

Broken Hill Solar Plant

Community Information
Session
9 September 2015

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Agenda

- 1 Welcome September CIS
- 2 Overview of project status – AGL / First Solar
- 3 Employment
- 4 Project planning
- 5 Next meeting



ARENA



2. Review actions from previous meeting

	Action item	CIS meeting	Status	Who
1				

- > AGL Broken Hill Solar Plant
- > 9 September 2015

Overview of project status

- Adam Mackett (AGL)

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2. AGL overview of project status

Solar Plant

- > The changing face of the Broken Hill Solar Plant
 - » Top: January 2015 (civil work)
 - » Middle: April 2015 (module install)
 - » Bottom: August 2015 (module install / termination)
- > Installation of First Solar PV modules commenced at the start of April
- > Construction of the solar plant is nearing completion → focus on commissioning ahead of generation.
- > Australian Energy Market Operator (AEMO) has approved generation registration.
- > Clean Energy Regulator (CER) has approved RET power station accreditation.
- > Project remains on track to be fully operational by December 2015



2. AGL overview of project status

Connection Works (CPP)

- > 2 x 22kV transmission lines were practically complete at end of February 2015, including crossing of the ARTC rail lines.
- > Operating protocol with TransGrid (Network Services Provider) has been finalised and implemented.
- > Feeder No.2 was energised on 1 July 2015.
- > Feeder No.1 was successfully energised on Wednesday, 2 September 2015.



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- > 9 September 2015

2. AGL overview of project status

Project Milestone – Final Module Installation

- > We will be marking the final module installation with our key stakeholders
 - > Broken Hill City Council, Wincen Cuy
 - > State and Federal Government
 - > Australian Renewable Energy Agency (ARENA) executive
 - > AGL executives
- > Similar event was held at Nyngan on 17 Apr 2015
 - » AGL, Andy Vesey, CEO
 - » ARENA, Ian Kay, CFO
 - » NSW Government, Mark Speakman MP (Environment Minister) and Anthony Roberts MP (Energy Minister)
 - » First Solar, Jack Curtis, Regional Manager, APAC
 - » Bogan Shire Council, Ray Donald, Mayor



2. AGL overview of project status

Nyngan Solar Plant

- > Full generation (102 MW) was achieved on Saturday, 6 June 2015.

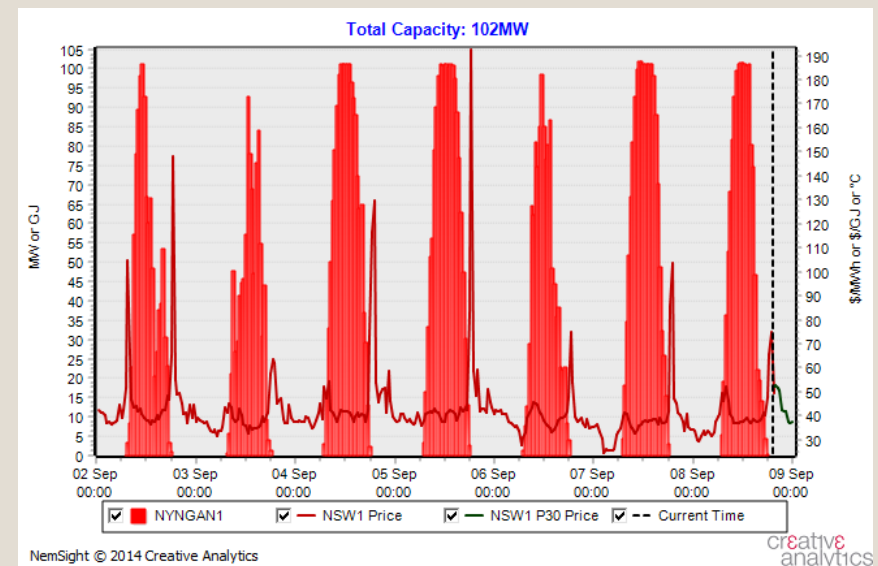
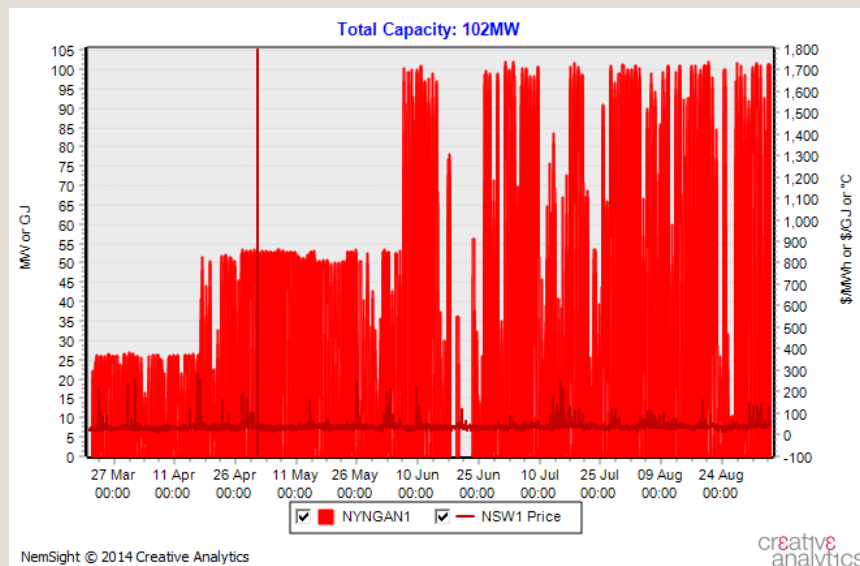


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2. AGL overview of project status

Nyngan Solar Plant

- > Generation @ the point of connection (commenced Saturday, 21 March 2015)
- > Cumulative generation at 23:30hrs on Friday, 4 Sept 2015 was 63,042.82** MWh
 - » ** Gaps in June due to AEMO/EE SCADA – Nyngan was generation factored in cumulative total above

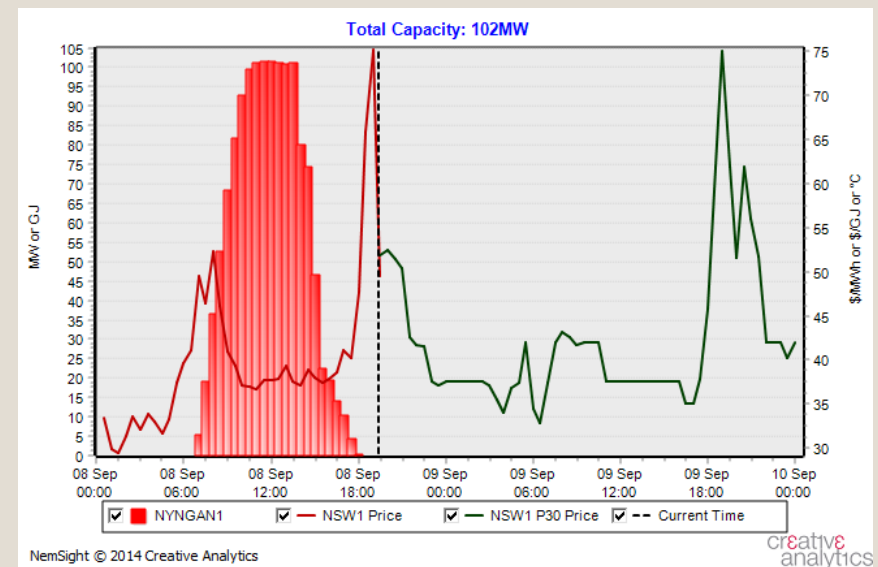
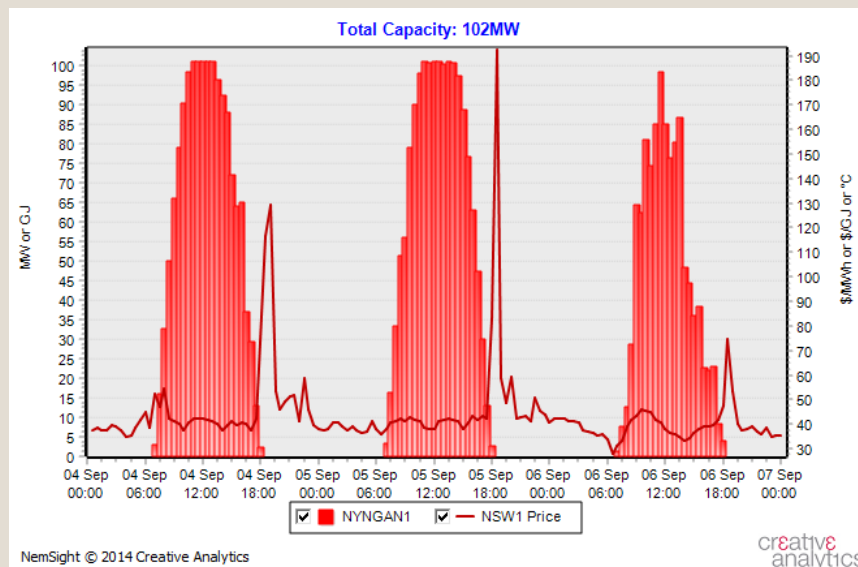


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- > 9 September 2015

2. AGL overview of project status

Nyngan Solar Plant

- > Generation on 4-6 September 2015 (Fri-Sun) last week – pricing spike in the PM peak.
- > Generation from yesterday, 8 September 2015 with actual pricing and forecast pricing based on expected generation.

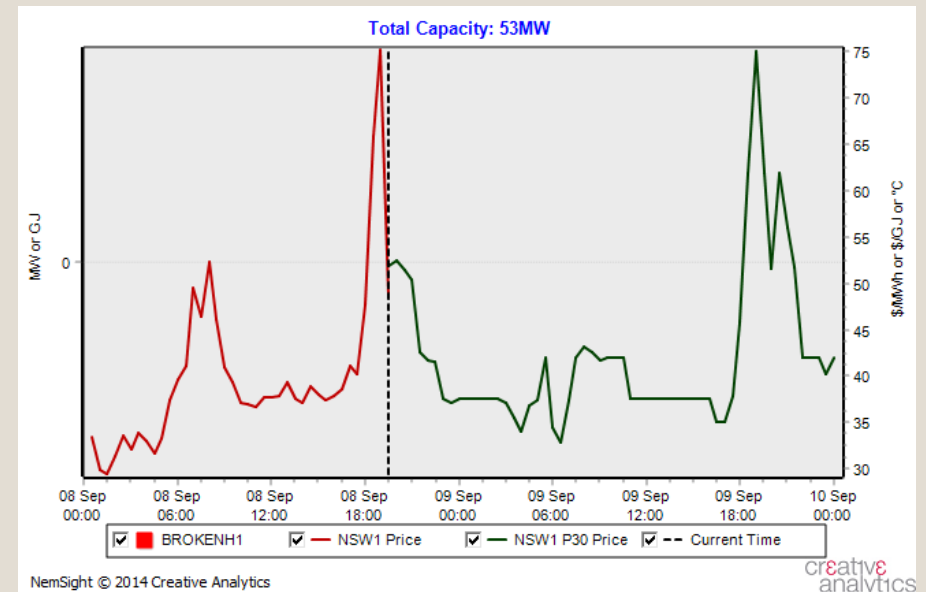


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2. AGL overview of project status

Broken Hill Solar Plant

- > Seeking approval from TransGrid and AEMO before commencing commissioning that will generate “commissioning energy”



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3. First Solar Project Status



- > AGL Broken Hill Solar Plant
- > 9 September 2015



3. First Solar project status

Sub contracts:

Three packages of work – civil, structural and electrical

- > Structural work completed in May 2015 (CTE)
- > Electrical work completed Sept 2015 (RCR | ODG)
- > Testing and commissioning activities commenced (STE, First Solar)



Procurement and deliveries:

Deliveries of major components are complete

- > Switchgear delivered in May and June
- > Final delivery of solar panels (30,000 solar panels/week) was completed in mid-July



3. First Solar project status

Construction:

- › Structural work completed in May 2015
- › Electrical work completed in Sept 2015
 - Solar PV modules nearly complete
 - Above ground and underground cabling installed
 - Outstanding work being completed
- Testing & commissioning is now focus of work, in preparation to export electricity to the grid

Environmental management:

- › Environmental audits and inspections
- › Compacting solar packaging waste
- › Re-vegetating and rehabilitating yards in progress



3. First Solar project status



Quality inspection – solar panels



Quality inspection - above ground cable installation

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3. First Solar project status



Module installation complete



Re-vegetation of land

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Employment

(First Solar)



4. Project employment

- > RCR | ODG – electrical subcontractor for First Solar is now reducing headcount and preparing to demobilise by end of September.
- > Workers on site in the coming 1-2 months will mostly be First Solar employees and testing/commissioning specialists from STE, Motherwell, SMA Inverters

Project Planning

- Helena Orel (AGL)
- Adam Mackett (AGL)

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The logo for AGL, featuring a stylized sunburst icon to the left of the letters 'AGL' in a bold, white, sans-serif font, all contained within a blue rectangular box.

5. Project planning

Engaging with residents, businesses and interested organisations is at the heart of what we do.

- > Aruma Lodge residents recently visited the site
- > AGL participated in the recent Chamber of Commerce Business After 5 evening on businesses and solar energy with the Office of Environment & Heritage

5. Project planning

AGL energy deals for Broken Hill businesses and residents

- > AGL Energy retail team has prepared energy deals specific for the Broken Hill community:
- > Businesses – 24% of electricity and solar, available now, \$100 off first bill when signing up business and residential property together
- > Residential – starting from 15 September

In addition, with each customer – business or residential signed up, AGL will donate \$25 to the Broken Hill Pet Rescue (nominated by 2BH)



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Construction Community Fund

• Helena Orel (AGL)

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6. Construction Community Fund

- > Advertisements for next round of funding will be advertised:
- > 12 and 26 September 2015, BDT, website, council office, post offices
- > Ads will run for four weeks
- > All applications need to be in by COB Friday 9 October
- > Expect to complete process (assessment / funds handover) in November 2015

Next meeting

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7. Next meeting

- > Any questions?
- > Next meeting date
- > Agenda items

-
- > AGL Broken Hill Solar Plant
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