

CEL.1

Critical Electricity Lines (CELs) and Substations

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CEL.1 Critical Electricity Lines (CELs) & Substations

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CEL.1.1 Descriptions and Expectations

NOTE: The following provisions apply district wide in addition to any other provisions in this Plan applicable to the same areas or [site](#).

Critical Electricity Lines (CEL's) and substations are the key components of the electricity network in the Whangārei District. To provide a resilient electricity network the use and development of CEL's and substations must be sustainable, secure and efficient. CEL's and substations can be vulnerable to inappropriate [subdivision](#) or [building](#) or [major structure](#) location to the extent that they can restrict [access](#) and affect the ability to maintain the CEL's (lines, cables and support [structures](#)). Trees planted too close to lines or cables can disrupt supply.

CEL's are, or have the potential to be, critical to the quality, reliability and security of electricity supply throughout the district or region. These lines contribute to the social and economic wellbeing and health and safety of the district or region and are lines that:

- Supply essential public services such as the [hospital](#), civil defence facilities or Lifeline [sites](#); or
- Supply large (1MW or more) industrial or commercial electricity consumers; or
- Supply 1000 or more consumers; or
- Are difficult to replace with an alternative electricity supply if they are compromised.

The locations of CEL's and designated substations are identified in the planning maps of the District Plan.

CEL.1.2 Permitted Activity Land Use

The following activities are permitted activities:

1. Within 10m of a CEL or the designation [boundary](#) of a substation:
 - i. Any [building](#) or [structure](#) that does not require [building](#) consent; or
 - ii. [Alteration](#) of any [building](#) or [major structure](#) (excluding [minor buildings](#)) that does not exceed outside the envelope or footprint of the existing [building](#) or [major structure](#) (excluding [minor buildings](#)); or
 - iii. [Earthworks](#), gardening or [cultivation](#) that:
 - a. Are not directly above an underground cable(s); and
 - b. Do not result in a reduction of existing ground clearance distances from overhead lines below the minimums prescribed in the New Zealand Code of Practice 34:2001 (NZECP 34:2001); and

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- c. Are in accordance with NZECP 34:2001.
- 2. Within 20m of a CEL or the designated boundary of a substation:
 - i. Planting of trees other than shelterbelts, plantation forestry or commercial horticultural operations.
- 3. Activities described in CEL.1.2.1 and CEL.1.2.2 that do not meet the requirements for permitted activities under CEL.1.2.1 and CEL.1.2.2 provided that:

EITHER

3.1 Prior to the commencement of any works:

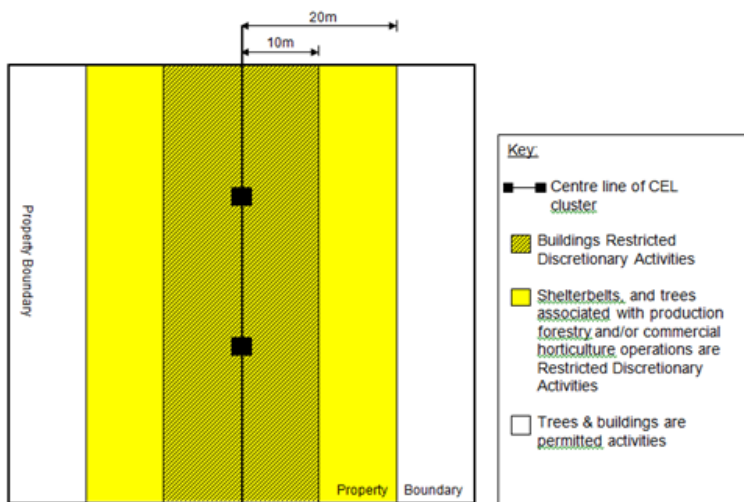
- i. Written notification has been provided to the Council; and
- ii. The proposed activity is being carried out in accordance with the Electricity Act 1992 and associated regulations (NZECP 34:2001, the Electricity (Hazards from Trees) Regulations 2003 (SR 2003/375), and the Electricity (Safety) Regulations 2010);

OR

- 3.2 The proposed activity is being carried out by a network utility operator or territorial authority in accordance with NZECP 34:2001.

Note:

- 1. Specified distances from CEL's are to be measured from a point directly below the centreline of the line or cluster of lines, as shown in Fig 1.



- 2. While only critical electricity lines are identified on the planning maps, works in close proximity to all electric lines can be dangerous. Compliance with NZECP 34:2001 as amended from time to time is mandatory for buildings, major structures (excluding minor buildings), earthworks, gardening or cultivation and when using machinery or equipment within close proximity to any electric lines.

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CEL.1.3 Restricted Discretionary Activities – Land Use

1. Activities described in CEL.1.2 that do not meet the requirements for permitted activities are restricted discretionary activities.

CEL.1.4 Restricted Discretionary Activities - Subdivision

1. Subdivision within 32m of the centre line of a CEL, or within 32m from the designation boundary of a substation shall be a restricted discretionary activity.

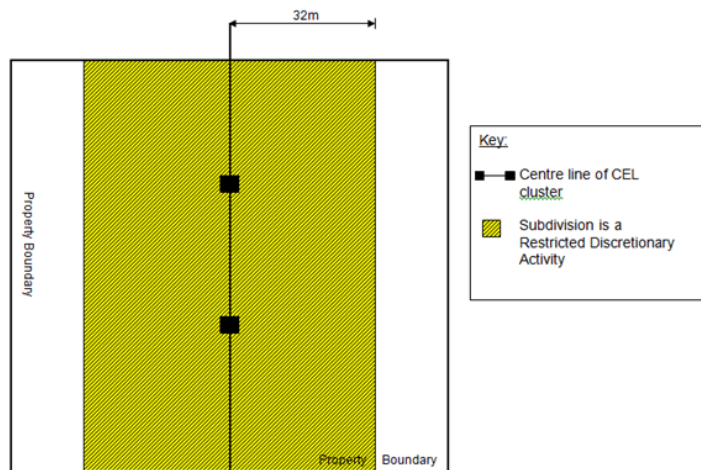


Figure 2: Classification of Subdivision in vicinity of CEL's

CEL.1.5 Assessment Criteria

1. When considering any restricted discretionary activity under CEL.1.3 and CEL.1.4, discretion will be restricted to:
 - i. the safe and efficient operation and maintenance of the electricity supply network, including:
 - a. The use, design and location of buildings and major structures (excluding minor buildings); and
 - b. The mature size, growth rate, location, and fall zone of any associated tree planting, including landscape planting and shelterbelts; and
 - c. Compliance with NZECP 34:2001; and
 - d. Effects on public health and safety; and
 - e. Effects on access to CEL's, designated substations and associated infrastructure for maintenance purposes.

CEL.1.6 Notification

For restricted discretionary activities under CEL.1.3 and CEL.1.4 the relevant network utility operator will be considered an affected party under s 95E of the Resource Management Act, 1991.

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