



CuriousKid Engineering

SOLAR PV DESIGN & ENGINEERING

Pre-Sales · Post-Sales · Design Support

Company Profile

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INTRODUCTION

Solar design services, since 2017

CuriousKid Engineering began in 2017 as a Facebook page educating people about renewable energy, alongside consulting work for a small handful of clients.

We now run as a back-end engineering office, delivering solar design services to clients in Australia, Europe, Africa, the Middle East, the USA and India.

2017

Operating since

6

Regions served

End to end

Pre-sales to as-built



Created with mapchart.net

PRESENT CLIENT BASE

Where do we fit in your organisation?

01

Sales teams

We act as your in-house PV designer, carrying a job from design through pricing to a finished proposal document.

02

Solar developers

Technical consulting: preliminary design, energy yield, financial analysis, bill of materials, pricing and RFP documentation.

03

In-house engineering teams

We take drafting off your team and stand in as extra engineering capacity on heavy weeks.

04

Installers

We prepare your for-construction drawings and your as-built drawings.

05

Custom support

Tell us how your workflow runs and we will be trained into it.

Pre-Sales Engineering

01

Preliminary design

Panel layouts in AutoCAD, PV*SOL, PVsyst, HelioScope, Aurora, or whichever platform you already work in.

02

Site prospecting

Rooftops worth pursuing, identified from Google Maps, Nearmap and municipal maps against your pre-qualifying criteria.

03

Yield and savings

Bills, hourly data and generation modelled together to size the saving, using our own spreadsheets and design software.

04

Sales proposals

Your back-end design team, building the proposal and preliminary design inside your existing process.

05

Tender and RFP work

We read, design and price up solar projects against the tender or RFP requirements.

06

Custom scope

Not listed here? We will learn your process and take on part of it, or all of it. The goal is a faster turnaround.

Post-Sales Engineering

01

Complete design package

Everything assembled into one professional document, ready for approvals and for handover.

02

Single line and wiring diagrams

SLD, three-line diagram, and communication system wiring diagram.

03

PV module layout drawings

Optimised module layout, mounting attachment detail, string layout, cable, tray and conduit layout.

04

Cable schedule and sizing

Cable sizing, short-circuit calculations, DC and AC cable schedules, string sizing calculations.

05

Switchgear and protection

Circuit breaker sizing and selection for the protection system.

06

Metering and monitoring

Metering and instrumentation design, and solar monitoring system design.

Additional skills

01

Generation analysis and troubleshooting

Reading generation data, diagnosing underperformance, and running root cause analysis.

02

3D layout and visualisation

SketchUp models, walkthrough videos, and inverter and equipment placement drawings.

03

Plant performance monitoring

We watch your existing PV portfolio, issue regular reports, and flag urgent alarms to your maintenance team.

04

Network and utility approvals

Filling out forms and preparing documentation for your network and council approvals.

Our software skillset



Work samples

Live folders, kept current. Ask us for anything closer to your own project type.

- | | | | |
|---|------------------------------|--------------------------|-----------------------------|
|  | Design packages | Full issued sets | Open folder |
|  | 3D walkthrough videos | Rendered flythroughs | Open folder |
|  | 3D design examples | Ground mount and rooftop | Open folder |
|  | Sample set 1 | Representative output | Open folder |
|  | Sample set 2 | Representative output | Open folder |

**Send us the site data.
We will send back drawings you can
build from.**

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