AGL Energy Limited

AGL Hallett Wind Farm Portfolio Equity Investor Tour



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Agenda

> **Wind Generation Overview** Ken Woolley - General Manager, Power Development

> Hallet 1 & 2 Construction Adam Mackett - Project Manager, Power Development

> Future Site Developments Tim Knill – Project Manager, Power Development

> Question & Answer



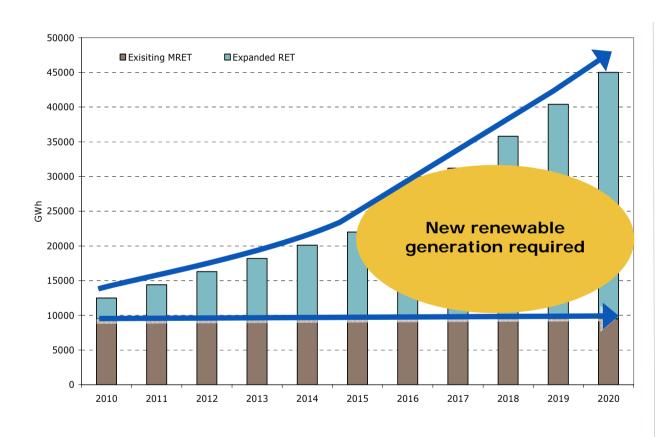
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Required Renewables Growth

Expanded Renewable Energy Target (RET) Drives Growth



- New federal Government Policy

 by 2020 an additional 35,500
 GWh p.a. of renewable energy required to meet the target of 45,000 GWh p.a.
- If all new capacity is wind, implies ~12,000 MW of new renewable capacity
- AGL's leading existing renewable portfolio & development options will deliver material upside via REC and black electricity price appreciation under Expanded RET & Carbon Pollution Reduction Scheme

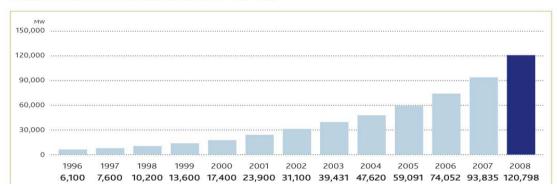
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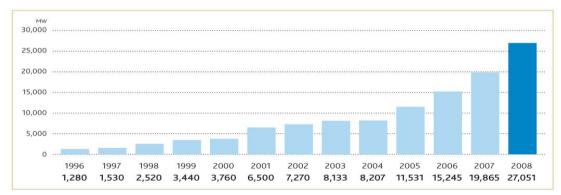
Wind - Global Capacity Growth

As the most proven, economically scaleable renewable, winds global growth continues exponentially

GLOBAL CUMULATIVE INSTALLED CAPACITY 1996-2008



GLOBAL ANNUAL INSTALLED CAPACITY 1996-2008



Source: Global Wind Energy Council - Global Wind 2008 Report

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Growth - Wind compared to other renewables

Global installed base, gigawatts (GW)



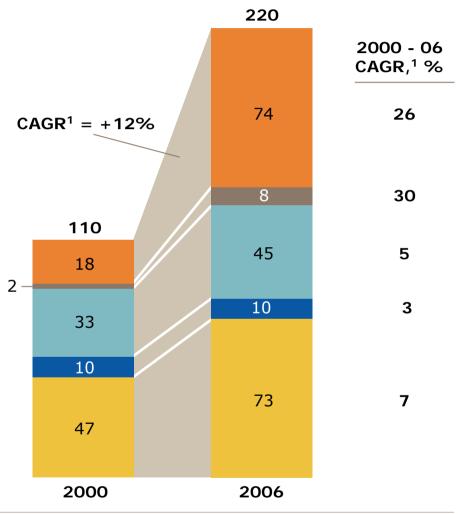
Renewables in 2008

Ongoing global renewables growth

> ~30% of all new capacity addition is renewable power



¹ Compound Annual Growth Rate



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Source: IEA WEO 2006



Key Development Success Factors

AGL Hallett wind farm portfolio achieves all critical success factors in wind farm developments

- > Wind resource
- Land access (support by landowners)
- Capital cost (materially more important than O&M costs):
 - » Typical split of capital costs for 70MW wind farm:
 - ~86% EPC, ~11% electrical connection, miscellaneous ~3%
 - Currently witnessing material turbine discounting as a result of global economic downturn
- > Connection access: (cost, loss factor, grid capacity)
- > Wind farm scale (to absorb certain fixed cost)
- > O&M costs (typically only around 1.5% of capital cost per year)



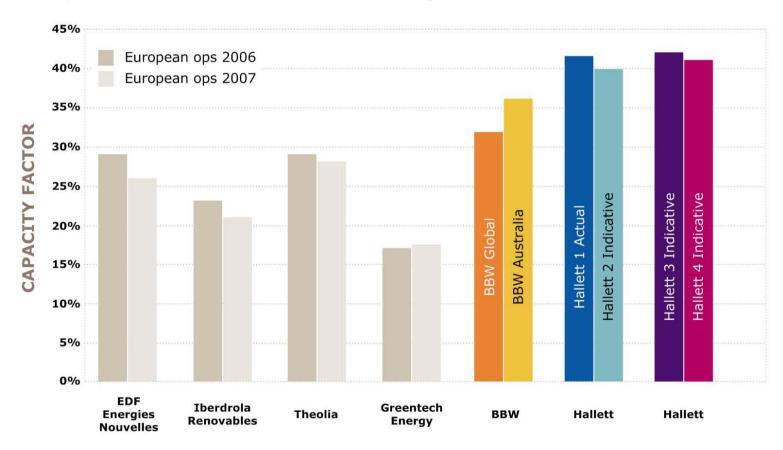
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Wind Capacity Factors - Global

AGL Hallett portfolio delivers world leading wind resource



Source: Macquarie Research Equities - Report Wind farmers (Europe) May 2008, BBW 2008 Annual Report, AGL live data & estimates

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Wind Generation - Growth Pipeline

Developing a portfolio with strategic depth & optionality

	PROJECT	NOMINAL CAPACITY (MW)	LOCATION	ТҮРЕ	PROJECT STATUS	DEFINITION	
	Hallett 2	71	SA - Hallett	Wind	Under Construction	Committed	
	Hallett 4	132	SA - Hallett	Wind	Under Construction	Committed	
	Hallett 3	80	SA - Hallett	Wind	In Development	Probable	
ON CE	Oaklands Hill	63	VIC - West	Wind	In Development	Probable	
ABI	Hallett 5	50	SA - Hallett	Wind	Permitted	Possible	
× ×	Macarthur	330	VIC - West	Wind	JV with Meridian	Possible	
RENEW	Crows Nest	150	QLD - Toowoomba	Wind	Permitted	Possible	
	Worlds End	180	SA - Burra	Wind	Permitted	Possible	
	Ben Lomond	150	NSW - Armidale	Wind	Landowner Agreements in place	Possible	
	Coopers Gap	300	QLD - Kingaroy	Wind	Landowner Agreements in place	Possible	
	Other	4 Projects totalling up to 720	Various	Various	Under Review	Possible	

- > **Probable Projects:** Projects which are under development with an approved budget and pending final investment decision
- > Possible Projects: Projects where AGL holds rights to the sites and/or where the final investment decision is expected to be in excess of 12 months
- > CAPEX: Current AGL indicative installed capex for wind is approximately \$2.7m to \$2.9m / MW
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AGL Hallet 1 & 2 Construction

Adam Mackett



Hallett 1 was officially opened June 2008 and is operational

Wind Turbines: 45 x Suzlon S88 2.1 MW v3

Capacity: 94.5 MW

Energy Output: 320,000 MWh per annum



- > Capacity Factor = 41.5%
- > Average Wind Speed = 8.6 m/s (at wind turbine)

Monitored from AGL's Mt Beauty Control Centre







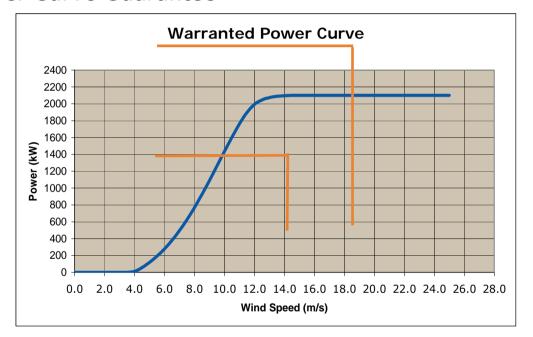
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Tests after Completion:

> Power Curve Guarantee



- > Availability Guarantee:
- > 97% for first two years of operation (Defects Liability Period)







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Hallett 2 is currently in construction and due for completion in late calendar 2009

Wind Turbines: 34 x Suzlon S88 2.1 MW v3

Capacity: 71.4 MW

Energy Output: 255,000 MWh per annum



> Capacity Factor = approx 40%

> Average Wind Speed = 8.6 m/s (at wind turbine)

Construction commenced June 2008







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Construction of a wind farm involves four overlapping stages:

			2008						2009										
STAGE	DESCRIPTION	Jun08	Jul08	Aug08	Sep08	Oct08	Nov08	Dec08	Jan09	Feb09	Mar09	Apr09	May09	Jun09	Jul09	Aug09	Sep09	Oct09	Nov09
1	Civil works and foundations	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5																	
2	Electrical works						**												
3	Wind turbine tower erection																		
4	Wind turbine installation & commissioning										1111								
Milestone	Total Windfarm Take Over	-																	
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- 1) Access roads, wind turbine hardstands and foundations
- 2) 33kV Collector system, 33kV Feeder system and Wind Farm 275kV Substation
- 3) Erection of wind turbine towers
- 4) Installation and commissioning of wind turbines

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Stage 1 - Access roads and wind turbine hardstands

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Stage 1 - Wind turbine foundations including post tensioning and installation of rock anchors







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Stage 2 - Vermeer trenching for the underground 33kV Collector cable





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Stage 2 - Wind Farm 275kV Substation under construction

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Stage 3 -Installation of lower mid tower section







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Stage 4 - Installation of nacelle at wind turbine no.34

Completed turbine







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Future Site Developments

Tim Knill



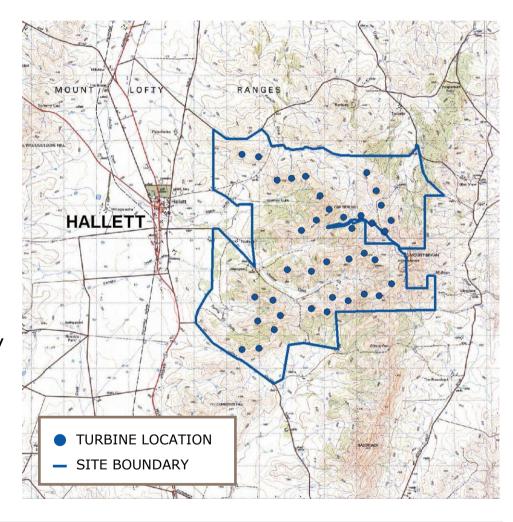
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Project Summary

- > 38 Turbines
- > Complex terrain
- > Challenging to build

Project Status

- Development Approval expected April
- Ecology studies underway
- > Aboriginal heritage clearance underway
- > Investment decision scheduled 1HFY10



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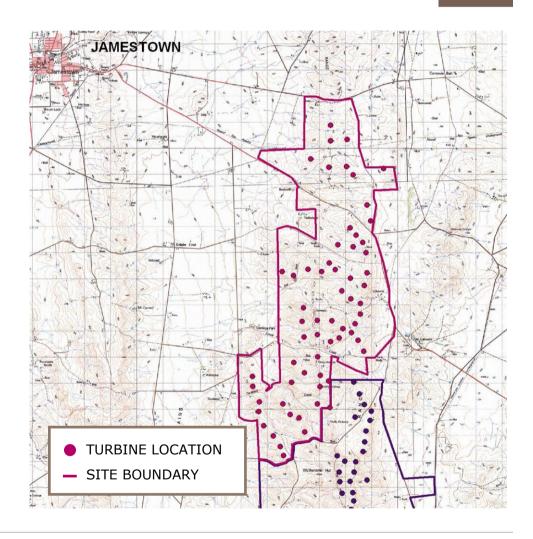
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Project Summary

- > 63 turbines
- > 132.3 MW capacity
- > New 33kV/275kV substation

Project Status

- > Board approved
- All permits and authorisations received
- > EPC Contract executed with Suzlon
- > Construction completion 1HFY12





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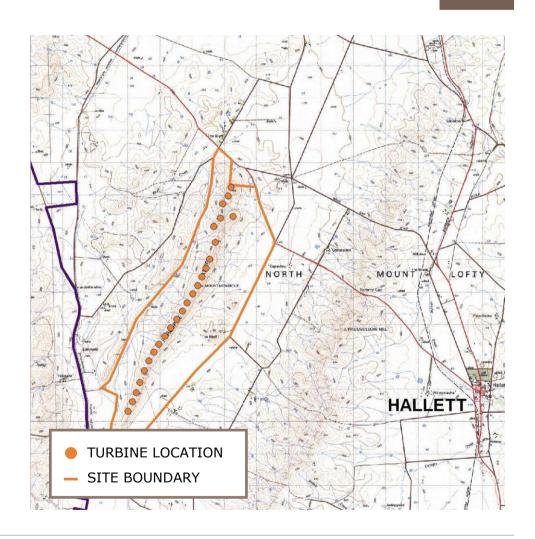
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Project Summary

- > up to 25 turbines
- Connection into Hallett Stage 4 substation
- > Good constructability

Project Status

- Development approval for wind farm received
- > Export power line requires DA
- > No connection enquiry to date
- Investment decision scheduled for FY10



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SAGL Question & Answer

Further Information / Contacts

A range of information on AGL Energy Limited including ASX & Media Releases, Presentations, Financial Results, Annual Reports and Sustainability Reports is available from our website: www.agl.com.au

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