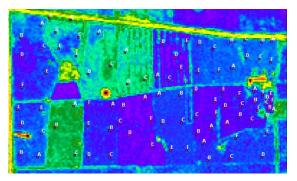


#### **Business Overview**

- Market support
  - Sales staff (40): support distributors; manage key accounts; contract negotiation & service delivery
  - Agronomic advisory services: product development; soil & plant testing services
- Product offering
  - Over 150 fertiliser products including locally developed key brands
  - Marketed & contracted by CSBP
  - Range of differentiated services (Nulogic<sup>1</sup>, GPS<sup>2</sup> mapping & satellite imagery)







<sup>1</sup> Nulogic is a unique soil analysis tool <sup>2</sup> Global Positioning System

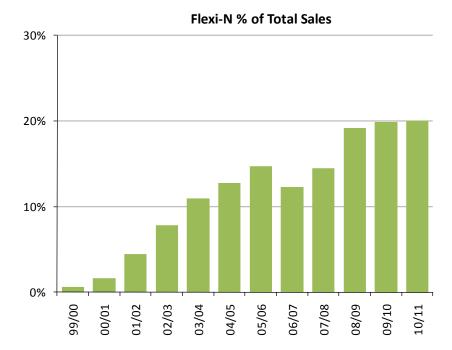








- Innovation to WA Agriculture
- Strong market penetration
- Utilises existing infrastructure
- Growth achieved via importation
- Swing capacity for AN production









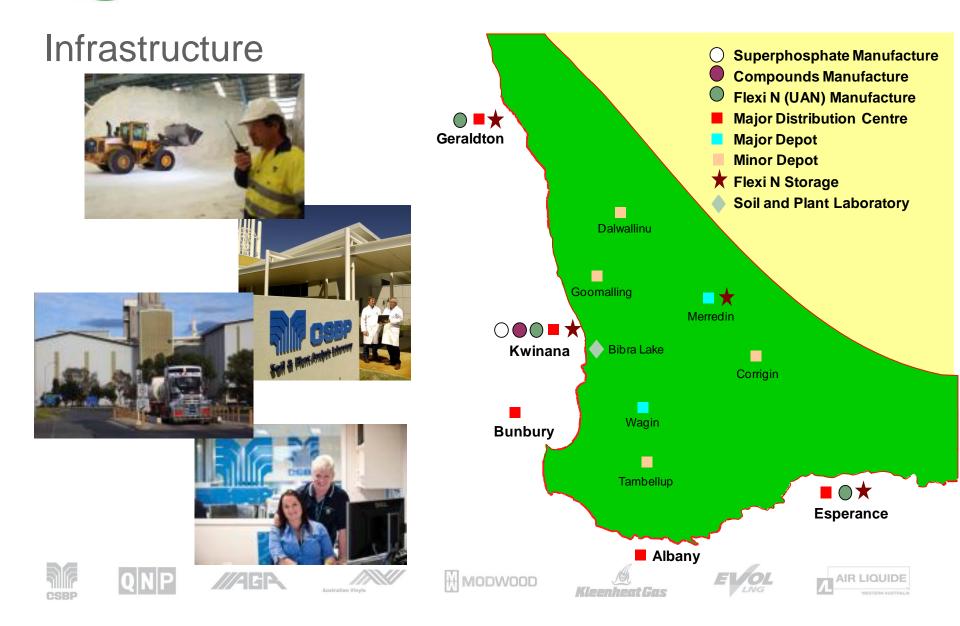




















#### Kwinana Fertiliser Manufacturing

<b>Raw Materials</b>	••••	Manufacture Process	••••	Products (Brands)
Ammonia, Sulphuric Acid, SMAP, Trace elements, MOP, SOP, SOA	•••▶	Granulation Plant	···Þ	Various NPK Cropping Fertilisers e.g. Agras, Macropro, K-Till, Gran NS
Phosphate Rock, Sulphuric Acid, Trace elements	•••►	Superphosphate Plant	▶	Pasture Fertilisers e.g. Superphos, SCZ, SCZM, Coast Phos
Urea, Ammonium Nitrate, ATS, MOP, SOA	•••▶	Liquid Fertiliser	▶	Flexi-N, Flexi NS, Flexi NK, Liqui NS,
	R .		at Gas	





### **Regenerative Thermal Oxidiser**

- \$5 million capital expenditure
- Broadening phosphate rock supply options
- Construction commenced
- Commissioning in January 2012











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leenheat Gas









#### Key Strategies Update

#### **Business efficiency**

• Investment in systems consolidation & enhancements

#### **Business model**

- Market share maintained
- Further customer segmentation & target marketing





















#### Key Strategies Update

#### Growth

- Logistics & operational efficiencies
- Improved pricing analysis & contract management
- Implementation of fertiliser use efficiency technologies
  - Introduction of Fertlogic















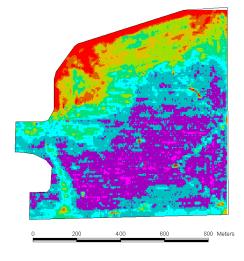






## **FERT**logic

- Changes traditional fertiliser application methodology
- Application by production zone not by paddock
- Technology to execute is available but complex
- Consolidates & simplifies the end to end process
- Maximises fertiliser use efficiency
- Developed in partnership with GEOSYS<sub>tm</sub>
- Full market release in Q3 FY2012













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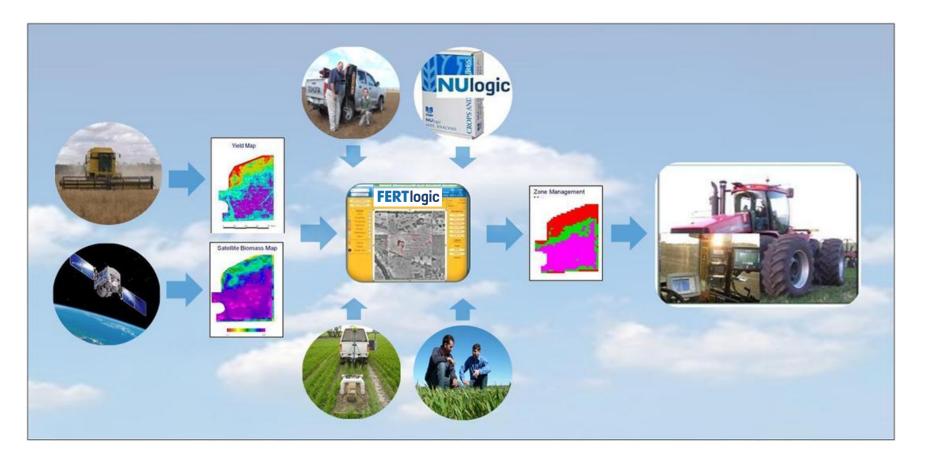








# FERTlogic



















### Outlook

- Return to more normal seasonal conditions
- Full year earnings remain sensitive to seasonal break & farmers' terms of trade













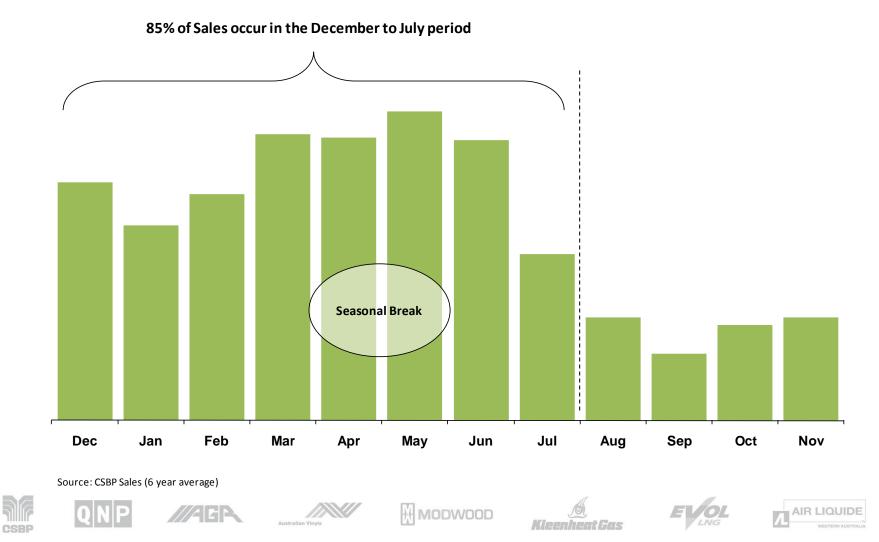








#### Sales Profile





## Outlook

- Return to more normal seasonal conditions
- Full year earnings remain sensitive to seasonal break & farmers' terms of trade
- Yield & quality impacts from under fertilisation
- Late rains have reduced grain quality & returns
- Albeit still strong historic wheat yield predicted













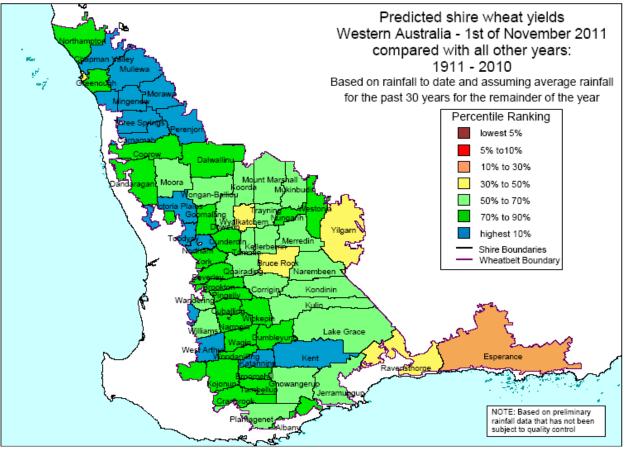








#### Predicted wheat yields



Source: Western Australian Agricultural Authority, 2011









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## Outlook

- Return to more normal seasonal conditions
- Full year earnings remain sensitive to seasonal break & farmers' terms of trade
- Yield & quality impacts from under fertilisation
- Late rains have reduced grain quality & returns
- Albeit still strong historic wheat yield predicted
- Low on farm & in paddock nutrient levels
- Positive uptake of early orders & contracts















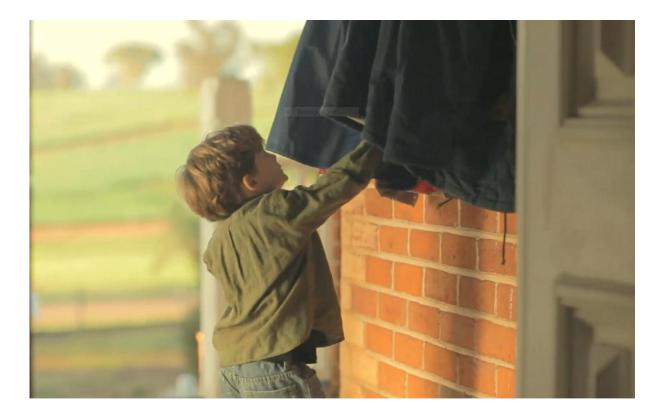








#### Video

















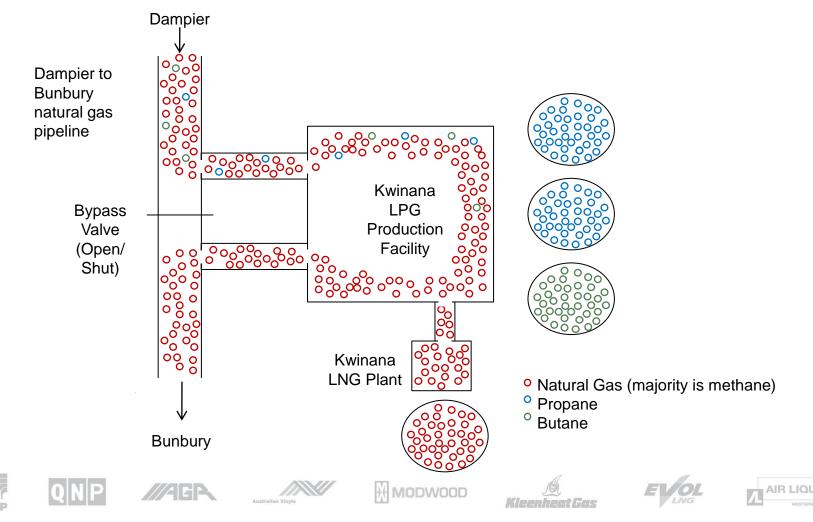
# 4. Kleenheat Gas

Graham Smith General Manager





### Production Capability Kwinana Production Facility LPG Extraction





### **Production Capability**



#### LPG

#### Train 1

- Constructed 1987/88
- Gas flow rate .
- LPG content (1989) ٠
- Production

#### \$105 million

- 320 380 TJ per day
- 1.45 T per TJ
- 150,000 tonnes in 1989

#### Train 2

- Constructed in 2000
- Gas flow rate
- LPG content (2005)
- Production

\$18 million 500 – 540 TJ per day (Train 1 & 2) 1.79 T per TJ 300,000 tonnes total production in 2005 (Train 1 & 2)



- Constructed in 2008
- Production capacity

\$80 million

64,000 tpa







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### **Distribution Capability**

- Established in WA over 50 years ago ٠
- Extended through acquisition in the eastern states in the mid 1990s
- Distribution infrastructure in each state of Australia
- All LPG markets serviced: bulk gas; forklift; residential; autogas; & leisure markets
- LPG products distributed through a network of 568 agents, dealers & owned branches
- LNG markets of Heavy Duty Vehicles & Power Generation • serviced in WA & Victoria
- One of 3 main competitors in the LPG distribution market & the leading domestic LNG distributor in Australia

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Distribution tonnes: 242,000 tpa LPG; 44,000 tpa LNG















#### LPG Market Overview

- Demand for LPG has been flat in the "traditional" market for 10 years
- Outlook for traditional market is modest growth mining, agriculture & the leisure market





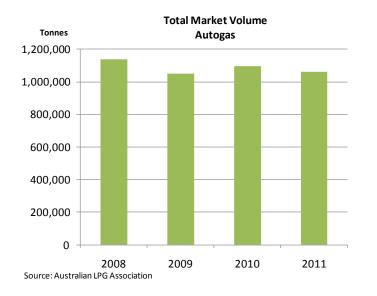


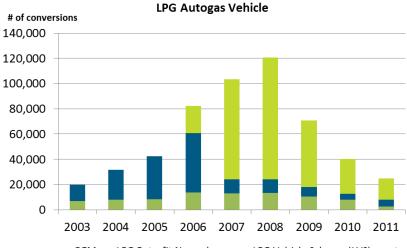




#### LPG Market Overview

- Autogas market has been in decline since reversal of State & Federal conversion grants
- The autogas market is expected to be difficult, albeit with positive developments from Holden & Ford





■ OEM ■ LPG Retrofit Non-scheme ■ LPG Vehicle Scheme (LVS) grants Source: LPG Australia October 2011 Industry (LPG Vehicles) Report









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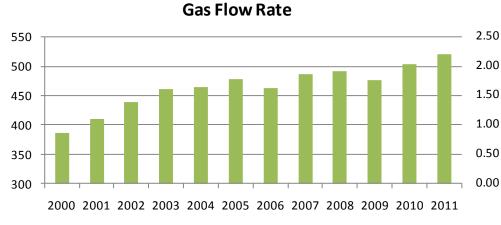




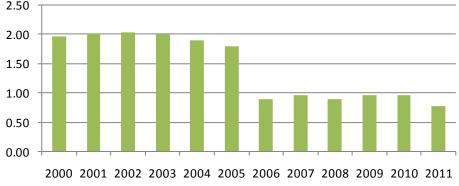
### LPG Market Overview

Production economics in WA have deteriorated

- Whilst natural gas flowing through the pipeline, has increased . . .
- LPG content in the natural gas pipeline has declined



#### LPG Content



Average Inlet Flow

Average LPG Content



TJ / per day







Tonnes / TJ





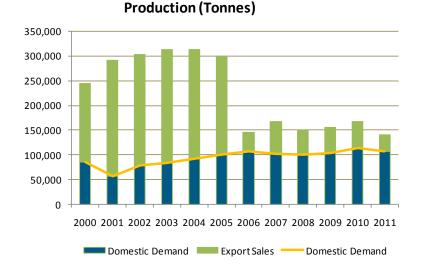




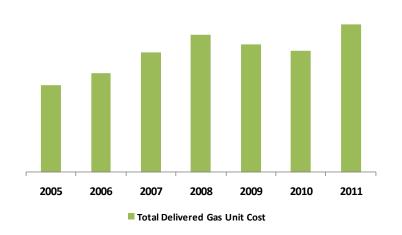


### LPG Business Impact

This has affected production volumes . . .



• And at the same time, gas & gas transport costs have increased



Average Gas Feed Costs

This has created significant margin squeeze on LPG production activity resulting in expected FY2012 earnings decline of \$25-\$30 million, in line with previous guidance.







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#### LNG Market Overview

#### Why LNG?

- LNG is a low cost alternative fuel
  - Cheaper than diesel
  - Combusts with ~20% less carbon emissions, less particulate matter & lower noise
- LNG can increase Australia's energy diversity & security, whilst reducing the trade deficit
  - Oil self sufficiency was 54% in 2007, forecast
    <20% by 2030</li>
  - Australia has abundant natural gas reserves & LNG production capability















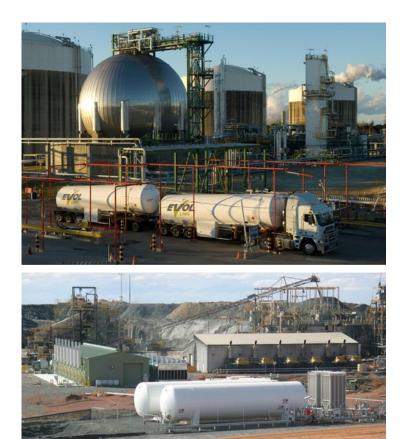




#### LNG Market Overview

#### LNG Today

- Current Markets
  - Remote Power Generation
  - Heavy Duty Vehicles (HDV)
  - Industrial (LPG substitution)
- Future Markets
  - Mine vehicles
  - Locomotives
  - Marine











MODWOOD











## LNG International Developments

- US market now fast adopting LNG
  - Low cost LNG with energy security agenda
  - 600 Peterbilt 450HP trucks on order with Westport dedicated gas engines
  - Clean Energy/Chesapeake:150 LNG refueller network
  - Shell is entering LNG refuelling market & developing mining & locomotive applications
- UK & Norway
  - Volvo dual fuel 460 HP truck
  - UK LNG refueller network
  - Over 20 LNG powered vessels in Norway







MODWOOD

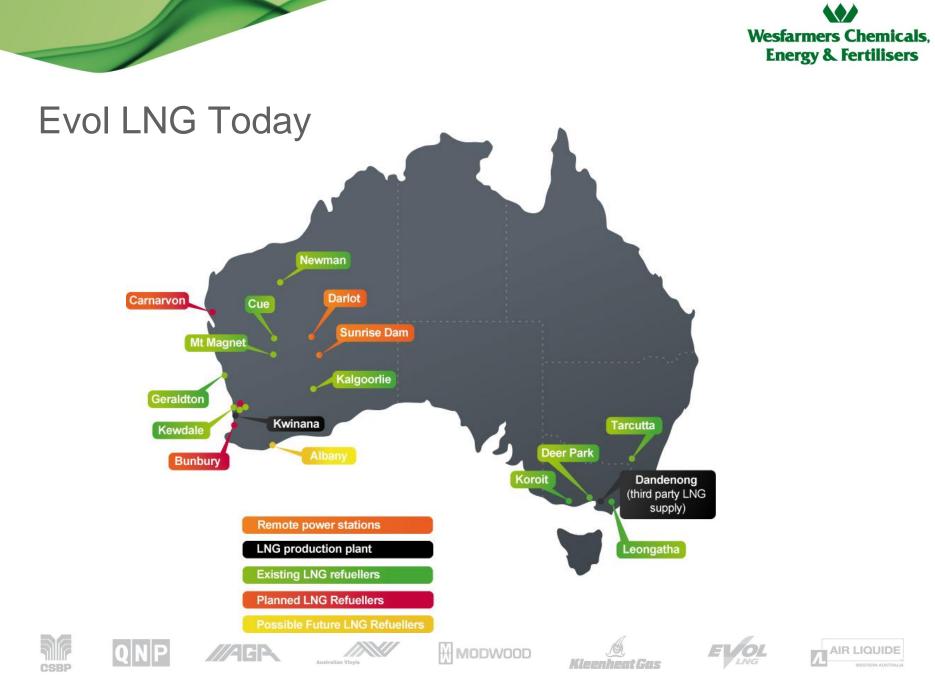






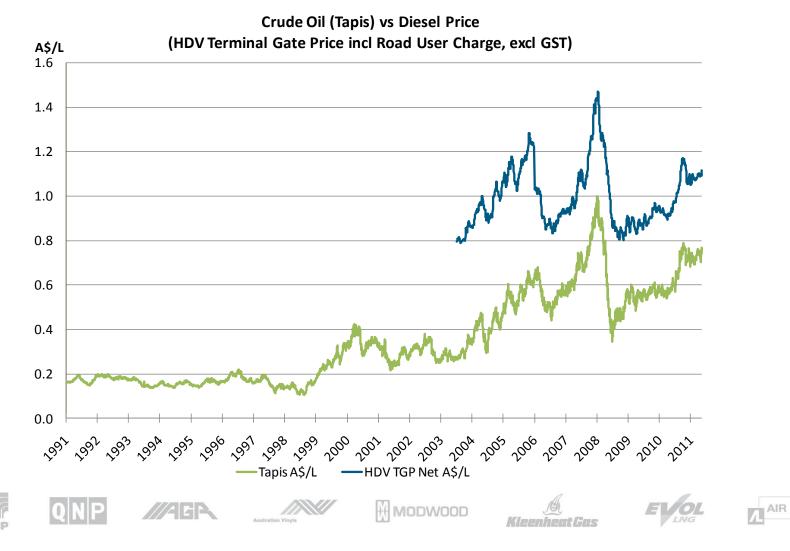








#### The LNG Journey





## Key Strategies Update

#### 1. Grow faster than the market & the competition

- Progress achieved:
  - In a "soft" LPG market we have had some good wins in the leisure market & with major accounts
  - Volumes are steady in the LNG market
  - Plans advanced to extend geographic footprint in regional Australia
  - New opportunities emerging for power generation in WA
  - Obtained exclusive distribution rights for APG's LNG engine conversion technology

















## Key Strategies Update

#### 2. Invest in the business & drive out unnecessary cost

- Progress achieved:
  - Upgrade critical distribution centres & closure of others
  - Transport & distribution contracts retendered
  - Distribution channels being optimised

#### 3. Explore opportunities to maximise LPG production from higher gas flows

- Progress achieved:
  - Upgrade of Train 1 recompressor engine
  - Further debottlenecking opportunities being reviewed
  - Advanced process control systems being implemented



















### Outlook

- LPG production economics have deteriorated but remain profitable
- Volume growth in LPG is always challenging, but opportunities remain
- Fortunes in LPG will be dependent on LPG content in the pipeline, selling prices (Saudi CP) & the FX rate
- Previous guidance of FY2012 earnings decline in the range of \$25
   \$30 million remains likely
- Opportunities for LNG growth & realisation of the market potential remain good



















# 5. AN3 Expansion Update

Ross Martelli General Manager, Technical Services





### Background

- AN1 commissioned in 1996
- AN2 commissioned in 2008
- Existing capacity is approximately 550,000<sup>1</sup> tpa AN

















In a non-shutdown year



### Background

- Third nitric acid/ammonium nitrate plant (NAAN3) = 260,000 tpa AN
- Expand the prill plant by 315,000 tpa
- Other infrastructure to support the expansion:
  - 5,000 tonnes of AN bulk storage
  - Additional AN bulk despatch load out facility

















#### Location of New Facilities

Extend AN Bulk shed by 5,000 tonnes

Prill Plant 2 upgraded by 315,000 tpa

Nitric Acid 3 / AN3 Capacity: 260,000 tpa Import of 120,000 tpa of ammonia



<sup>1</sup> Front End Engineering Design <sup>2</sup> Early Contractor Involvement

### **Key Milestones**

- Pre-feasibility study recommended Kwinana location
- FEED<sup>1</sup> study completed in February 2011. Detailed engineering commenced - 30% completed in August 2011
- Long lead items ordered in June 2011. Negotiations commenced with engineering & construction contractors in July 2011 (ECI<sup>2</sup> phase)
- Environmental Protection Agency (EPA) approved the project in October 2011
- Planning approval received in November 2011
- ECI phase being finalised
- Significant funds committed to date. The proposed expansion remains subject to final approvals











Wesfarmers Chemicals, Energy & Fertilisers

Project Risk Mitigation

- NAAN3 technology is a copy of existing NAAN1 & 2 plants
- Equipment selection & improvements based on 16 years of operation
- Long lead items ordered in June 2011 to provide schedule certainty
- Prill Plant expansion to be completed prior to NAAN3 to allow for thorough testing
- Experienced Project Management Contractor appointed
- CSBP team allocated to the Project
- Downer/Clough joint venture has had 4 months to develop cost & construction methodologies. Proposal being finalised

















#### Video



# Ammonium Nitrate Expansion Project 2008















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### **Key Project Objectives**

- Safety: Zero harm
- Budget: Within the approved capital budget
  - \$550 million plus capitalised interest
- Schedule:
  - Prill Plant 2 expansion completion by 31 September 2013
  - NAAN3 construction completion by 31 December 2013
  - Commissioning Q3 FY2014
  - Start up Q4 FY2014















# 6. Carbon Pricing Update

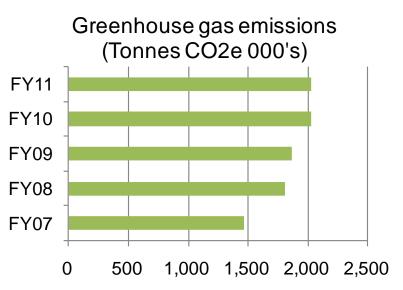
Julian Andrews General Manager, Business Development





#### **Divisional Overview**

- FY2011 greenhouse gas emissions of 2.02 million tonnes CO<sub>2</sub>e
  - 1.86 million tonnes CO<sub>2</sub>e scope 1 & 2
  - 0.15 million tonnes CO<sub>2</sub>e scope 3
- Total emissions stable on FY2010
  - Scope 1 & 2 emissions declined 2.8%



Restated to reflect the merger of the Energy division & Chemicals & Fertilisers division in July 2010, excludes Queensland Nitrates















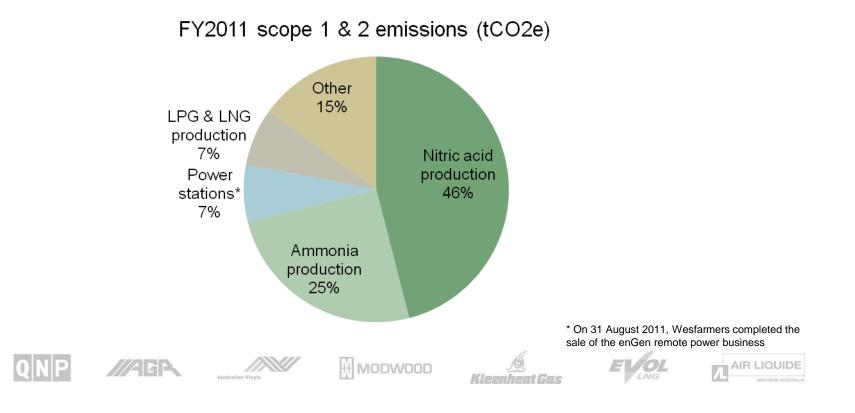






### **Divisional Overview**

 CSBP's nitric acid & ammonia plants in Kwinana account for approximately two thirds of the division's scope 1 & 2 emissions







### **Emissions Intensive Trade Exposed Activities**

- Emissions intensive trade exposed (EITE) status of ammonia, ammonium nitrate & LNG production activities still to be determined
  - Expected to be eligible for assistance under the Jobs & Competitiveness Program
- PVC & sodium cyanide production are not expected to qualify as EITE



















Wesfarmers Chemicals, Energy & Fertilisers

**Divisional Impact** 

- Overall cost impact is not expected to be significant in early years
  - Impact will vary by business
  - Abatement & energy efficiency initiatives may reduce cost
- Current monitoring & reporting systems & processes are being reviewed





















Nitrous Oxide Abatement

- Nitrous oxide represents 46% of total WesCEF emissions
- Abatement catalyst trial commenced February 2011 in nitric acid plant 2
- Installation in nitric acid plant 1 planned for February 2012
- Potential to significantly reduce emissions





















Wesfarmers Chemicals, Energy & Fertilisers

### **Other Initiatives**

- Continued focus on energy efficiency initiatives
- Additional abatement opportunities being reviewed
- Review of grants & incentives available under Clean Energy legislative package















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# 6. Conclusion/ Q&A

Tom O'Leary Managing Director, WesCEF



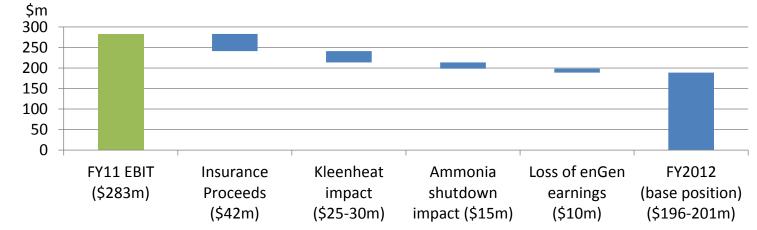




### WesCEF Outlook

Considerations for outlook include:

• Previously announced adjustments



- enGen gain on sale (~\$40 million) to be reported as a non-trading item
- External impacts
  - e.g. international LPG pricing, LPG content, seasonal break, FX rates
- Future growth opportunities in continuing businesses

















## WesCEF Growth Opportunities

#### **Divisional: step-out expansion**

• Same sectors; domestic & overseas

#### Chemicals

- Potential AN3 expansion to 780,000 tpa
  - Expected construction completion Q2 FY2014
  - Expected production to commence Q4 FY2014
- Move to import parity pricing for ammonia sales
- Exploring:
  - QNP expansion opportunities
  - SCN expansion opportunities
- Progress ModWood expansion
- Continued operational efficiency program



















## WesCEF Growth Opportunities

#### **Kleenheat Gas**

- Continued expansion of domestic LNG market
  - HDV & power generation
- Potential LPG plant debottlenecking
- Distribution volumes & efficiencies

#### Fertilisers

- Continued growth in Flexi-N
- Logistical & operational efficiencies
- Leveraging fertiliser use technologies
- Further customer segmentation & target marketing

















# Questions





#### For further information

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