Senex Energy Limited

Positioned for growth

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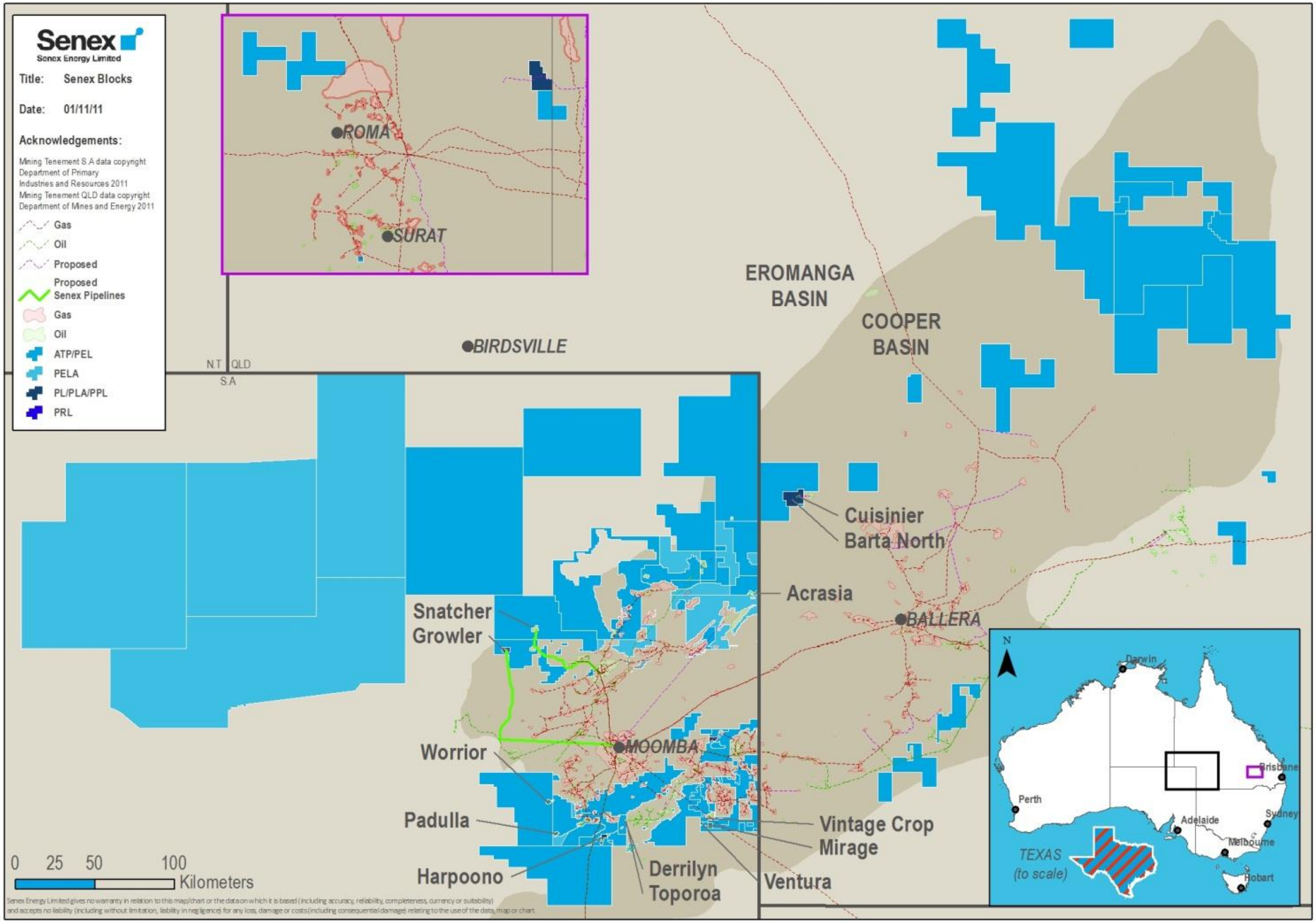
Reserves

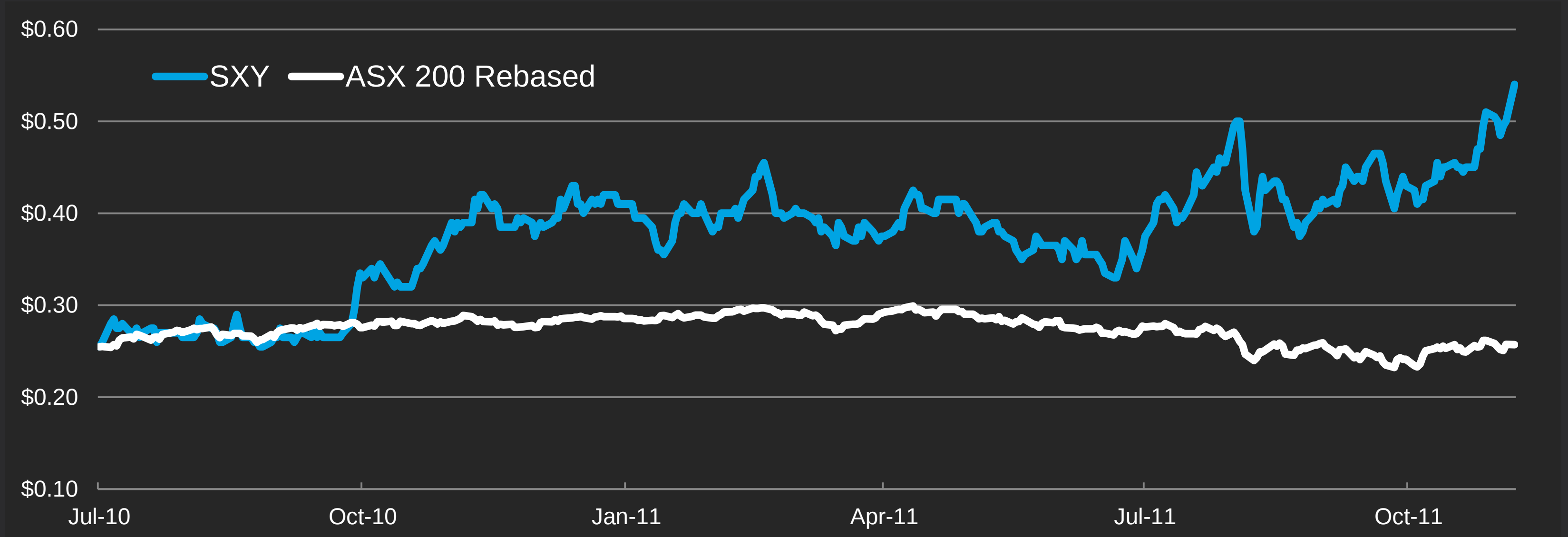
Unless otherwise indicated, the statements contained in this presentation about Senex's reserves estimates have been prepared by Dr Steven Scott BSc (Hons), PhD, who is General Manager – Exploration, a full time employee of Senex, in accordance with the definitions and guidelines in the 2007 Petroleum Resources Management System approved by the Society of Petroleum Engineers (**SPE PRMS**). Dr Scott consents to the inclusion of the reserves estimates in the form and context in which they appear. Senex's reserves are consistent with the SPE PRMS.

Introducing Senex Energy Limited (ASX:SXY)

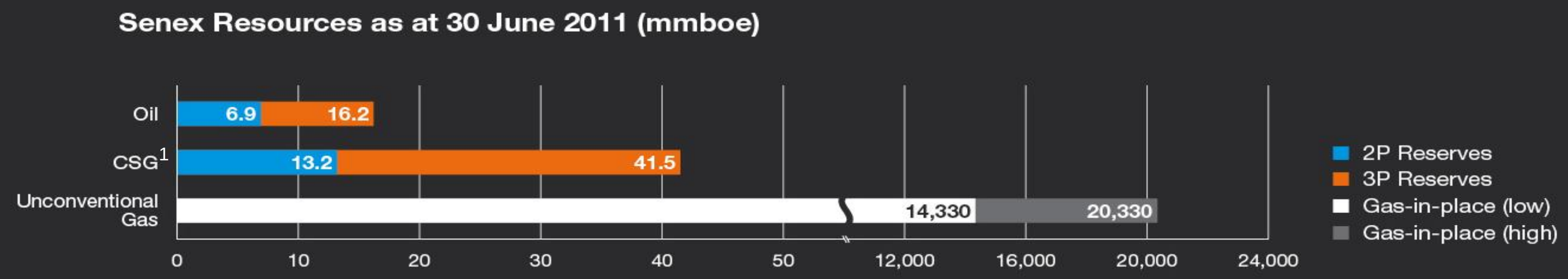


A strong and resourceful energy company

Senex share price materially outperforms the S&P/ASX 200



Oil, coal seam gas and unconventional gas resources in strategic locations



[1] 2P Reserves equivalent to 79 PJ. 3P Reserves equivalent to 249 PJ

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2010/11 Growth Highlights

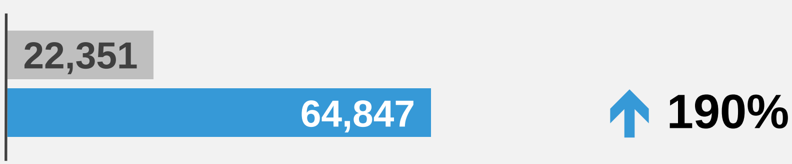
Net 2P oil reserves (mmbbls)

Net 3P oil reserves (mmbbls)

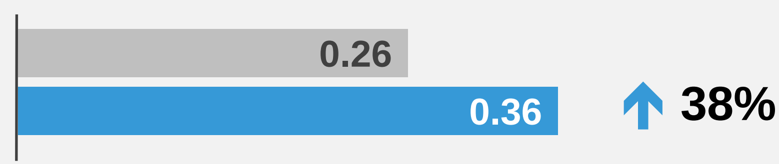
Net 2P gas reserves (PJ)

Net 3P gas reserves (PJ)

Net land position (km²)

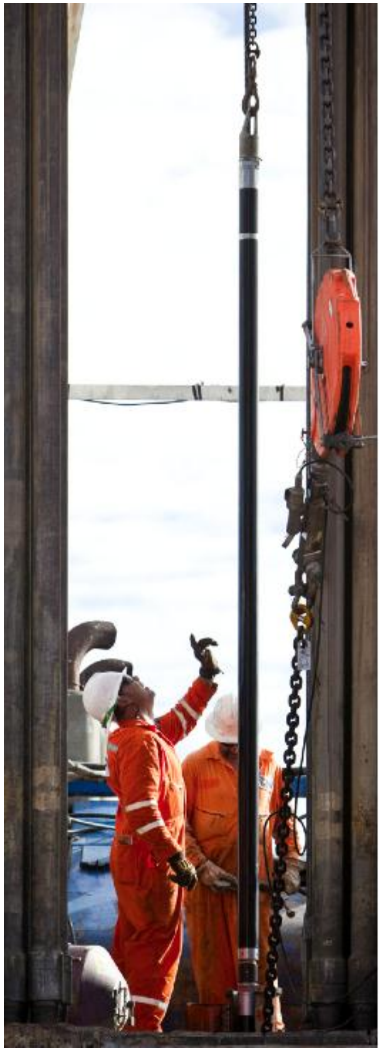


Share price ($AU)



2009/10 2010/11

A clear path to value and growth



1. **Grow the oil business to generate cash flow**
   - Cooper Basin flooding issues being resolved
   - Targeting >700,000 barrels of oil (net) in 2011/12
   - Drilling 11 western flank wells in 2011/12
   - Successful Growler-6 oil appraisal well
2. **Unlock a world class unconventional gas resource**
   - Demonstrate technical feasibility
   - Establish large scale, cost competitive resource
3. **Appraisal and development of Surat Basin CSG**
   - Targeting material 2P reserve increase and deliverability testing in QGC joint venture permits
   - Targeting material reserve improvements in Don Juan CSG Project (Senex operated)

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Overview: Positioned for growth

FAVOURABLE GAS MARKET DYNAMICS

Strong demand for eastern Australian gas

GROWTH IN UNCONVENTIONAL GAS

Commanding unconventional gas position

CASH FLOW THROUGH PRODUCTION

High margin, low risk oil business

DIVERSFIED RESOURCE PORTFOLIO

Valuable coal seam gas business

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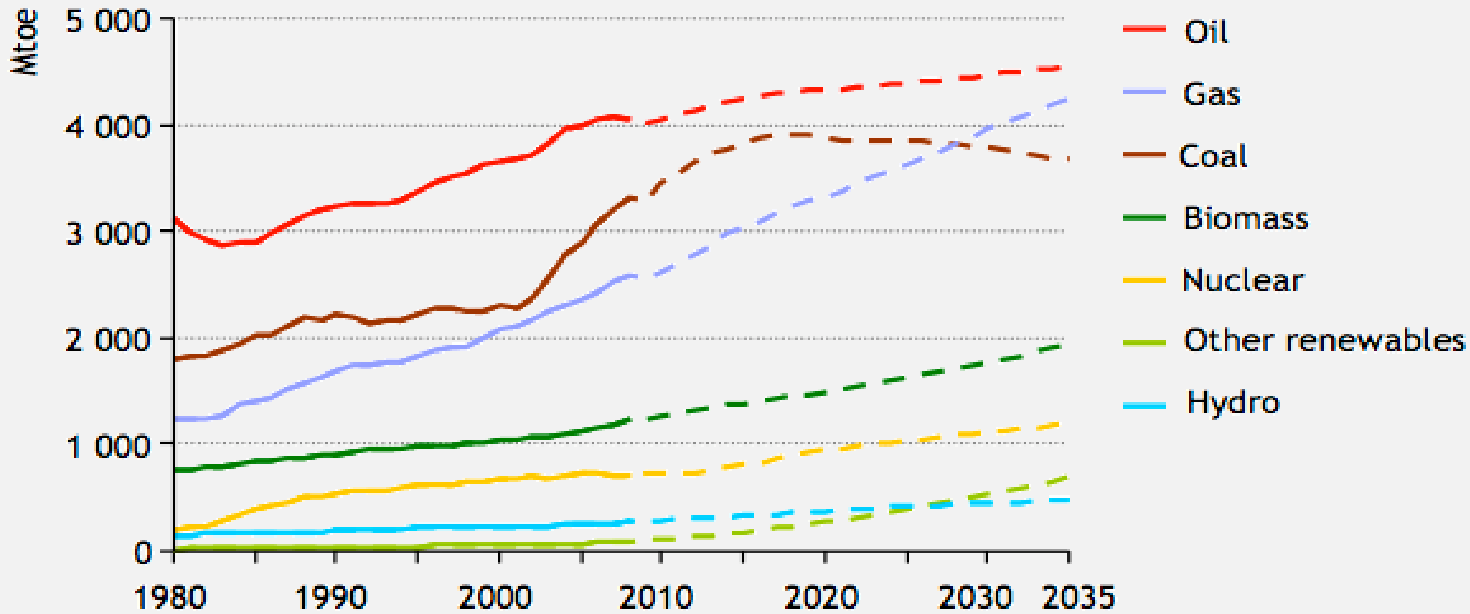
Strong outlook for Australian gas

Australia in the box seat for the Golden Age of Gas

- Domestic growth fuelled by gas fired generation
- LNG markets provide access to oil-linked gas pricing
- Gas prices trending towards $6-$9 per gigajoule

World primary energy demand by fuel

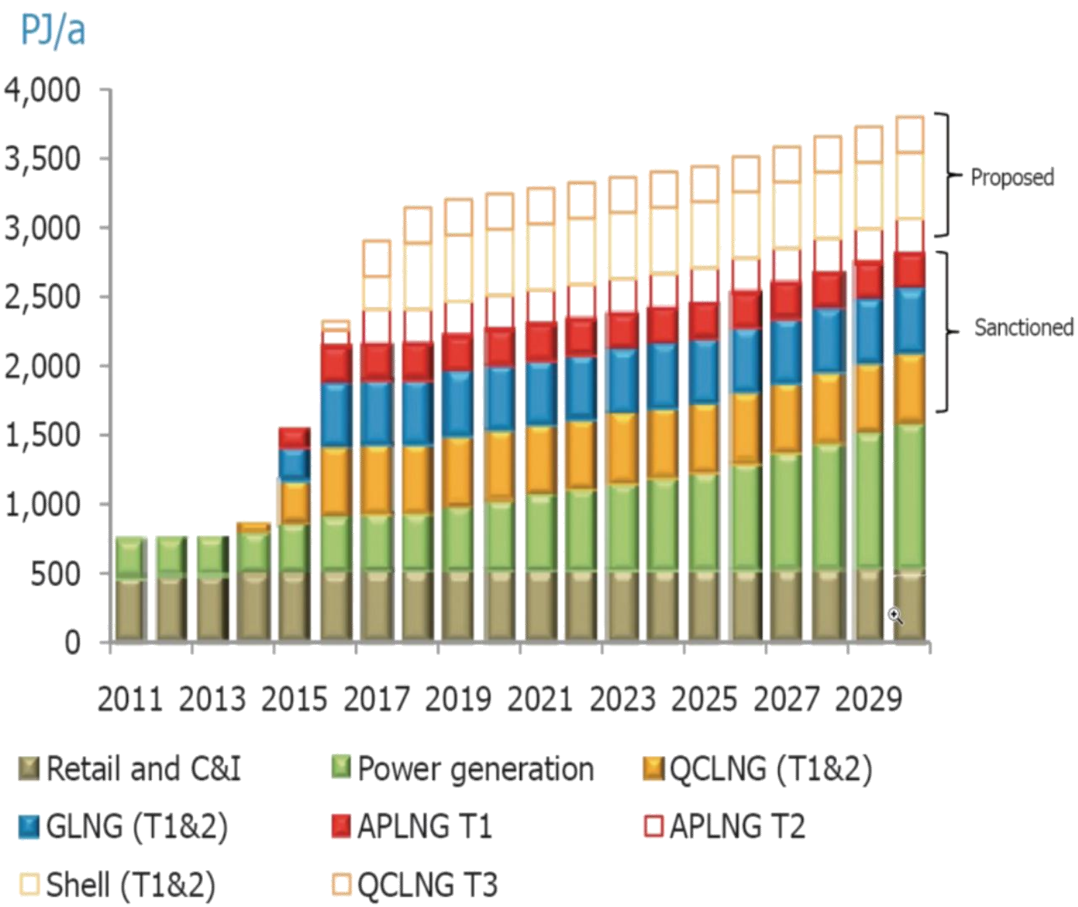


Source: International Energy Agency, World Energy Outlook 2011, GAS Scenario

Increasing gas demand in Australia’s east coast

CHANGING DYNAMICS

- Eastern Australian domestic gas demand: ~700 PJ pa
- Total eastern Australian gas demand forecast to triple by 2020
- Growth driven by power generation and LNG
- Senex perfectly positioned to supply eastern Australian gas markets



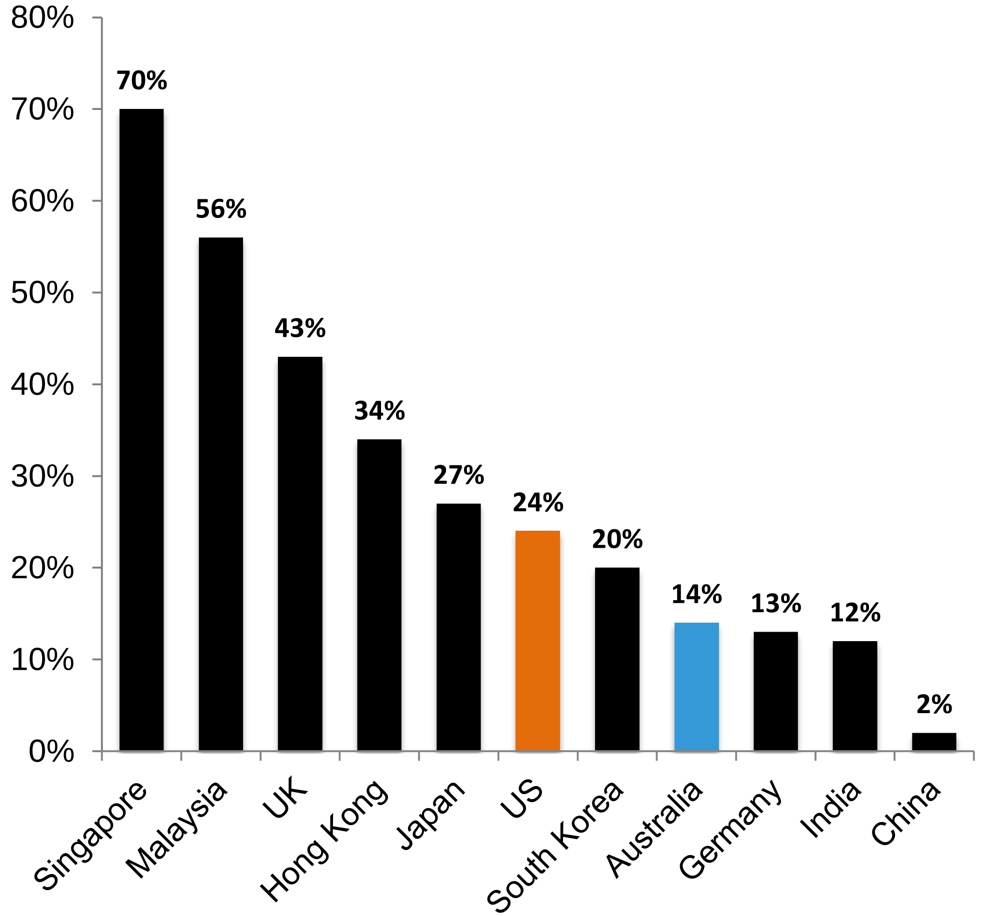
Source: Santos, Eastern Australia Business Unit Presentation, 26 September 2011

Australian gas fired generation trails US and Asia

GAS GENERATION GROWTH

- East coast Australia is short electricity generation – gap to be filled by new gas fired capacity
- Gas fired power generation in Australia forecast to increase four-fold by 2030 (to > 1 Tcf pa)
- Senex coal seam gas assets close to existing gas and power infrastructure

Penetration of gas as a fuel for power generation



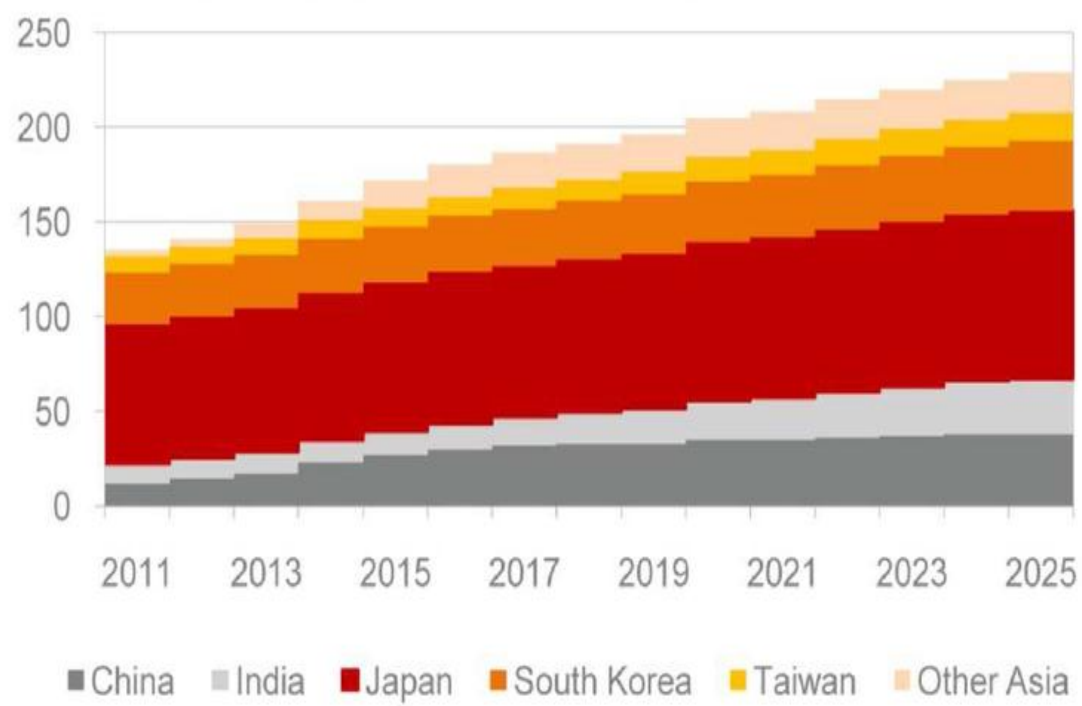
Source: Wood Mackenzie, EIA, ESAA, AEMO

Asian gas demand underpins new LNG projects

STRONG LNG DEMAND

- Asian LNG demand forecast to exceed 200Mt by 2025
- Three Gladstone-based LNG projects approved to proceed
- Senex coal seam gas acreage in prime LNG feedstock zone
- Senex Cooper Basin unconventional gas positioned to supply LNG projects

Reference LNG demand – Total Asia (Mt)



Source: Core Energy Group

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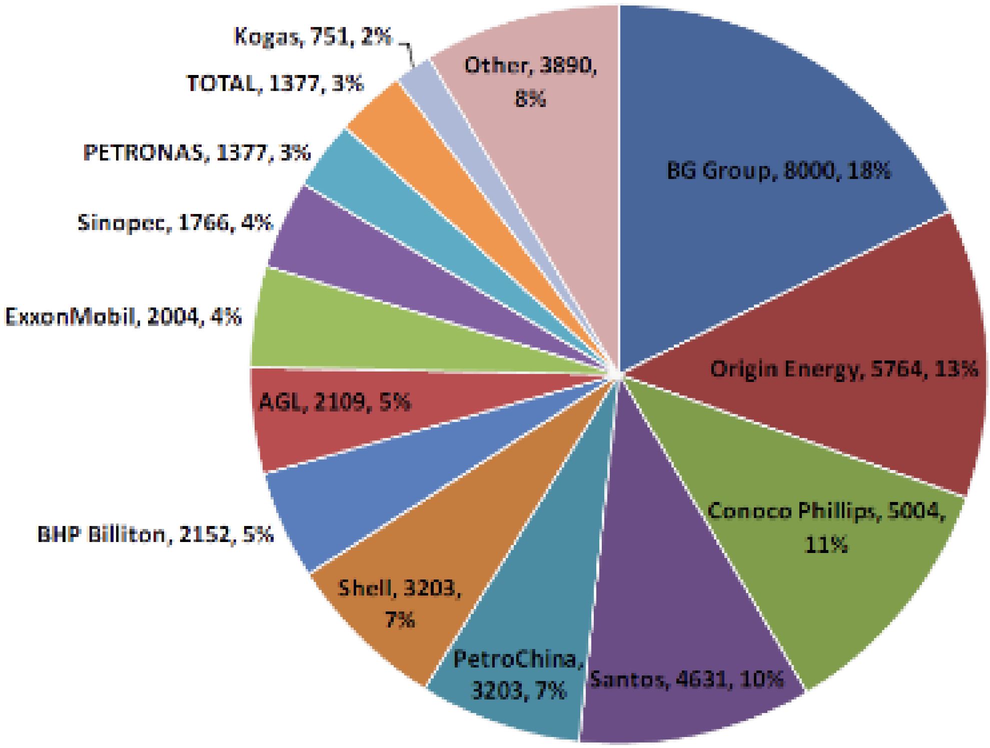
East coast gas marketing tightening significantly

GAS SUPPLY CONSTRAINTS

- LNG markets provide access to oil-linked gas pricing
- Gas prices trending toward $6-$9 per gigajoule
- Independent gas producers with commercial reserves positioned to supply higher priced domestic markets and LNG

Australian east coast 2P reserves



Source: Energy Quest, August 2011

83% of east coast 2P gas reserves are held by Queensland LNG projects participants

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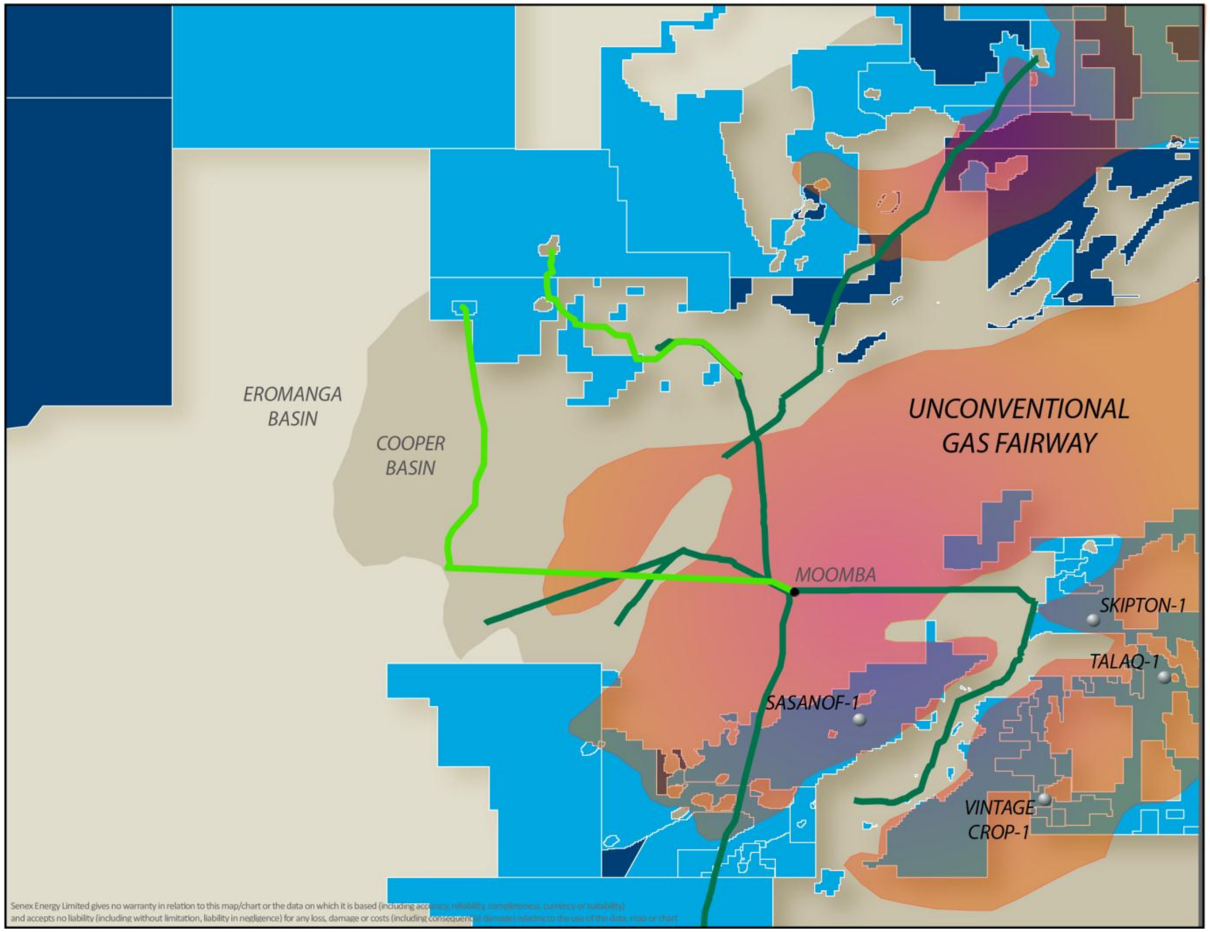
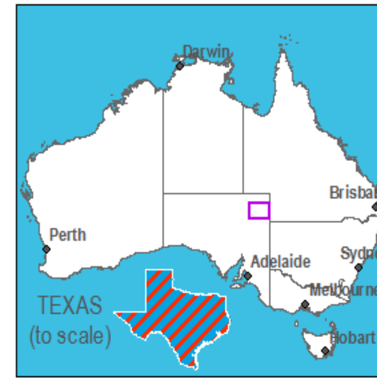
Commanding unconventional gas position in Australia's Cooper Basin

A commanding unconventional gas position

MHA Petroleum consultants estimate 86 – 122 Tcf of Gas-In-Place (Senex share) within shales and coals in Senex permits[1]





Proposed Senex Pipelines
Oil Pipelines
Senex Permit Interests
Senex Permit Application Interests
Unconventional Gas Fairway

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Senex Energy Limited
0 10 20 40 Km
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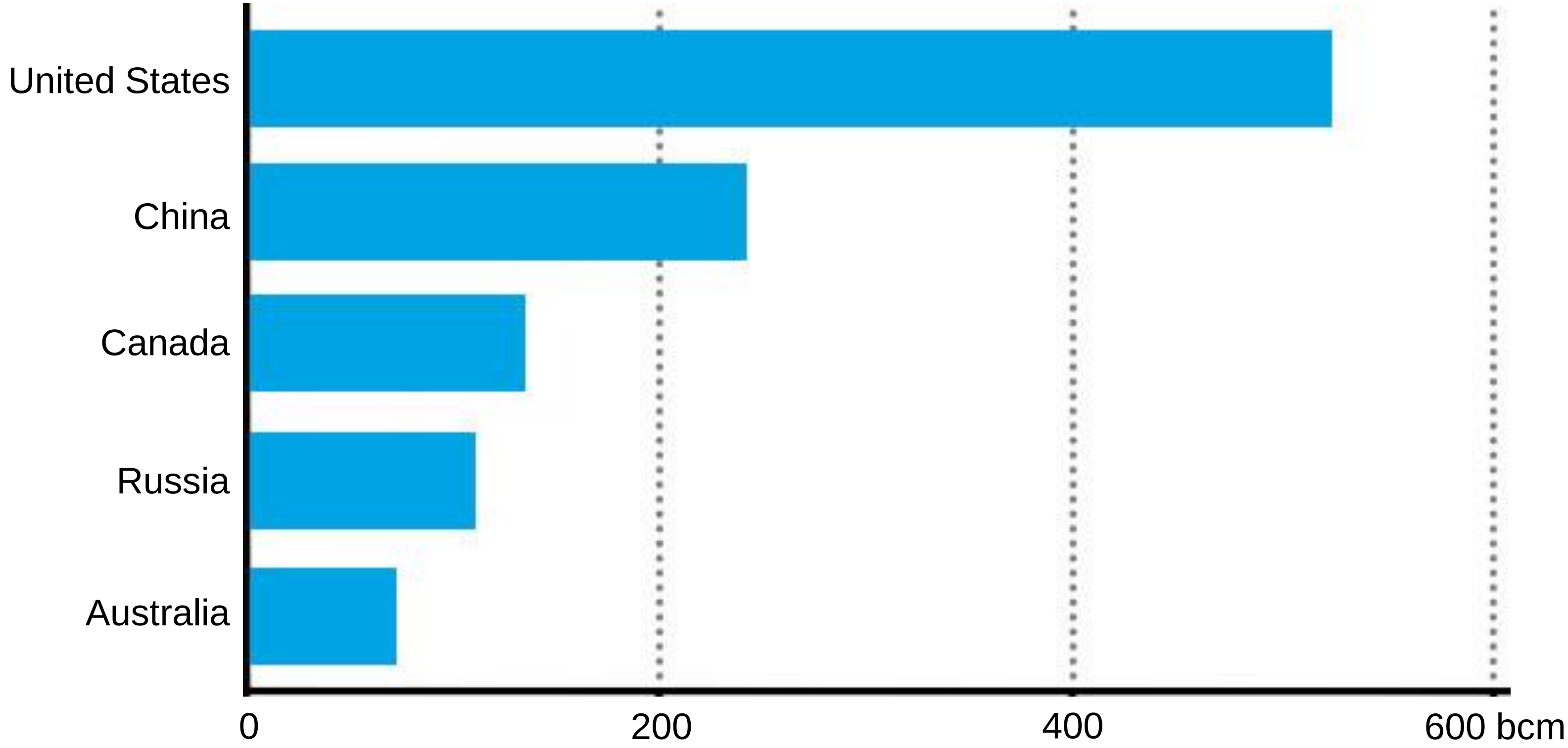
1: 86-122 Tcf Gas-In-Place does not include coal, shale and tight sand Gas-In-Place in PELA 514

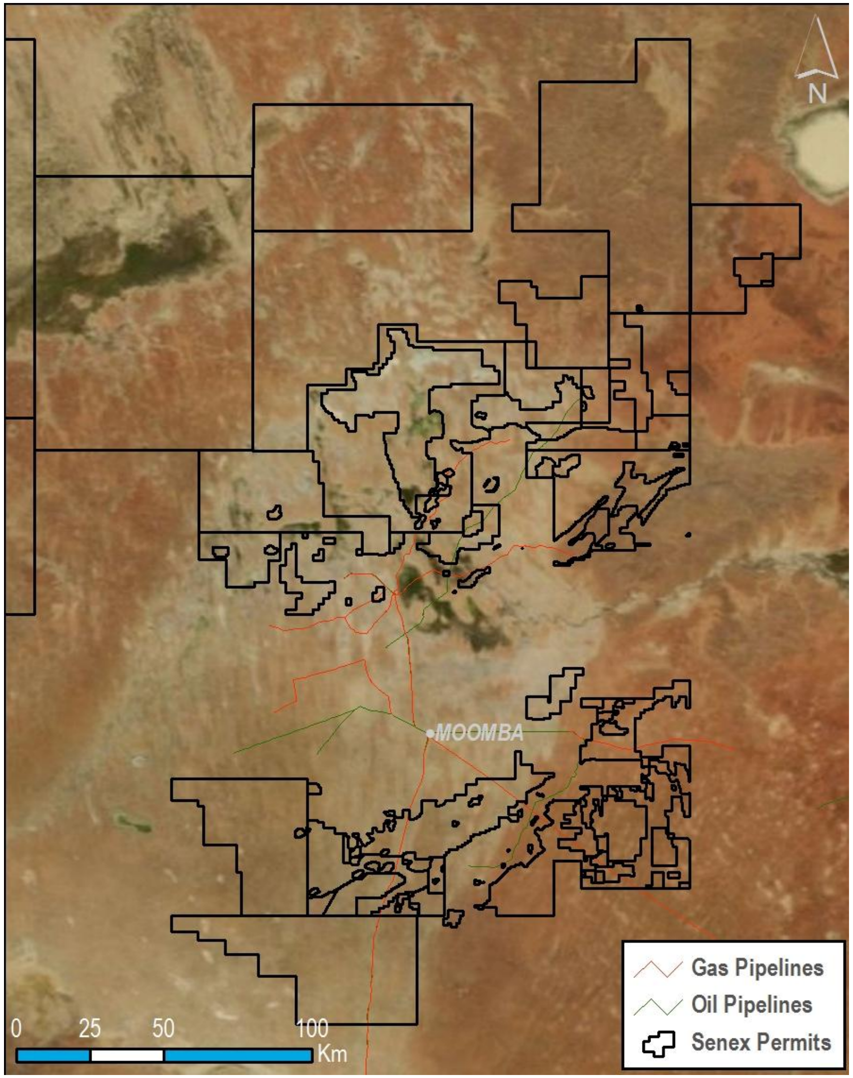
Australia becoming a global player in unconventional gas

IEA: World's largest unconventional gas producers, 2035



Source: Extrapolated from International Energy Agency, World Energy Outlook 2011, GAS Scenario

The Cooper Basin has a strategic locational advantage



- **Semi-desert area** with cooperative land use with existing pastoralists
- **Close to existing infrastructure** including oil and gas pipelines
- **South Australian Government policies** encourage exploration and development
- **Senex has more than 20 years experience** as an explorer in the region with close to a decade as an oil producer

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Vintage Crop-1 significantly exceeded expectations

Successful shale gas evaluation in Vintage Crop-1 in PEL 516 (Senex 100%) with continuous gas shows:

- Core samples taken over 36 metres (118 feet) from an 88 metre (289 foot) section
- Preliminary results confirm:
  - Presence of liquids rich gas
  - Favourable mineralogy
  - Properties similar to successful North American shale plays
- Potential gas-in-place in PEL 516 of over 100 Tcf[1]

Vintage Crop-1 during drilling in May 2011

1: MHA Petroleum consultants report

2011/12 Unconventional gas exploration program

- **Fracture stimulation injectivity testing** at existing Allunga Trough-1 to gather shale mechanical properties data for larger frac program

- **Three dedicated unconventional gas** exploration wells to be drilled in PEL 516 (Senex 100%) in 2011/12 for ~$15 million
  - Wells to be fully cored, fracture stimulated and flow tested

- **Material contingent resource booking** targeted for financial year end

Vintage Crop-1 core samples - Roseneath Shale

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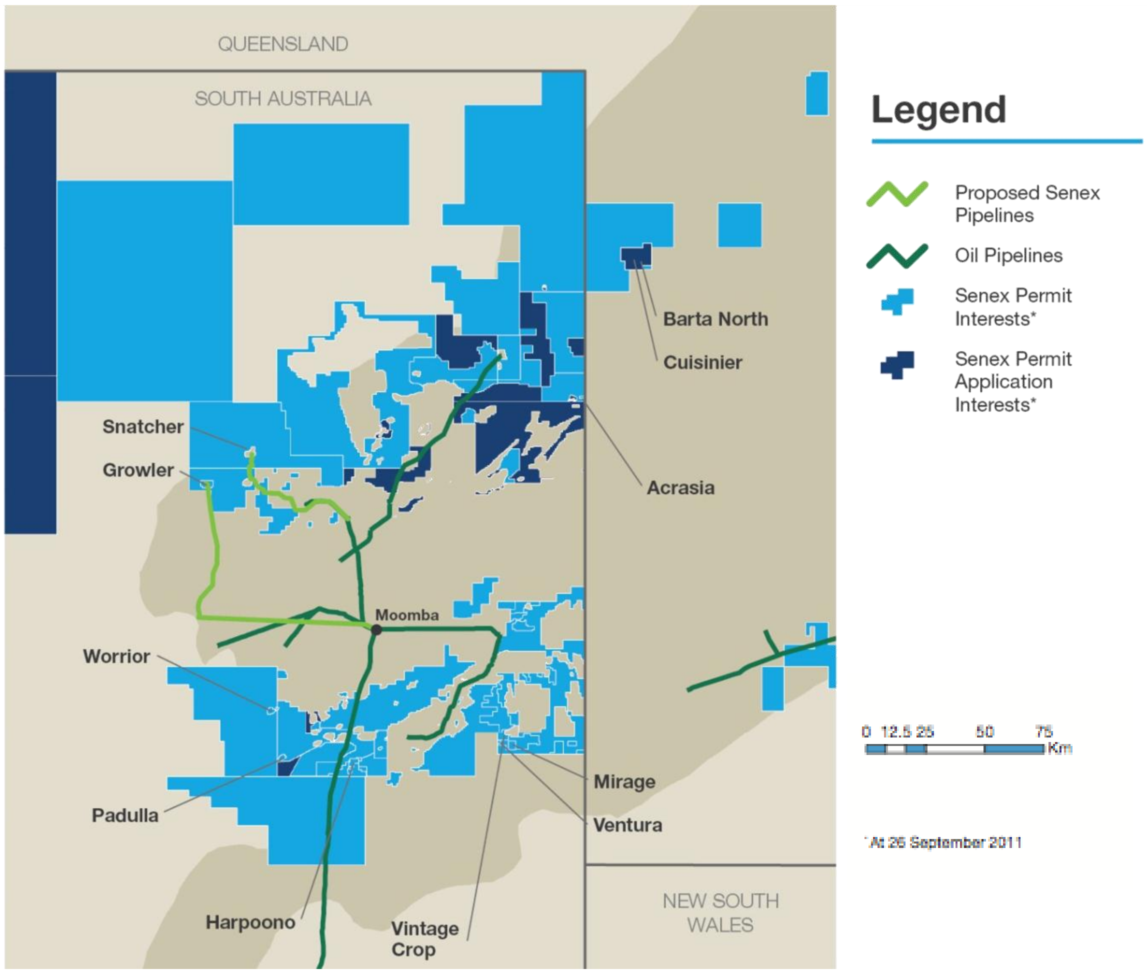
High margin oil business in the South Australian Cooper Basin

Positioned for rapid growth in the Cooper Basin

- Strong oil pricing (Brent not WTI)
- High net back of ~A$70* per barrel
- Major land position and operatorship
- Fast drill and tie-in
- High flow rates
- Low risk exploration on 3D seismic
- Proposed pipelines to increase production and secure delivery



* At Brent oil price of $100/barrel, with delivered opex.

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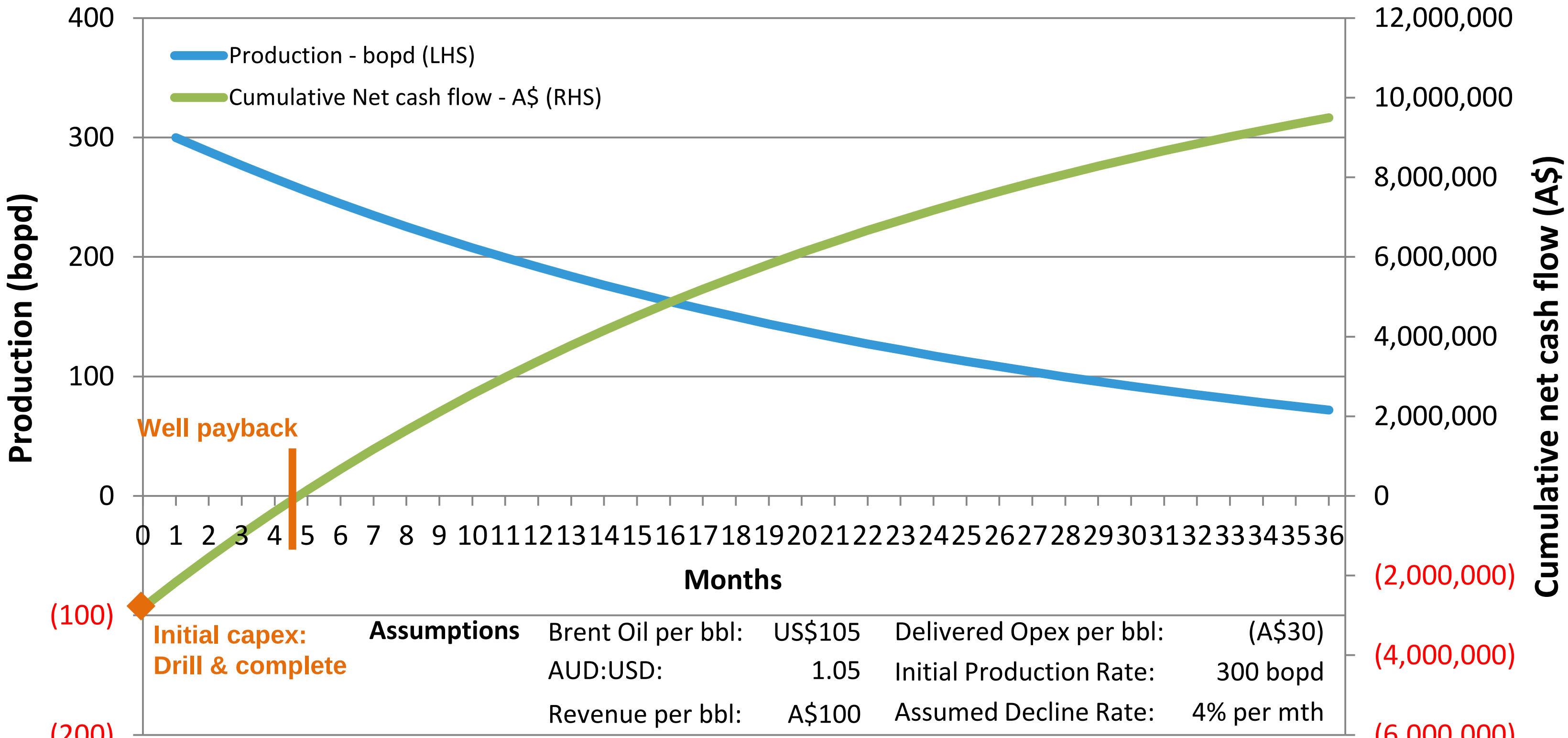
Western flank oil: a high margin business

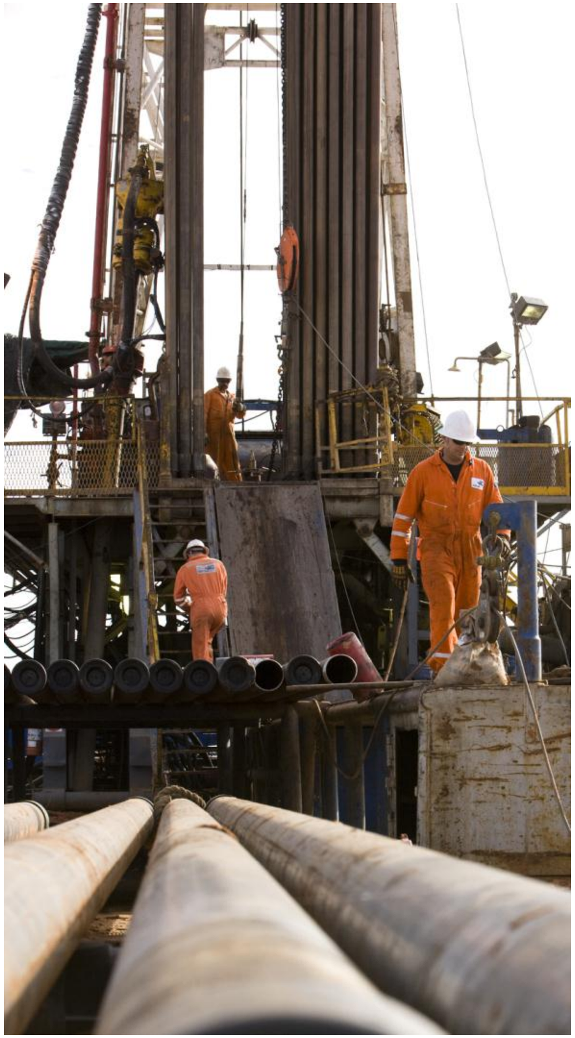
- Development well payback c. 5 months at current oil prices, delivering ~121% return with 12 months continuous production
- Typical Birkhead Channel oil well profile and economics:



All figures are quoted 100% share

Fully funded 2011/12 work program

- More than $90 million in cash following oversubscribed 1 for 5 entitlement issue in September 2011
- Targeting production of over 700,000 barrels of oil for 2011/12
- Demonstrated oil reserves growth with 2P reserves of 6.9 million barrels net and 3P reserves of 16.9 million barrels net
- Aggressive 2011/12 western flank exploration, appraisal and development program to accelerate reserves production:
  - Six lower risk Birkhead channel exploration wells on 3D seismic
  - Five appraisal/development wells



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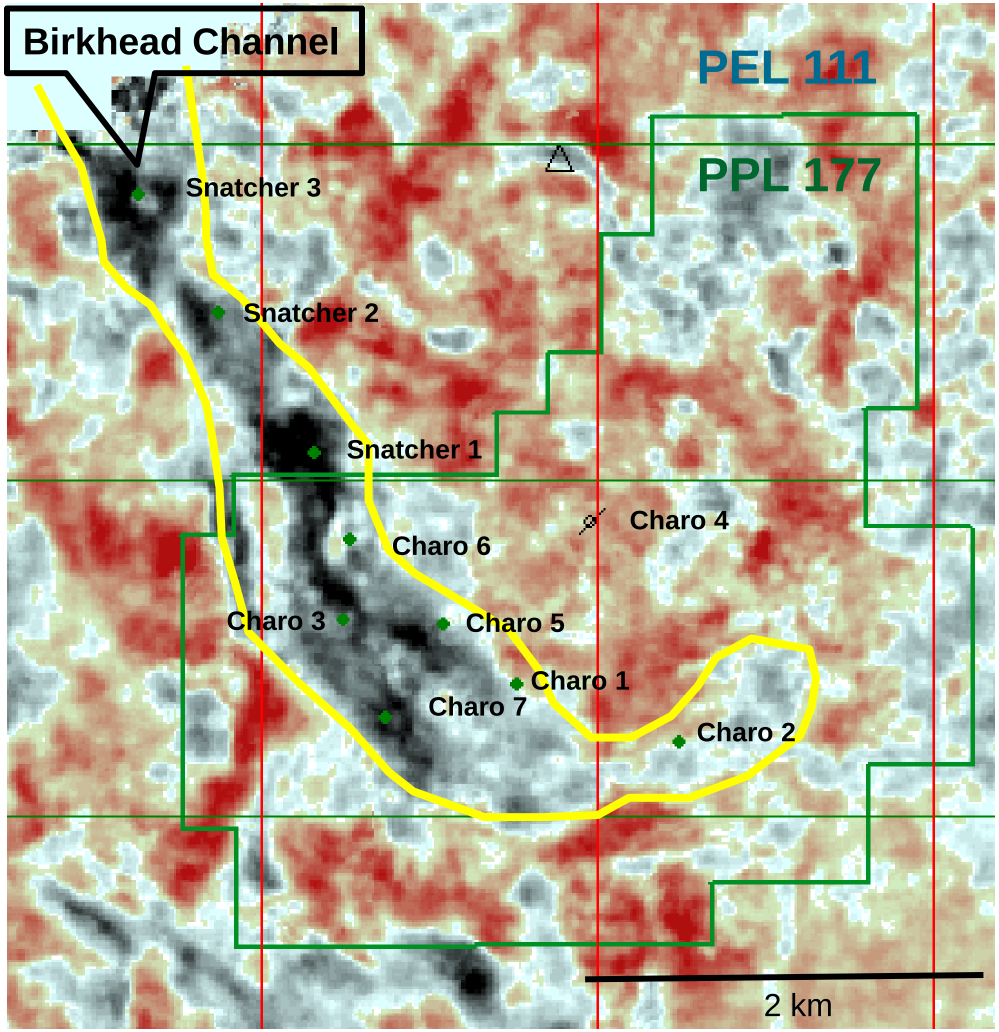
Reduced risk western flank exploration on 3D seismic

25 prospects to be drilled in PEL 104 and PEL 111

Birkhead channel 3D seismic interpretation reduces risk

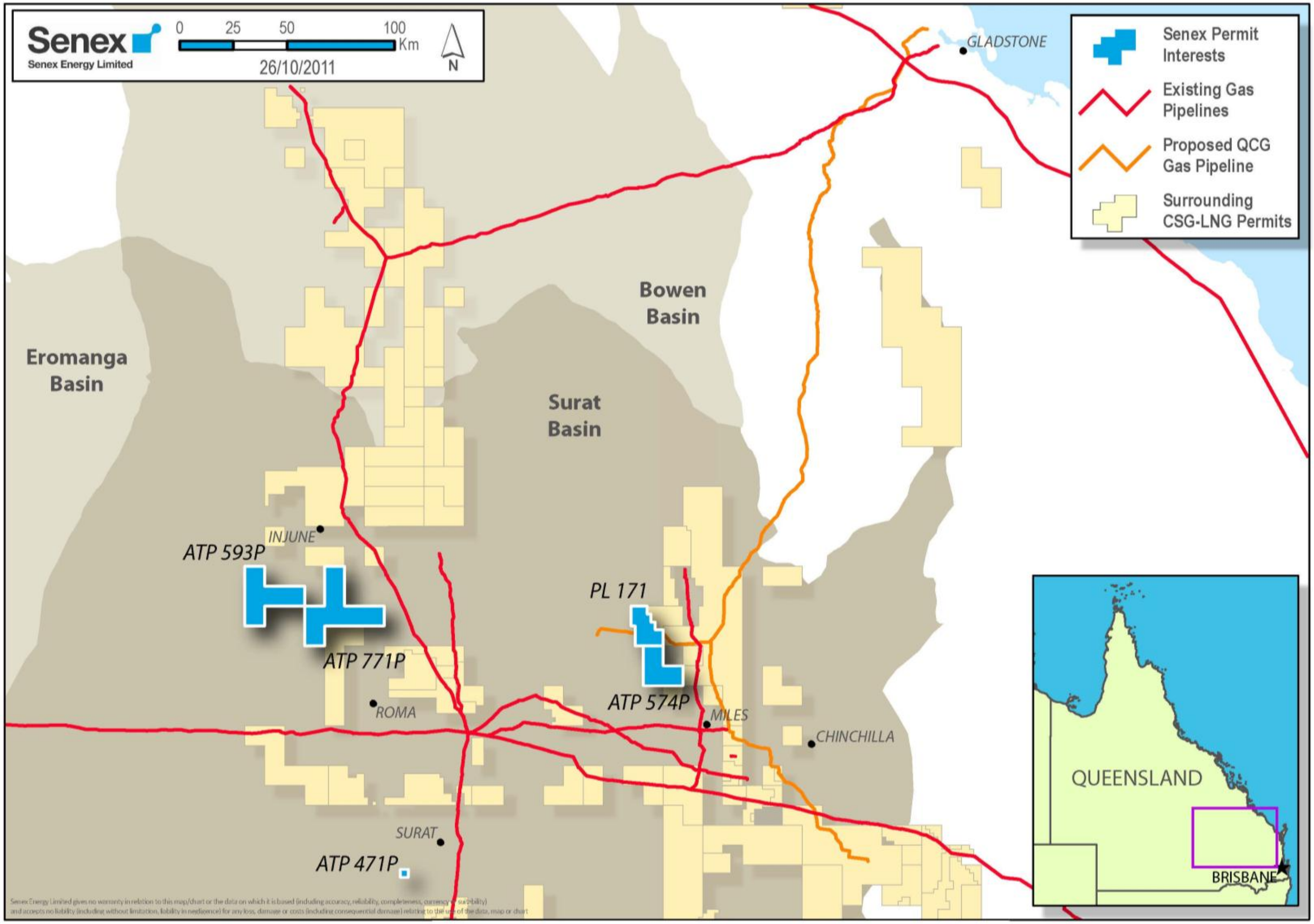


Source: PIRSA (open file data) as interpreted by Senex

- Birkhead channels can be mapped using 3D seismic data
- The Snatcher/Charo channel is seen here as black within a red background
  - Charo 1 – marginal (uneconomic), likely due to poor sand development
  - Charo 4 – failure, no sand development
  - Charo 2 – mostly water, good channel sand intersected with a high water contact
  - Charo 3, 5, 6, 7 and Snatcher 1, 2, 3 – intersects Birkhead channel with oil production

Valuable coal seam gas business in Queensland’s Surat Basin

Strategically located coal seam gas assets



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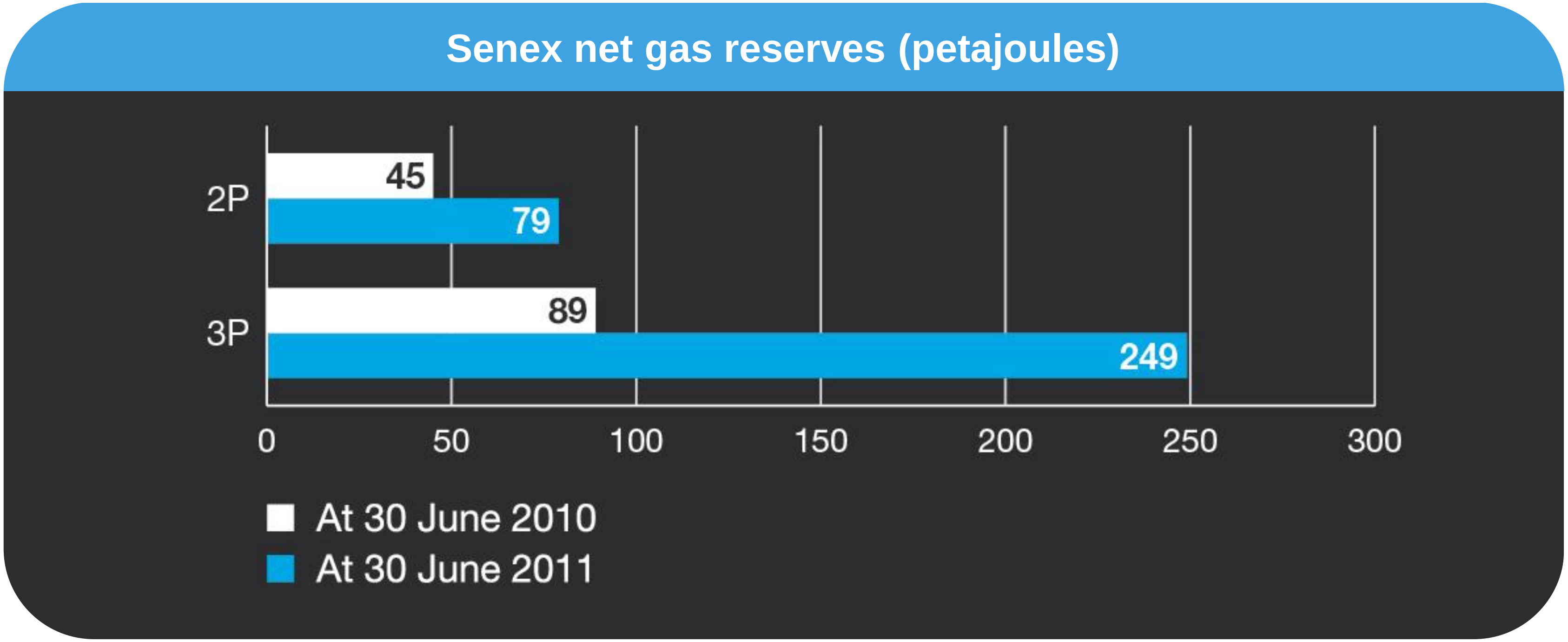
Significant reserves growth delivered in 2011

- Demonstrated reserves growth in coal seam gas permits
- Material 2P reserves additions expected from 2011/12 work program, including flow testing of appraisal wells
- Location of permits not adversely affected by landholder issues



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Aggressive FY12 exploration and appraisal program

Aggressive exploration and appraisal to test production and materially increase 2P and 3P coal seam gas reserves:

ATP 574P (Senex 30%) and PL 171 (Senex 20%):

- Operated by QGC* with active technical input from Senex
- Agreed appraisal program focussed on 2P reserve additions and gas flow testing

ATP 593P /ATP 771P (Senex 45%) with Bow Energy:

- Operated by Senex
- Plans agreed to pursue growth in certified reserves, with two core wells to be drilled in Q3 2011

* A BG Group business

Coal seam gas appraisal well being flared

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