

NEV POWER

Narara Ecovillage

25 Research Road

Narara NSW 2250

Please scan and return signed form to power@nararaecovillage.com .

**Application for Connection to the NEV Power Network – version 24 03**

This application form must be completed and approved prior to making a connection to the Narara Ecovillage electricity network infrastructure for which NEV Power is the exempt Licensee under the AER regulations. All network connections must be approved by NEV Power prior to being made.

If approved, this application does not absolve owners, builders, developers or any other party, from complying with obligations they are required to meet under any codes or standards, development application, or any statutory or regulatory requirements.

The application includes your NEV Buildings Standards Energy Demand Assessment with maximum demand calculations according to AS 3000. This must be completed and signed by your electrical contractor. We want you to install 3 x 16mm2 cable to the fusebox minimum terminating on 80A fuses, complete future proofing every house. We then prefer/recommend single phase meter for every house that does not meet one of the following:**10kw or bigger solar, loads that require 3phase, or a max demand bigger than 63A**. We will default to single phase and all 3 phase applications must have the Maximum demand calculations approved by the Network manager. We currently only recommend single phase 7kw EV chargers. You will need approval for any bigger EV chargers.

Where a secondary dwelling is to be connected on a single lot, the applicant must decide if it will be separately metered, requiring a separate application to be completed. NB tenants in a dwelling must be separately metered.

An application fee applies to this connection and is payable at the completion of the installation. The fee for a single phase connection is $400 and for a three phase connection $750. On receipt of payment and approval, NEV Power will provide suitable smart meters for installation by an approved electrical contractor. In addition, you will be provided with a Home Energy Management system which will allow you and NEV Power to monitor power consumption through an external lower power network connection.

Within 21 days of the connection being made, a NSW Fair Trading Certificate of Compliance for Electrical Work, and a copy of the Electrical Service Diagram and meter details for the work must be supplied to NEV Power for our records.

**Site address**

|  |  |
| --- | --- |
| Lot Number |  |
| Street Address |  |
| DA Approval Number |  |

**Applicant contact details**

|  |  |
| --- | --- |
| Mobile phone number |  |
| Home Phone number |  |
| Preferred email address |  |
| Current residential address |  |

**Contractor details**

|  |  |
| --- | --- |
| Name of electrician and company name if appropriate |  |
| Licence number |  |
| Mobile phone number |  |
| Office Phone number |  |
| Preferred email address |  |
| Postal address |  |

**Domestic Dwelling – Maximum Demand Information**

When planning the electrical work for your dwelling, the electrical contractor is required to determine the dwelling’s electricity maximum demand (MD) using AS 3000 (2018). The wiring rules allow 4 methods to be used see clause 2.2.2 and Appendix C2 maximum Demand using Table C1. **Please get your electrician to compete the following table for your new dwelling and Email it to** **Hannes@zenindustrial.com.au** **if the result is more than 63A requiring 3phase.** This is the generic simple method provided for your convenience, please feel free to use any of the 4 methods and feel free to supply any other evidence if the below table isn’t sufficient

|  |  |  |  |
| --- | --- | --- | --- |
| Load Group | Single domestic or unit demand (per phase) | Dwelling loads | Demand Amps @ 230V |
| **A - Lighting** | 3A for the first 20 points (lights) + 2A for next 20 points | <insert # light fittings in your design> |  |
|  | If <150w either fixed or outlet 2.3m above floor count as 1 additional  | 50w exhaust fan |  |
|  | 2 points per metre of track | X metres of track lighting |  |
| **B - Power** |  |  |  |
| 10A socket outlets | 10A for first 20 points(sockets) + 5A for next additional 20 points (sockets) | < insert number of single and double power sockets> |  |
|  |  | < insert any fixed appliance such as a strip heater> |  |
| 15A socket outlets | 10A for each socket | <insert # sockets> |  |
| **C - Ranges** | 50% of maximum connected load | <eg 10kW induction range> |  |
| **D – Heating & Air Conditioning** | 75% of maximum connected load | <e.g 4.8kW reverse cycle air conditioner> |  |
| **E – Storage Water Heater** | Full load current  | <e,g 3.6 kW hot water |  |
| **F – EV charger** | Full load current |  |  |
|  |  | **Total Maximum Demand** |  |

Prepared by …………………………………… Signature ………………………… Date / /

**Connection details**

|  |  |
| --- | --- |
| Connection type – Single or 3 phase |  |
| Size of PV system |  |
| Hot water heating details |  |
| Air Conditioner details |  |
| Battery details  |  |
| Expected connection date |  |

**Smartgrid wiring guidelines for your electrician**

Minimum switchboard size is a standard 600x600 metal box and the enclosure (bottom left) inside needs to allow at least 4 extra single pole spaces that are unused. The mains power meter can be in the main enclosure or a separate 2 pole enclosure – 6 pole for 3 phase. Minimum size mains are 16mm2. Soldered main earth connections not allowed – please use earth bars either incorporated in enclosure or a standard earth bar on the rear of the board.

|  |
| --- |
| **Applicant declaration and signature**I declare that the information provide above is true and correct and that I am authorized to make this application for connection. I confirm that I have executed an Energy Supply Agreement with NEV Power. |
| Name |  |  |
| Signature |  |  |
| Date |  |  |