

Guide for Connecting Electric Vehicle Chargers to Shared (Joint Use) Assets

Version 0

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1. Document Control

1.1 Version

Version	Date	Notes
0	25/11/2025	Initial release.

1.2 Abbreviations and Definitions

Terminology	Description
EVSE	Electric Vehicle Supply Equipment – also known as electric vehicle chargers and associated hardware
CPO	Charge Point Operator (typical proponent requesting connecting of public EVSE)
DNSP	Distribution Network Service Provider
FAA	Facilities Access Agreement - a master agreement, outlining commercial terms between Endeavour Energy and Customer
MSO	Model Standing Offer – standard terms and conditions for customers seeking to connect to Endeavour Energy’s low voltage network.
PTC	Permission to Connect
SNA	Site Nomination Agreement - a site-specific agreement between Endeavour Energy and Customer, outlining connection requirements and applicable fees
UGOH	Underground to overhead electrical connection attached to a pole.

1.3 Terminology

Terminology	Description
EVSE connections on shared (joint use) assets	EVSE that is supplied directly from the Endeavour Energy network and is attached to an Endeavour Energy asset (typically poles).
Direct EVSE connection applications	EVSE that is supplied directly from the Endeavour Energy network, although is not attached directly to Endeavour Energy assets.
Private EVSE installations	EVSE that is installed within a private electrical installation, typically supplied from a separate internal sub-circuit.

2. Document Scope

This guide **covers** requirements, processes, and systems for proponents to connect EVSE Endeavour Energy shared (joint use) assets. Specifically, this guide covers:

- Finding suitable locations
- Connections process
- Finding suitable assets for shared (joint use)
- Self-assessment tools
- EVSE data collection requirements
- Connection rates and lease fees
- Data and information requirements

This document **does not** cover connection information for:

- Direct EVSE connection applications; and
- Private EVSE installations.

Refer to Endeavour Energy's website for information on direct customer connections, and private EVSE installations.

3. Connection Requirements

All public EVSE electrical connection applications shall be made through the Endeavour Energy [connect online](#) portal. Refer to Section 4 and Appendix A for further information.

3.1 Standards Compliance

All EVSE connections to Endeavour Energy poles shall be compliant to the following Endeavour Energy standards:

- MCI 0009 - Attachment of Electric Vehicle Chargers to Endeavour Energy Poles

For EVSE equipment installed on Endeavour Energy's network and capable of bi-directional power flow, the connection shall be compliant to following Endeavour Energy standards:

- PDI 5000 Part A - Protection of Embedded Generation
- ADI 0002 - Customer Connection SCADA Requirements

3.2 Inverter Requirements

Endeavour Energy requires all new inverters to be compliant with AS4777.2020 as listed on the Clean Energy Council's [website](#). Installers must configure the Inverter Settings in accordance with the guidance on inverter settings for network compatibility.

3.3 Contestable Works

Contestable works will be required to design, construct and connect EVSE to Endeavour Energy shared assets. The latest [Connections Policy](#) outlines these requirements, including how ASP1, 2, and 3 works are completed. Refer to Section 9.1 for ASP definitions.

4. EVSE Shared Asset Connection Process

The connecting proponent shall submit commercial agreements and connection documentation via the Endeavour Energy Customer Network Solutions team. Each step is outline in the following table. Importantly, the FAA is the first formal engagement step within the connection process, enabling further steps to proceed.

Step	Customer (CPO, Typically)	Endeavour Energy
1) Initiation & Site Selection	1) Undertakes preliminary capacity and site suitability checks. Refer to nominated ASP if support is required. 2) Conducts pre-checks and shortlists potential sites.	Provides access to self-service tools.
2) FAA (one agreement)	Documents, reviews, and signs master FAA. <i>Note: departures from the standard agreement shall be reviewed by Endeavour Energy Legal and may incur delays.</i>	1) Issues FAA to the Customer. 2) Reviews and counter-signs master FAA, ensuring commercial terms are agreed between both parties.
3) SNA (site nomination agreement - site specific)	Submits SNA application via Connections Portal including required documentation, reviews, and signs SNA.	1) Issues draft SNA to customer for review and signoff 2) Reviews and counter-signs SNA

Step	Customer (CPO, Typically)	Endeavour Energy
		3) Records EVSE attributes and nameplate data
4) MSO Network Connection Application (site specific)	Submits a model standing offer (MSO) network connection of load application via Connections Portal.	1) Reviews connection of load application and issues PTC if network has capacity (or otherwise after contestable design and construction works are completed to upgrade network as required)
5) Installation & Energisation	1) Completes make-ready works (ASP2). 2) Installs EV infrastructure (ASP1). 3) Energises the connection (ASP2).	1) Conducts site inspection (if required). 2) Finalises and closes the application.
6) Post Installation Verification	Provides final construction drawings (works as executed) and photos of final installation.	1) Verification that the installation meets Endeavour Energy standards and connection requirements. 2) Updates internal system data.
7) Metering & Documentation	1) Requests NMI via Retailer; and 2) Submits “As Built” documentation.	1) Issues NMI. 2) Verifies “As Built” documentation. 3) Validates EVSE attributes and nameplate data.
8) Deemed Standard Connection Contract	Accepts terms and conditions governing the connection.	Provides ongoing connection services to the CPO from the Endeavour Energy network.

For further information on the general site selection process, refer to Appendix A.

5. Finding Suitable Assets for Shared (Joint Use)

Selective Endeavour Energy assets are suitable for shared (joint use). Typically, Endeavour Energy’s pole infrastructure is most suited for joint use, although this guide is agnostic to the asset type being considered for shared use.

For minimum standards on pole infrastructure requirements suitable for EV charger joint use, refer to MCI0009. For further guidance refer to Appendices D and E.

For guidance on other electrical infrastructure being considered for shared (joint use), enquiries can be made to Customer Network Solutions via [connect online](#) portal.

6. EVSE Joint Use Self-Assessment Tools

Endeavour Energy is committed to providing information in a timely manner to assist Proponents to locate suitable shared (joint use) assets for the connection of EVSE. Suitable assets for public EVSE installations can predominantly be determined through self-assessment tools. If further assistance is required, it is suggested that Proponents contact their nominated ASP to provide further guidance before lodging formal connection applications. Importantly, the nominated ASP will likely be involved in future installations, therefore early engagement is encouraged.

Self-assessment tools allow the following checks to be undertaken:

- **Preliminary Site Checks** – Satellite imagery tools
- **Preliminary Capacity Checks** – Using Endeavour Energy's Available Capacity of Distributed Substation Map
- **Asset Identification (poles)** – Using the ArcGIS lookup and live application.

Refer to Appendix C for further information.

7. Connection Rates and Lease Fees

Endeavour Energy's connection rates and lease fees are derived based on the following:

- **Connection fees** – regulated ancillary network service fees charged for processing phases within the connection process (refer to Appendix B for regulated pricing rates); and
- **Annual lease fees** – associated with the FAA, lease fees are a mechanism for Endeavour Energy to recover costs associated with hosting external hardware on Endeavour Energy's assets.

Annual lease fees can be requested as part of the FAA connection process. Endeavour Energy may consider short-term discounts to annual lease fees associated with proponents receiving government grant funding for EVSE shared asset connections.

8. Data and Information Requirements

8.1 EVSE Data Validation

The Proponent, the ASP, or their nominated installer shall provide Endeavour Energy with data validation information related to the EVSE installation. See Appendix F for further information required.

8.2 Works as Executed (WAE) Drawings

All designs submitted by the Customer must be reviewed and approved by Endeavour Energy prior to installation.

The Customer must provide Endeavour Energy with WAE drawings detailing all equipment installed on or within the Facility at the Agreed Site. These drawings must be submitted within one (1) month of the equipment being installed.

Any variations to the approved designs before installation shall be reviewed and approved by Endeavour Energy. Drawing variations are to be captured within the SNA.

The Customer must submit a proposed Typical Design for the EVSE installation to Endeavour Energy for approval, in accordance with the SNA. Each submission must be accompanied by the applicable Design Review Fee, payable for each assessment of a proposed Typical Design.

Following installation, the Customer must provide final electrical drawings, commonly referred to as “Works as Executed” (WAE) Drawings, accurately representing the commissioned state of the installed EVSE, in accordance with the Facilities Access Agreement (FAA).

9. Contacts and Support

9.1 Accredited Service Providers

As per Endeavour Energy’s [Connections Policy](#), ASP’s can be engaged for the design, construction and connection of EVSE on shared (joint use) assets:

- **Level 3 (ASP3) – Design:** Customer engages an ASP3 to produce a design to Endeavour Energy standards. Endeavour Energy will certify the design.
- **Level 1 (ASP1) - Construction:** Customer engages an ASP1 to construct the certified design. Endeavour Energy will inspect the works and arrange energisation of network assets.
- **Level 2 (ASP2) – Service Connection:** Customer engages an ASP2 to install service connection from network assets to premises (or load). EE will provide inspection services as required.

Learn more about ASPs on the [NSW Government ASP Information Page](#). For further information on connections visit our [Connect online](#) portal.

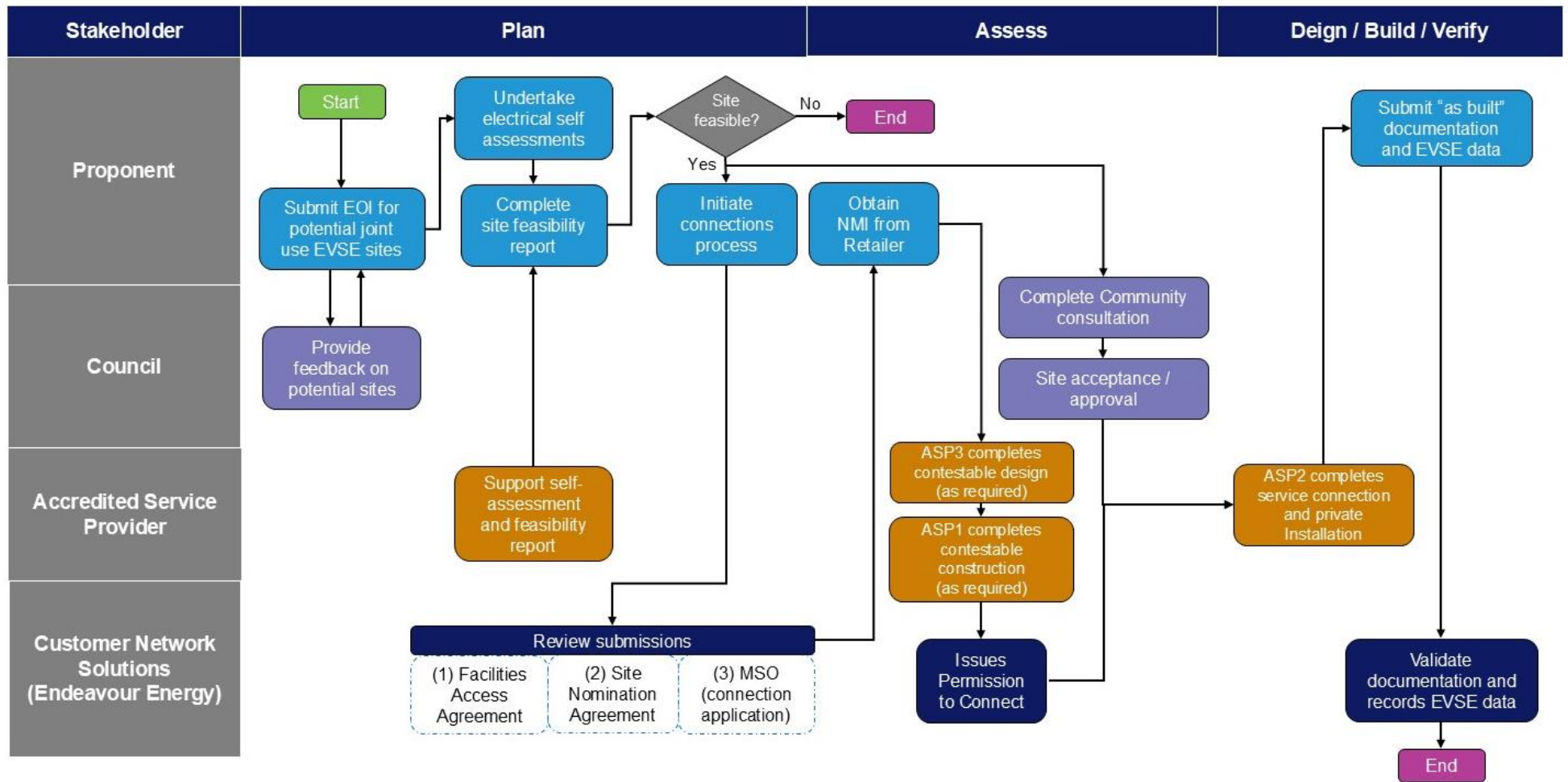
9.2 Connection Contacts

For general connection enquiries contact Endeavour Energy’s Customer team via 133 718.

9.3 Self-Assessment

For support and access to Endeavour Energy self-assessment tools, contact Mitch Adair via email address Mitchell.Adair@endeavourenergy.com.au.

Appendix A – General Site Selection Process



Appendix B – Regulated Pricing Rates

The following rates apply to connection application phases associated with applying to connect EVSE equipment to joint use assets or poles via the [connect online](#) portal.

Pricing rates are referenced from Endeavour Energy's Ancillary Network Services 2025-2026 and may be subject to change based on AER regulatory pricing changes and indexation.

Description	Qty	Price (Inc GST)	Category
Network Connection Application (Online portal)			
Preliminary checks for site feasibility (if required) ¹	Per site/hour	\$204.47	Regulated
Permission to Connect	Per site	\$33.44	Regulated
Access Application & Site Nomination Fees			
Hourly Engineering Rate (4 hours minimum assessment) ²	per hour	\$304.45	Regulated
Additional Charges (Variable)			
Contestable work (if required) ³	-	-	Regulated
Installation & Energisation (External)			
ASP2: Make-ready works	External		
ASP1: EV infrastructure installation	External		
ASP2: Energise connection	External		
Final Inspection & Closure			
Labor rate	per hour	\$224.59	Regulated
Ongoing Annual Lease Fee			
Annual Licence fee	Per site	provided on request ⁴	Unregulated (commercially sensitive)

¹ Preliminary checks can be requested from Endeavour Energy. Typically, these would be required if the proponent does not wish to carry out a self-assessment and chooses not to engage in an ASP for feasibility support.

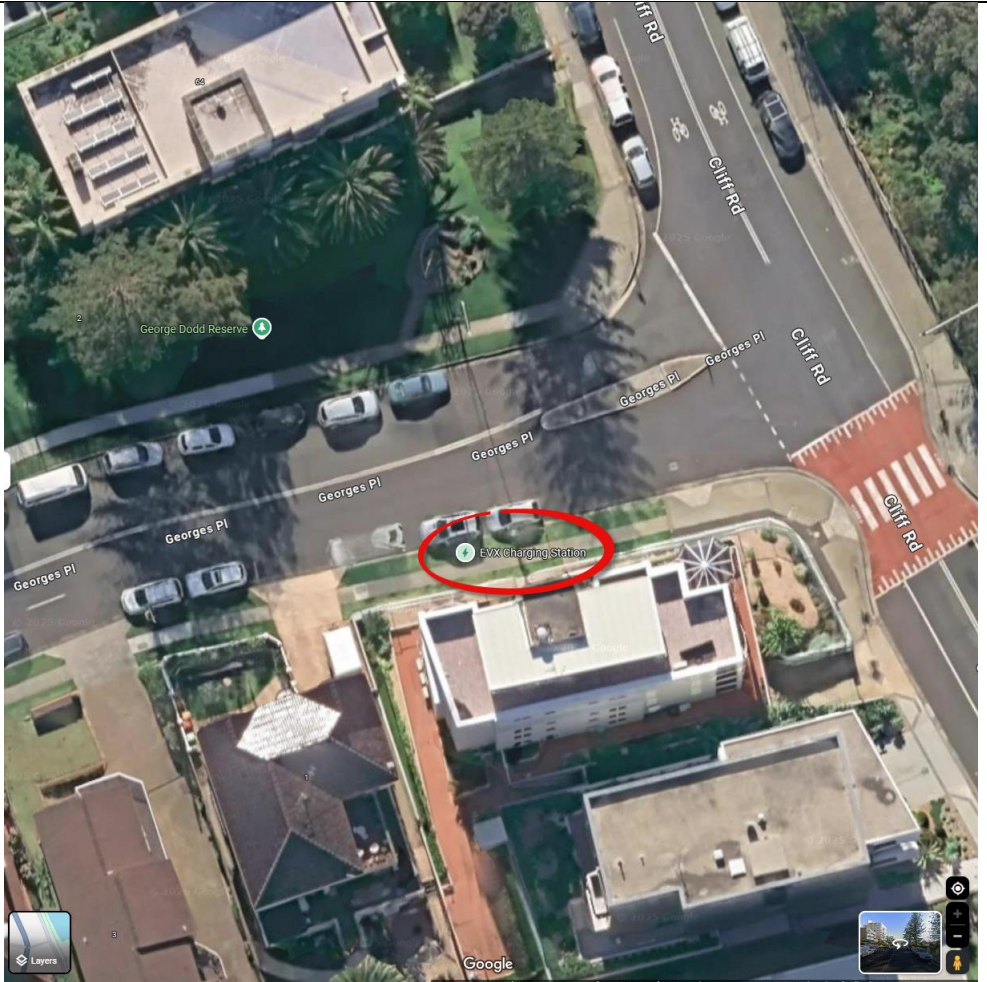
² Typically, an engineering assessment takes approximately four (4) hours to complete per site.

³ Contestable works are undertaken by an authorised ASP and may be necessary to upgrade shared electricity infrastructure prior to the connection of EVSE on Endeavour Energy's assets.


⁴ Endeavour Energy will consider adjusting Annual license fees associated with Government grant funding projects.

Appendix C – Self Assessment Tools

Preliminary Site Checks (Desktop Scoping)

Resource	Satellite imagery tools
How to get access?	Platforms are free, publicly available and open-source.
How to use it?	<p>Customers are free to use satellite imagery tools they have access to in order to identify suitable charging locations, see below example sourced from Google Maps.</p> <p><i>Note: The nominated ASP can assist in translating these requirements and can provide further advice.</i></p>
Example	

Assessing Preliminary Capacity

Resource	Endeavour Energy Available Capacity of Distributed Substation Map
Disclaimer	Data shown may not be current and marginal date errors may exist.
How to get access?	<p>An approved ASP enterprise login must be requested and provided via the following steps:</p> <ol style="list-style-type: none"> 1. Request access by emailing the Electric Futures (EV) Manager via Mitchell.adair@endeavourenergy.com.au and providing the following details: <ol style="list-style-type: none"> a. Email address b. Mobile <p>Endeavour Energy's IT team will process the request.</p> 2. Notification of approved access will be received via email. 3. Access the map via the URL link. <ol style="list-style-type: none"> a. Enter your login details provided. <div data-bbox="708 896 1069 1265">  <p>Sign in with your email address</p> <p>Email Address *</p> <input type="text" value="Email Address"/> <p>Password *</p> <input type="password" value="Password"/> <p>Forgot your password?</p> <p>Sign in</p> <p>Sign in with your Endeavour Energy account</p> </div>
How to use it?	<ol style="list-style-type: none"> 1. Enter the address within the search bar. <div data-bbox="737 1422 1088 1518"> <input type="text" value="Georges Place, Wollongong, New South Wales, 2500"/> <div> <div>Search result</div> <div>Georges Place, Wollongong, New South Wales, 2500</div> </div> </div> 2. Map layers, Legend and Filters and map layers can be applied to interpret preliminary electrical capacity, and to identify assets close to the Endeavour Energy service boundary. <div data-bbox="774 1713 1056 1841"> <div>Map Layers</div> <div> Distributed Substations EE Distribution Boundary Distribution District </div> </div>

Legend

Distributed Substations

Available Capacity (kVA)

> 700

350

< 0

EE Distribution Boundary

Distribution District

Filter

Available Capacity (kVA)

Available Capacity (kVA) is greater than

3. Select the surrounding distribution substation and view available capacity.

Example

Endeavour Energy Available Capacity of Distributed Substation

Georges Place, Wollongong, New South Wales,...

Search result

34314

Distribution Substation

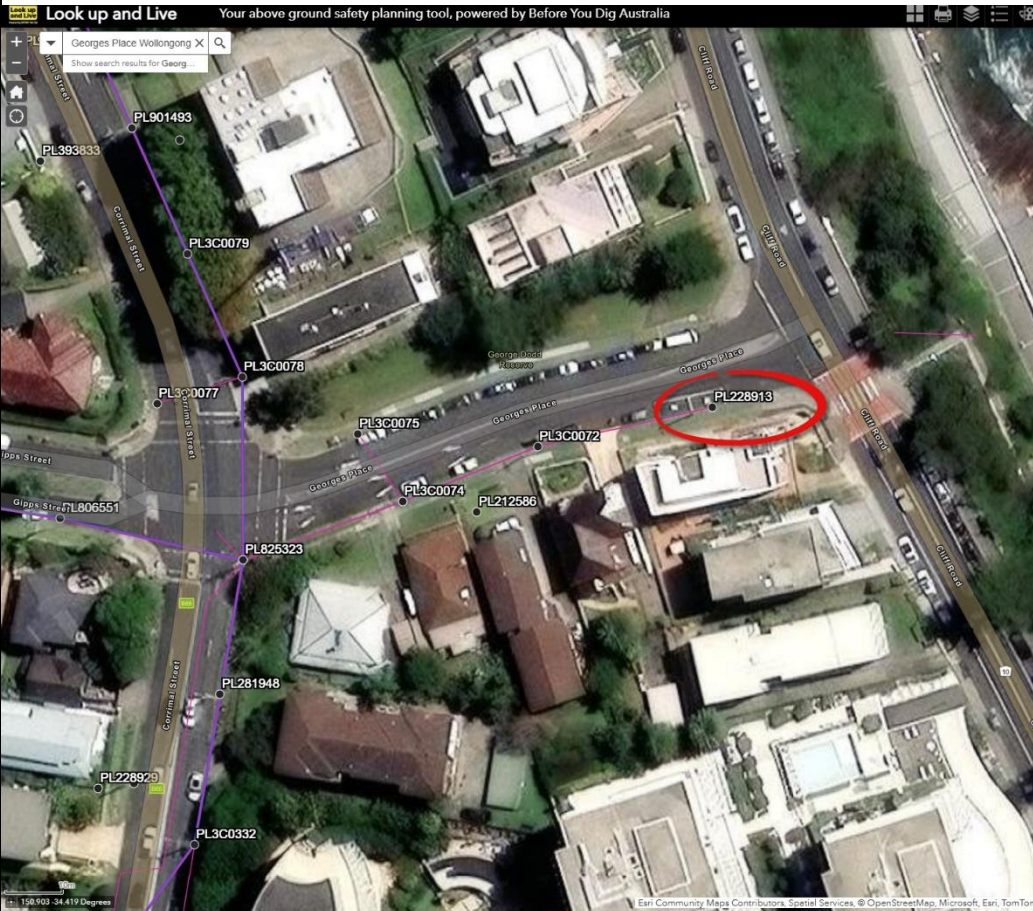
Available Capacity (kVA)

241.000000

This example shows distribution substation (34314) as having an available capacity of 241kVA, which is more than sufficient for a kerbside EV charger in the range of 7 - 22kW.

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Identifying Endeavour Energy Pole Assets

Resource	Look up and Live map
How to get access?	This is a free, publicly available open-source platform.
How to use it	Enter the street address and locate the corresponding asset number. Note: This tool will only identify overhead electrical assets.
Example	 <p>The screenshot shows the 'Look up and Live' map interface. The search bar at the top contains 'Georges Place Wollongong'. The map displays an aerial view of a residential area with various overhead electrical assets marked with labels. The asset PL228913 is highlighted with a red circle. The map includes a scale bar at the bottom left showing 150.903 - 34.419 Degrees.</p>

Appendix D – Electrical Infrastructure Criteria

The criteria for designing and installing electric vehicle chargers connected to Endeavour Energy poles is outlined in MCI 0009 – *Attachment of Electric Vehicle Chargers to Endeavour Energy Poles*. This standard can be found via Endeavour Energy’s [ASP portal](#).

The following table is considered additional guiding material to compliment MCI 0009 for proponents or ASP’s to determine if an existing Endeavour Energy pole is suitable for an EV charger installation.

The appointed ASP can provide further guidance in translating the electrical infrastructure criteria for site specific assessments.

Disclaimer: Although Endeavour Energy will consider the below criteria when undertaking detailed assessments, there may be additional factors influencing the connection assessment.

Category	Criteria	Requirement
Electrical Infrastructure Criteria		
Electrical Capacity	Upstream supplying distribution substation has adequate electrical capacity to provision the charger connection.	Mandatory (Shall)
EVSE Electrical Connections	<p>Low voltage conductors on the existing pole must be either:</p> <ol style="list-style-type: none"> 1) Suitable for connection (i.e. electrical connections are not permitted to existing customer services or street light circuits); or 2) Allow for conductor augmentation to supply the new connection. <p><i>Note: ASP can assist with determining existing conductor suitability for EVSE connections.</i></p>	Mandatory (Shall)
Pole Condition – Condemned	<p>Pole must not be condemned (shown by either condemned pole cross, or condemned pole marking tape)</p> <p><i>Notes:</i></p> <ol style="list-style-type: none"> 1) <i>Condemned poles are typically replaced within 6 months.</i> 2) <i>Condemned poles (have an “X” visible or “X” orange tape will be attached) and poles due for replacement.</i> 	Mandatory (Shall)
Pole Condition – Structural	Pole must be structurally sound as determined via visual inspection for preliminary checks, and confirmation of inspection records as per detailed connection assessment	Mandatory (Shall)
Pole Condition – Nailed pole	Avoid attaching EVSE to nailed poled (galvanised iron bracket attached to the base of the pole)	Recommendation (Should)

Category	Criteria	Requirement
	<i>Note: Nailed poles (steel reinforcement) are considered adequate, although may see early pole replacement</i>	
Avoided Poles	Avoid attaching EVSE to steel, concrete or stay poles.	Mandatory (Shall)
Operating Access – High Voltage switches	<p>Avoid attaching EVSE to poles hosting permanent high voltage operating switches and apparatus.</p> <p>Operating switches include⁵:</p> <ul style="list-style-type: none"> • Pole mounted substations • Pole mounted capacitors banks • HV air break and load break switches and underslung links • HV auto reclosers and sectionalisers, and similar devices • Tee-off poles and underground to overhead (UGOH) connections, excluding services 	Mandatory (Shall)
Avoided Earthing Risks	<p>Avoid attaching EVSE to poles hosting the following constructions:</p> <ul style="list-style-type: none"> • Transmission and sub-transmission poles with earth down-leads attached • High voltage underground-overhead (UGOH) terminations • Earth downleads from high voltage operating equipment or surge arrestors. E.g. ABS, LBS, Surge protection <p>Transmission and HV poles with an HV earth down lead/cable attached.</p>	Mandatory (Shall)
Pole Attachments	Poles with two or more electrical mains underground to overhead (UGOH) riser connections attached.	<p>Recommendation (Should)</p> <p>Design to assess dispensations.</p>

⁵ Referenced from MCI 0009, Section 4.6.7

Appendix E – Non-Electrical Infrastructure Guidance

The following non-electrical infrastructure is considered guidance only. The intention for this information is to provide Connection Proponents guidance on the optimum locations to install EVSE on shared Endeavour Energy assets.

Disclaimer: This guidance is subject to Council review and approval and may change from Council to Council.

Category	Criteria	Requirement
Non-Electrical Infrastructure Criteria (Council consultation required)		
Location	Install EVSE in close proximity to medium and high-density residential homes. e.g. apartments and terrace homes	Optional (May)
	Install EVSE within 300m range of schools, shops, restaurants, parks, sporting fields, transport, and public facilities	
	Install EVSE within 300m range of workplace, creative space, and retail	
Street Parking	The pole hosting EVSE is close to existing or proposed street parking space.	
Footpath Width	Minimum 1.2m footpath width where pole is located on or within footpath	
Streetlighting	Charger location provides adequate artificial light to cater for charging at night	

Appendix F – Endeavour Energy Database Inputs

The following inputs will be requested from the customer for Endeavour Energy to manage connected shared assets and represent this data geospatially within Endeavour Energy systems.

Field	Example
Site Address	Georges Place, Wollongong
LGA	Wollongong
NMI	43114390433
EE Asset Number	PL228913
Make	Xxxx
Model	Xxxx
Power Rating (kW)	22
Coordinates	-34.418652, 150.902144
Owner	Xxxx
Proposed Install Date	1/01/2023