



Denman  
Prospect

# Solar fact sheet

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# Solar overview

Denman Prospect was the first Australian suburb to have a minimum requirement for solar power for every home.

A 6.6kW system will generate over 8700k/Wh of clean electricity per year, reducing emissions from fossil fuel power by approximately 6.8 tonnes a year, and can provide owners a possible saving on their annual electricity bill of \$1,800 - \$2,500.

# Home design

When designing your home you should consider the layout of the solar panels and incorporate it in your home design. PV arrays are to be shown on design drawings which are submitted for building and siting drawings. Efficiency of solar panels can vary significantly, depending on the tilt angle, the orientation, adjacent overshadowing elements and yearly weather conditions. Please refer to the design and siting guidelines for more information.

## Solar irradiation guide

For clarity the maximum efficiency (100%) for the solar panels is facing north and the panels are placed on a roof with a 30 degree pitch. This table should be used as a guide only where it shows the yield as a percentage (%) as a proportion to the ideal installation for combinations to be installed.

Plane Azimuth is orientation of the PV Panels (0 =North, 90 = East, 180 = South, 270 = West) and Plane Inclination is the angle of the PV panels (0 = flat, 30 = standard roof pitch, 90 = vertical like a window).

ANNUAL DAILY IRRADIATION ON AN INCLINED PLANE EXPRESSED AS % OF MAXIMUM VALUE FOR CANBERRA

Plane Azimuth (degrees)	Plane Inclination (degrees)									
	0	10	20	30	40	50	60	70	80	90
0	87%	94%	98%	100%	99%	96%	91%	83%	74%	64%
10	87%	94%	98%	99%	99%	96%	91%	83%	74%	64%
20	87%	93%	97%	99%	98%	95%	90%	83%	74%	64%
30	87%	93%	96%	98%	97%	94%	89%	82%	73%	64%
40	87%	92%	95%	96%	95%	92%	87%	80%	72%	63%
50	87%	92%	94%	94%	93%	89%	84%	78%	70%	62%
60	87%	91%	92%	92%	90%	86%	81%	75%	68%	61%
70	87%	90%	90%	89%	87%	83%	78%	72%	66%	59%
80	87%	89%	88%	87%	84%	80%	75%	69%	63%	56%
90	87%	88%	86%	84%	80%	76%	71%	65%	59%	53%
100	87%	87%	84%	81%	77%	72%	67%	61%	56%	50%
110	87%	86%	82%	78%	73%	68%	62%	57%	51%	46%
120	87%	85%	80%	75%	69%	63%	58%	52%	47%	42%
130	87%	84%	78%	72%	66%	59%	53%	48%	43%	38%
140	87%	83%	77%	70%	62%	55%	49%	44%	39%	35%
150	87%	82%	76%	68%	60%	52%	45%	40%	35%	32%
160	87%	82%	75%	66%	57%	50%	42%	36%	33%	29%
170	87%	82%	74%	65%	56%	48%	41%	35%	30%	28%
180	87%	81%	74%	65%	56%	48%	40%	34%	30%	27%
190	87%	81%	74%	65%	56%	48%	41%	35%	30%	28%
200	87%	82%	74%	66%	57%	50%	42%	36%	32%	29%
210	87%	82%	75%	67%	59%	52%	45%	40%	35%	32%
220	87%	83%	77%	69%	62%	55%	49%	43%	39%	35%
230	87%	84%	78%	72%	65%	59%	53%	48%	43%	38%
240	87%	84%	80%	74%	68%	63%	57%	52%	47%	41%
250	87%	85%	82%	77%	72%	67%	62%	56%	51%	45%
260	87%	86%	84%	80%	76%	71%	66%	61%	55%	49%
270	87%	87%	86%	83%	79%	75%	70%	65%	59%	52%
280	87%	89%	88%	86%	83%	79%	74%	68%	62%	55%
290	87%	90%	90%	89%	86%	82%	77%	71%	65%	58%
300	87%	91%	92%	91%	89%	85%	81%	74%	67%	60%
310	87%	91%	93%	94%	92%	88%	83%	77%	70%	61%
320	87%	92%	95%	96%	94%	91%	86%	79%	71%	63%
330	87%	93%	96%	97%	96%	93%	88%	81%	73%	63%
340	87%	93%	97%	98%	98%	95%	89%	82%	74%	64%
350	87%	94%	98%	99%	99%	95%	90%	83%	74%	64%

# The PV system

**All systems must meet the 6.6kW requirement mandated in the Denman Prospect Building and Siting Guidelines.**

You have the option to go with our solar provider, Harvey Norman Commercial, or use your own. If you choose to use your own provider, you must seek approval from our Design team prior to installation.

Harvey Norman Commercial are familiar with the solar requirements in Denman Prospect and can provide options for inverters that adhere to the Denman Prospect Building and Siting Guidelines.

Harvey Norman Commercial will provide you with the best possible options available, along with:

- 25 year warranty on solar panels\*
- 10 year warranty on inverters\*
- 10 year warranty on installation and workmanship covering any defects in the works carried out by Harvey Norman Commercial's accredited installers

\*If any of installed components become unavailable for any reason, Harvey Norman Commercial Solar will use reasonable endeavours to replace the unavailable component with a component of like quality, functionality and cost.

# Installation process overview

Installation of a PV System in a new residential premises is best done in three stages: electrical cable rough-in and panel installation followed inverter fit-off then final certification.

## Stage 1 - Rough-in electrical cables and install panels

- Rough-in and panel installation is completed before houses are sheeted, usually at the same time as a typical electrical rough-in.
- You or your builder may need to provide your solar provider no less than 3 weeks' notice that a rough-in is required to be completed at particular Premises.
- Your solar provider may require scaffolding to complete the work. Most providers take approximately 2 business days to complete rough-in.

## Stage 2 - Fit-off inverter

- Fit-offs are completed towards the end of a build, once the roof is completely installed and switchboard work is completed as permanent power is required. This needs to be at lock up stage so that inverters are secure after install.
- You or your builder may need to provide your solar provider no less than 3 weeks' notification that a fit-off is required to be completed at particular Premises.
- In most cases, you will be required to complete an STC assignment form, sign it and return to the provider at fit-off.
- Estimated time for most solar providers to fit-off is 2 business days.

### **Stage 3 - Final inspections and certifications**

- The builder and/or land owner are to advise Harvey Norman Commercial no less than 3 weeks' notification when a Certificate of Occupancy has been obtained for each Premises.
- Your provider will organise the necessary inspections and sign-offs.

### **Preferred provider solar installation**

For solar installation, please contact Harvey Norman Commercial by emailing [denmanprospect@au.harveynorman.com](mailto:denmanprospect@au.harveynorman.com) or phone (02) 6202 2000.

### **Alternative solar installation**

There is a minimum 6.6kW solar requirement for each home in Denman Prospect, and you may elect to purchase and install your own system instead of continuing with our preferred supplier. Your elected solar provider must be approved by the Capital Estate Developments Design and Compliance team before you proceed with installation.

For more information, and to ensure your home will be compliant, please contact us by phone on (02) 6175 3300 or send an email to [design@capitalestate.com.au](mailto:design@capitalestate.com.au).