

Does a 50 kW Solar System Work in Brisbane Climate?



Commercial enterprises and individuals in Brisbane are finding it exciting to purchase a 50 kW solar device. It is evident that solar energy is cheap and can be a dependable supply of power, especially in the long run. This blog discusses the fee, strength generated and profitability of having a 50kW [solar system Brisbane](#).

Cost of a 50kW Solar System

Currently, the expense of a 50kW solar system Brisbane installation is as low as \$50,480 in August 2024 thinking about STC rebate and GST. These expenses depend upon the type of device that you use and the installers you lease, and there could be additional expenses which include crane lease or switchboard change. It is suggested to get quotes from numerous unique businesses so that you can determine which offers the lowest charge in your enterprise.

Energy Production of a 50kW System

The performance of a 50 kW sun power device relies upon several factors. These include the area of the device, the exposure and tilt of the solar panels mounted in addition to shading. In Brisbane, because of the excessive density of daylight, a 50 kW system produces around 4 kilowatt hours (kWh) in keeping with kW of set-up potential in step with the day. This is about equal to 200kWh of electricity produced each day.



Specific Measures: Solar Panels and Roof Space

Currently, solar panels have an excessive efficiency of over 500W in keeping with panels. If you want to put in a 50kW device, you would require about 95 to 115 panels. In common, each panel measures approximately 1 meter using 2 meters. In addition to the space required for maintenance and the distance between panels, you would require about 400 square meters of usable roof area.

Financial Returns on a 50kW System

Getting a [50kW solar system](#) can be financially rewarding in several ways. As 2021 data demonstrates, the average payback period is approximately 3 years, and IRR is in the range of 20-30%. Another method, the instant asset write-off program launched in connection with COVID-19 also enhances the payback period. The following are some factors that impact return on investment:

- **Initial and Ongoing Costs:** Average costs of a 50kW system amount to approximately \$47,940 in Sydney. Extra features and complications should also be taken into consideration.
- **Electricity Prices:** High electricity tariffs imply a high return on investment in the solar undertaking.
- **Financing:** Solar systems can be purchased outright or with the help of financing. Others consider financing appealing since compensation is usually less than the returns obtained.
- **Feed-in Tariffs:** While no longer always offered, feed-in price lists can bring further price using offering revenues for the power exported lower back into the grid.

Cleaning and inspection of the solar system Brisbane are critical to make certain it operates optimally and has a longer lifespan. Proper choice of the panels and inverters, and skilled installation enable performance and adherence to standard protection measures. Choosing a 50kW solar device makes the best experience for lots of corporations in Brisbane as it is value-powerful and gives an amazing return on investment.

[Arise Solar](#) provides quality solar products and reliable advice on how to install and manage systems. They are highly skilled, and professional, and guarantee a stress-free service with affordable prices for solar installations in Brisbane.

Source: <https://www.bpublic.com/blog/does-a-50-kw-solar-system-work-in-brisbane-climate>



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