

2 October 2019

The Manager Market Announcements Office Australian Securities Exchange

Dear Manager,

WESCEF INVESTOR BRIEFING AND SITE TOUR

Following is a presentation that will be given at a briefing and operational site tour of the Wesfarmers Chemicals, Energy and Fertilisers business on Thursday 3 October 2019 at 11:00am AWST / 1:00pm AEST.

This briefing will be webcast and accessible via our website at www.wesfarmers.com.au.

Yours faithfully,

A Spaseska Executive General Manager Company Secretariat & Group Risk



Wesfarmers Chemicals, Energy & Fertilisers Investor briefing and site tour

To be held on Thursday 3 October 2019



Introduction

David Baxby

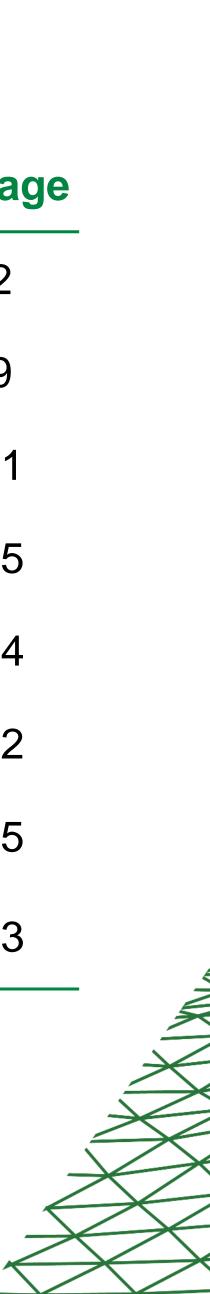
Managing Director, Wesfarmers Industrials Division



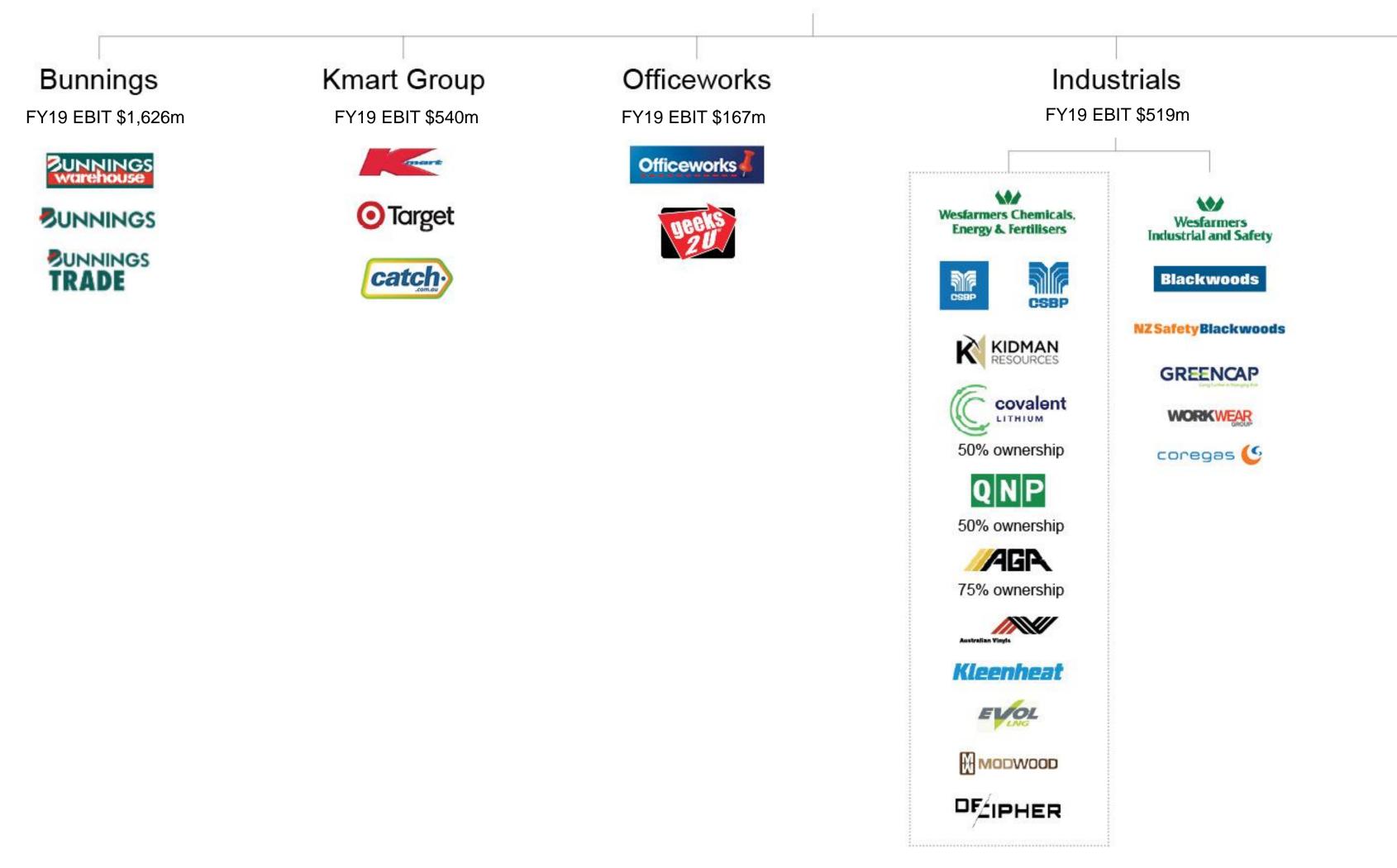


ltem	Presenter
Introduction and Kidman Update	David Baxby
Overview of WesCEF	Ian Hansen
Safety, Environment and People	Liane Unewiss
Ammonia / Ammonium Nitrate	Ryan Hair
Sodium Cyanide	Barney Jones
Kleenheat	Mark Gadsby
Fertilisers	Ian Hansen
Q&A	All presenters

	Role	Pag
	Managing Director, Wesfarmers Industrials	2
	Chief Executive Officer, WesCEF	9
sse	GM HR, HSEQ & Communications	21
	GM Ammonia/AN & Operational Services	25
S	GM Chemical Joint Ventures & AV/Modwood	34
y	GM Kleenheat	42
	Chief Executive Officer, WesCEF	55
S		63



WesCEF position within the Wesfarmers portfolio





Other FY19 EBIT \$122m

coles 15% ownership

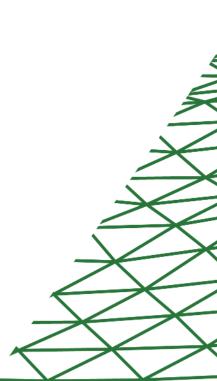
flybuys

50% ownership

bwp TRUST 25% ownership

Š wespine 50% ownership

G GRESHAM 50% ownership



Strategic priorities

WesCEF's strategic priorities are to:

- Leverage existing infrastructure and incrementally expand capacity as market conditions allow
- Pursue ongoing operational efficiencies and automation opportunities
- Apply innovation and technology to develop new products and services to meet the needs of our customers
- Assess step-out opportunities to invest in adjacent markets \bullet



WesCEF Executive Leadership Team



Ian Hansen Chief Executive Officer



Ric Colgan **Chief Financial Officer**





Ryan Hair General Manager Ammonia/Ammonium Nitrate & Operational Services



Barney Jones General Manager **Chemical Joint Ventures** AV / Modwood



Ross Martelli Director Major Projects



Liane Unewisse General Manager Human Resources **HSEQ & Communications**



Crispin Collier General Manager **Business Development**

Tanya Rybarczyk General Manager Fertilisers



Mark Gadsby **General Manager** Kleenheat



Mussaret Nagree **General Manager** Innovation & Commercialisation



Acquisition of Kidman Resources

Transaction status	Acquisition of Kidman success Covalent JV and the Mt Hollar
Key milestones	Work progressing on the Defin to be made in 1H CY20
WesCEF and Kidman	 WesCEF is uniquely placed to development of the Mt Holland World class capability in the Long track record of success expansions, while generating Strong operating capability construction / approvals / radiustical and the strong commercial ability in customer relationships

sfully completed, with WesCEF holding a 50% interest in the nd Lithium Project alongside SQM

nitive Feasibility Study, with Final Investment Decision expected

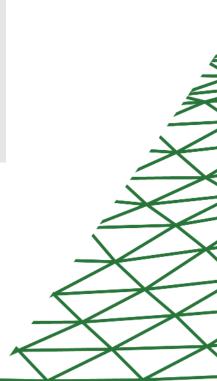
o leverage its existing capabilities to support the successful d deposit:

e manufacture of chemicals to high quality specifications

essfully and safely delivering plant developments and ing strong returns on capital

and knowledge in the Kwinana region to help manage the amp-up phase of the refinery

n negotiating long-term contracts and building long-term



Overview of Mt Holland Lithium Project

Mine site (Earl Grey Lithium deposit):

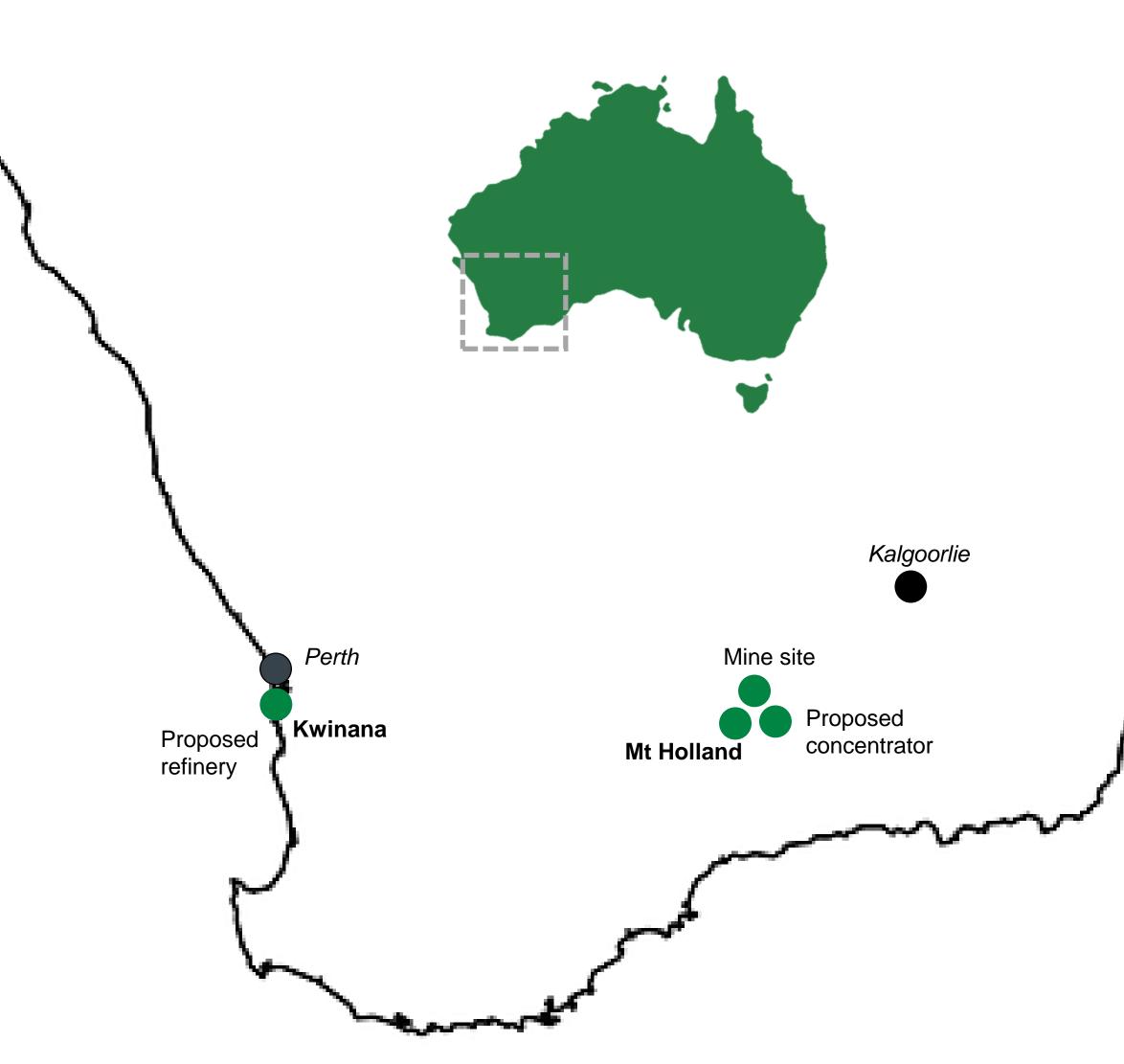
- Resources: 189Mt @ 1.5% Li₂0
 (7.0Mt of lithium carbonate equivalent)
- Reserves: 94Mt @ 1.5% Li₂0

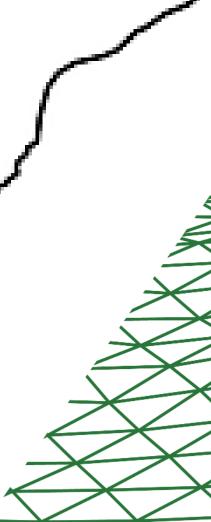
Proposed Concentrator:

- 2Mt per annum spodumene concentrator
- To produce spodumene concentrate for use in lithium hydroxide refinery

Proposed Lithium Hydroxide Refinery:

- Located in Kwinana industrial area
- Planned production capacity of ~45kt per annum of lithium hydroxide





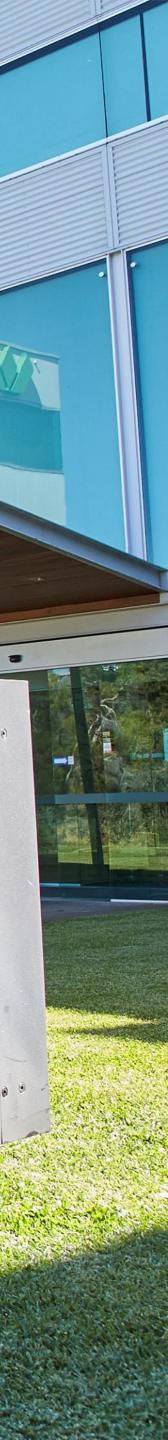
Overview of WesCEF

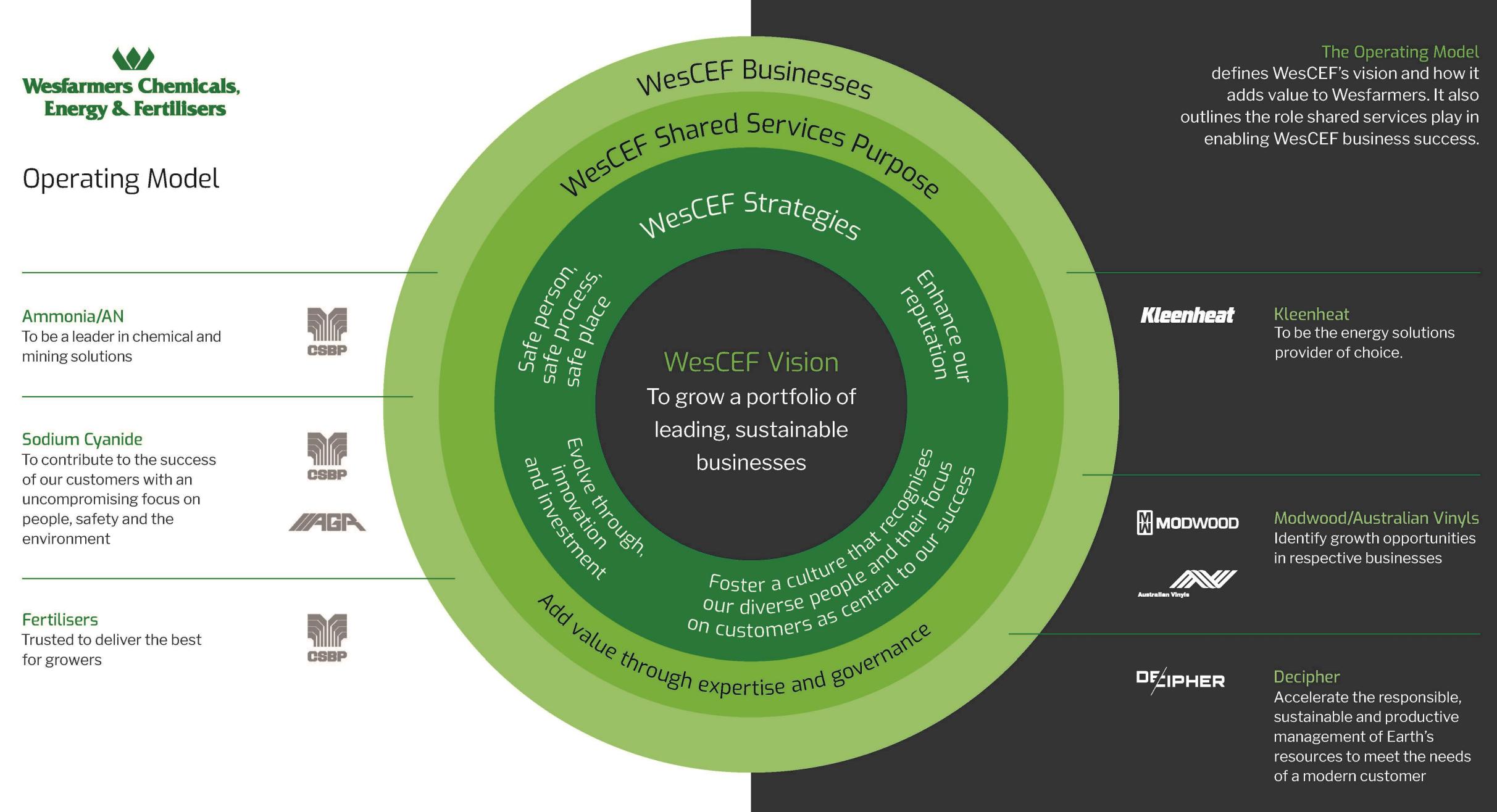
lan Hansen

Chief Executive Officer, WesCEF



Wesfarmers Chemicals, Energy & Fertilisers





Strategic position and focus

	Chemicals	Energy	
	Image: Seperation of the sepeepareis of the seperation of the seperatio	Kleenheat EVOL	
Description	Production, sales & distribution of Ammonia, AN ¹ , Sodium Cyanide & specialty products	Production, sales & distribution of LPG & LNG, retailer of natural gas & electricity	
Competitive position	 #1 WA AN¹ #1 Australia Sodium Cyanide #1 Australia PVC distribution 	 #1 WA LPG #1 WA LNG #2 WA NG² Retail 	
Competitive advantage	 Operational excellence delivering reliable supply Suite of contracts with high quality customers with raw material pass through protection 	 Trusted local brand Customer service NG wholesale position with well supplied WA market supported by domestic reservation policy 	
Strategic focus	 Consider opportunities to leverage existing infrastructure & expand capacity Continued assessment of automation & data analytics opportunities 	 Continued focus on brand management, strong local customer service & enhanced customer experiences LNG expansion options being assessed 	

1. Ammonium Nitrate 2. Natural Gas WesCEF | 2019 Investor Briefing | 11

Fertilisers



Import, production, sales & distribution of fertilisers & agricultural services

- #1 WA Fertiliser
- Expertise-based value add services
- High capacity infrastructure
- Local manufacturing
- Leverage & invest in infrastructure to meet growers' needs
- Invest in product & service offerings



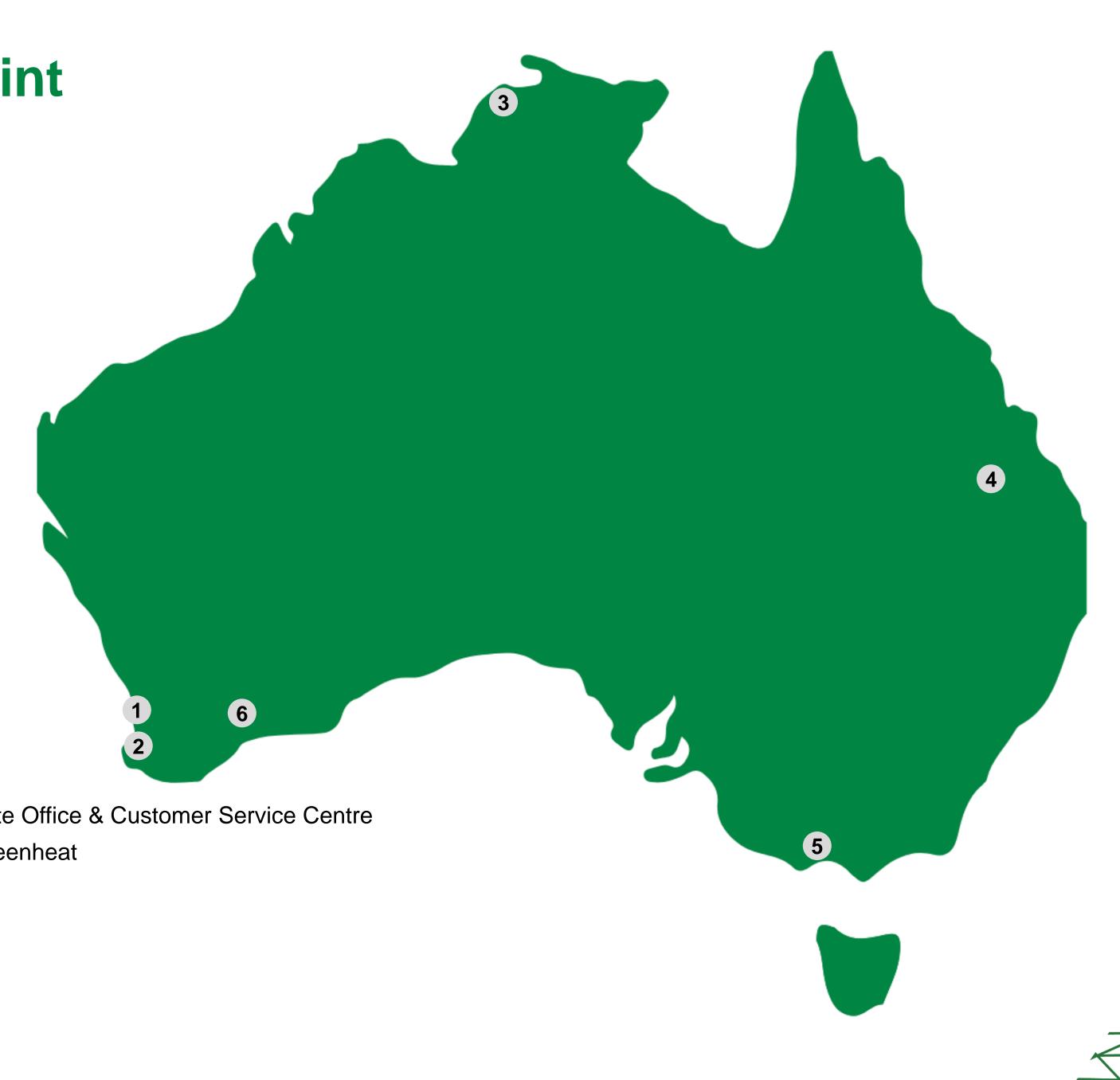
Key customers

Business	Product	Geography	Sector	Key Customers
CSBP	Ammonia	WA	Nickel	BHP, Minara, internal
CSBP	Ammonium Nitrate	WA	Iron Ore/other Mining/Fertilisers (internal)	Orica, Dyno Nobel, Rio Tinto, Downer
QNP	Ammonium Nitrate	QLD	Coal	BMA, Curragh
AGR	Sodium Cyanide	WA / Global	Gold	Newmont, KCGM, Anglo, Goldfields
Australian Vinyls	PVC resin/specialty chemicals	Australia	Construction	Iplex, Vinidex and Pipemakers
	Wood/plastic/composite	Australia	Construction	ITI Australia
Kleenheat EVOL	LPG & LNG production / distribution & retailing Electricity retailing	WA / NT	Residential, business, industrial, transport	Households, resources, commercial, industrial, leisure, power generation
CSBP	Fertilisers	WA	Agriculture	WA growers
	Decipher	WA / Global	Agriculture, mining	Agronomists and growers, mining sector



WesCEF's national footprint

- 1,300+ employees
- 16 manufacturing plants
- 5 major hazard facilities
- 300 chemical customers
- 4,300+ fertiliser customers
- ~265,000+ energy customers
- Strong community engagement



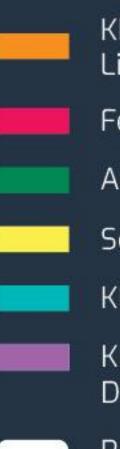
- 1 Murdoch WesCEF Corporate Office, Kleenheat Corporate Office & Customer Service Centre
- 2 Kwinana Operations CSBP (Chemicals & Fertilisers), Kleenheat
- 3 Kleenheat (Darwin Operations)
- 4 QNP
- 5 Australian Vinyls & Modwood
- 6 Mt Holland



Kwinana location

- 50 years of continuous WesCEF operations
- Strategically located industrial complex with access to:
 - Dampier to Bunbury natural gas pipeline (DBNGP)
 - Rail corridor
 - Priority berthing rights
 - Water & electricity infrastructure
 - Highly skilled workforce
 - Reagents produced by neighbouring chemical plants

Legend



KDR/SQM Proposed Lithium Refinery

Fertilisers

Ammonia/AN

Sodium Cyanide (AGR)

Kleenheat Production

Kleenheat Cylinder Depot & Maintenance

Rail Corridor



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CSBP Kwinana Site Overview

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Fertilisers

Sodium Cyanide

Ammonia/Ammonium Nitrate



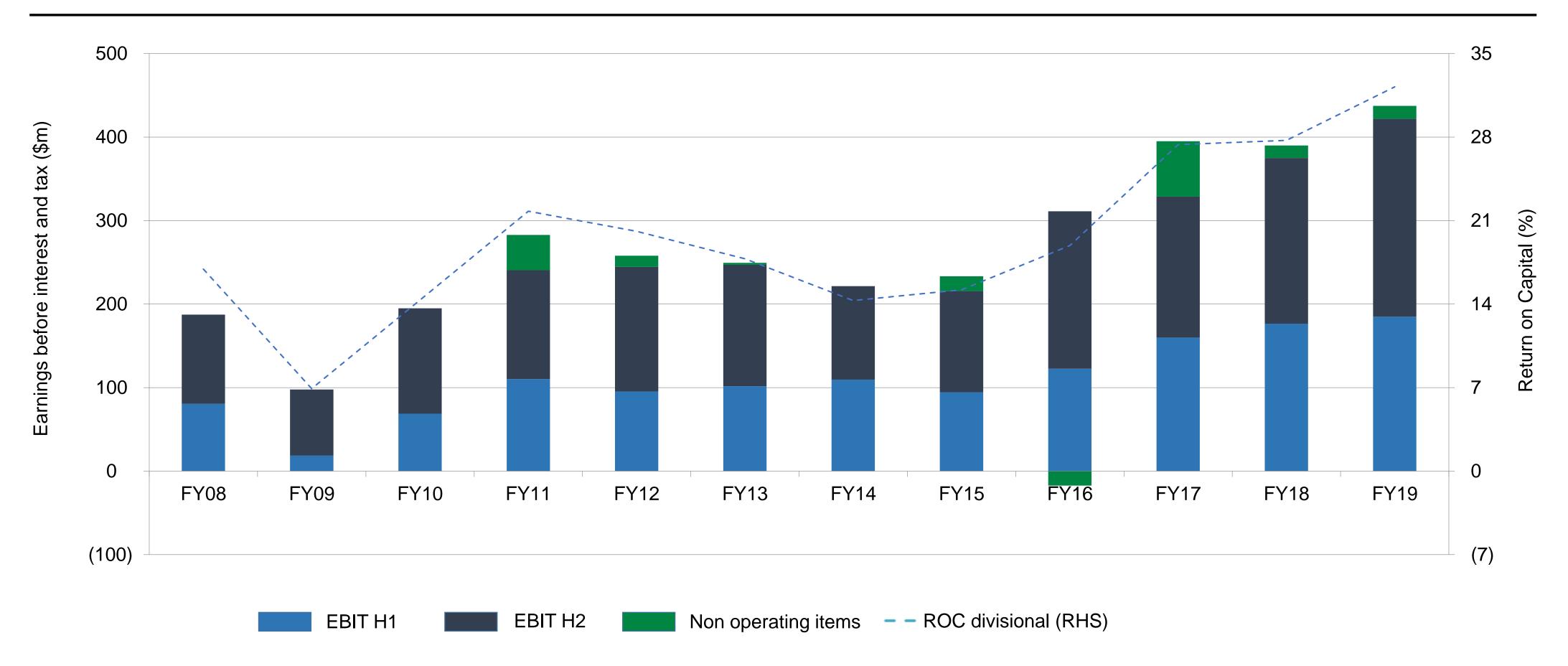
Kleenheat Kwinana Production Facility

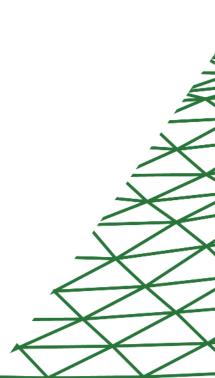




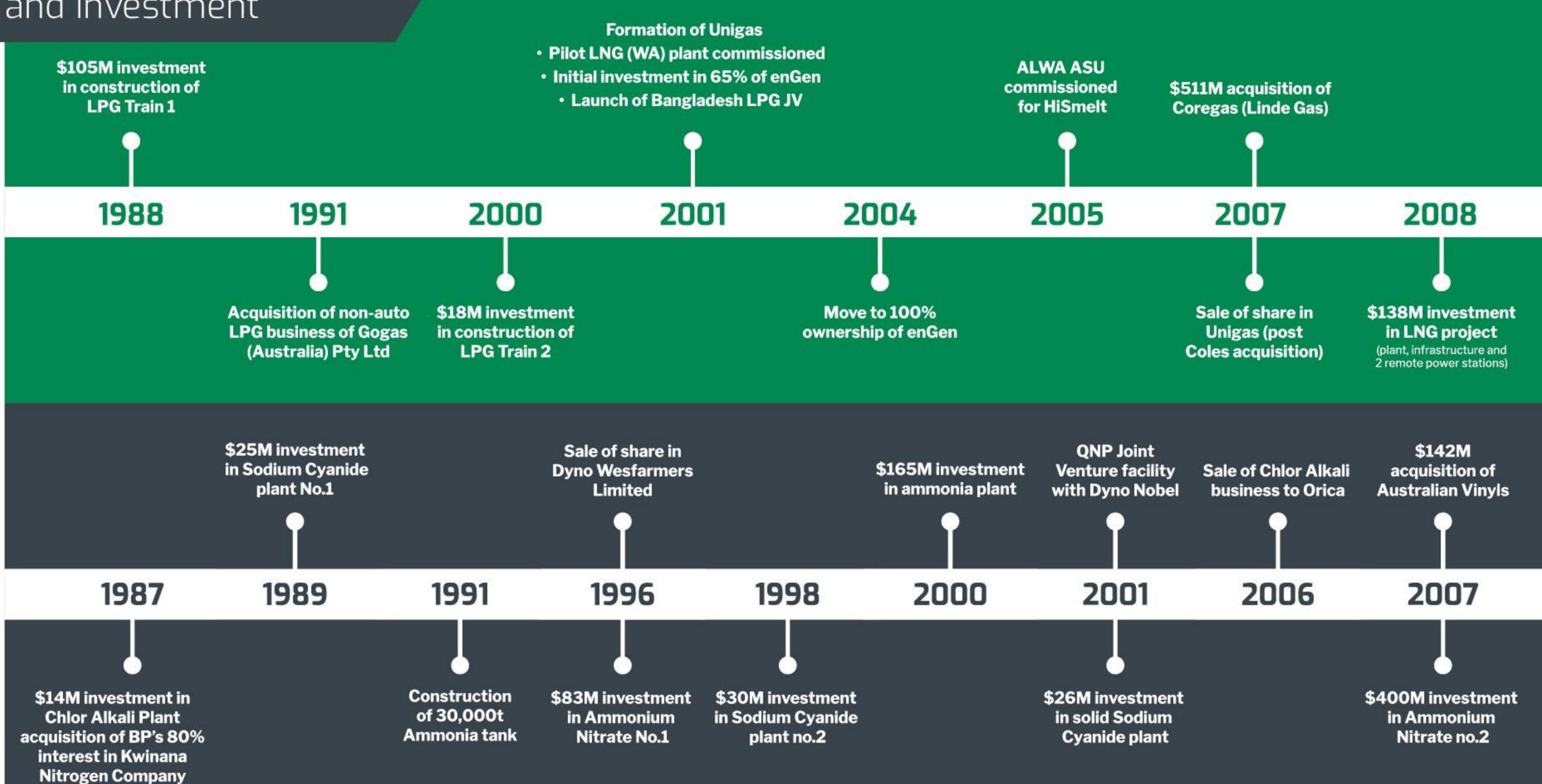
WesCEF Financial Performance

Divisional EBIT and ROC





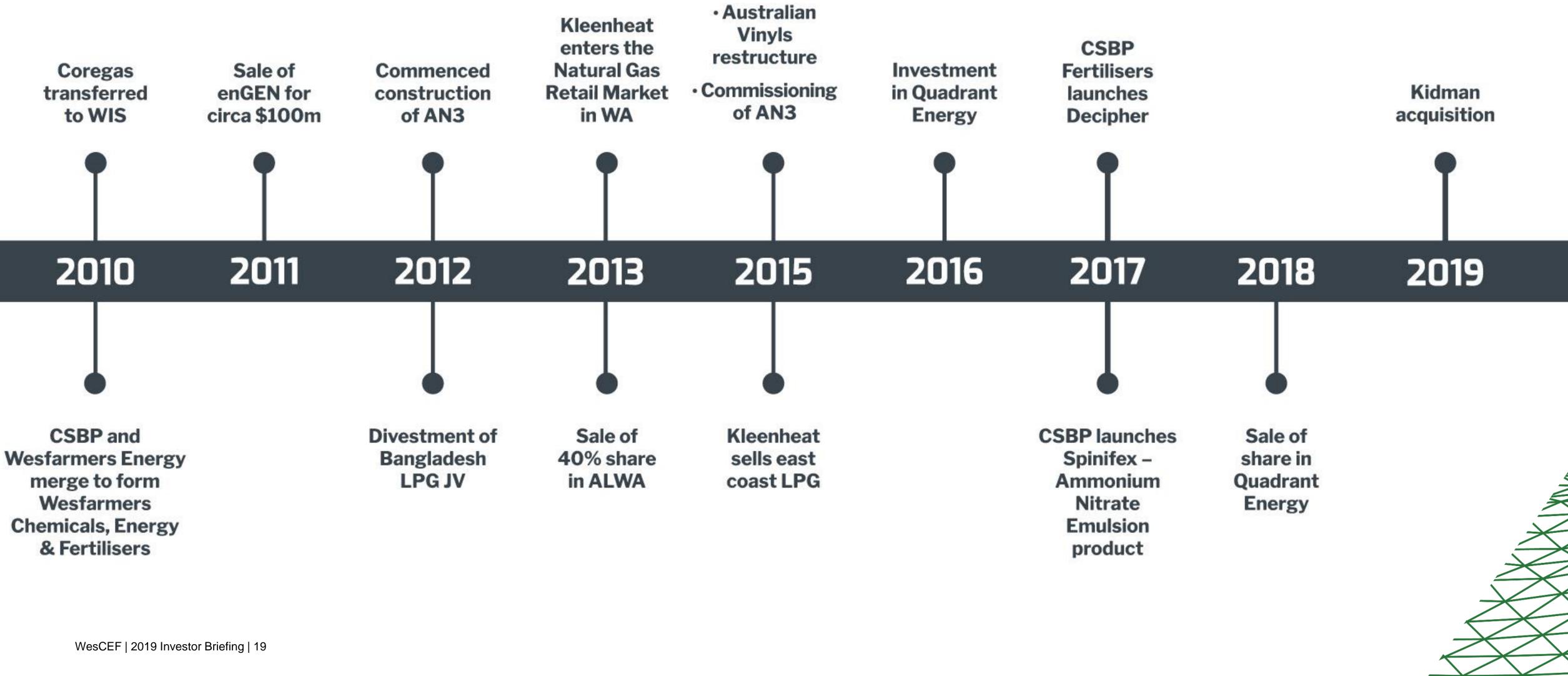
Portfolio Management and Investment

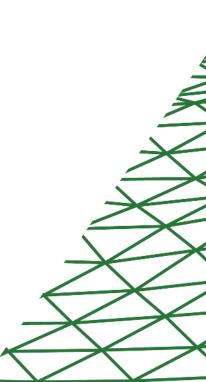


Division

Energy

Portfolio Management and Investment





Innovation & Commercialisation

Foster sustainable growth through creating an innovative mindset

Innovation focussed on continuous improvement and step out growth opportunities

WesCEF Innovation pillars



Carbon impact: effects of climate change



Circular economy: a mindset of turning waste into opportunity



Industry 4.0: emerging technologies such as Internet of Things and additive manufacturing

Advanced Analytics

Leveraging strong history of data driven decision making

Key focus areas

- Growing team of data scientists and data engineers \bullet
- Organisation wide investment in data literacy lacksquare
- Collaborating across industries to achieve fresh insight \bullet into data
- Scaling for petabytes of data \bullet

Use cases

- Predictive models for production optimisation
- Agile delivery
- **Cross-functional team**

Data literacy

- Investing in general data literacy across the organisation
- ~ 50 employees have participated in formal analytics training

Safety, Environment & People

Liane Unewisse

General Manager, HR, HSEQ & Communications



Safety approach & performance

To have a workplace free of high potential incidents



PERSON • PROCESS • PLACE



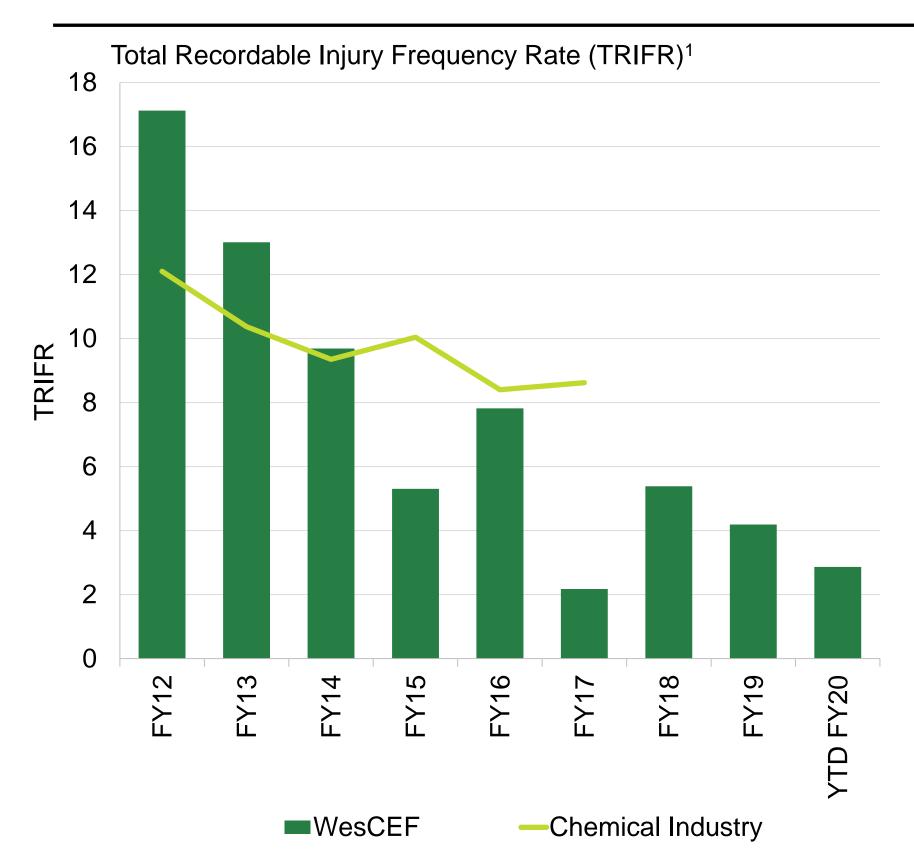


Process Safety

Manages impact on workers and potential impact on facilities and the wider community

1. TRIFR is the number of lost time injuries and medical treatment injuries per million hours worked.

Ongoing improvements in safety performance





Environmental responsibility

Focus on improving environmental impact through:

- Greenhouse gas reductions
 - Implementation of technology over the last 10 years has reduced CO₂ emissions by 80%
 - Further information available in Wesfarmers Annual Report in line with Task Force on Climate-Related **Financial Disclosures recommendations**
- Legacy waste and land remediation
- Water usage and wastewater management
- Energy efficiency already a net energy producer



Investment in our people

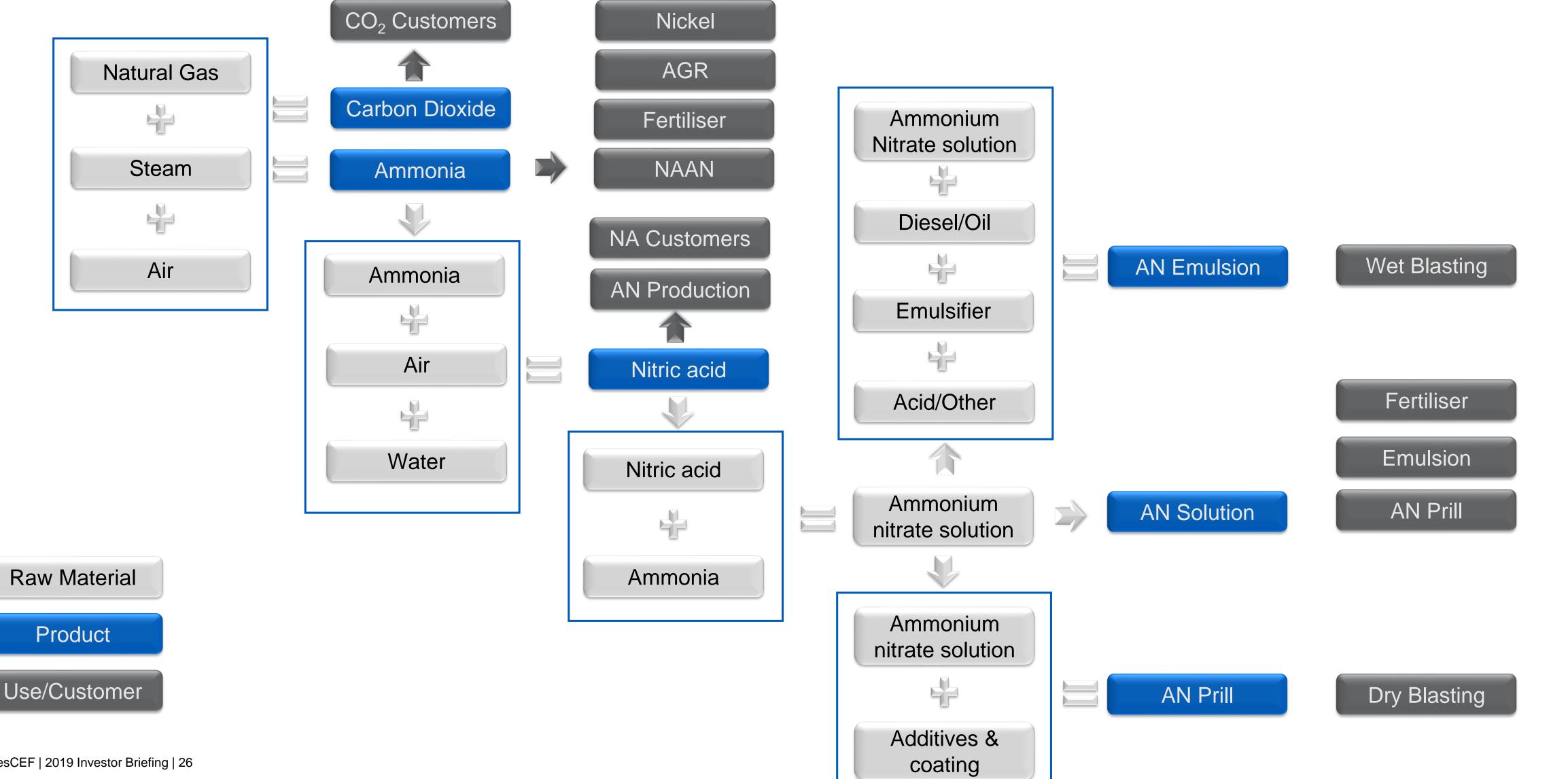
Continued investment in the capabilities of our people:

- Ensuring competence of hundreds of operational employees in dozens of safety and technical skills
- Every year induct, train and supervise over 2,000 contractor employees as they undertake a range of maintenance and shut down activities in our operations
- Identifying and building skills in new technology and systems
- Evolving our culture to be agile, curious, inclusive as well as safety conscious
- Continuous improvement focus across all operations, businesses and functions forms part of our discipline





Ammonia/Ammonium Nitrate Production processes, products and uses



Plant capacities

Plant	Nameplate Capacity (ktpa)	Current Capacity (ktpa)	Year Commissioned
Ammonia	225	255	2000
AN 1 (solution)	200	275	1996
AN 2 (solution)	235	275	2008
AN 3 (solution)	260	275	2014
Total AN	695	825	
Prill Plant	350	620	2008
Emulsion ¹	>100		2017

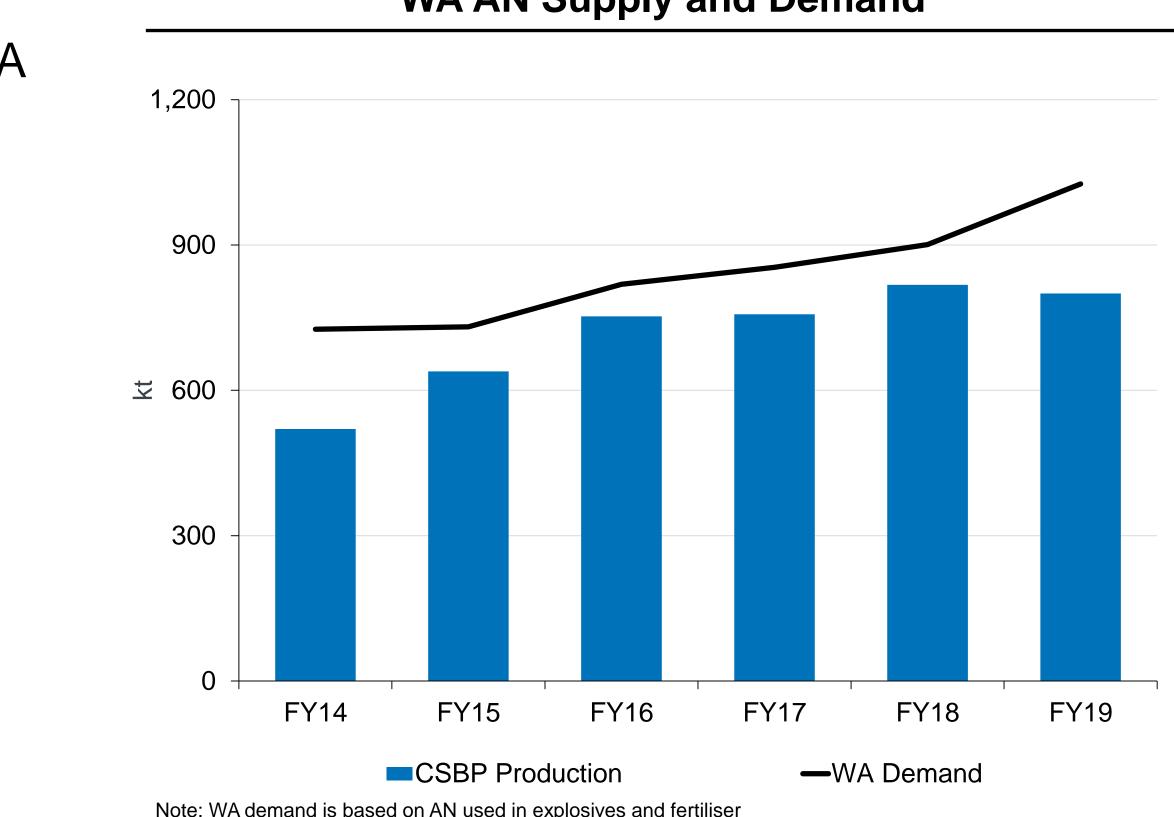
Over time, disciplined investment and operational improvement have delivered significant improvements in production and plant capacity

1. Emulsion capacity refers to instantaneous rate



Ammonium nitrate flexibility and optionality

- CSBP is a reliable supplier of Ammonia and Ammonium Nitrate (AN) - #1 AN supplier in WA
- History of ongoing investment and continuous improvement
- Ability to switch AN production between Explosives Grade AN (EGAN) and Fertiliser manufacture
- Currently exporting AN to the east coast
 - Proven sales channel and supply chain to leverage export opportunities as required



WA AN Supply and Demand

Note: WA demand is based on AN used in explosives and fertiliser Source: CSBP internal analysis



Overview of ammonia facilities



Overview of ammonium nitrate facilities

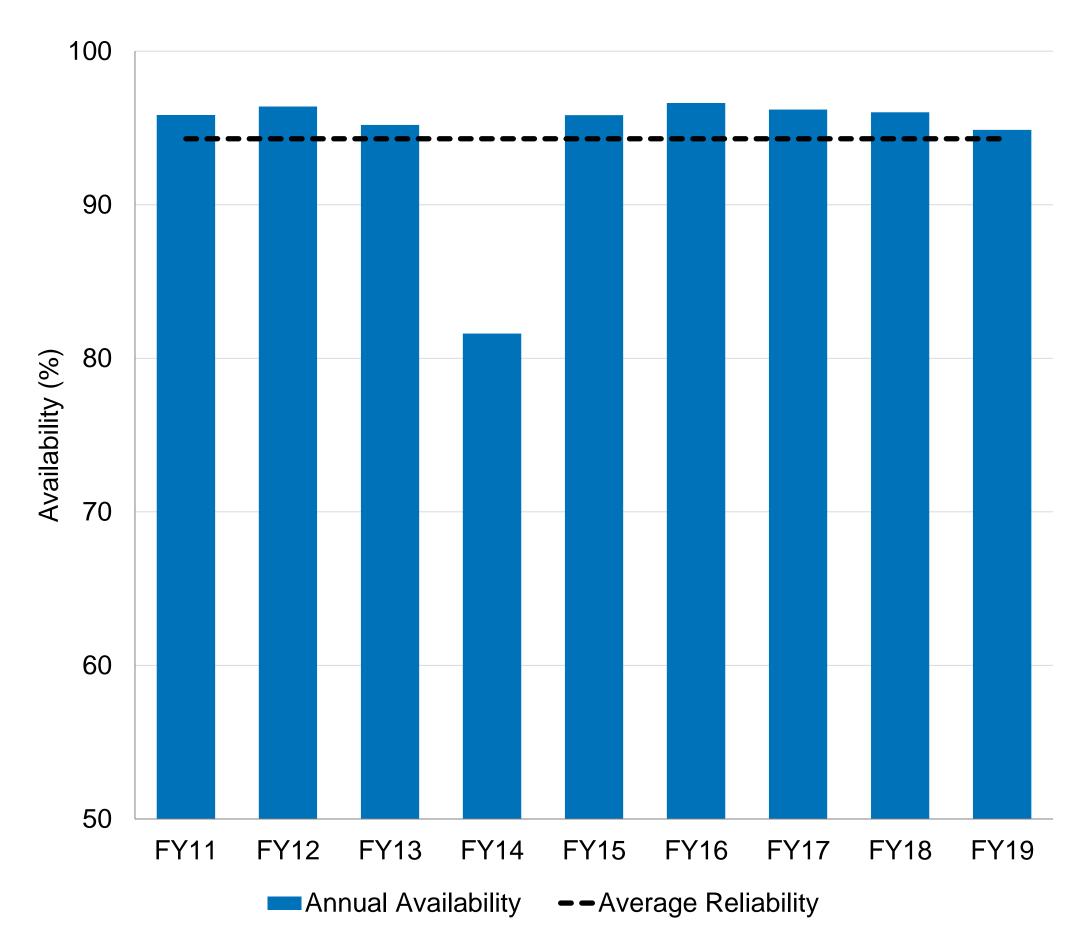


Nitric acid plant performance

- Average nitric acid plant availability of 94.3% - in the top 35% of global nitric acid producers³
- Nitric Acid Train 3 availability of 96%; scheduled for first major maintenance shutdown in 1H20
- FY14 availability driven by an extended single event outage related to an OEM⁴ refurbishment

Nitric acid plant performance highlights continuous focus on delivering world-class performance

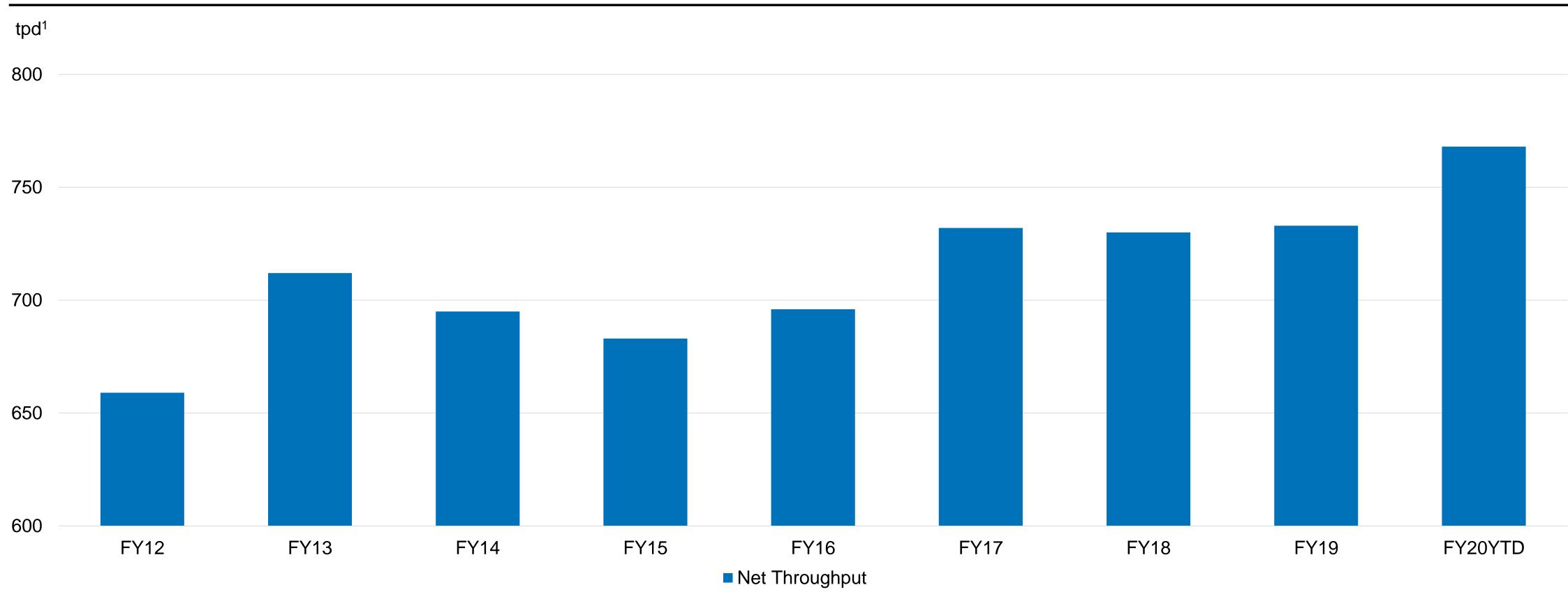
- 1. Excluding planned major shutdowns
- 2. Average of NA1, NA2 and NA3
- 3. Independent benchmarking 2016
- 4. OEM Original Equipment Manufacturer



Average Plant Availability^{1,2}



Ammonia plant performance



1. Tonnes per day while the plant is online

Ammonia plant daily rate

Ammonia performance highlights focus on delivering continuous improvements in plant performance



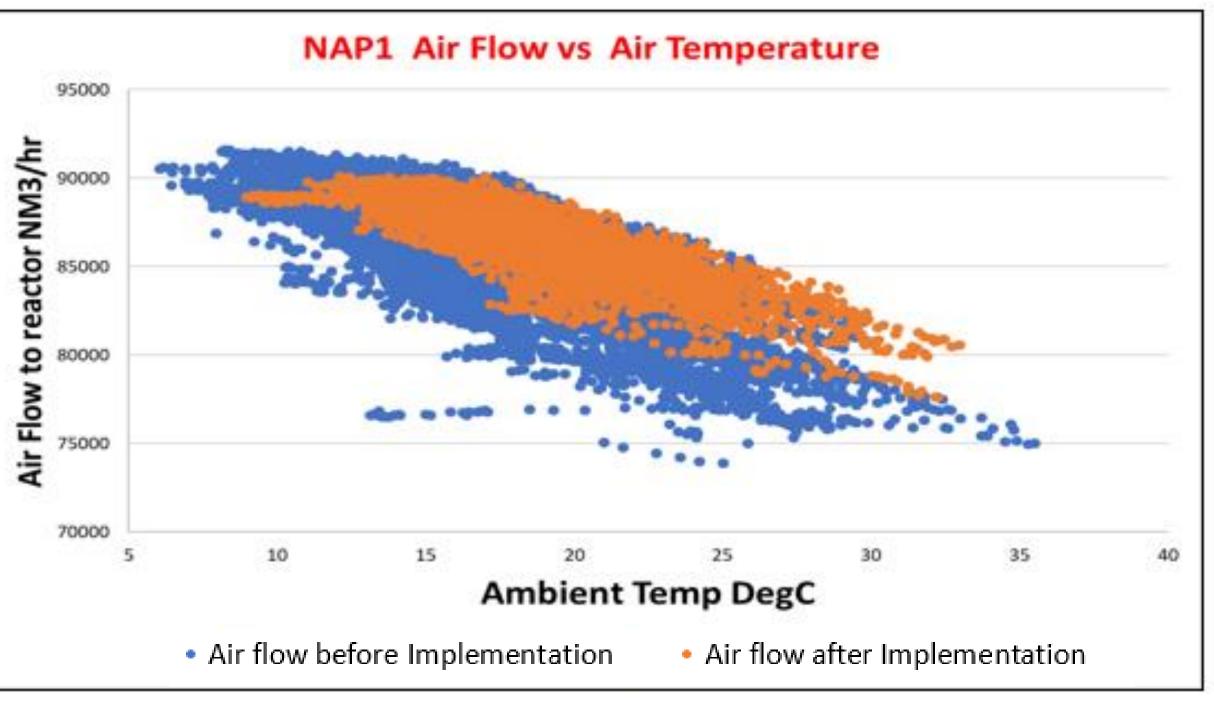
Case study: Making better use of data in nitric acid plant

- Bottleneck is Nitric Acid
- Nitric Acid rate limiter is Air flow
- Air flow is reduced in higher temperatures, but is influenced by other factors, including operator control
- November 2018: recommender system implemented
- July 2019: NAAN Train 1 plant achieved highest monthly production in 22 years
- FY20: Include dynamic updates using an online data model with AAC¹ support, and automatic DCS² control requiring no operator intervention

Improvement in plant performance delivered through recommender system translates to **~\$2m** p.a. EBIT uplift

2. Distributed Control System

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Overview of Sodium Cyanide business

- Australian Gold Reagents (AGR), is a joint venture between CSBP (75%) and Coogee Chemicals (25%)
- CSBP is the operating and sales agent ullet
- Manufactures Sodium Cyanide for recovery of gold in mining
- Only producer of Sodium Cyanide in Western Australia
- No serious or significant events in 30-year operating history
- Australia is the second largest gold mining country; two thirds of gold mined is in WA

Plant

Sodium Cyanide Liquids Plant No 1 Sodium Cyanide Liquids Plant No 2 Sodium Cyanide Solids Plant



Commissioned	Production Capacity (tpa)
1988	Combined total
1998	of >90,000
2002	>45,000



Three different products are provided to meet customer needs

Solution

- 30% Sodium Cyanide
- Delivered ready for use
- No onsite water needed
- No site handling
- No box destruction
- Lower inventory
- Increased freight cost

Midwest / Goldfields WA



Solid to Solution

- ~98% Sodium Cyanide
- Requires onsite mixing
- Requires water onsite
- No onsite handling
- No box destruction
- Lower inventory
- Minimises freight costs

Remote WA, interstate, overseas



Solids

- ~98% Sodium Cyanide
- Requires onsite mixing
- Requires water onsite
- Onsite handling
- Box destruction required
- Boxes easy to store
- Minimises freight costs

Interstate and overseas





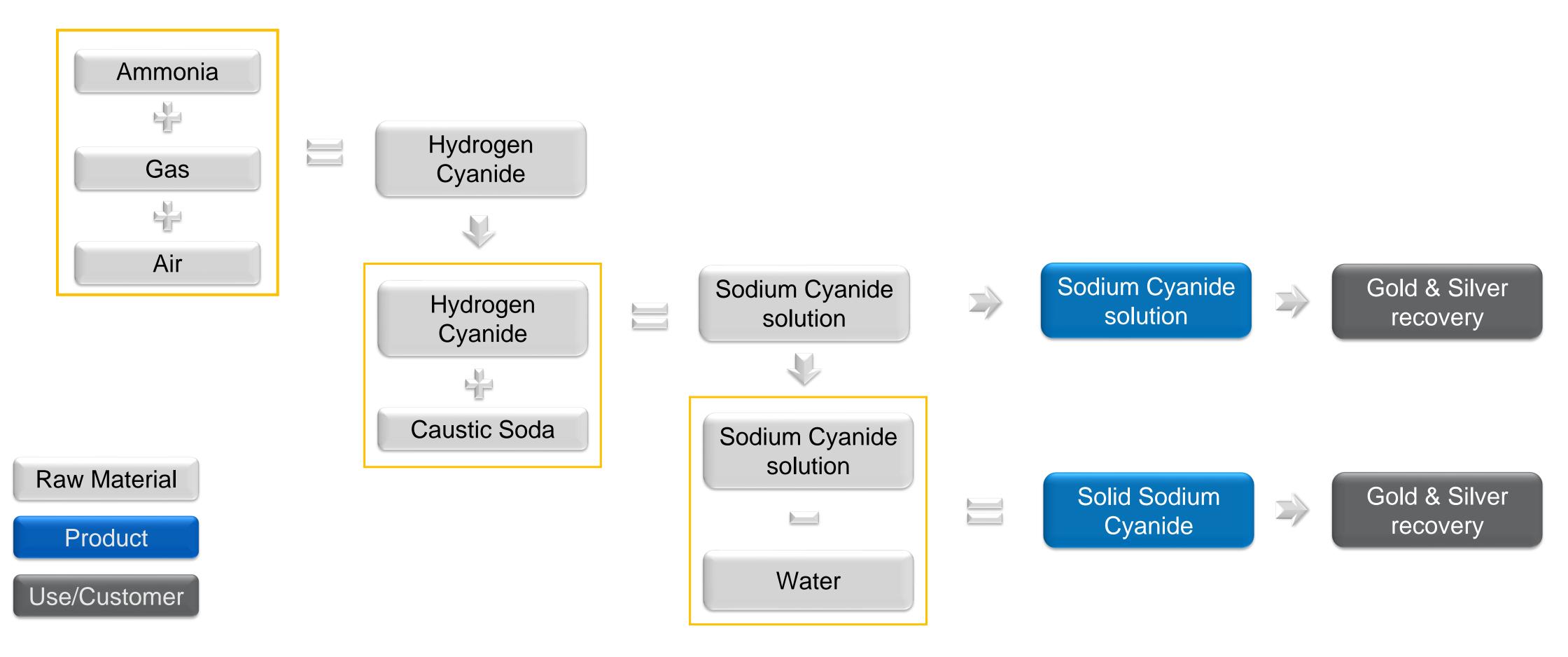
AGR Global Customer base







Sodium Cyanide production process





Value-added services represents a key part of the product offering

AGR offers services to ensure the safe and efficient use of Sodium Cyanide

1. Transport

- Audits of logistics providers
- Route reviews for transport

2. Training

Training of customers' team in safe handling of Sodium Cyanide

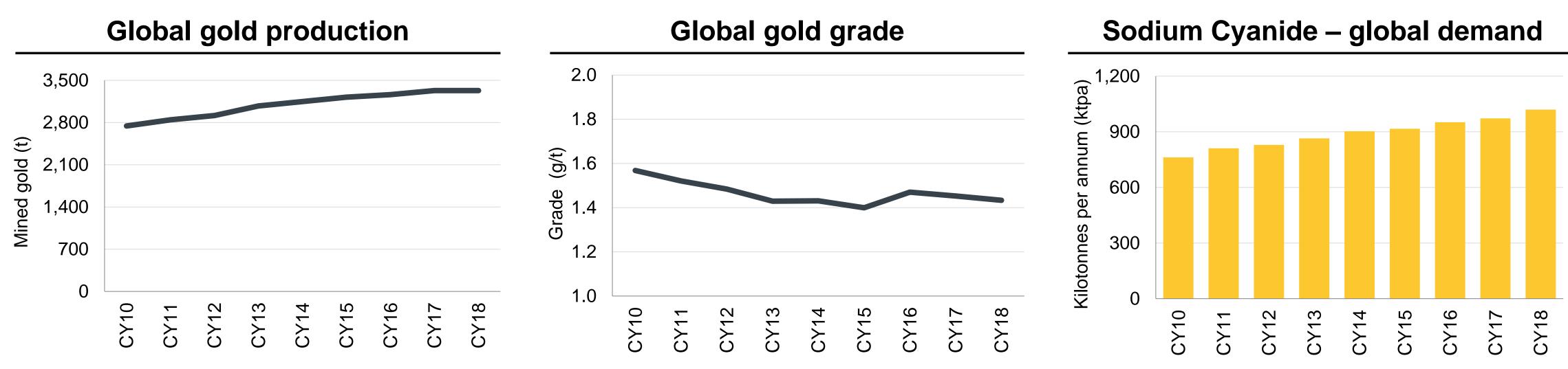
3. International Cyanide Management Institute (ICMI) compliance

- Assistance for customers and transporters to obtain and maintain ICMI code compliance
- 4. Sodium Cyanide usage
 - Assistance with efficiency of Sodium Cyanide use through \bullet Australian Minerals Industries Research Australia program





Global gold production, grade and demand for Sodium Cyanide

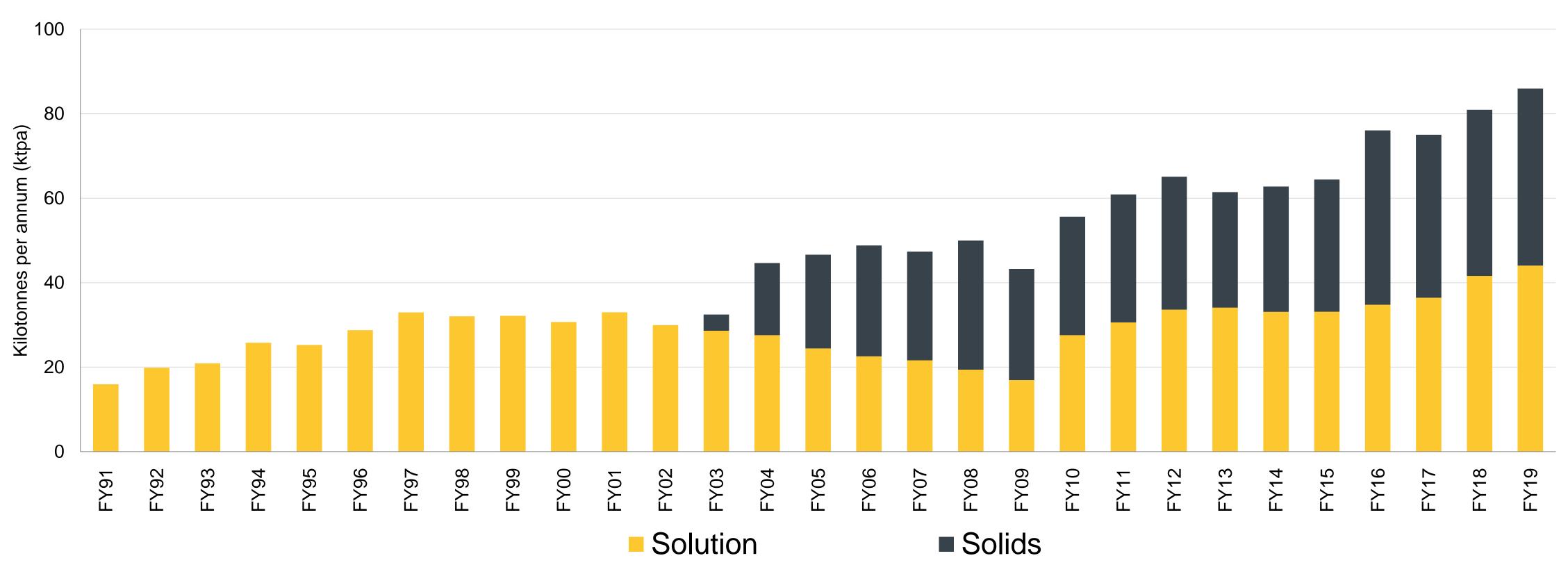


Source: AME, Wood Mackenzie, CSBP analysis

Sodium Cyanide demand is supported by increasing gold production and decreasing gold grades, requiring more ore to be processed to extract a given amount of gold



Sodium Cyanide production growth



Since 1991, annual production capacity has increased by an average of 2.5ktpa, highlighting the continued focus on operational excellence and disciplined investment over time

Sodium Cyanide – Annual Production



Kleenheat

Vision: The energy solutions provider of choice

Mark Gadsby

General Manager, Kleenheat

AUV







Kleenheat is a WA-focused energy solutions provider











Market overview

					LPG Retail ¹
	LPG		NATURAL GAS	ELECTRICITY	Electricity Retail - South West Interconnected System (SWIS)
Competitive position	#1 ~55% share	#1 55% share	#2 27% share	#4 contestable market in WA	Natural Gas Retail LNG Retail Port Hedland
Market dynamic	Mature, declining domestic market	Growth market	Active competition, maturing market	Dominated by Synergy; full retail contestability unclear	
Competitive advantage	Production facility, established infrastructure	Production facility, transport economics, expertise	Trusted / strong local brand, customer service	Challenger brand, leverage long wholesale market	Geraldton Perth
esCEF 2019 Investor Briefing 4	-	gas availability underpine	s these segments		Albany



LPG Distribution and Retail



- Established in WA over 60 years ago lacksquare
- Market share leader lacksquare
- Servicing all LPG markets (bulk, forklift, residential, autogas and leisure)
- Bulk uses include industrial heating, food lacksquareproduction, minerals processing and fabrication



- Declining domestic market \bullet driven by autogas market decline
- Supply from own production (WA) and import facility (NT)



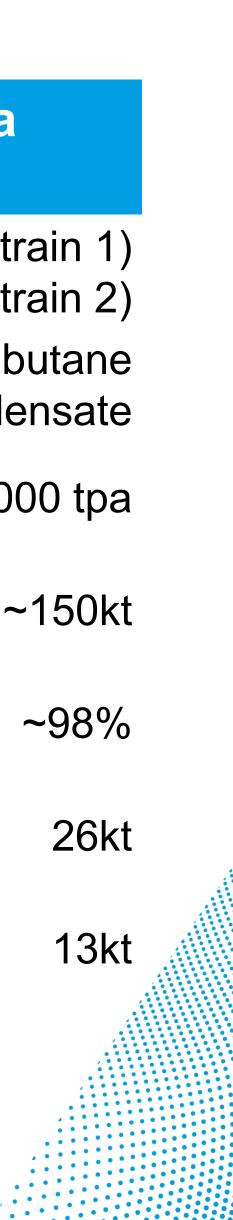


LPG production facility



LPG production at Kwinana Production Facility (KPF)

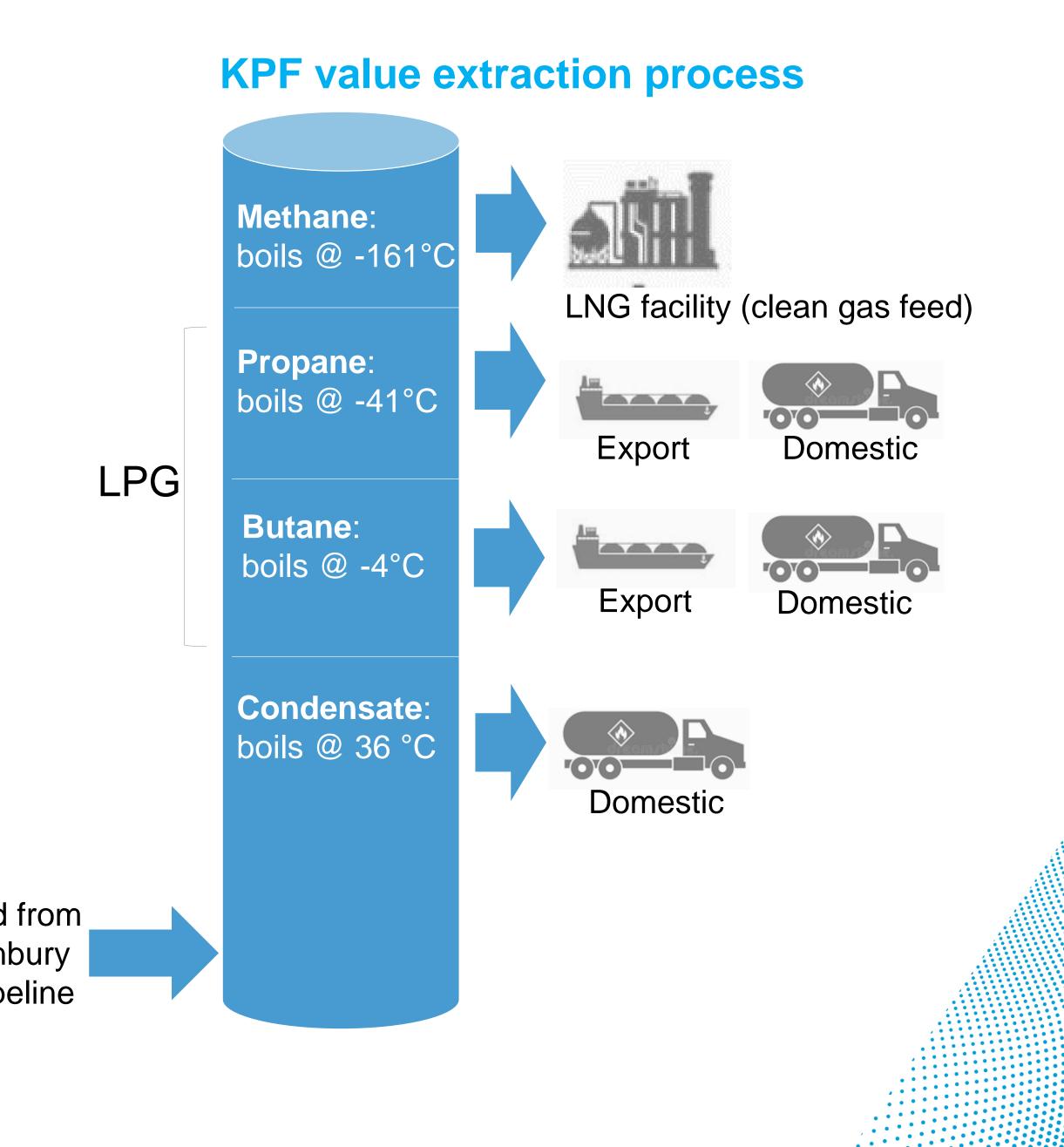
Commissioned	1988 (train 2000 (train
Products	Propane, buta and condensa
Capacity	350,000 t
Production (all products)	~15
Availability	~98
Propane storage	20
Butane storage	1:



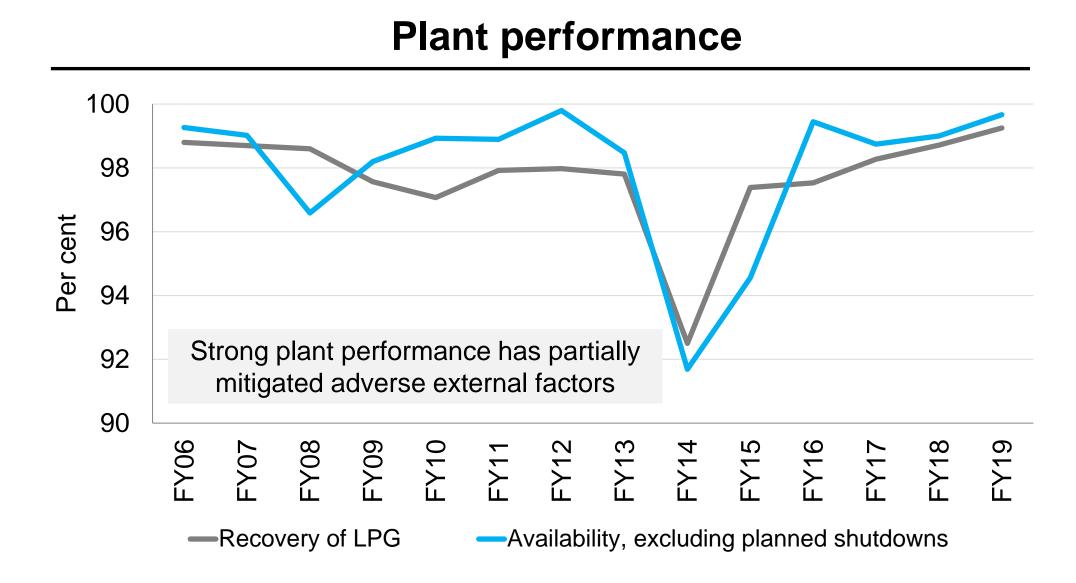
LPG production process

- Largest domestic-focused LPG facility in WA
- Processes LPG via available flow from \bullet Dampier to Bunbury Natural Gas Pipeline
- Domestic and export markets \bullet
- Value drivers: ullet
 - Plant performance
 - International LPG price (Saudi CP) lacksquare
 - Pipeline LPG content and flow
 - Domestic demand

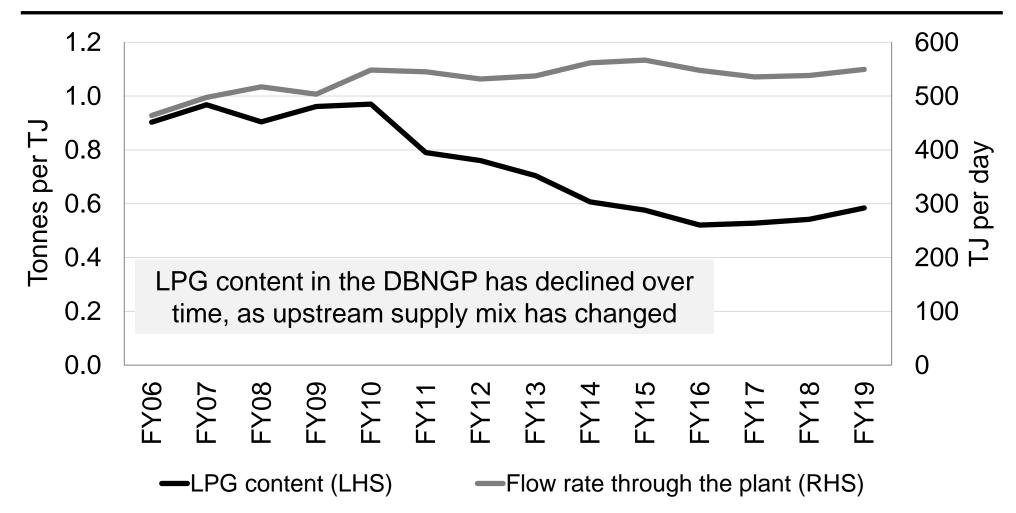
Natural gas feed from Dampier to Bunbury Natural Gas Pipeline



Key drivers of LPG business

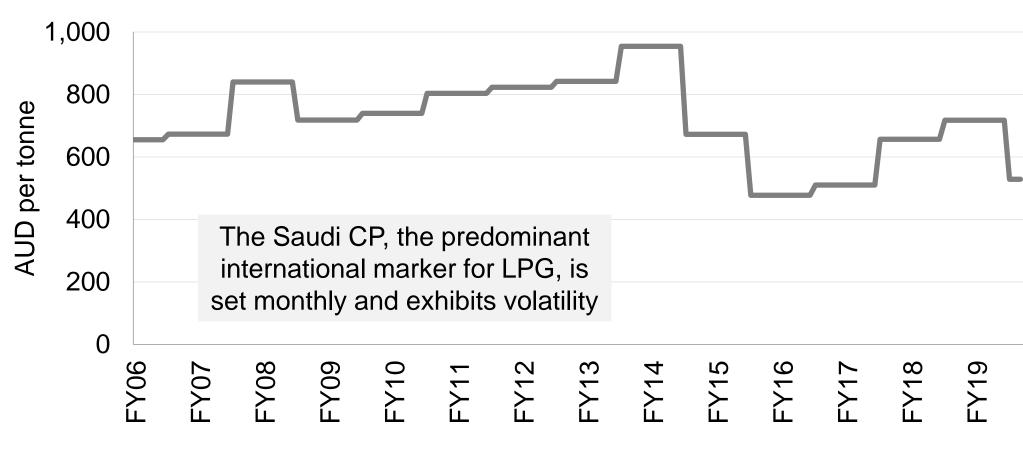


Pipeline LPG content and flow

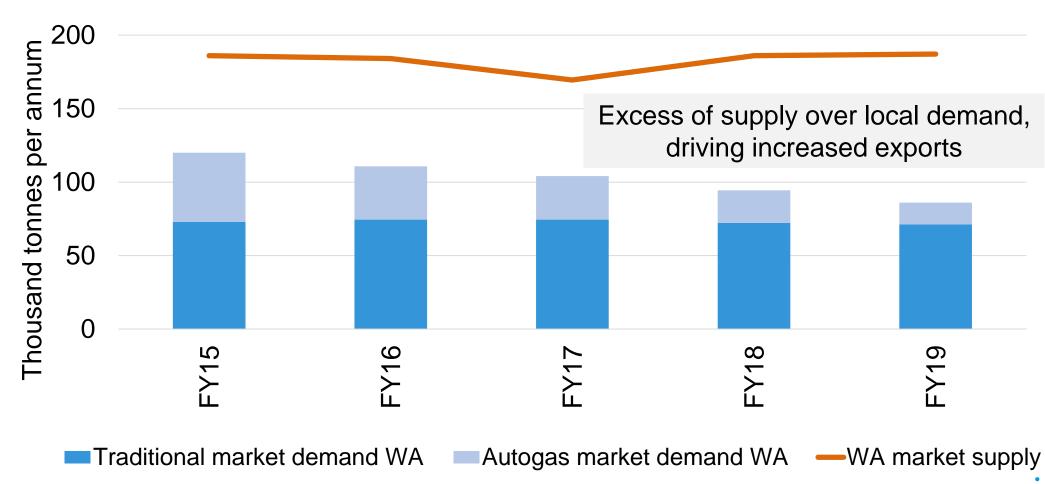


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Saudi Contract Price



Source: Gas Energy Australia



Domestic demand and supply for LPG

Source: internal estimates, Gas Energy Australia



LNG business overview

- EVOL LNG business services remote power generation, marine, export and industrial markets by offering a cleaner alternative to diesel
- Over 225,000t CO2-e avoided¹ in WA power generation, and over \$80m in savings² to those customers
- Economic delivery range is ~1,000 km
- Value drivers:
 - LNG production/plant availability
 - **Diesel price**
 - Mining activity (particularly gold)

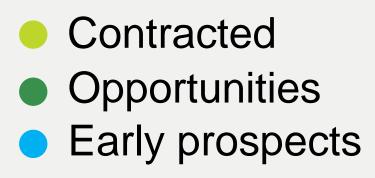
- 1. Scope one emissions, internal estimates
- 2. Savings compared to diesel

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LNG Customers

Good pipeline of prospects with strong mining activity in WA



30+ tonnes per day

- 20-30 tonnes per day
- 10-20 tonnes per day
- 0-10 tonnes per day







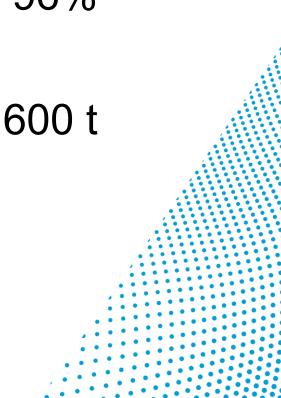




LNG production facility

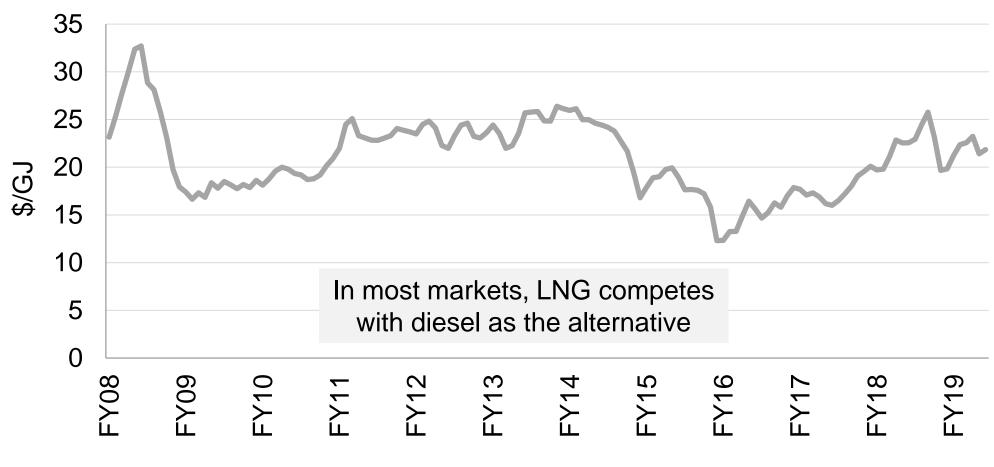


LNG production at Kwinana Production Facility (KPF)				
Commissioned	2008			
Products	Liquefied Natural Gas (LNG)			
Capacity	200 tpd			
FY19 production	140 tpd			
Availability	~96%			
LNG storage	1,600 t			



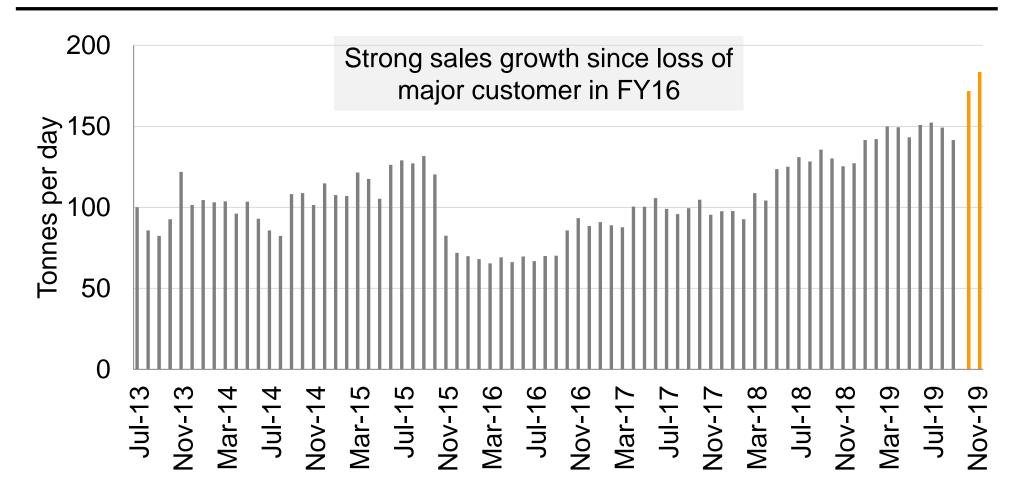
Key drivers of LNG business

Diesel price

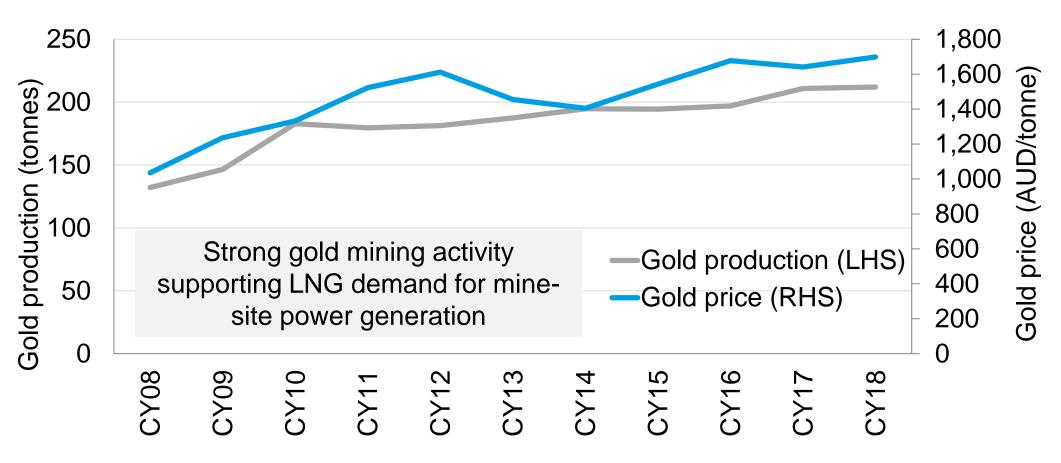


Source: Perth terminal gate price per AIP, excluding excise and GST

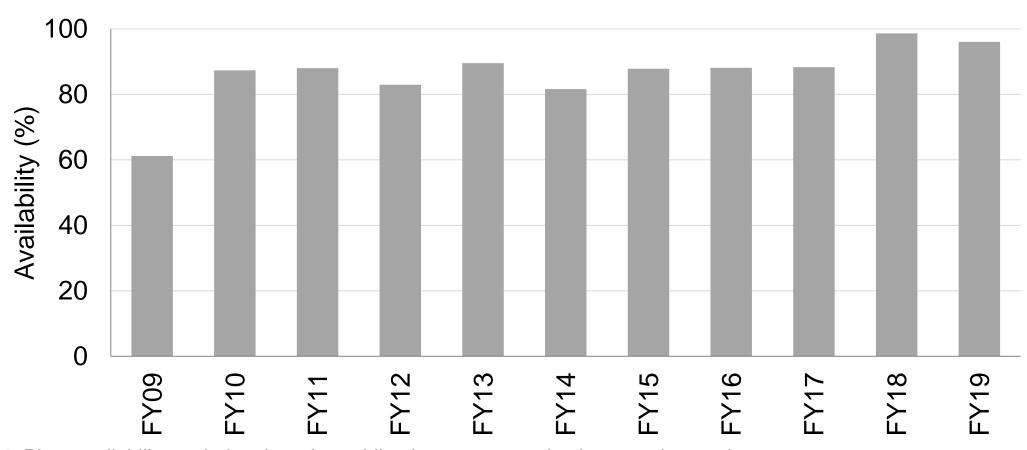
LNG sales volume



WA gold production and gold price

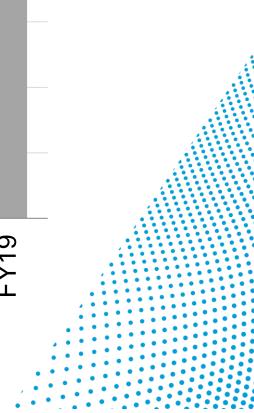


Source: Department of Mines, Industry Regulation and Safety (production), Bloomberg (price)



LNG plant availability¹

1. Plant availability excludes downtime while plant was operating in campaign mode

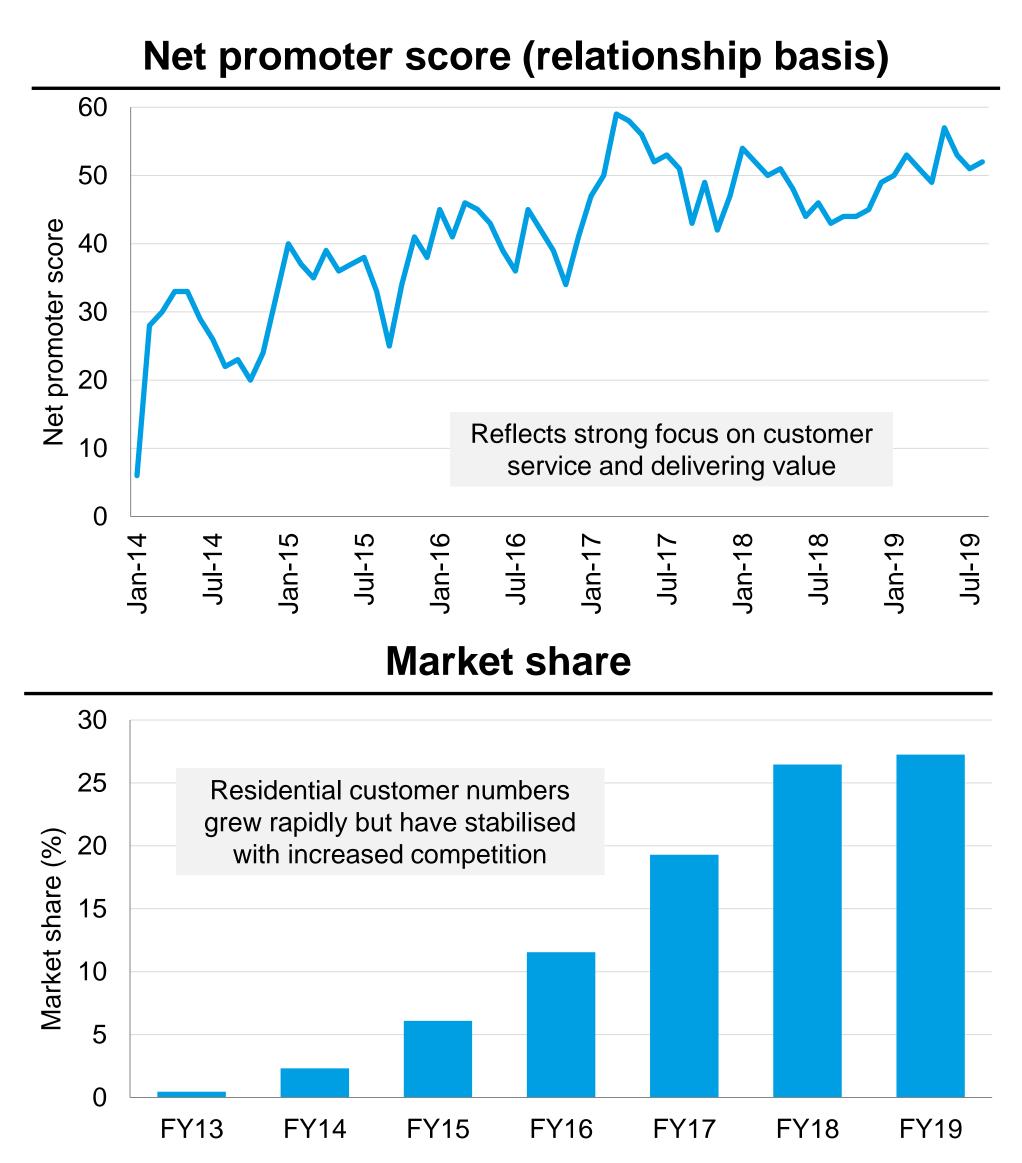


Retailing natural gas

- Commenced retailing to the WA market in March 2013
- Around 200,000 customers (~ 27% share, #2 position)
- No physical assets: account management and marketing business
- Serving residential, small to medium enterprise (SME), commercial and industrial markets
- Crowded market five retailers now competing in WA \bullet



Retailing natural gas – Customer growth and satisfaction



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Brand strengths

- WA born and bred
- Local customer service
- Ongoing discounts
- Community involvement

Spontaneous awareness

66% (market research, Q3 2019)









Fertilisers

Vision: Trusted to deliver the best for growers

Ian Hansen

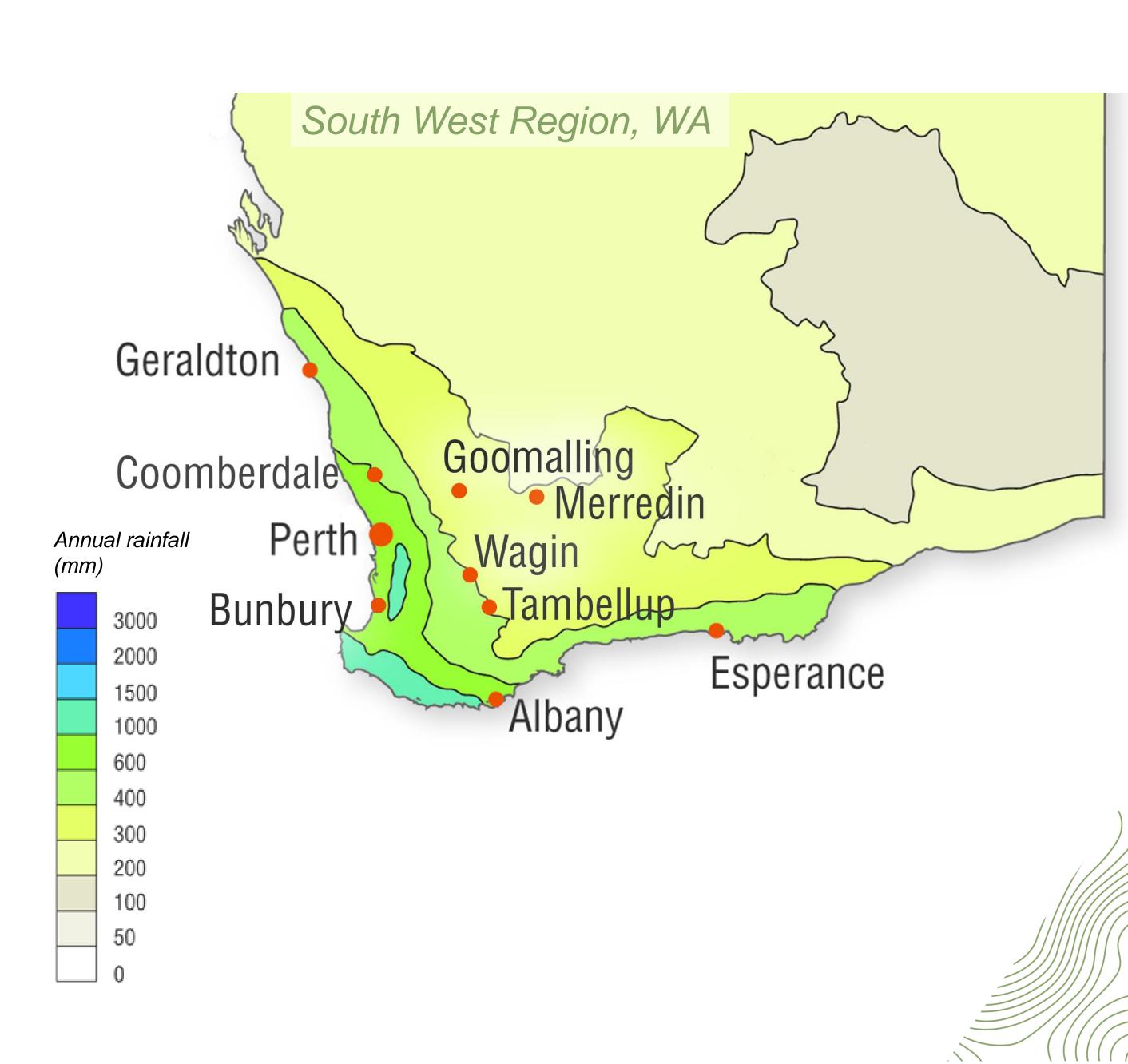
Chief Executive Officer, WesCEF





Western Australian agriculture

- Nutrient deficient soils
 - Requires nitrogen, phosphates and potassium (NPKs)
- Long-term declining sheep numbers
 - Shift from pastures to crops
- Small dairy, beef and horticulture sectors
- Dominated by broadacre cropping
 - Wheat, barley, canola, malt and lupins
- One-harvest season per year
 - Reliant on winter rainfalls, volatility
- Consolidation and corporatisation of farms



Overview of CSBP Fertilisers

Key products and services	 Largest supplier of granular conditions Value-adding services and A Product and service develo
Business model	 Manufacturer and importer based fertilisers in blended, Dedicated soil & plant analy Over 90 years of trials reseated Dedicated sales force of 50 nutritional advice
Competitive advantage	 Kwinana site established in Only WA manufacturer of su Leader in the development Leveraging local agronomis

ar and liquid fertilisers developed specifically for WA soils and

- AgTech products
- opment
- of wide range of quality nitrogen, phosphate and potassium-
- lysis laboratory
- earch
- 0 team members plus a network of agents delivering quality

n 1967 with key access and logistical advantages

- superphosphate and granular fertilisers
- t of liquid fertiliser products
- st knowledge through services



Fertiliser facilities at Kwinana





Flexi-N Development

- CSBP introduced liquid Flexi-N (UAN¹) to the WA market in 2003 as an alternative to solid nitrogen e.g. Urea
- Leverages underutilised, fully-depreciated storage assets and CSBP's AN solution production capacity
- Local manufacturing supplemented by large shipments via a dedicated jetty pipeline
- Growers recognise the logistical and agronomic advantages of Flexi-N over solid nitrogen and have invested significantly in on-farm Flexi-N storage

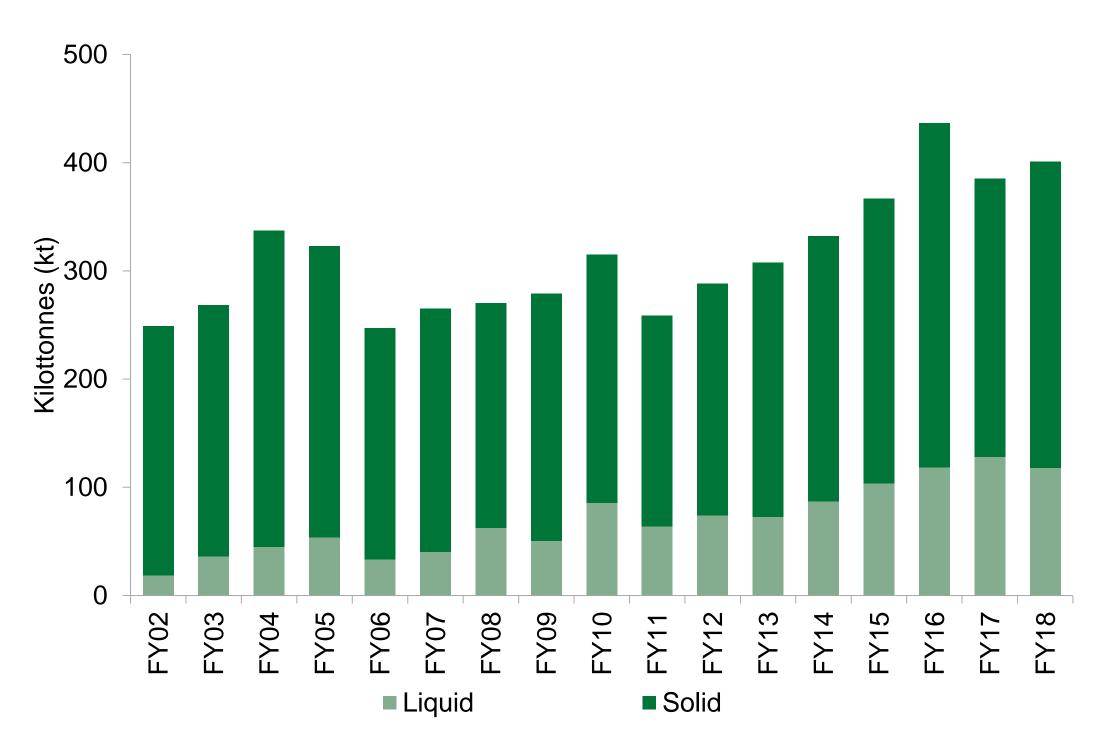




Flexi-N Development (continued)

- UAN now represents over 30% of total WA nitrogen requirements; Flexi-N the market leader
- Growth in nitrogen, especially UAN, driven by:
 - Higher yielding crop varieties
 - Increased planted area
 - Move away from pasture ____
- CSBP is currently progressing with a capital investment which will increase Flexi-N storage and despatch capacities in Kwinana by 50%

WA Market nitrogen volumes (nutrient tonnes)





Decipher Investment

- Launched Decipher as the Geospatial Information System platform for agriculture ulletin October 2017, based on an evolution of CSBP's research into this area
- Powered by Google Earth Engine, Decipher enables growers and their advisors to ulleteasily visualise farm data enabling informed nutrition management decisions
- Decipher recently expanded to include mining rehabilitation lacksquare

DecipherAg – Agriculture

 Provides reliable vegetation analysis helping growers optimise yield and return-on-investment

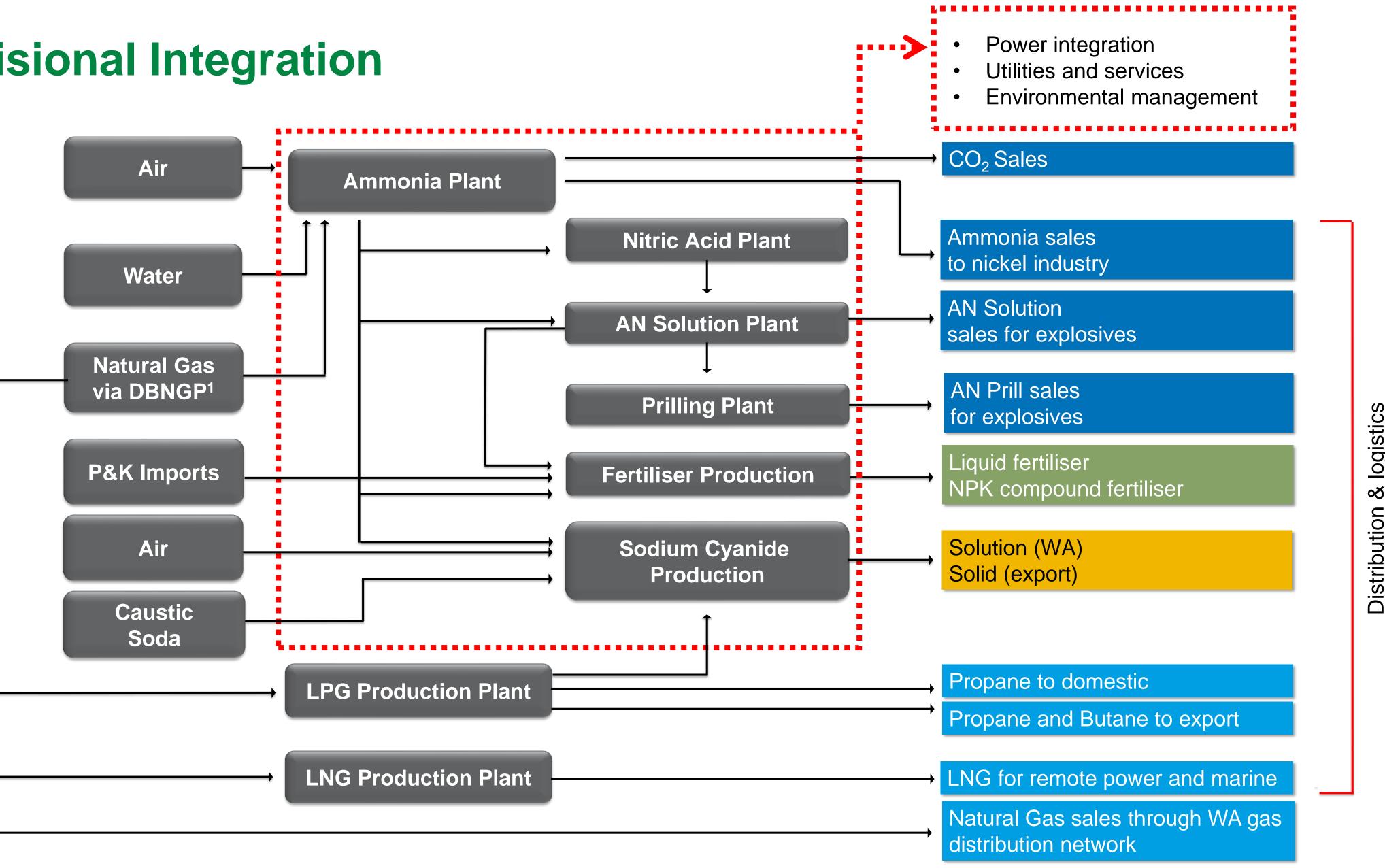
DecipherGreen – Mine rehabilitation

 Provides one central platform for customers to visualise vegetation performance and health



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Divisional Integration



1. Dampier to Bunbury Natural Gas Pipeline

Distribution & logistics





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