

20th March 2020

Narara Ecovillage – Guidelines for Builders and Trades

Congratulations on being selected by one of our owners to build their new home. This document is intended to assist you in working effectively with Narara Ecovillage and to communicate our requirements.

Some key contact points within the village

NEV Admin – Jazz Mozzi – 02 4328 1588

NEV Power network manager – Mike Crawley - 0418 638 252

NEV Water network manager – Steve Errey - 0466 786 570

Site induction

We require builders to arrange a site induction briefing before construction commences. Contact Jazz Mozzi on 4328 1588 to arrange an induction. Please note that we require owners to pay a construction bond and to provide us with a copy of your insurance before construction commences.

Water and Sewer connection

Narara Ecovillage has its own water authority licence issued by IPART. The village owns the entire water and wastewater reticulation system within the village boundaries. We provide 2 water services, a normal potable water service and a lilac non potable water service which should be connected only to flushing toilets and to outside garden taps. **Under no circumstances should the lilac non-potable water pipes be connected to other services within the house such as laundries.**

Homeowners are required to submit a written **Request for Connection application form** to NEV Water for water and sewer connections.

All the blocks have risers installed for potable and lilac non-potable water connections. We expect your licenced plumber to work with our licenced plumber to complete the water service connections including the installation of the water meter and the sewer connection. We have engaged Central Coast Council to perform the normal connection inspections.

Please contact Steve Errey our NEV Water Network manager to organise the connection.

The following link [NW Water & Sewer connection guidelines](#) will take you to a document outlining our technical specifications for the potable water, lilac non potable water and sewer connections.

Please note your licenced plumber will be required to supply a copy of the Office of Fair Trading Notice of Work for plumbing and drainage works and a proposed plumbing diagram. The plumbing diagram must show that there will be no interconnection between the potable water supply and other water sources. These 2 documents must be supplied before commencing work.

NEV Water also requires the following when the plumbing work is completed.

- NSW Govt - Office of Fair Trading Certificate of compliance for plumbing and drainage work
- Sewer service diagram – which shows the underground connection from the house to the sewer connection
- Plumbing and drainage plan – which shows all water (hot, potable cold, non-potable cold (lilac), tank water) and wastewater connections within the building. This plan needs to show that there is no cross connection and that the non-potable lilac supply has only been connected to toilets.

Please send all correspondence to water@nararaecovillage.com.

Power connection

Narara Ecovillage has its own embedded power network which is operated by NEV Power. The embedded network is an R2 exempt embedded network operating under the AER regulations.

The network is connected by a high voltage (HV) connection to the national grid. Our HV energy supplier is ERM. The grid infrastructure is fully installed and operational. Your licenced electrician will need to contact Mike Crawley network manager for NEV Power to arrange for the initial connection and meter installation to the building site.

Under normal circumstances we aim to provide our existing customers with 3 days notice of a power disruption whilst a new customer is connected.

Homeowners are required to complete a [NEV Power Energy Agreement](#) and a [NEV Power Request for Connection](#) form which contains contact details for the licensed electrician. The Request for Connection also contains the Maximum Demand Calculation. Your electrical contractor is required to determine the dwelling's electricity maximum demand (MD) using AS 3000 (2018) and to countersign the form.

Narara Ecovillage operates a smart grid which means that in addition to the normal meter we will be installing a smartgrid management system. We will require the following cabling requirements within the electrical switchboard.

Please ensure your electrician installs a pink Cbus rated CAT5 cable from the home router (NBN Modem) to inside the electrical switchboard and one from the home router (NBN Modem) to the inverter location. Both the Home Energy Management system, which will be installed in your switchboard, and your PV inverter require a hard internet connection. If the owner does not plan to have an NBN connection in your house, please notify NEV Power immediately. The Home Energy Management system in the switchboard also requires a double GPO in the top right-hand corner.

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.

NEV Power requires the following when the electrical work is completed.

- Certificate of compliance – Electrical work
- Electrical service diagram which shows the primary connection to the network

Please send all correspondence to power@nararaecovillage.com.

This information is also available on our website [NEV Power Trade Support](#)

Works as executed drawings

This directory contains all the WAE drawings showing lot connections for water, sewer, power and NBN.

[WAE directory](#)

Internet & NBN Connection

NBN has installed an optic fibre network within the village. You will need to arrange for NBN to install the final leg of the NBN connection to the premises. The attached document has been published by NBN as a guideline for builders.

[NBN – Key information for builders and cabling](#)

Owners are required to choose their own internet service provider. Unlike water and power Narara Ecovillage does not have any central community service.

Owners are encouraged to make sure their house is cabled for non-WIFI ethernet connections at least to the primary living areas within the house.

Here is a link to the [NBN Location ID's](#)