

Solar Farms

Frequently Asked Questions

Question	Answer
What is a solar farm?	A solar farm is a large-scale solar energy installation designed to generate electricity from sunlight. It typically consists of thousands of photovoltaic (PV) modules mounted on steel structures.
What is a PV module made of?	PV modules are made up of many individual and interconnected photovoltaic cells. The most common types of modules are monocrystalline silicon, polycrystalline silicon and thin film.
How do solar farms work?	Solar farms work by converting sunlight into electricity. The PV modules in the solar farm capture the sun's energy and convert it into direct current (DC) electricity. This DC electricity is then converted into alternating current (AC) electricity by an inverter.
Who assesses and approves solar farms to be built?	Depending on the state or territory where the solar farm is located, the approval for project is determined at Local or State Government level. Various related assessments may be required throughout its planning and development phase, under relevant Local, State and Federal legislation.
Where does the electricity go?	Electricity is fed into a transmission line for distribution into the electricity grid.
What happens to solar farm at the end of its lifespan?	Typically, a specific project permit for a solar farm includes provisions related to decommissioning. At the end of lifespan, PV modules are typically decommissioned and removed from the site. The PV modules can be recycled, while the underground components are typically left in place. In future, it's likely that solar farms could be repowered, which would likely include considerations like permit requirements, technology and infrastructure upgrades and grid capacity etc.
What are the maintenance requirements for solar farms in Australia?	Solar farms require regular inspections and maintenance. Requirements vary depending on the location and conditions of the PV modules. Maintenance requirements typically include vegetation maintenance and cleaning of the PV modules.



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How much land is needed to build a solar farm?	The amount of land depends on the overall number of PV modules to be installed, with considerations to module size and spacing requirements, as consideration for additional project infrastructure such as internal access roads, substation, site offices etc.
Who usually owns the land where solar farms are located?	Typically, solar farm operators will enter long term lease agreements with a local landholder for the purpose of developing, constructing and operating a solar farm on their property. Some solar farm operators purchase the property/land required for the solar farm site.
Can local landowners continue farming land if they have PV modules constructed on their property?	Typically, the solar farm infrastructure occupies a large portion of the overall project area. Combining agricultural production and energy generation is becoming an increasingly common practice. Many solar farm operators in Australia are grazing sheep within the solar farm area and some have started undertaking some cropping/horticultural activities.
Apart from PV modules, what else is constructed on a solar farm?	Typically, a solar farm will also require the construction of some internal access roads, underground cabling, Power Conversion Units, a substation, operational and maintenance facilities, storage areas and other related equipment and infrastructure.
What is the cost of building a solar farm in Australia?	The cost of building a solar farm in Australia depends on a range of factors, including the size of the project, location, and technology used. However, according to the Clean Energy Council, the cost of building a new solar farm in Australia has fallen significantly in recent years and is now one of the cheapest forms of new build electricity generation.
What are the benefits of solar energy for regional communities in Australia?	Solar energy can bring a range of benefits to regional communities in Australia, including direct and indirect job opportunities, contract and supply opportunities, investment in local infrastructure, and a source of reliable and affordable electricity. Some solar farm projects also offer community benefits programs, which provide funding for local community projects and initiatives.



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What is the lifespan of a solar panel?	Large-scale photovoltaic (PV) solar panels generally have a design life of 25 to 30 years and will naturally degrade or lose their efficiency over time. Panels are expected to still produce 85% of their original capacity at 30 years.
Do large-scale renewable energy projects affect nearby property values?	Studies show that impacts of large-scale renewable energy projects are small and temporary, generally limited to the construction phase. Any negative effects typically recover within 3–5 years after project operation begins and some areas even see increased property values due to improved local infrastructure and economic growth <u>e</u> .
Can renewable energy projects increase property values?	Large-scale projects can boost local economies and infrastructure, potentially increasing property values in the broader area. During the operational period, the land hosting renewable energy often recovers from grazing and cropping, leading to increases in soil and biodiversity values, which can increase property values. Landholders who host renewable energy projects have also spoken about it eliminating the need to sub-divide their land in retirement as it provides ongoing non-farming income.
Will a clean energy project near my home impact my ability to get public liability insurance?	The Insurance Council of Australia (ICA) has stated that insurers do not have specific concerns related to neighbouring clean energy infrastructure. At the time of writing, the ICA is not aware of any instances where its members have been unable to provide insurance or have increased premiums as a result of a farm (or a neighbouring property) hosting energy infrastructure, see full statement

