

Camden Gas Project Community Consultative Committee

27 March 2019



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Business Arising

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Business Arising

Reports & Presentations

AGL Update

AGL has launched a new product that makes the savings from solar energy available to people living in households without traditional solar rooftop panels.

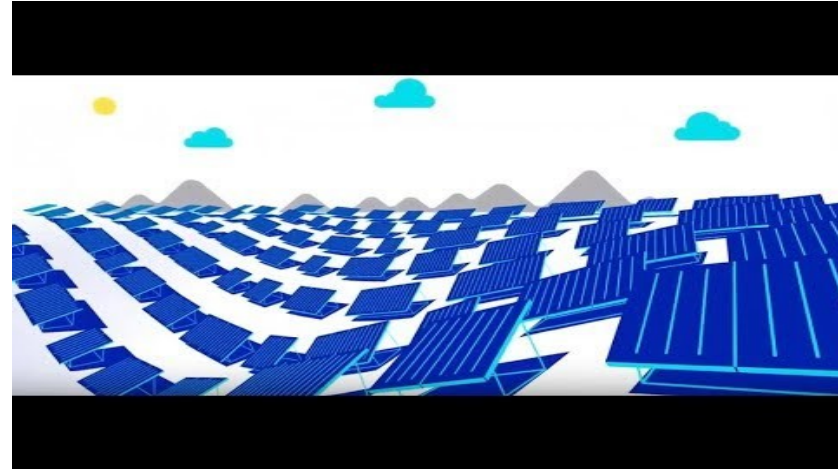
AGL Offsite Solar would suit the households which wanted, but could not tap into, renewable energy.

We believe this is the only product of its type in Australia available for the 80 percent of Australian households that do not have solar, including people who are renting, living in apartments, have unsuitable roofs, cannot afford it or move too often to justify the cost.

Customers who sign up to AGL Offsite Solar for \$1 a day in the first year receive bill credits of about \$50 per year plus loyalty credits of \$33 per year in years two to seven.

AGL owns the 500 kilowatt (kW) PV system installed on a Kraft Heinz factory in Wagga Wagga and receives payments for generation.

We estimate customers will break even on their subscription in about 4.6 years, a faster payback period than traditional rooftop solar and comes without the cost and hassle of installations and maintenance. Best of all, customers can take the service and savings with them when they move to an eligible home.



Operations & Environment

Decommissioning & Rehabilitation



| Production Well Status | Total (as at 31 December 2018 [end of Stage 1 decommissioning program]) | Total (as at 27 March 2019) |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Drilled (total wells) | 144 | 144 |
| Production and dewatering wells | 86 | 86 |
| Suspended or shut in wells | 15 | 13 |
| Wells in process of decommissioning | 1 (EM33 rig activities completed, wait on cut & cap) 2 (EM34 & SL09 initial works completed) | 1 (EM21) 2 (EM34 & SL09 initial works completed) |
| Wells subsurface decommissioning complete | 40 | 42 |
| Land in process of being rehabilitated | 10 (EM31, EM32, LP01, MT05, RP02, RP03, RP04, RP05, RP12, WG06) | 12 (EM28, EM31, EM32, EM33, LP01, MT05, RP02, RP03, RP04, RP05, RP12, WG06) |
| Land fully rehabilitated and returned to landowner | 30 (additional since last time EM16, GL16, RP06, RP10, RP11) | 30 |

Operations & Environment

Decommissioning & Rehabilitation

Since our December update...

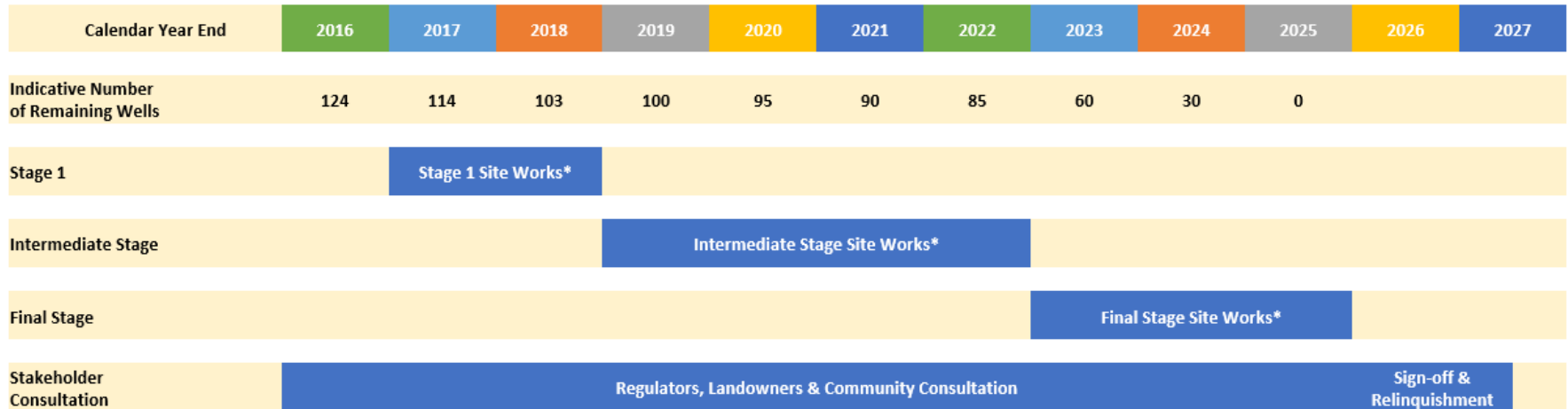
- AGL Rig-1 took 4 weeks annual leave over Christmas and into January.
- The rig returned to commence the decommissioning at EM28. This was completed and the well cut and capped.
- EM33 was cut & capped (rig work was completed in December).
- Surface rehabilitation works have commenced at EM28 and EM33.
- Adverse weather conditions (hot / dry summer) have been impacting the rehabilitation of some sites - remediation works have been undertaken where required and 3 sites are currently being irrigated.
- Altogether, 12 sites are currently under rehabilitation. During this process, the sites are monitored every quarter by our Environmental Business Partner, and we conduct maintenance as required and in consultation with the landowners.
- Once the site is fully rehabilitated, the EPA inspect the site to ensure that the site specific rehabilitation criteria has been satisfied then approve the rehabilitation works.

Operations & Environment

Decommissioning & Rehabilitation – Whole Project Timeline



Camden Rehabilitation Project - Whole Project Projected Preliminary Timeline



* After site works are complete, wait on regeneration of surface compatible with required land use, and regulatory sign-off - may take an additional 12-18 months

Operations & Environment

Decommissioning & Rehabilitation

Some facts of Natural Gas Well EM28:

- EM28 was drilled from 30th May to 14th June 2007, reaching a total depth of 729.7m.
- 8-5/8" Surface casing was pressure cemented to 117.7m.
- 5-1/2" Production casing was pressure cemented to 725.0m.
- The well targeted natural gas in the Bulli coal seam 666.1m – 669.0m
- AGL Rig-1 decommissioned this well from 21st January to 15th February 2019.
- Cut & Cap of this well took place on 28th February 2019.
- During its life, the well produced approximately 514 TJ natural gas.



Operations & Environment

Decommissioning & Rehabilitation



EM28 natural gas well: 1. prior to decommissioning; 2. AGL Rig-1 decommissioning well



Operations & Environment

Decommissioning & Rehabilitation

EM28 natural gas well: 3. cement to surface; 4. cut 2m below ground level and data cap welded on; 5. surface recontoured and top soil spread.



Operations & Environment



6-month outlook

During the next 6 months, we will prioritise workover well maintenance to improve production from Camden Gas Operations for AGL's Customers.

- Workover well maintenance
 - A number of wells will be visited by AGL Rig-1 to perform maintenance work to improve gas production.
 - We have recently worked over a well at Glen Lee, and will continue workovers including wells at Sugar Loaf, Mount Taurus, Spring Farm and Menangle Park. This generally involves cleaning out the wellbore and, where required, reinstalling pumps.
- Well decommissioning
 - When workovers are not required, we will continue to progressively decommission wells as they reach end of life.
 - Earlier this year we decommissioned EM28, and we are currently decommissioning EM21.
 - Our work continues to be overseen by our government regulators – EPA Gas Regulation Branch and DPE Resources Regulator.
 - We will add more decommissioning wells to our schedule as our work programs are approved by these regulatory agencies.

Operations & Environment



Environmental Monitoring & Reporting

RPGP noise monitoring – No noise complaints received. Quarterly noise monitoring was completed in March and confirmed compliance with licence limits.

RPGP air emissions monitoring – No exceedances of license limits during the last quarter. Quarterly air emissions monitoring was completed in March and results are yet to be received.

2015-2018 / 2016-2018 Independent Environmental Audit – The IEA Report was completed by Treo Environment and released by AGL in January. The audit assessed AGL's compliance against 14 regulatory approvals during the audit period. Seven low risk non-compliances were identified. AGL has implemented a Corrective Actions Register to have all actions completed by 30 June 2019.

Aboriginal Cultural Heritage Assessment – AGL engaged Biosis to undertake an Aboriginal Cultural Heritage Assessment on proposed upgrades to existing internal access roads on the Wandinong property, Menangle. Biosis is consulting with the Aboriginal community and will follow the *Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW 2010)*. The project will be undertaken in accordance with the *National Parks and Wildlife Act 1974*. Works are expected to be completed by 30 June 2019.

Environment Protection Licence Annual Return Report – The Annual Return Report was submitted to the EPA in February. No non-conformances were reported for the first time since the EPL was issued in 2004.

Operations & Environment



Waste management and the community

Return and Earn – Since February 2018, the Camden team has been collecting empty beverage containers. In February, over 1,300 containers were cashed in and all proceeds were donated to the Cancer Council. AGL matched the donation dollar for dollar, donating \$300 in total.

Business Clean Up Day – Following its success in 2018, on 25 February, 10 volunteers from the Camden Gas Project participated in Business Clean Up Day, coordinated by Clean Up Australia.

The clean up focussed on the Nepean River Reserve, Menangle Railway Station and Medhurst Road.

Approximately 60,000m² of land was covered by the team and approximately **200 kilograms** of dumped rubbish was collected.



Land & Approvals



AGL continues to engage with new landowners, local councils and the Department of Planning & Environment where land sale transactions have occurred across the petroleum titles and project activity areas.

This engagement may involve:

- responding to rezoning and development proposals;
- working with infrastructure managers such as RMS and Councils relating to new road networks, services etc;
- negotiating access agreements with new landowners; and
- consultation on AGL production and decommissioning activities and future requirements.

The changing land uses and rezoning of land from rural to residential/industrial densities makes engagement with these stakeholders important to ensure any potential conflicts are managed that relate to proposed urban development and AGL's production and decommissioning activities.



Community & Stakeholders

Community & Stakeholders

Local Community Investment Program update

FY18 Round 1

| Organisation | Program | Amount | Paid? | Program complete? |
|----------------------------|-------------------------------------------|--------------|-------|-------------------|
| Kentlyn Public School | New dishwasher and oven | \$ 5,000.00 | Y | Y |
| Macarthur Preschool | Installation of energy efficient lighting | \$ 2,700.00 | Y | Y |
| The Oaks Pony Club | Completion of toilet block | \$ 5,000.00 | Y | N |
| Picton Rangers Soccer Club | Upgrade of the parking lot at Hume Oval | \$ 5,000.00 | Y | Y |
| | Total | \$ 17,700.00 | | |

Community & Stakeholders

Local Community Investment Program update

FY18 Round 2

| Organisation | Program | Amount | Paid? | Program complete? |
|-----------------------------------------|----------------------------------------------------------|---------------------|-------|-------------------|
| Camden Rugby | 5kW solar system | \$ 4,350.00 | Y | Y |
| Macarthur Beekeepers | Equipment for safe function of group | \$ 4,990.55 | Y | N |
| Macarthur Centre for Sustainable Living | 5x gas burner hotplate and oven | \$ 2,471.00 | Y | Y |
| Macarthur Diversity Services | Children's Outdoor play equipment for the Sensory Garden | \$ 3,400.00 | Y | N |
| Mother Hubbards Cupboard | Hire of a truck to deliver furniture | \$ 4,356.00 | Y | Y |
| Picton ANZAC Day Committee | New cenotaph at Picton Memorial Park | \$ 5,000.00 | Y | Y |
| Picton Community Carols | Sound equipment, microphones, event banners | \$ 3,168.00 | Y | Y |
| Picton Historical Society | Equipment for oral history record collection | \$ 1,600.00 | Y | Y |
| Picton Strings | Conducting orchestra for seniors | \$ 3,500.00 | Y | Y |
| Tahmoor Netball Club | Trophies and engraving | \$ 1,000.00 | Y | Y |
| | Total | \$ 33,835.55 | | |
| | Total LCIP funding over FY18 | \$ 51,535.55 | | |

Community & Stakeholders

Local Community Investment Program update

FY19 Round 1

| Organisation | Program | Amount | Paid? | Program complete? |
|----------------------------------|---------------------------------------------------------------------|-------------|-------|-------------------|
| Youth Solutions | Drive Safe animation | \$5,000 | Y | N |
| Cawdor Public School | Rope and balance challenge as part of the upgrade of the playground | \$5,000 | Y | N |
| Campbelltown Community Preschool | Speech pathology | \$5,000 | Y | N |
| Douglas Park Little Athletics | New line-marking equipment | \$3,397.10 | Y | Y |
| | Total | \$18,397.10 | | |

Community & Stakeholders

Videos for Local Community Investment Program



Community & Stakeholders

Local Community Investment Program

FY19 Round 2: ~\$31,000 available

Assessment of applications:

- Camden Rotary Club
- Fisher's Ghost Youth Orchestra
- Macarthur Aviary Bird Club
- My Gateway
- Tahmoor Netball
- Turbans4Australia
- We are community

Legacy project:

- Menangle Hall presentation

Community & Stakeholders

Upcoming events

Presentation to Wollondilly Shire Council – 1 April

- Updating Council representatives on Stage 1 decommissioning and rehabilitation program

Camden Show – 5 & 6 April

- Stall
- Sponsoring Beef Cattle arena
- Assistance with AGL electricity and gas billing
- AGL merchandise and information about gas project

Contact



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