

Random PV facts...

- Only one in every ten residential solar systems sold in Southern Africa has been designed using a PV simulation tool.
- The average PV module sold to a household in Southern Africa will only produce 62% of its potential capability due to throttling or storage losses.
- Very few utilities in Southern Africa permit the feedback of excess PV-generation. In most cases these utilities will require the prevention of feedback or might bill you for excess generation.
- The average home can only reduce 38% of their electricity bill by means of PV generation alone.
- The cost of storing energy in traditional batteries range between R2.47 and R27.00 per kWh.
- An electricity bill should not be the main factor used to design a PV Systems.
- PV module angles should be determined by seasonal requirement, and not maximum yield.
- Battery replacement should always be modelled into any battery related PV design.

Why a PV Designer?

There is simply no better way to predict the financial viability of a PV system and fine tune the design than to use a PV design simulator. Avoid typical mistakes like incorrect system selection or generation-consumption profile mismatch. Use the correct battery technologies as well as the sizing to meet expectation. Our financial simulator will calculate battery life and incorporate battery life for an accurate ROI. Avoid disappointment later; take the time to ensure correct design.



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About Jacara PV Designer

Any PV design should start with the actual energy profile of an efficient home, and this is exactly what Jacara Designer does. Jacara Designer utilizes the highly accurate post efficiency data directly from Jacara Models in the PV simulation platform. The data from Jacara Models will incorporate seasonal changes accurately; understand this requirement and design system to incorporate this element. Eliminate the need to “oversize” and remove the guessing margin.

Jacara is the only PV design platform that includes all the common tariffs, including generator, and can accurately simulate the feasibility of all the different types of PV systems taking all these factors into account. Unlike most PV design tools that are simply yield simulators, Jacara Designer brings all the variable factors into one platform to give you an accurate simulation of what is actually going to transpire, allowing you to make an informed decision.

Benefits

- Design any system type
- Design across different inverter brands
- Emulate inverter reaction
- Incorporate seasonal effect
- Include any tariff type
- Compare different systems types
- Generation-consumption profile match
- ROI and cash flow charts
- Include battery replacement cost where applicable
- Compensate accurately for losses or shortfall
- Panel direction consumption profile match
- Panel inclination seasonal profile match

Jacara Designer - make your mistakes on paper, not in your home



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