

# Solar farm on your land

Renewable energy development for landowners



Bright energy for tomorrow



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## Diversification

By diversifying into solar energy, landowners have an opportunity to receive regular, guaranteed income for up to 25 years, with no additional labour or expense required.

Landowners can earn an income for hosting a commercial solar farm, which typically requires 25 - 100 acres of land suitable for solar panels. The level of income will more than compensate for the loss of agricultural production due to land take.

### Benefits of solar energy

- Regular income for up to 25 years
- No expense for landowners
- Fight climate change
- Sustainable energy supply
- Green electricity for local consumption



## Why solar power?

In response to climate change, the Australian government has established a Renewable Energy Target to encourage additional generation of electricity from renewable energy sources. The intention is to achieve a 20% share by 2020.

Solar power does not produce greenhouse gases or hazardous waste. Australia has a vast supply of sunlight which is strongest during the daytime

when demand for electricity is at its greatest. Harnessing the sun to produce electricity offers a clean energy source that is safe, secure and reliable.

Typically, a 10MW solar farm will generate enough electricity to supply approximately 2,800 homes and will displace 16,000 tonnes of greenhouse gas emissions per year, which is the equivalent of taking 5,000 cars off the road.\*

ACHIEVING  
**20%**  
BY THE YEAR 2020

*\* For reference used, please refer to the back page*

## Developing your land

We will carry out assessments on your land including solar monitoring and stakeholder consultations, to determine whether it is suitable for development. If indications are positive we will move to detailed feasibility studies with a view to submitting a planning application.

Once a successful planning approval is achieved, the installation of a solar farm should take between 9 and 12 months.

The construction process is a series of distinct activities that will be planned in association with you so as to minimise disruption to farming or other activities.

Once built, the solar farm is fenced off to facilitate secure operation of the equipment and to ensure safety of people and livestock.



## Site Selection

A commercial solar farm requires a site with high annual solar irradiance, at least 25 acres, minimal shading and close proximity to the electricity grid.

The land must be flat or gently north sloping and available to host infrastructure for at least 25 years.

SOLAR FARM SIZE	AREA	AVERAGE EQUIVALENT NUMBER OF HOMES SUPPLIED BY ELECTRICITY*
5 MW	25-100 ACRES	1,400 - 2,000 HOMES

*\* For reference used, please refer to the back page*

## Solar Systems

There are two main types of commercial photovoltaic systems: flat-panel photovoltaics (PV) and concentrated photovoltaics (CPV).

Flat-panel PV systems comprise flat solar panels of photovoltaic cells either installed in long rows spaced 2 to 5 metres apart or individually mounted and may include a solar tracking system.

Concentrated Photovoltaics (CPV) use lens or curved mirrors to focus a large amount of sunlight onto a small area of

photovoltaic cells to generate electricity. CPV systems may also be installed in long rows or individually mounted dishes.

Other infrastructure required for a solar farm include underground cabling to a central inverter and either underground or above ground transmission line to the local electrical grid. Internal access tracks may need to be established and some existing tracks may require upgrading. Fencing and landscaping may also be established.



## Operation

Once operational, solar farms are low maintenance and access for repairs and upgrades will only be required occasionally.

A remote monitoring system will identify any faults and shut down the system, if required, pending diagnosis and repair by on-site technicians.



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## Working with Solar Prospect

Solar Prospect is the solar arm of Wind Prospect, which has over two decades of experience in the renewable energy industry. The company is one of the most successful independent renewable energy developers in the world and to date has secured planning approval for over 2.3 GW of renewable energy projects worldwide. This success is attributable to careful site selection, optimised site layouts and in-depth consultation.

At no cost to you, our teams will prepare and progress your project's development application, taking care of all aspects of the development process, from commissioning environmental studies to liaising with the local council.

We pride ourselves on our strong relationships with landowners and are happy to put you in touch with other landowners who can tell you more about their experiences with us.

Solar Prospect has been involved in the planning, due diligence and operations of over 350 MW of solar projects worldwide for a range of clients including lenders, utilities and landowners.

***Working with us means your solar farm has the best chances of becoming a reality.***



## Contact us

**We have a number of offices across Australia. Please contact us and we will ensure to connect you to the most appropriate member of our team.**

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### Figures quoted in this brochure

\* Figures are calculated using information from: Electric Power Research Institute (2010); ACIL Tasman (2011); Australian Government (2012); Australian Bureau of Statistics (2011) and National Transport Commission (2009). For a full methodology and guide to references, please contact us on [info@windprospect.com.au](mailto:info@windprospect.com.au).