



AUSTRALIAN PLAINS SOLAR & BATTERY PROJECT **PROJECT OVERVIEW**

February, 2024



GREEN GOLD
ENERGY



Project Developer

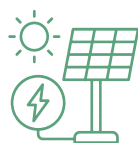
Green Gold Energy is a company providing turnkey solutions for **SOLAR +** Projects. We specialise in development, engineering, construction, operation and general contracting of the projects. The **SOLAR+** projects are designed for renewable energy that combine solar power generation with BESS, Micro-grid, Hydrogen, EV Charge Station and Data Centre.

Since its inception, Green Gold Energy has maintained close ties with local government and network providers and has become a pioneer in the field of the renewable energy industry in South Australia, Victoria and New South Wales.



70+

Solar+ Projects
under development



20+

Projects
commissioned



1.2GW

Pipeline of Solar



2 GWh

Pipeline of BESS



10 Million

Square Metres of Land
Has Been Renovated



1.2 Million

Tonnes of Carbon
Emission Has Been Saved

About the Project

The Australian Plains Solar & Battery Energy Storage System Project (APSP) consists of 200MWac solar and 200MW of BESS over a 325-hectare block of land situated in the Goyder council located in the Australian Plains region.

The site has been secured in 2021 by the project owner. It is aimed to create employment opportunities over the 18-month construction period. The project is expected to be shovel ready by the end of 2024, and construction will commence in 2025.

APSP will be connecting to the Robertstown Substation where the interconnector cable will be constructed, connecting South Australia to New South Wales. It will power households interstate by using South Australian generated energy.

Project Milestones

CA STAGE (Connection Agreement Process)	DA STAGE (Development Authorisation Process)
<input checked="" type="checkbox"/> Completion of Connections Option Report	<input checked="" type="checkbox"/> Crown Sponsorship Obtained
<input checked="" type="checkbox"/> Submission of Connection Enquiry Report	<input checked="" type="checkbox"/> Environmental Reports Complete
<input type="checkbox"/> Grid Performance Study & Submission of Connection Application	<input type="checkbox"/> Submission of development application to State Planning Commission
<input type="checkbox"/> Generator performance Standard agreed	<input type="checkbox"/> Formal public notification of application
<input type="checkbox"/> Full Impact Assessment Completion	<input type="checkbox"/> Consideration of application by State Commission Assessment Panel
<input type="checkbox"/> NER 5.3.4 Approval	<input type="checkbox"/> Decision by the Minister for Planning
<input type="checkbox"/> Execution of Connection Agreement	<input type="checkbox"/> Development authorisation

Ready to Build

START



COMMISSION

Facts



395.546 tonnes of carbon emissions saved per year, equivalent to taking over 60,300 cars off the road



200MW installation capable of generating 395,546MWh of electricity per year



Equivalent to the annual energy needs of **72,267 houses** assuming an average daily house consumption of 15kWh



Approximately **325 hectares** of land



Approximately **50 hectares** of native vegetation to be retained



200 construction jobs brought to the region

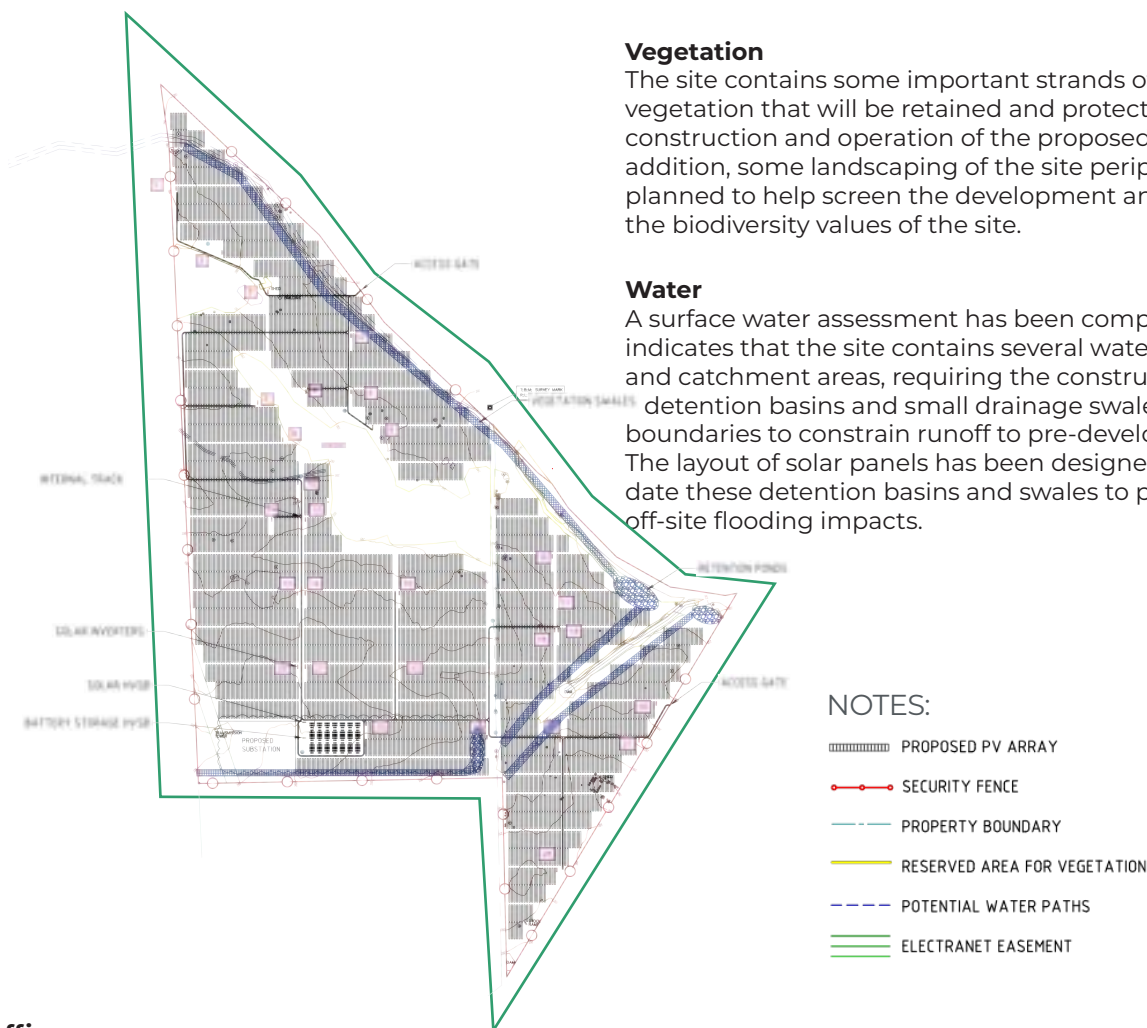


5 to 10 ongoing contractor jobs

THE PROPOSAL

Proposed solar installation for Lot 315 Bower Road, Australia Plains

The project will be executed with a capacity of 200MW, complemented by a 200MW AC-coupled battery system.



Traffic

A traffic assessment of the solar farm site has recommended that access to the site be limited to two routes: the first via Worlds End Highway and Emmaus Road (to access the southern portion of the site) and the second via Worlds End Highway and Schulz Road (to access the northern portion of the site). Both routes are supported by the Goyder Council and the Department of Planning, Transport and Infrastructure. Green Gold Energy will also improve the intersections of Worlds End Highway with Emmaus and Schulz Roads to allow for safe heavy vehicle movements that do not cross the centre line of each carriageway.

Project Accessment

The proposed solar farm is to be assessed by the State Commission Assessment Panel against the relevant provisions of the recently introduced Planning and Design Code (Phase 2). Council will be provided with an opportunity to comment on the proposal and Green Gold Energy will continue to liaise with Council's planning and infrastructure staff to ensure they are informed of project status.

Aboriginal Heritage

Under the Aboriginal Heritage Act 1988, Green Gold Energy is required to take all reasonable measures to ensure that the solar farm development has no adverse impact on Aboriginal cultural heritage. A desktop study and risk assessment of the site has been completed, indicating that there are no listed items of cultural heritage significance on the site and there is, as a result, a very low risk of project works encountering Aboriginal heritage.

Off-site Impacts

The operation of the solar farm will not disturb activities on adjacent land or the wider locality. By their very nature, solar farms are quite benign in terms of their off-site impacts and are highly unlikely to cause any nuisance associated with way of noise, dust, fumes or glare.

Grid Connection

A substation will be constructed as part of the solar farm and is to be located adjacent the existing high voltage transmission line to minimise the need for additional overhead lines to connect into the grid. Green Gold Energy has obtained approval from the Office of the Technical Regulator for the project.

Frequently Asked Questions

Why is this project important?

Solar is a passive form of technology, generating electricity without creating any waste products or pollution during operation. This makes it an ideal energy source for South Australia where the State government has committed to securing 50% of its total energy needs from renewables by 2025. This project will make an important contribution to achieving this target while substantially reducing carbon emissions and diversifying our energy mix.

Can agricultural activity continue on the site?

Solar farms are generally compatible with agricultural activities, allowing for dual land uses to provide landowners with an additional income source. This solar farm has been designed to allow for grazing activities to continue on the land during its operation.

Can mining activity continue on the site?

The project site is subject to three mining exploratory licences and Green Gold Energy is currently negotiating an agreement with licence holders to enable co-existence of renewable energy and mining activities over the course of the project.

How will the solar farm appear?

The solar farm will be enclosed by a 2 metre high security mesh fence which will incorporate a number of small openings to allow for the movement of wildlife. Some landscaping of the site along the frontages of Bower Road, Emmaus Road and Junction Road will also be provided to improve the appearance of the development. Given the relative isolation of the site, it is highly unlikely to cause any adverse visual impact.

Do solar installations pose a health risk?

No – solar is a passive technology which does not produce any harmful by-products. All electrical equipment used meets the relevant standards and will not cause any ill-health to site personnel or visitors to the site.

How are the panels kept clean?

Rainfall generally helps to keep the panels free of dust and dirt. The panels will be thoroughly cleaned as a regular maintenance activity using specialised equipment and water brought to the site on trucks to ensure the solar farm operates efficiently.

Will the solar farm cause traffic disruption?

Once operational, the solar farm will require occasional maintenance by contractors who will access the site on a weekly/monthly basis. While the construction phase will see an increase in workers' vehicles accessing the site and heavy vehicles delivering materials to the site, it will not cause any disruption to the local road network. A traffic management plan will be put in place during construction to direct all traffic to one of two approved access routes: Worlds End Highway-Emmaus Road and Worlds End Highway-Schulz Road. These routes are supported by both the Department of Planning, Transport and Infrastructure and Regional Council of Goyder.

What happens if there is a fire?

We will be undertaking consultation with the Country Fire Service (CFS) and will prepare a bushfire management plan for construction and operational activities associated with the solar farm. We will work closely with the CFS to ensure an appropriate response plan and worker training is in place to safely address any fire threat.

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GREEN AND BEYOND