

ROOF INSTALLATION QUESTIONNAIRE

The purpose of this form is to obtain all the information we require to give you an accurate Estimate for the installation of a grid feed solar system at your home or business. The completed questionnaire will allow us here at Rainbow Power Company to get an Estimate to you as quickly as possible and it will also be helpful to you if, or when, you may be in a position to consider a future upgrade, or expansion of your system.

Name: _____

Install address: _____

Phone: _____ Fax: _____ Email: _____

Grid Feed solar systems are, in principle, very simple. Ideally we need a good sunny position on a north facing roof to mount the solar panels. The solar panels connect to the power inverter, which converts the DC current to AC current, this then feeds the electricity directly into the grid. If the grid fails, your system will also shut down to protect Country Energy repair staff.

If your roof is not facing north we will still be able to install a system with frames that angle the panels for optimal sun exposure. Shading, particularly in the middle of the day will affect solar output, so we ask you to offer an alternative site *if* shading is a problem.

SOLAR PANELS:

Usually the best place to mount the solar panels is on your house roof. If you have a better suited site eg better access to the sun or access to the meter board, please complete this form with the details of the alternate site.

- 1)* Please provide a photograph of your site taken from the north looking back at your roof. If the photo is *not* taken from the north, please indicate approximate compass bearing: _____
- 2) If your roof site is not facing north, please indicate the approximate direction: _____
- 3) The roof slopes at approximately: _____ degrees from the horizontal.
- 4) If you would prefer the solar panels to be mounted flush on the roof please indicate: _____
- 5) The roof construction is; Tile: _____ Corrugated zinc or colourbond: _____ other: _____
- 6) Available roof space: _____ metres long and: _____ metres wide.
- 7) The eaves are approximately: _____ metres above the ground.

SHADING:

If the area where the solar panels could be mounted is shaded, please indicate for how long;

- i) In summer time; morning: _____ hours, middle of the day: _____ hours, afternoon: _____
- ii) In winter time; morning: _____ hours, middle of the day: _____ hours, afternoon: _____
- iii) If you believe there may be shading issues please take a photo from the house looking north.

***ALTERNATIVES:**

Roof mounting is preferred, however ground mounting of solar panels is also an option, particularly for larger arrays and where available roof space is limited, eg on rural properties. Ground mounting is usually more expensive and can involve issues with fencing and grounds maintenance.

- 1)* If you feel a ground mounted system is an option, please provide a photo of the desired location from both the north and the south.

INVERTER LOCATION:

The solar panels are wired to the inverter with dedicated DC cable. We try to keep the cables off the roof as much as possible for aesthetic and safety reasons. The inverter is best mounted in an area where it will not be affected by moisture, dust, or direct sunlight. Under a balcony is fine but under an eave generally will not offer sufficient weather protection. Dedicated waterproof boxes can be used to mount inverters if required. This additional cost can be included in your Estimate.

- 8) Please take a photo of the proposed area for the mounting of the inverter.
- 9) Please approximate the length of the cable run between the solar mount area and the proposed inverter location: _ _ _ _

METER BOX:

The inverter is then wired to your meter box with AC cable. Again all cables are protected in UV conduit. The meter box needs to be big enough to mount the additional solar meter. Most modern boxes are fine but we need to ensure that if there are any problems we can identify them before installation.

- 8) Please take a photo of the meter box with the lid open so we can clearly see the whole box and the main components inside.
- 9) Please approximate the length of the cable run between the proposed inverter location site and the meter box: _ _ _ _

If there are any obstructions or potential problems with these cable runs please indicate issues below and/or provide photo.

SYSTEM SIZE FOR YOUR ESTIMATE:

We will provide you with an estimate to your specifications. Please indicate if you would like a system Estimate based on either;

- a) Example number: _ _ _ _ (refer grid feed solar systems examples)
- b) Price range; \$ _ _ _ _ to \$ _ _ _ _
- c) Biggest system based on the roof area available: _ _ _ _ (refer question 6)

ADDITIONAL INFORMATION

The space below is for any additional information that may be required such as;

- 1) Site map of the property showing meter location relative to solar panel site
- or
- 2) Mud map with directions to the property, if required