



Wind – Creating a better energy future

Neal Barclay – GM Markets and Production

Meridian Experience

A brief summary on NZ developments includes:

	Site	Year	Number	Capacity	Points of interest
New Zealand	Te Apiti	2004	55	90.8	First “grid connected” NZ wind farm
	White Hill	2007	29	58.0	Embedded into weak network
	West Wind	2009	62	142.6	Extremely complex terrain poor access
	Ross Island	2010	3	0.99	In Antarctica. (Owned & operated by AntNZ)
	Te Uku	2011	28	64.4	Consented by WEL networks, constructed by Meridian
	Mill Creek	2014	26	59.8	Access and sensitive community
	Brooklyn	2016	1	0.9	First NZ re-powering
Australia	Wattle Point	2005	55	90.8	Developed along-side Te Apiti (SOLD)
	Mt Millar	2010	35	70	Operational wind farm purchased
	McArthur	2013	140	420	Australia’s largest wind farm (SOLD)
	Mt Mercer	2014	64	131	Purchased development option
	TOTAL		498 300	1129.3 617.5	Total Currently operating (417MW NZ, 210MW AUS)

NZ Market

The current NZ market situation:

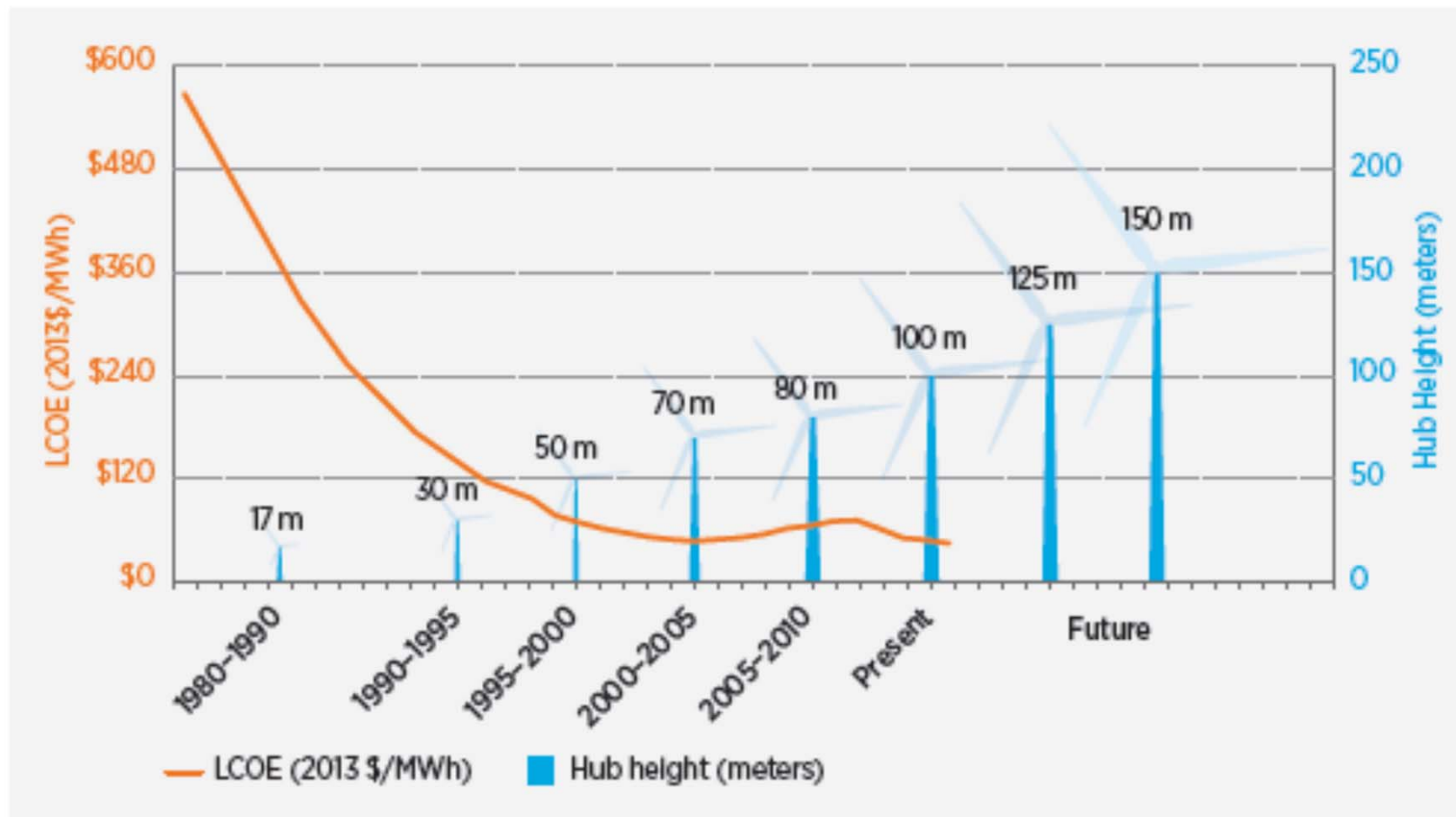
- Thermal retirements
- Tiwai future uncertain
- 20 months of economy-wide demand growth



International Turbine Market – turbine impact on cost trends

Source: Wind Vision. US Department of Energy.

(Note LCOE excludes PTC at approx. US\$15/MWh)



Note: LCOE is estimated in good to excellent wind resource sites (typically those with average wind speeds of 7.5 m/s or higher), excluding the federal production tax credit. Hub heights reflect typical turbine model size for the time period.

Size Matters

Trend towards larger optimised Class II and III turbines

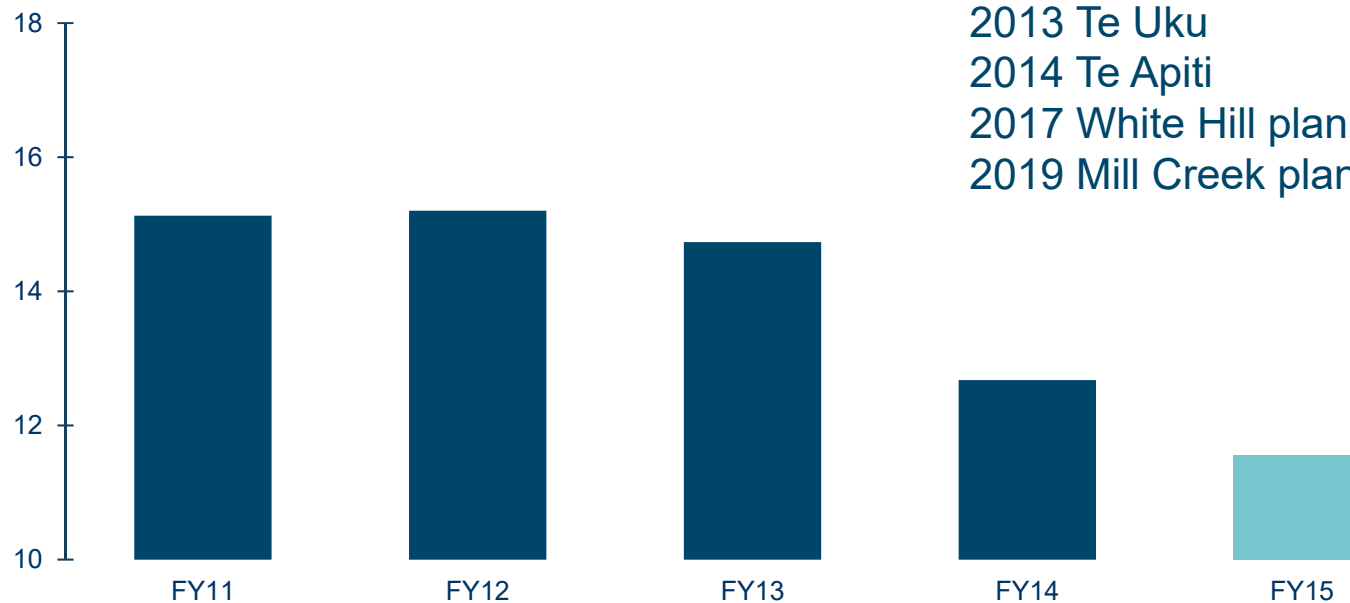


Meridian's NZ focus

Meridian has developed an in-sourcing service model in New Zealand and has driven down cost of service.

WIND UNIT COSTS

\$/MWh



Maintenance in-sourcing

2012 West Wind

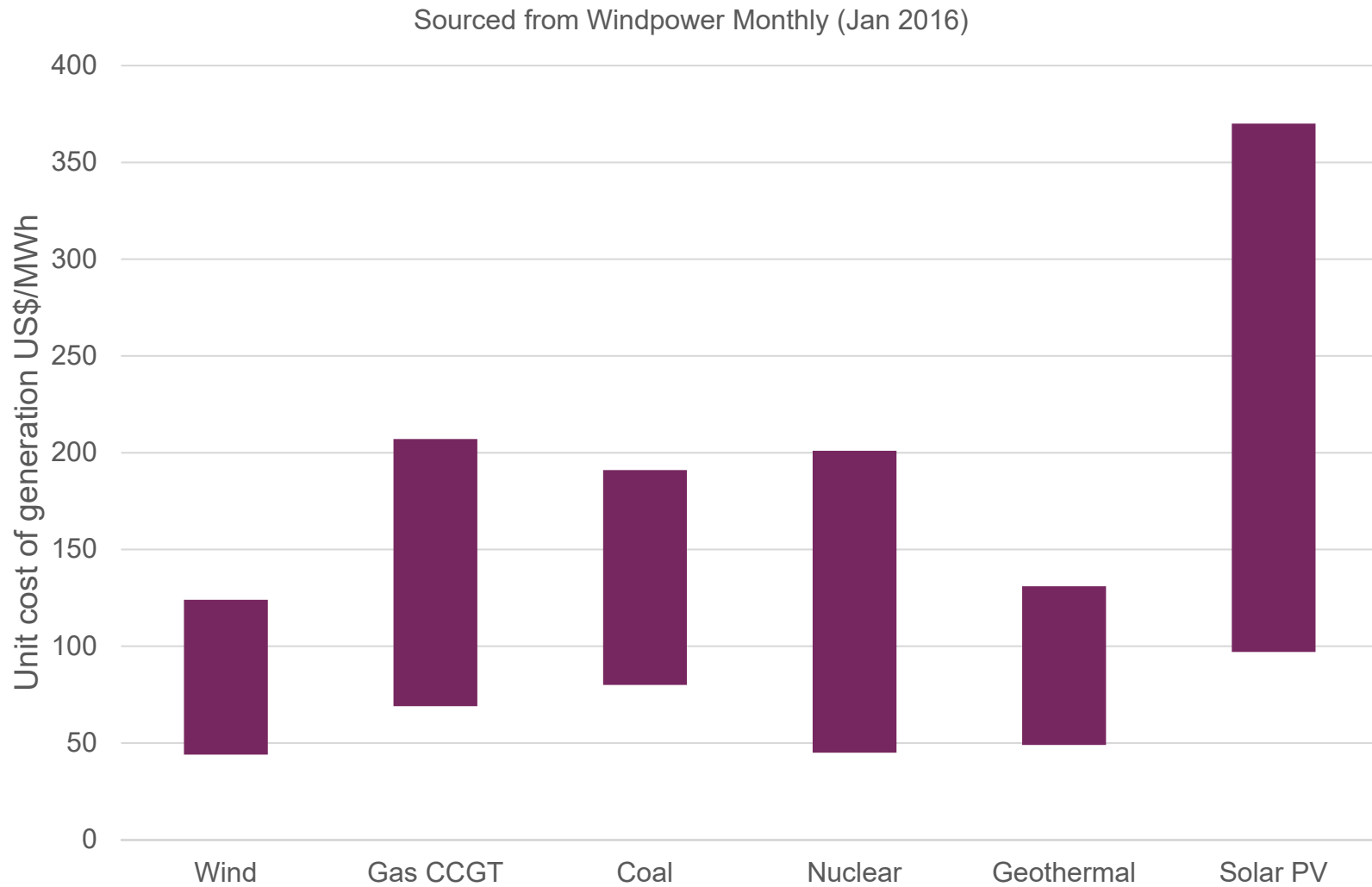
2013 Te Uku

2014 Te Apiti

2017 White Hill planned

2019 Mill Creek planned

International comparison of different technologies



Health and safety



Maungaharuru development

Consents extended to 2023. Landowner agreements extended. Layout optimised and consistent turbine size across both consents. Approximately 140MW



Central Wind

Consents extended to 2020. Landowner agreements extended.
Layout/turbine size being optimised to approximately 120 – 150MW.



Hurunui

Consents until 2023. Landowner agreements extended. Approximately 70 MW.

