

## 11. Electrical and Build Installation Requirements

Eglinton Village Energy (EVE), will be the village electricity provider and not Synergy.

Please include your electrical plan with this developers approval, with the solar inverter clearly marked on plans for both opt in and unsure owners.

Please refer to the electrical Installation standards below for requirements to build at Eglinton Village.

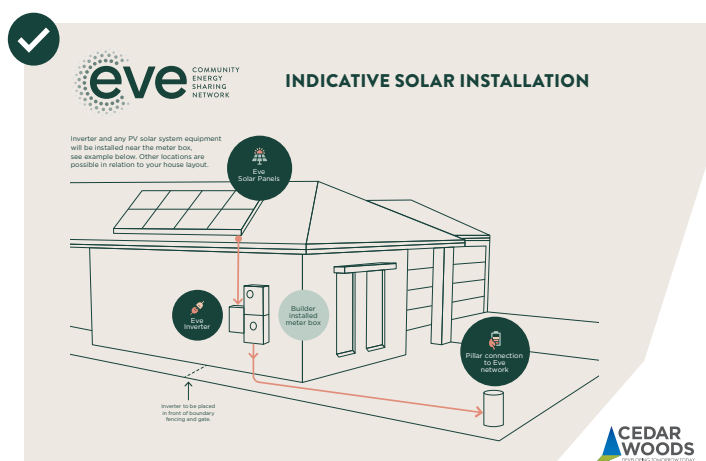
For further information please contact Eglinton Village Energy email: [customerservice@eglintonvillageenergy.com.au](mailto:customerservice@eglintonvillageenergy.com.au)

For EVE fees and charges please refer to their website: <https://eglintonvillageenergy.com.au/fees-and-charges>

### Electrical Specification

#### Main Switchboard Specifications for Electrical Contractors

- \* AS3000, AS5033, AS4777.1, AS4777.2
- \* IEC 61215, IEC 62109, AS3100, AS 3008.1.1
- \* AS1170.2, AS1768, AS61439.1, AS 61439.3
- \* Clean Energy Council Guidelines
- \* WA Electrical Requirements
- \* Eglinton Village Energy Standards



#### Eglinton Village Energy Minimum Requirements

	Single Phase Installation	Three Phase Installation
Consumer Mains Cable Size	Copper Conductors, 25mm <sup>2</sup> , V-90 PVC	Copper conductors, 16mm <sup>2</sup> , V-90 PVC
Consumer Site Switchboard Frame	DIN 24 (1)	DIN 24 (1)
Customer Mains Switch	63A Circuit Breaker (2)	50A Circuit Breaker (2)
Service Protection Device (SPD)	80A HRC Fuses (3)	63A HRC Fuses (3)

- (1) Switchboards to be a minimum of DIN24 with the following provisions made for addition of solar PV:
- 4 Poles next to each other left free for single phase homes (1P MCB and 3P for meter)
  - 6 Poles next to each other left free for three phase homes (3P MCB and 3P for Meter)

(2) The Customer Mains Switch (CMS) on all switchboards is to be a Circuit Breaker which has been tested for compliance featuring the Regulatory Compliance Mark (RCM), 6kA, C-Curve. This is to ensure discrimination with the Service Protection Device (SPD).

(3) Service Protection Device (SPD) fuse cartridge will be supplied by EVE.

#### Solar System Array and Allowances

Size and quantity of modules per inverter string are subject to roof space availability.

Subject to a standard target output (DC) of 6,600 Watts per array, module sizes may vary from 410W to 660W. An allowance of 15kg/m<sup>2</sup> to accommodate static load.

#### Reference Indicative Drawings

Eglinton Village Residential 1-Phase Supply with Solar PV System: Typical Single Line Diagram [2304-ESL-01]

Eglinton Village Residential 3-Phase Supply with Solar PV System: Typical Single Line Diagram [2304-ESL-02]