

**Before the Hearings Panel
At Waimakariri District Council**

Under the Resource Management Act 1991

In the matter of the Proposed Waimakariri District Plan

**Joint Witness Statement – Energy EI - Pūngao me te hanganga hapori - Energy
and Infrastructure (Integration)**

Date: 28 November 2023

INTRODUCTION:

- 1 This Joint Witness Statement (JWS) relates to expert conferencing on the Energy - Pūngao me te hanganga hāpori - Energy and Infrastructure (EI chapter).
- 2 The following participants were involved in this conferencing and authored this JWS:
 - (a) Chris Horne (Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd “The telecommunications companies”);
 - (b) Ainsley McLeod (Transpower);
 - (c) Melanie Foote (MainPower);
 - (d) Andrew Maclennan – EI s42A Reporting Officer - on behalf of Waimakariri District Council;
 - (e) Peter Wilson - Natural character of freshwater bodies chapter (NATC) s42A Reporting Officer & Coastal Environmental chapter (CE) s42A Reporting Officer (Waimakariri District Council); and
 - (f) Shelley Milosavljevic - Natural Features and Landscapes chapter (NFL) s42A Reporting Officer & Ecosystems and Indigenous Biodiversity chapter (ECO) s42A Reporting Officer (Waimakariri District Council).
- 3 A meeting between 9am and 12pm was held on 19 September 2023 at the Waimakariri District Council. All participants attended in person except for Chris Horne who attended via video call. Further discussions via email have occurred since. This JWS has resulted from the meeting and discussions.
- 4 In preparing this JWS, the experts have read and understand the Code of Conduct for Expert Witnesses as included in the Environment Court of New Zealand Practice Note 2023.

PURPOSE AND SCOPE OF CONFERENCING:

- 5 The conferencing was focused on matters identified in Minute 9, dated 4 September in relation to expert conferencing.
- 6 This JWS considers the following matters:
- a. How can the proposed rule ‘How to interpret and apply the rules’ be amended to provide better integration between the EI chapter and the other chapters in the PDP?
 - b. In addition, what consequential changes are required to policies, rules, standards and matters of discretion in the EI chapter and other chapters?
 - c. Does EI-P5 provide a pathway for EI activities when they propose to locate within “sensitive” environments? (note, the amendments proposed for NFL and CE are to be considered through this).
 - d. In undertaking the expert conferencing, the planners have considered the Supreme Court’s recent decision Port Otago Limited vs Environmental Defence Society Inc et al SC6/2022.

ACTIONS AGREED

MATTERS THAT THE EXPERTS AGREE ON:

EI – rule how to apply the rule and associated consequential amendments

- (a) *How can the proposed rule ‘How to interpret and apply the rules’ be amended to provide better integration between the EI chapter and the other chapters in the PDP?*
- (b) *In addition, what consequential changes are required to policies, rules, standards and matters of discretion in the EI chapter and other chapters?*

It was agreed by all experts that:

- 7 All of the relevant objectives and policies of the PDP will apply to EI activities and the proposed rule only needs to relate to the rules of the PDP.

8 The EI chapter should incorporate as many of the provisions as practical and reduce the number of cross references. Given this the following amendments to the EI chapter are supported, as shown in Appendix A:

- Amending 'How to interpret and apply the rules' rule as set out in the EI chapter below.
- That standards NFL-S1 and NFL-S2 be added to the activity standards of the following rules: EI-R7, EI-R12, EI-R13, EI-R14, EI-R19, EI-R19A, EI-R26, EI-R27, EI-R29, EI-R30, EI-R36, and EI-R40, and adding EI-MD1 as a matter of discretion to rules EI-R7, EI-R12, and EI-R14 where the rule did not already contain it, as set out in the EI chapter below. The exemptions within NFL-S1 and NFL-S2 relating to infrastructure sought by [62.50 and 62.51] be removed from NFL-S1 and NFL-S2 as they are not relevant to NFL chapter given these standards (including the infrastructure exemptions) have been integrated into the applicable EI rules.
- That the relevant EW standards be added to the activity standards of the following rules: EI-R2, EI-R4, EI-R5, EI-R7, EI-R9, EI-R10, EI-R11, EI-R12, EI-R17, EI-R19, EI-R19A, EI-R19B, EI-R20, EI-R24, EI-R26, EI-R27, EI-R28, EI-R29, EI-R30, EI-R32, EI-R34, EI-R36, EI-R40, EI-R41, EI-R45, EI-R46, EI-R47, EI-R49, EI-R52, and EI-R54 , as set out in the EI chapter below.
 - o Mr Horne, Mr Maclennan and Mr Wilson agreed to certain exceptions for poles associated with telecommunications not requiring compliance with certain general earthworks standards due to their limited footprints, as set out in Appendix A.
 - o Mr Horne and Mr Wilson agreed that for linear infrastructure, any thresholds should only apply to the open/unstabilised part of any works so that they could be undertaken progressively within thresholds.

- Mr Horne considered that some of the earthworks thresholds for linear infrastructure in Table EW-1 were still too restrictive or difficult to apply to roads, this is recorded within paragraph 35 below.
- Mr Horne also considered that some exclusions from standard EW-S2 that requires a 2m setback from sites in separate ownership are needed from a practical point of view, particularly within roads. This is recorded in paragraph 37 below.
- That an amendment to matter of discretion EI-MD1 is required within the EI chapter as follows:
 - 8. *Any relevant matter set out in NFL-MD1, [HH-MD1](#), [TREE-MD1](#), [SASM-MD1](#), [SASM-MD2](#), [SASM-MD3](#), [ECO-MD1](#), [NATC-MD4](#), [CE-MD1](#), and [EW-MD1 - EW-MD8](#).*

9 The following consequential amendments to the ECO, TREE, EW, and NFL chapters are supported, as shown in Appendix:

ECO Chapter

ECO-R4 - Irrigation infrastructure near any mapped SNA

- That ECO-R4 be retained within the ECO chapter and no reference made to it in the EI chapter as 'irrigation infrastructure' is in reference to on-site irrigation which is determined to not be infrastructure.

TREE Chapter

TREE-R3 - Overhead lines work or maintenance to any Notable Tree

- That TREE-R3 removed from TREE chapter, and merged with EI-R6.

EW Chapter

Earthworks rules amended as follows:

- EW-R1 recommended for deletion with its former conditions replicated in EI-R2.
- Table EW-1 advisory note amended with addition of the following wording:
for network utilities the thresholds apply to the area and volume of work being undertaken at any one time at a particular location such that, where practicable, progressive closure and stabilisation of works could be adopted to maintain the activity within the thresholds¹;

NFL Chapter

'Other potentially relevant District Plan provisions' section

- Amend to remove reference to NFL standards applying to energy and infrastructure activities, and instead note that the standards do not apply (along with the rules).

Standards section

- Add to the start of the 'Standards' section that the standards do not apply to energy and infrastructure activities.

NFL-R8 - Centre pivot and travelling irrigators

- That NFL-R8 be retained within the NFL chapter and no reference made to it in the EI chapter as centre pivot and travelling irrigators were determined to not be infrastructure. This aligns with the recommendation in the initial NFL Reply Report (11 August 2023) to remove reference to this rule applying to energy and infrastructure activities.

NFL-R9 - Formation of a new road

¹ Wording obtained from Auckland Unitary Plan, E26.5.3

- That NFL-R9 be moved to the TRAN chapter as TRAN-R24. This aligns with the recommendation in the initial NFL Reply Report (11 August 2023) to remove reference to this rule applying to energy and infrastructure activities.

Pathway for EI activities (NFL)

(a) *Does EI-P5 provide a pathway for EI activities when they propose to locate within “sensitive” environments? (note, the amendments proposed for NFL and CE are to be considered through this)*

10 It was agreed by all experts that the s42A version of, EI-P5 provides pathways three pathways for EI activities:

(a) EI-P5(1) enables the ongoing operation, maintenance, repair, renewal, removal and minor upgrade of existing energy and infrastructure;

(b) EI-P5(2) provides for new energy and infrastructure, or more than minor upgrades to existing energy and infrastructure while avoiding, remedying or mitigating adverse effects on a number of values.

(c) EI-P5(3) and (4) provide a pathway for regionally significant infrastructure activities when they propose to locate within sensitive environments² outside the coastal environment.

11 It was agreed by all experts that EI-P5(3) and EI-P5(4) should be read together with the protective policies within the ‘sensitive environment’ chapters.

12 However, in the context of NFL-P1, NFL-P3, and NFL-P4 it was agreed by all experts that EI-P5(3) and EI-P5(4) provide effects tests that will achieve the objectives of the NFL chapter and the requirements of sections 6(b) and 7(c) of the RMA, and therefore a carve out from NFL-P1, NFL-P3, and NFL-P4 was appropriate.

² ONF’s, ONL’s, SAL’s, ONC’s, VHNC’s, HNC’s, natural character of scheduled freshwater bodies setbacks, SNAs, buildings, other structures and settings with heritage values, and archaeological sites, and SASM.

13 It was agreed by all experts that the EI-P5 carve out for Regionally Significant Infrastructure activities should apply to NFL-P1, NFL-P3 and NFL-P4 in order to provide a greater level of clarity and certainty for Regionally Significant Infrastructure, while giving effect to s6(b) of the RMA.

14 The initial NFL Reply Report (11 August 2023) recommended the relief sought by Chorus, Spark and Vodafone via [62.47, 62.48, 62.49] be accepted with NFL-P1, NFL-P3, and NFL-P4 amended to include the following additional clause:

“in regard to infrastructure, the matters outlined above shall be subject to a consideration of the extent to which the infrastructure may be appropriate under EI-P5.”

(a) It was agreed by all experts that this recommended clause does not resolve the integration issue between the EI chapter and the NFL chapter, as EI-P5 doesn't include effects tests that ensure that the development of *all* infrastructure will achieve the objectives of the 'sensitive environment' chapters, or section 6 of the RMA. Thus, it was agreed the carve out should only apply to regionally significant infrastructure to ensure that the effects tests for non-regionally significant infrastructure are still applied within the NFL chapter.

(b) It was also agreed that having the carve out within an additional clause would mean regionally significant infrastructure would be still subject to the NFL protective policy's other clauses and would therefore not provide a clear and certain carve out for regionally significant infrastructure.

15 It was therefore agreed that the carve out clause recommended via the NFL Reply Report should be deleted and an alternative recommended instead.

16 It was agreed by all experts that the carve out for infrastructure in NFL-P1, NFL-P3, and NFL-P4 needs to:

- (a) cross-reference to EI-P5 as the relevant provision for regionally significant infrastructure;
- (b) include reference to regionally significant infrastructure to ensure only clause (3) and (4) of EI-P5 apply; and
- (c) be located in the initial sentence of the NFL protective policies, instead of within a clause, as this ensures that the effects are fully managed by EI-P5, and not subject to the NFL protective policy's clauses.

17 It was agreed by all experts that this carve out amendment could be achieved via the scope of Transpower's submission [195.88 - NFL-P1, 195.89 - NFL-P3, 195.90 - NFL-P4], as shown below:

18 Amend NFL-P1 (via 195.88):

“Recognise the values of the outstanding natural features identified in NFL-APP1 and protect them from the adverse effects of inappropriate activities and development, except where the effects of regionally significant infrastructure are managed by EI-P5, by:.....”

19 Amend NFL-P3 (via 195.89):

“Recognise the values of the outstanding natural landscapes identified in NFL-APP1 and protect them from the adverse effects of inappropriate activities and development, except where the effects of regionally significant infrastructure are managed by EI-P5, by:.....”

20 Amend NFL-P4 (via 195.90):

“Recognise the values of the significant amenity landscapes identified in NFL-APP1 and maintain them except where the effects of regionally significant infrastructure are managed by EI-P5, by:.....”

21 The full versions of NFL-P1, NFL-P3, and NFL-P4 are provided in Appendix A and an updated full version of the NFL chapter provisions, along with an updated full set of recommendations on submissions, will be provided via the Final NFL Reply Report.

S32AA assessment

- 22 The experts consider the recommended amendments to NFL-P1, NFL-P3, and NFL-P4 will ensure the effects of regionally significant infrastructure are fully managed by EI-P5 and not subject to the NFL protective policy's clauses which will provide a greater level of clarity and certainty for Regionally Significant Infrastructure, while giving effect to NFL-O1 and NFL-O2 (NFL 11 August 2023 Reply Report version³) and s6(b) of the RMA. The experts consider the recommended amendments will improve the efficiency and effectiveness of the provisions by providing clearer guidance for decision-making in relation to regionally significant infrastructure within Outstanding Natural Landscapes or Features. The recommended amendments are therefore the most appropriate way of achieving the purpose of the RMA.

Pathway for EI activities (CE)

- 23 In relation to whether the CE chapter provides pathways for EI activities, all experts retain the view that the alternative pathway provided for regionally significant infrastructure within EI-P5 should not apply in the coastal environment. Instead, all experts consider it is the role of CE-P7 to ensure that the requirements of Policy 13 of the New Zealand Coastal Policy Statement 2010 are being achieved while providing for the enabling aspects of the NPSET and the NESTTF within the CE chapter. Given this, it is recommended that an amendment is made to CE-P7, as follows:

"CE-P7 Infrastructure in the coastal environment

Notwithstanding CE-P2, recognise and provide for the maintenance, upgrade and development of regionally significant infrastructure that

1 ³https://www.waimakariri.govt.nz/_data/assets/pdf_file/0020/14146/4/RIGHT-OF-REPLY-NATURAL-FEATURES-LANDSCAPES-NFL-11-AUGUST-2023.PDF

has a functional need or operational need to be located in the coastal environment, ~~where this does not create adverse effects to~~ on the identified coastal natural character areas are minimised.”

- 24 In recommending the changes above, all experts considered the differences between the broad category of ‘infrastructure’ activities, which may not have enabling directives and regionally significant infrastructure which does have higher order support, sometimes at both the Canterbury Regional Policy Statement and national policy statement level – for instance, the National Grid and telecommunications facilities.
- 25 Mr Wilson also considered that the notified version of CE-P7, which contained an ‘avoid’ test in “*does not create adverse effects*”, is no longer appropriate as the avoidance of effects is not required under such a situation, instead, it is the minimising of effects.

S32AA assessment

- 26 All experts consider this amendment better reflects existing national policy direction that both enables infrastructure provision while also ensuring environmental protection in the coastal environment. In these cases, the enabling and protective provisions are considered together, rather than the usual coastal environment scenario of the protective provisions having greater weight.
- 27 The amendments to CE-P7 ensure that equal considerations in assessments between enabling infrastructure provisions and protective environmental provisions where the relevant higher order document is more enabling of that type of infrastructure within the coastal environment occur. This is currently likely to be electricity transmission, some telecommunications facilities (arising from their respective NPSs), and regionally significant infrastructure as specified in the Canterbury Regional Policy Statement and will be a contextual assessment based on the type of proposal.
- 28 The option of placing the integrating provisions in the EI chapter, where the integrating provisions for the NFL and other chapters sit, was

considered, however, given the specific nuances of the New Zealand Coastal Policy Statement 2010 and the planning environment for the coastal environment, Mr Wilson considered that it was better to retain the integration provisions within the coastal environment chapter for the purposes of consistency with the higher order documents.

Port Otago Decision

- 29 As requested by Minute 9, the experts considered the Supreme Court’s recent Port Otago Limited vs Environmental Defence Society Inc et al SC6/2022 decision.
- 30 Mr Maclennan, Ms Milosavljevic, and Mr Wilson (WDC experts) consider that the Supreme Court’s recent Port Otago decision has limited relevance to the matters considered within this JWS. The Port Otago decision considered the relationship between Policy 9 (‘Port Policy’) and Policies 11, 13, 15 and 16 (‘Avoidance Policies’) in the New Zealand Coastal Policy Statement 2010 and how these policies should be reflected in lower order planning documents.
- 31 The Port Otago decision upheld the finding in the King Salmon⁴ decision that the Avoidance Policies have a directive character. The term “avoid” has its ordinary meaning of “not allow” or “prevent the occurrence of”. The Port Otago decision also found that the Port Policy was directive as it contained the verbs “recognise” and “requires” together within the policy.
- 32 Given the context of the Port Otago case, which contains an existing port within an Outstanding Natural Landscape, Natural Character Area, Ecological Significant Area, near a surf break of national significance, the Court found that there was the potential for the Ports Policy to conflict with the Avoidance Policies.

⁴ *Environmental Defence Society Inc v The New Zealand King Salmon Company Limited & Ors* - [2014] NZSC 38

33 The WDC experts consider that the Port Otago Decision is contextual on the nature of the directive policies themselves, and the setting in which they are applied to. Given this, we have considered the nature of the policies within both the EI chapter and the CE chapter, and we do not consider the provisions of the Proposed Plan need to be amended in response to the Port Otago decision.

34 Mr Horne did not participate in or formed a view on the matters covered in in paras 26 to 33 as the Telecommunication Companies have no submission scope on the CE provisions.

MATTERS THAT THE EXPERTS DISAGREE ON:

35 Mr Horne considered that some of the earthwork thresholds for linear infrastructure in Table EW-1 were still too restrictive, particularly when applied in the road corridor, and within roads are difficult to apply where there are volume standards applied to site areas. He noted that the general permitted threshold for infrastructure in the Auckland Unitary Plan outside of specified overlays was 2500m² and 2500m³. He seeks the following addition to Table EW-1:

- That an exclusion is provided from the standards in Table EW 1 for earthworks associated with linear infrastructure works within roads, provided any open trenches do not exceed 1m in width;

Or, in the alternative,

- that a standard minimum volume for earthworks for linear infrastructure within roads (excluding the ONF, ONL and SNAs referred to within Table EW1) is standardised at 1000m³ consistent with the zones in the third row of the table.

36 Mr Wilson considers the maximum volume thresholds set out in Table EW-1 are appropriate.

37 Mr Horne considers that utility trenches and earthworks for poles and cabinets should be expect from the 2m setback from property

boundaries in EW-S2 given they are localised works and for practical reasons, particularly in roads, may need to be sited within 2m of property boundaries. This is relevant to EI-R10 (new and upgrading of underground infrastructure) and EI-R11 Relocation of above ground infrastructure.

Date: 28 November 2023

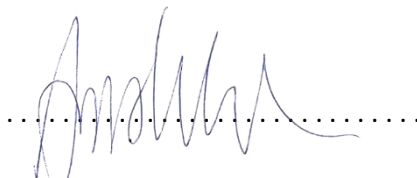
Signatories



Andrew MacLennan – Consultant Planner for Waimakariri District Council



.....
Melanie Foote – Consultant Planner for Mainpower New Zealand Limited



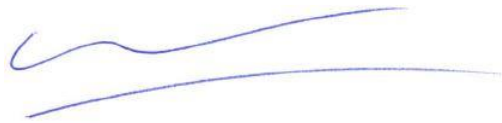
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Ainsley McLeod – Consultant Planner for Transpower New Zealand Ltd



Peter Wilson – Senior Policy Planner (Waimakariri District Council)



Shelley Milosavljevic – Senior Policy Planner (Waimakariri District Council)



Chris Horne – Consultant Planner for Telecommunications Companies

APPENDIX A – Recommended amendments to EI Chapter

In order to distinguish between the recommendations made in the s42A reports, the recommendations that arise from Initial Reply Reports, and the recommendations that arise from this JWS, and the amendments recommended by the final reply report, the following format is used:

Appearance	Explanation
Black text	Text as notified.
Red text with <u>underlining</u> or strikethrough	Amendments recommended in section 42A report or reply report.
Blue text with <u>underlining</u> or strikethrough	Additional amendments recommended by the Initial Reply Report.
Purple text with <u>underlining</u> or strikethrough	Additional amendments experts are recommending as part of a Joint Witness Statement.
Green text with <u>underlining</u> or strikethrough	Amendments recommended by the Final Reply Report.

Given the extensive changes to the EI chapter as a result of the integration with the NFL and EW chapters, the complete EI chapter, including the officers' amendments recommended within the final reply report, has been included within Appendix A to the JWS.

El - Pūngao me te hanganga hapori - Energy and Infrastructure

Introduction

The term 'infrastructure' is defined in section 2 of the RMA. The RPS defines the terms 'critical infrastructure', 'strategic infrastructure', and 'regionally significant infrastructure'. There is considerable overlap in the types of infrastructure covered by these terms. Infrastructure may be provided by network utilities, or by entities other than network utilities, including the private provision of and connection to infrastructure. Critical, strategic, and regionally significant infrastructure and network utilities are recognised through provisions within this chapter which acknowledge their important function and service to the community.¹

Some types of infrastructure are addressed within other parts of the District Plan, as follows:

- District wide provisions relating to transport are contained in the Transport Chapter, which also forms part of Part 2 – District Wide Matters - Energy, Infrastructure and Transport;
- Rangiora Airfield is provided for by designations, which contain conditions, and the District wide Transport and Noise chapters also contain provisions relating to the Airfield;
- The existing Rangiora hospital and Oxford hospital and ancillary health related activities on those hospital sites are provided for under the Special Purpose Zone (Hospital);
- An emergency service facility, or a health related activity located outside of the existing Rangiora and Kaiapoi² hospital sites, are subject to the provisions of the relevant zone in which they are located.

This chapter contains provisions for other types of infrastructure, and is consistent with Part 2 - District Wide Matters- Strategic Directions, NESETA, NESF and the NESTF. It also gives effect to the matters in Part 2 - District Wide Matters - Urban Form and Development, NPSET, NZCPS, NPSFM and the NPSREG.

Other potentially relevant District Plan provisions

~~As well as the provisions in this chapter, other District Plan chapters that contain provisions that may also be relevant to Energy and Infrastructure include:~~

- ~~• Transport: the Transport rules apply to all activities and activities are subject to compliance with all relevant Transport rules. The application of the transport provisions is discussed further in the Transport rules.~~
- ~~• Natural Hazards: this chapter contains provisions that may be relevant to managing the risk to energy and infrastructure from natural hazards.~~
- ~~• Historic Heritage: this chapter contains provisions relevant to protecting places with heritage values, such as historic heritage buildings or other structures or their heritage settings.~~
- ~~• Notable Trees: this chapter contains provisions relevant to matters such as protecting the root protection area or the trimming or removal of notable trees.~~

¹ CIAL [254.25]

² Clause 16(2)

- ~~Sites and Areas of Significance to Māori: this chapter contains provisions relevant to protecting SASM from adverse effects.~~
- ~~Ecosystems and Indigenous Biodiversity: this chapter contains provisions that control SNAs and the clearance of areas of indigenous vegetation across the District.~~
- ~~Natural Character of Freshwater Bodies: this chapter contains provisions regarding activities within natural character of scheduled freshwater bodies setbacks.~~
- ~~Natural Features and Landscapes: this chapter contains provisions for activities within ONL, ONF, and SAL.~~
- ~~Subdivision: this chapter contains provisions that may be relevant to subdivision for energy and infrastructure.~~
- ~~Earthworks: this chapter contains provisions that may be relevant to earthworks for energy and infrastructure such as volume, depth and location.~~
- ~~Any other District wide matter that may affect or relate to the site.~~
- ~~Zones: the zone chapters contain provisions about what activities are anticipated to occur in the zones.³~~

Objectives	
EI-O1	<p>Provision of energy and infrastructure Across the District:</p> <ol style="list-style-type: none"> 1. efficient, effective, resilient, safe and sustainable energy and infrastructure, including critical infrastructure, strategic infrastructure and regionally significant infrastructure, is developed and maintained to benefit the social, economic, cultural and environmental well-being of the District, region and nation,⁴ including in response to future functional, or operational needs and increased sustainability⁵ needs such as increased sustainability, and changing techniques and technology,⁶ 2. there is increased renewable energy for national, regional and local use; and 3. there is greater renewable electricity generation, including small scale or community scale renewable electricity generation, with generation surplus able to be supplied to the electricity distribution network.
EI-O2	<p>Adverse effects of energy and infrastructure Adverse effects of energy and infrastructure on the qualities and characteristics of surrounding environments and community well-being are avoided, remedied or mitigated managed⁷, while taking into account their operational and or functional needs⁸.</p>
EI-O3	<p>Effects of other activities and development on energy and infrastructure The safe, efficient and effective operation, maintenance, repair, renewal,⁹ upgrading and development of energy and infrastructure is not constrained or compromised by incompatible¹⁰ activities and development, including by reverse sensitivity effects.</p>

³ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6],

⁴ Transpower New Zealand [195.24]

⁵ MainPower [249.52]

⁶ Transpower New Zealand [195.24]

⁷ ECan [316.17]

⁸ MainPower [249.53], CIAL [254.27] and Waka Kotahi [275.12]

⁹ Federated Farmers [414.68]

¹⁰ MainPower [249.54], CIAL [254.28]

Policies	
EI-P1	<p>Recognising the benefits of, and providing for, energy and infrastructure Recognise the local, regional or national benefits of energy and infrastructure through:</p> <ol style="list-style-type: none"> 1. enabling the operation, maintenance, repair, renewal, removal and minor upgrade of energy and infrastructure; 2. providing for more than minor or significant upgrades to existing, and the development of new, energy and infrastructure; 3. providing for energy and infrastructure that serves as a lifeline utility during an emergency, including critical infrastructure, strategic infrastructure and regionally significant infrastructure; 4. providing for the effective, safe, secure and efficient electricity transmission, including on the National Grid, electricity distribution, and supply of fuel and energy; 5. providing for the effective, reliable and future-proofed communication networks and services; 6. providing for the effective, resilient, efficient and safe water supply, wastewater system and stormwater infrastructure; and community scale irrigation/stockwater; 7. enabling energy and infrastructure that has a particular focus on the utilisation of renewable resources and which contribute to sustainable use of natural and physical resources; 8. enabling feasibility investigations into renewable energy including for renewable electricity generation; 9. providing for renewable energy and renewable electricity generation including small scale or community scale renewable electricity generation; and 10. the provision of an adequate supply of water for firefighting in accordance with SNZ PAS 4509:2008 New Zealand Fire Service Firefighting Water Supplies Code of Practice.
EI-P2	<p>Availability, provision and adequacy of, and connection to, energy and infrastructure Across the District:</p> <ol style="list-style-type: none"> 1. to benefit the social, economic, cultural and environmental well-being of the District: <ol style="list-style-type: none"> a. ensure land use and development is coordinated with, and to the extent considered reasonably practicable, connected to and adequately serviced by energy and infrastructure, if available, including electricity, water supply, wastewater system and stormwater infrastructure; and b. ensure that connectivity to communications infrastructure can be achieved; and 2. where a public reticulated water supply or wastewater system is not available, adequate on site systems shall be installed consistent with maintaining public health and avoiding or mitigating adverse effects on the environment, while discouraging small scale stand alone systems.
EI-P3	<p>New technologies and techniques Provide flexibility for energy and infrastructure to adopt new technologies and techniques that:</p> <ol style="list-style-type: none"> 1. improve access to, and efficient use of, networks and services; 2. allow for the re-use of redundant services and structures; 3. increase resilience, safety or reliability of networks and services; and

	4. result in environmental benefits and enhancements.
EI-P4	<p>Environmentally sustainable outcomes <u>Encourage</u> Seek more¹¹ more environmentally sustainable outcomes associated with energy and infrastructure, <u>where possible</u>¹², including by promoting¹³:</p> <ol style="list-style-type: none"> 1. the use of green infrastructure; 2. the increased utilisation of renewable resources; 3. the use of low impact approaches (such as in site, route or structure selection or construction methodology); 4. using low carbon materials in construction; 5. changing the way activities that generate high greenhouse gas emissions are delivered; 6. offsetting greenhouse gas emissions through activities such as planting carbon sequestering trees <u>excluding wilding or pest species</u>¹⁴, or the establishment and restoration of wetlands; <u>and</u> 7. energy efficiency and conservation practices, including use of energy efficient design, renewable energy and renewable electricity generation; <u>and</u> 8. building design with a Homestar™ certification rating of at least 6 for residential buildings, or a Green Star rating of at least 4 for commercial buildings, to assist in reducing energy consumption and greenhouse gas emissions.¹⁵
EI-P5	<p>Manage adverse effects of energy and infrastructure Manage adverse effects of energy and infrastructure, including by the following:</p> <ol style="list-style-type: none"> 1. enabling or providing¹⁶ <u>for</u> the ongoing operation, maintenance, repair, <u>renewal</u>¹⁷, removal and minor upgrade of existing energy and infrastructure; 2. <u>providing for new energy and infrastructure, or more than minor major upgrades to existing energy and infrastructure while</u>¹⁸ avoiding, remedying or mitigating adverse effects of more than minor upgrades to existing energy and infrastructure, including effects¹⁹ on: <ol style="list-style-type: none"> a. natural and physical resources; b. amenity values; c. <u>an existing</u>²⁰ sensitive activity; d. the safe and efficient operation of other infrastructure; e. the health, safety and well-being of people and communities; <p><u>3A. using major upgrades to existing energy and infrastructure as an opportunity to reduce existing adverse effects where appropriate to do so;</u>²¹</p>

¹¹ Kainga Ora [325.25]

¹² Kainga Ora [325.25]

¹³ Kainga Ora [325.25]

¹⁴ ECAN [316.20]

¹⁵ Kainga Ora [325.25]

¹⁶ Transpower [195.29]

¹⁷ Federated Farmers [414.68] – Consequential amendment – EI-03

¹⁸ Transpower [195.29]

¹⁹ Transpower [195.29]

²⁰ Transpower [195.29]

²¹ Transpower [195.29]

	<p>3. outside of the coastal environment, regionally significant new energy²² and infrastructure, or major upgrades to existing regionally significant energy and²³ infrastructure, should, to the extent considered²⁴ practicable, ensure that the route or site is located outside of the following types of sensitive environments to protect such environments from significant adverse effects, taking into account the constraints imposed by the functional need or operational need of the energy and infrastructure:</p> <ol style="list-style-type: none"> ONF, ONL and SAL; areas of ONC, VHNC and HNC, and natural character of scheduled freshwater bodies setbacks; SNAs; buildings, other structures and settings with heritage values, and archaeological sites; SASM; places adjoining the coastal marine area;²⁵ <p>4. where regionally significant energy and²⁶ infrastructure, or major upgrades to existing regionally significant energy and²⁷ infrastructure, cannot locate outside of the sensitive environments in (3) above, the energy and infrastructure should, to the extent considered practicable²⁸, ensure that the proposed route, site, structure and construction method demonstrate the following, taking into account the constraints imposed by the functional need or operational need of the energy and infrastructure:</p> <ol style="list-style-type: none"> regionally significant energy and²⁹ infrastructure will be located in more compromised parts of the areas in (3) above where that reduces adverse effects on the values of those areas; techniques (such as structure selection or construction methodology) will be used to mitigate adverse effects on the areas in (3) above; adverse effects on the areas in (3) above will be remedied or mitigated; <p>5. consider biodiversity offset, where there is a strong likelihood that the offset will be achieved in perpetuity,³⁰ for residual adverse effects on indigenous biodiversity that cannot otherwise be avoided, remedied or mitigated;</p> <p>6. avoiding or mitigating³¹ potential significant adverse effects of the generation of radio frequency fields and electric and magnetic fields by requiring compliance with recognised standards or guidelines; and</p> <p>7. promoting the undergrounding of new energy and infrastructure where it is:</p> <ol style="list-style-type: none"> technically feasible; economically viable; justified by the extent of adverse visual effects if not placed underground.
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²² Forest and Bird [192.39]

²³ Forest and Bird [192.39]

²⁴ Transpower [195.29]

²⁵ Forest and Bird [192.39]

²⁶ Forest and Bird [192.39]

²⁷ Forest and Bird [192.39]

²⁸ Transpower [195.29]

²⁹ Forest and Bird [192.39]

³⁰ ECan [316.21]

³¹ Transpower [195.29]

EI-P6	<p>Effects of other activities and development on energy and infrastructure</p> <p>Manage adverse effects, <u>including reverse sensitivity effects</u>,³² of <u>incompatible</u>³³ other activities and development on energy and infrastructure, including by the following:</p> <ol style="list-style-type: none"> 1. ensuring such effects do not compromise or constrain access to or the safe, effective and efficient operation, maintenance, repair, upgrading and development of energy and infrastructure; and 2. with regards to the National Grid and³⁴ major electricity distribution lines, in addition to (1) above, by ensuring that: <ol style="list-style-type: none"> a. safe buffer distances are identified in the District Plan for managing the effects of incompatible activities and development on the National Grid and³⁵ major electricity distribution lines including support structures; b. sensitive activity and development that may compromise the National Grid and³⁶ major electricity distribution lines, <u>including those associated with intensive farming activities indoor primary production</u>,³⁷ are excluded from establishing within identified safe buffer distances <u>to the extent reasonably possible</u>;³⁸ c. changes to existing activities within identified safe buffer distances do not further constrain or restrict the operation, maintenance, repair <u>replacement</u>,³⁹ upgrading and development of the National Grid and⁴⁰ major electricity distribution lines; and <p><u>2A. with regards to the National Grid, in addition to (1) above:</u></p> <ol style="list-style-type: none"> <u>a. mapping the National Grid and identifying buffer corridors in the District Plan within which sensitive activities, including the expansion of an existing sensitive activity, are not provided for; and</u> <u>b. to the extent reasonably possible, managing other activities to avoid reverse sensitivity effects, on the National Grid and</u>⁴¹ 3. ensuring buildings, other structures and vegetation do not obstruct or otherwise adversely affect radiocommunication pathways, either individually or cumulatively, including for radiocommunication associated with critical infrastructure, strategic infrastructure, regionally significant infrastructure, a lifeline utility, and for emergency purposes and day to day operations of an emergency service.
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Rules

How to interpret and apply the rules

1. The rules All of the provisions in the following District-wide chapters apply in addition to Energy and Infrastructure:
 - a. ~~SD - Strategic Directions~~
 - b. TRAN - Transport;
 - c. HS - Hazardous substances;

³² Christchurch International Airport Ltd [254.31]

³³ Christchurch International Airport Ltd [254.31]

³⁴ Transpower NZ Ltd [195.30]

³⁵ Transpower NZ Ltd [195.30]

³⁶ Transpower NZ Ltd [195.30]

³⁷ Horticulture NZ [295.76], Federated Farmers [414.71], Transpower NZ Ltd [195.30]

³⁸ Horticulture NZ [295.76]

³⁹ Mainpower NZ Ltd [249.60]

⁴⁰ Transpower NZ Ltd [195.30]

⁴¹ Transpower NZ Ltd [195.30]

- d. ~~CL - Contaminated land;~~
 - e. ~~NH - Natural hazards;~~
 - f. ~~SUB - Subdivision;~~
 - g. ~~EW - Earthworks;~~
 - h. ~~LIGHT - Light;~~
 - i. ~~NOISE - Noise; and~~
 - j. ~~SIGNS - Signs;~~
2. ~~The objectives, policies, associated planning map layers, schedules, tables and appendices (excluding rules) in the following District-wide chapters apply to Energy and Infrastructure where relevant:~~
- a. ~~HH - Historic Heritage;~~
 - b. ~~TREE~~
 - c. ~~Notable Trees;~~
 - d. ~~SASM - Sites and Areas of Significance to Maori;~~
 - e. ~~ECO - Ecosystems and Indigenous Biodiversity;~~
 - f. ~~NATC - Natural Character of Freshwater Bodies;~~
 - k. ~~NFL - Natural Features and Landscapes, and~~
 - l. ~~CE - Coastal environment.~~
- 3.2. ~~The rules in all other chapters not the District-wide chapters listed in (21) above do not apply to Energy and Infrastructure, instead the rules in the Energy and Infrastructure chapter apply, except in the following circumstances:~~
- g. ~~Relocation of any historic heritage listed in HH-SCHED2 must comply with HH-R4, HH-R6 and HH-R8;~~
 - h. ~~Demolition of historic heritage items listed in HH-SCHED2 must comply with HH-R7 and HH-R9; and~~
 - i. ~~Removal of any Notable Tree listed in TREE-SCHED1 must comply with TREE- R6 and TREE-R7; and~~
 - j. ~~Where specified in the Energy and Infrastructure rules.~~
 - k. ~~New irrigation infrastructure must comply with ECO-R4 and NFL-R8;~~
 - l. ~~New buildings and structures within a SAL, ONF and ONF must comply with NFL-S1 and NFL-S2; and~~
 - m. ~~Planting of vegetation within a SNA must comply with ECO-R3;~~
4. ~~The rules in other District-wide chapters not listed in (1) or (2) above do not apply to Energy and Infrastructure; and~~
5. ~~The rules in the zone chapters generally do not apply to Energy and Infrastructure, except in the following circumstances:~~
- a. ~~The Special Purpose Zone (Hospital) rules apply to activities on the Rangiora and Oxford hospital sites;~~
 - b. ~~Emergency service facilities, or any health-related activity outside the Rangiora and Oxford hospital sites, are subject to the rules of the zone in which they are to be located;~~
 - c. ~~The Energy and Infrastructure rules apply in the Special Purpose Zone (Kainga Nohoanga) (see SPZ(KN)-APP1 and SPZ(KN)-APP2);~~
 - d. ~~Habitable buildings are subject to the rules of the zone in which they are to be located.~~
3. ~~For completeness, all objectives, policies, associated planning map layers, schedules, and appendices apply to Energy and Infrastructure.~~⁴²

Activity Rules - General (applicable to all energy and infrastructure)

EI-R1	Maintenance or removal of existing infrastructure and ancillary vehicle access tracks
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⁴² Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

	<i>This rule does not apply to widening or extension of existing vehicle access tracks provided for under EI-R2.</i>	
All Zones	Activity status: PER	Activity status when compliance not achieved: N/A
EI-R2	Construction of new, or widening or extension of existing, vehicle access tracks ancillary to infrastructure	
	<i>This rule applies to the construction of new vehicle access tracks in circumstances other than as provided for under EI-R23.</i>	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> the activity shall comply with Earthworks standards EW-S1 to EW-S7, as well as any Earthworks standards in any relevant overlay.⁴³ <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7</u>⁴⁴ 	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: <u>EI-MD1 - Historic heritage, cultural values and the natural environment</u> ⁴⁵ <u>EI-MD3 - Operational considerations</u> ⁴⁶ EI-MD9 - Construction of new, or widening or extension of existing, vehicle access tracks ancillary to infrastructure
EI-R3	Ancillary infrastructure equipment	
All Zones	Activity status: PER	Activity status when compliance not achieved: N/A
EI-R4	Customer connection between a building, other structure, site, and infrastructure	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> a new customer connection shall not involve alteration to a <u>historic heritage</u> building or other <u>structure listed in HH-SCHED2 with heritage values.</u>⁴⁷ a new customer connection shall not involve earthworks in 	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: EI-MD1 - Historic heritage and the natural environment <u>EI-MD3 - Operational considerations</u> ⁵¹

⁴³ Transpower [195.32]

⁴⁴ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁴⁵ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁴⁶ Chorus, Spark and Vodafone [62.66]

⁴⁷ Clause 16(2)

⁵¹ Chorus, Spark and Vodafone [62.66]

the root protection area of a notable tree, except where the works:

- a. involve installation at least 1m below existing ground level;
 - and
 - b. are limited to hand digging, trenchless means or air spade, hydro vac or directional drilling methods;
 - and
 - c. have an entry point either:
 - i. located outside of the root protection area;
 - or
 - ii. with a maximum area of 1m².
3. a new customer connection shall not involve earthworks in the following areas (except where earthworks are located in a road corridor or accessway, or where connections are an extension of existing infrastructure adjoining a site, or where connections are undertaken by trenchless means):
- a. SNAs;
 - b. ~~places adjoining the coastal marine~~

	<p style="text-align: center;"><u>area the coastal environment⁴⁸.</u></p> <p>4. a new customer connection shall not involve above ground infrastructure in the following areas (except where located in a road corridor):</p> <ul style="list-style-type: none"> a. ONF, ONL and SAL; b. areas of ONC, VHNC and HNC; and c. places adjoining the coastal marine <u>area the coastal environment⁴⁹.</u> <p>5. above ground infrastructure for a new customer connection shall comply with all other relevant or applicable Energy and Infrastructure rules; <u>and</u></p> <p>6. <u>the activity shall comply with Earthworks standards EW-S1, EW-S5, EW-S6, and EW-S7.</u>⁵⁰</p>	
<p>Advisory Note</p> <ul style="list-style-type: none"> • Check also EI-R45 Requirement to connect to water supply, wastewater system or stormwater infrastructure. 		
<p>EI-R5 Meteorological and environmental sensing and monitoring equipment, and navigational aid</p>		
<p>All Zones</p>	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. new meteorological and environmental sensing and monitoring equipment, and navigational aid, with a height in relation to infrastructure greater than 1.8m or an area greater than 6m² shall 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: EI-MD1 - Historic heritage and the natural environment</p>

⁴⁸ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

⁴⁹ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

⁵⁰ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

	<p>not be located in the following areas (except where located in a road corridor):</p> <ul style="list-style-type: none"> a. SNAs; b. ONF, ONL and SAL; and c. areas of ONC, VHNC and HNC; <u>and</u>. <p>2. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7.</u>⁵²</p>	
EI-R6	Trimming or removal of trees <u>including notable trees</u>⁵³ and vegetation	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. the trimming or removal of trees and vegetation is by an operator of an overhead line or other infrastructure or by their nominated contractor or agent, where required for the safe operation or maintenance of overhead lines or other infrastructure. 2. <u>where the trimming is undertaken on any Notable Tree the works or maintenance is undertaken by, or supervised by, a suitably qualified and experienced arborist.</u>⁵⁴ 	Activity status when compliance not achieved: N/A

⁵² Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁵³ Consequential amendment Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

⁵⁴ Consequential amendment Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

	<p>Advisory Notes</p> <ul style="list-style-type: none"> • This rule applies to situations such as protecting the security⁵⁵, safe operation or maintenance of infrastructure⁵⁶ overhead lines or removing an associated potential fire electrical risk or risk to the public⁵⁷, or maintaining sight lines from an intersection. • A check should be made to determine whether any requirements may apply under the following: <ul style="list-style-type: none"> ○ Electricity (Hazards from Trees) Regulations 2003; ○ Telecommunications Act 2001; and ○ NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances. • The Removal of any Notable Tree listed in TREE-SCHED1 must comply with TREE- R6 and TREE-R7⁵⁸ 	
<p>EI-R7</p>	<p>Freestanding pole in the road corridor</p> <p><i>This rule does not apply to poles provided for in the activities in the following rules:</i></p> <ul style="list-style-type: none"> - EI-R12 Replacement of a pole or tower - EI-R24 New overhead transmission lines and electricity distribution lines and supporting poles and towers - EI-R26 New freestanding radiocommunication and telecommunication facilities, antennas, and supporting poles and towers - EI-R28 New overhead telecommunication lines and supporting poles - EI-R29 New amateur radio configurations - EI-R41 New small scale free standing wind turbine(s) for small scale or community scale renewable electricity generation - EI-R44 New large scale wind turbine(s) for large scale renewable electricity generation⁵⁹ 	
<p>All Zones</p>	<p>Activity status: PER</p> <p>Where:</p> <ol style="list-style-type: none"> 1. the maximum height in relation to infrastructure of a new freestanding pole in the road corridor shall comply with the following height in relation to infrastructure limits when adjoining: <ol style="list-style-type: none"> a. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), Special Purpose Zone (Pines Beach and Kairaki Regeneration): 18m; and 	<p>Activity status when compliance not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment⁶² EI-MD3 – Operational considerations⁶³ EI-MD14 - Extent of effects

⁵⁵ Transpower [195.33]

⁵⁶ KiwiRail [373.26]

⁵⁷ Transpower [195.33]

⁵⁸ Consequential amendment Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

⁵⁹ Clause 16(2) amendment

⁶² Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

⁶³ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

	<p>b. all other zones: 25m²;</p> <p>2. <u>the activity is located within an ONL, ONF, or SAL, infrastructure poles and attached equipment within road reserve shall be finished in materials that will naturally weather to a non-reflective colour; and</u>⁶⁰</p> <p>3. <u>the activity shall comply with Earthworks standards EW-S6 and EW-S7.</u>⁶¹</p>	
EI-R8	Installation of new infrastructure within an existing building	
All Zones	<p>Activity status: PER Where:</p> <p>1. new installations shall not involve alteration to a <u>historic heritage building listed in HH-SCHED2 with heritage values.</u>⁶⁴</p>	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: EI-MD1 - Historic heritage and the natural environment <u>EI-MD3 - Operational considerations</u>⁶⁵</p>
EI-R9	Use of temporary infrastructure	
	<i>This rule does not apply to new permanent emergency or back-up electricity generation provided for in EI-R36; or installation, maintenance, repair, upgrading or removal of new infrastructure for assessing a site or technology for suitability for renewable electricity generation provided for in EI-R39.</i>	
All Zones	<p>Activity status: PER Where:</p> <p>1. the temporary infrastructure shall operate for a maximum of 12 months from the commencement of the works or activity, or until the works or activity or a stage of the works or activity for which the temporary infrastructure is required is complete, whichever is greater, at</p>	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: <u>EI-MD1 - Historic heritage, cultural values and the natural environment</u>⁶⁷ <u>EI-MD3 - Operational considerations</u>⁶⁸ EI-MD4 - Health and safety EI-MD14 - Extent of effects</p>

⁶⁰ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]



⁶¹ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁶⁴ Clause 16(2)

⁶⁵ Chorus, Spark and Vodafone [62.66]

⁶⁷ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁶⁸ Chorus, Spark and Vodafone [62.66]

	<p>which time the temporary infrastructure shall be removed from the site; <u>and</u></p> <p>2. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, and EW-S6, EW-S7.</u>⁶⁶</p>	
EI-R10	Installation of new infrastructure, or upgrading of existing infrastructure, underground	
	<i>This rule does not apply to underground infrastructure established under EI-R45 or EI-R46.</i>	
All Zones	<p>Activity status: PER Where:</p> <p>1. new installations shall not be located in the following areas (except where located in a road corridor or accessway, or are an extension of existing infrastructure adjoining a site, or where installations are by trenchless means, or are as specified otherwise below)⁶⁹:</p> <p>a. the root protection area of a notable tree, except where the installation:</p> <ul style="list-style-type: none">  i. is at least 1m below ground level;  and ii. is limited to hand digging, trenchless means or air spade, hydro 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design (<u>clause 4 only</u>)⁷⁴ EI-MD3 - Operational considerations

⁶⁶ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁶⁹ Chorus, Spark and Vodafone [62.30]

⁷⁴ Transpower NZ Ltd [195.35]

	<p>vac or directional drilling methods;</p> <p>and</p> <p>iii. has an entry point either:</p> <p>a. located outside of the root protection area;</p> <p>or</p> <p>b. with a maximum area of less than 1m²;</p> <p>b. SNAs;</p> <p>c. places adjoining the coastal marine area <u>the coastal environment</u>⁷⁰;</p> <p>and</p> <p>2. <u>upgrades of existing underground infrastructure</u>⁷¹ (except where located in a road corridor or accessway, <u>or are an extension of existing infrastructure adjoining a site, or where installations are by trenchless means</u>), upgrades of existing underground infrastructure⁷²</p> <p>underground infrastructure shall not increase the area occupied by the infrastructure, or realign or relocate the infrastructure, so that it</p>	
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⁷⁰ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

⁷¹ Chorus, Spark and Vodafone [62.30]

⁷² Chorus, Spark and Vodafone [62.30]

	<p>further encroaches into the areas listed in (1) above;</p> <p>3. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S5, EW-S6, EW-S7; and</u></p> <p>4. <u>for pole foundations, the activity shall comply with Earthworks standards EW-S6, and EW-S7.</u> ⁷³</p>	
	<p>Advisory Note</p> <ul style="list-style-type: none"> See also EI-R11 Relocation of <u>above ground</u>⁷⁵ infrastructure; EI-R32 Installation of gas distribution pipeline and fuel systems (including LPG); and EI-R33 An increase in the carrying or operating capacity, efficiency or security of existing gas distribution pipeline and fuel systems. 	
EI-R11	Relocation of <u>above ground</u>⁷⁶ infrastructure	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> the relocation shall be within 5m of the existing alignment or location; <u>the relocation shall not be located in the root protection area of a notable tree (except where located in a road corridor);</u> <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, EW-S7; and</u> <u>For pole foundations, the activity shall comply with Earthworks standards EW-S6, and EW-S7.</u> ⁷⁷ For relocation of infrastructure within roads, EI-R19 applies instead. 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <p><u>EI-MD1 - Historic heritage, cultural values and the natural environment</u>⁷⁸</p> <p><u>EI-MD3 - Operational considerations</u>⁷⁹</p> <p>EI-MD10 - Relocation of existing infrastructure</p>

⁷³ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁷⁵ Chorus, Spark and Vodafone [62.31]

⁷⁶ Chorus, Spark and Vodafone [62.31]

⁷⁷ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁷⁸ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

⁷⁹ Chorus, Spark and Vodafone [62.66]

	Exemption	
	<ul style="list-style-type: none"> This rule does not apply to transport infrastructure. 	
	Advisory Note	
	<ul style="list-style-type: none"> See also EI-R10 (2) Installation of new infrastructure, or upgrading of existing infrastructure, underground.⁸⁰ 	
EI-R12	Replacement of a pole or tower	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> a pole shall not be replaced with a tower; a replacement pole or tower shall not exceed the height in relation to infrastructure of the replaced pole or tower <u>by more than 15%⁸¹ of the height in relation to infrastructure of the pole or tower on the date the District Plan was made operative.⁸²</u> the diameter or width of a replacement pole shall not exceed twice that of the replaced pole at its widest point; a single pole may be replaced with a pi-pole <u>(or H-pole)</u>⁸³ for safety or structural reasons, <u>and the width of the pi-pole (or H-pole) must not exceed three times that of the replaced single pole at its widest point including the cross arm</u>⁸⁴; the footprint of a replaced 	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment⁸⁹ EI-MD3 - Operational considerations⁹⁰ EI-MD14 - Extent of effects

⁸⁰ Chorus, Spark and Vodafone [62.31]

⁸¹ Transpower NZ Ltd [195.37]

⁸² Transpower NZ Ltd [195.37]

⁸³ Mainpower NZ Ltd [249.72]

⁸⁴ Mainpower NZ Ltd [249.72]

⁸⁹ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

⁹⁰ Chorus, Spark and Vodafone [62.66]

	<p><u>replacement</u>⁸⁵ tower shall not exceed the width of the <u>replaced</u>⁸⁶ tower by more than 25%; and</p> <p>6. a replaced pole or tower shall be removed once its replacement is in place and is operational⁸⁷;</p> <p>7. <u>the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes, has a reflectivity value of a maximum of:</u></p> <ul style="list-style-type: none"> a. <u>60% for greyness groups A or B;</u> b. <u>40% for greyness group.</u> c. <u>B or C; and</u> <p>8. <u>notwithstanding (7) above, infrastructure poles and attached equipment within road reserve shall be finished in materials that will naturally weather to a non-reflective colour: and</u>⁸⁷</p> <p>9. <u>the activity shall comply with Earthworks standards EW-S6, and EW-S7.</u>⁸⁸</p>	
EI-R13	Addition to a pole or tower	

⁸⁵ Mainpower NZ Ltd [249.72]

⁸⁶ Mainpower NZ Ltd [249.72]

⁸⁷ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

⁸⁸ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

<p>All Zones</p>	<p>Activity status: PER Where:</p> <p><u>1A. equipment added to a pole or tower shall not exceed a volume of 2m³ one of either a. or b. below:</u></p> <p><u>a. a maximum volume of 2m³; or⁹¹</u></p> <p><u>1.b. the combined diameter or width of the existing pole or tower plus the addition of equipment⁹² (at its widest point) shall not exceed twice that of the existing pole or tower (at its widest point); and</u></p> <p><u>2. equipment added to a pole or tower shall not exceed⁹³ the height of the existing pole or tower combined height in relation to infrastructure of the existing pole or tower plus the addition shall not exceed that of the existing pole or tower.⁹⁴</u></p> <p><u>3. equipment added to a pole or tower located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes,</u></p>	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <p><u>EI-MD1 - Historic heritage and the natural environment⁹⁶</u></p> <p><u>EI-MD2 – Amenity values, location and design⁹⁷</u></p> <p><u>EI-MD3 - Operational considerations⁹⁸</u></p> <p><u>EI-MD14 – Extent of effects⁹⁹</u></p>
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⁹¹ Mainpower [249.74]

⁹² Mainpower NZ Ltd [249.74]

⁹³ Mainpower NZ Ltd [249.74]

⁹⁴ Mainpower NZ Ltd [249.74]

⁹⁶ Mainpower [249.97]

⁹⁷ Mainpower NZ Ltd [249.74]

⁹⁸ Chorus, Spark and Vodafone [62.66]

⁹⁹ Mainpower NZ Ltd [249.74]

	<p><u>has a reflectivity value of a maximum of:</u></p> <ol style="list-style-type: none"> a. <u>60% for greyness groups A or B;</u> b. <u>40% for greyness group.</u> c. <u>B or C; and</u> <p>4. <u>notwithstanding (2) above, equipment added to a pole or tower within road reserve shall be finished in materials that will naturally weather to a non-reflective colour.</u>⁹⁵</p>	
EI-R14	Replacement of an antenna	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. a replacement antenna shall not increase the diameter of an existing dish antenna or the width of an existing panel antenna by more than 20%; 2. <u>the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes, has a reflectivity value of a maximum of:</u> 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: <u>EI-MD1 - Historic heritage and the natural environment</u>¹⁰¹ <u>EI-MD3 - Operational considerations</u>¹⁰² EI-MD14 - Extent of effects</p>

⁹⁵ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁰¹ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁰² Chorus, Spark and Vodafone [62.66]

	<p>a. <u>60% for greyness groups A or B;</u></p> <p>b. <u>40% for greyness group; and</u></p> <p>3. <u>notwithstanding (2) above, antennas attached to infrastructure poles within road reserve shall be finished in materials that will naturally weather to a non-reflective colour.</u>¹⁰⁰</p>	
EI-R15	Replacement of an infrastructure cabinet, <u>electricity cabinet and kiosk</u>¹⁰³, or infrastructure building	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> the replacement shall not increase the footprint <u>or height in relation to infrastructure</u>¹⁰⁴ of the existing infrastructure cabinet, <u>electricity cabinet and kiosk</u>¹⁰⁵, or infrastructure building by more than 30%; and outside a road corridor, where an existing infrastructure building is located in or adjoining Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), the replacement infrastructure building shall comply with the building internal 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <p><u>EI-MD1 - Historic heritage and the natural environment</u>¹⁰⁹</p> <p><u>EI-MD2 – Amenity values, location and design</u>¹¹⁰</p> <p><u>EI-MD3 - Operational considerations</u>¹¹¹</p> <p><u>EI-MD14 – Extent of effects</u>¹¹²</p>

¹⁰⁰ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁰³ Mainpower NZ Ltd [249.75]

¹⁰⁴ Mainpower NZ Ltd [249.75]

¹⁰⁵ Mainpower NZ Ltd [249.75]

¹⁰⁹ Mainpower [249.97]

¹¹⁰ Mainpower NZ Ltd [249.75]

¹¹¹ Chorus, Spark and Vodafone [62.66]

¹¹² Mainpower NZ Ltd [249.75]

	<p>boundary setback and where specified the height in relation to boundary for the zone or adjoining zone in accordance with Appendix APP3.¹⁰⁶</p> <p><u>2A the replacement infrastructure cabinet, electricity cabinet or infrastructure building is within 5m of the location of the original structure.</u>¹⁰⁷</p> <p>3. <u>The replacement shall not be located in the root protection area of a notable tree (except where located in a road corridor); and</u></p> <p>4. <u>the activity shall comply with Earthworks standards EW-S1, EW-S6, and EW-S7.</u>¹⁰⁸</p>	
EI-R16 Upgrading above-ground lines, ducts, cables and pipes		
All Zones	<p>Activity status: PER</p> <p>Where:</p> <ol style="list-style-type: none"> 1. upgrading is by: <ol style="list-style-type: none"> a. the addition of <u>adding</u>¹¹³ wires, cables, circuits or conductors; b. the re-conductoring of the line with higher capacity conductors; c. the re-sagging of conductors; d. the addition of <u>installing</u>¹¹⁴ longer or more efficient insulators; 	<p>Activity status when compliance not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p> <p><u>EI-MD3 - Operational considerations</u>¹¹⁸</p> <p>EI-MD14 - Extent of effects</p>

¹⁰⁶ Mainpower NZ Ltd [249.75]

¹⁰⁷ Mainpower [249.75]

¹⁰⁸ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

¹¹³ Mainpower NZ Ltd [249.76]

¹¹⁴ Mainpower NZ Ltd [249.76]

¹¹⁸ Chorus, Spark and Vodafone [62.66]

	<ul style="list-style-type: none"> e. the addition of <u>adding</u>¹¹⁵ of cross arms; f. the bundling of lines (in the absence of cross arms); g. the addition of <u>adding</u>¹¹⁶ earth wires (which may contain telecommunication lines, earthpeaks and lightning rods); or h. the replacement <u>of any of the above</u>.¹¹⁷ <ol style="list-style-type: none"> 2. the diameter of a replacement conductor or line shall not exceed the diameter of the existing conductor or line, or 50mm, whichever is greater; 3. additional conductors or lines: <ul style="list-style-type: none"> a. shall not increase the number of conductors or lines by more than 100%; and b. shall each have a maximum diameter of 50mm; 4. additional cross arms shall not exceed the length of an existing cross arm by more than 100%, up to a maximum of 4m; 5. the bundling of lines (in the absence of cross arms) shall not exceed 100mm in total; and 6. the diameter of a replacement above-ground duct or pipe shall not exceed the diameter of the existing 	
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¹¹⁵ Mainpower NZ Ltd [249.76]

¹¹⁶ Mainpower NZ Ltd [249.76]

¹¹⁷ Mainpower NZ Ltd [249.76]


	above-ground duct or pipe by more than 300mm.	
EI-R17	Installation of new mid-span poles	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. the installation of new mid-span poles is to address safety clearances for overhead lines; and 2. the maximum number of additional mid-span poles shall be 2.; and 3. <u>the activity shall comply with Earthworks standards EW-S6, and EW-S7.</u>¹¹⁹ 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: <u>EI-MD1 - Historic heritage and the natural environment</u>¹²⁰ <u>EI-MD3 - Operational considerations</u>¹²¹ EI-MD14 - Extent of effects</p>
EI-R18	Attachment of pipes, cables, conductors or lines, to bridges, tunnels or culverts	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. pipes, cables, conductors or lines: <ol style="list-style-type: none"> a. shall be attached to the underside of the bridge, or incorporated within the bridge, tunnel or culvert structure, or within an existing attached conduit, duct or pipe; b. the maximum diameter of any new conduit, duct or pipe shall be 300mm; and c. any new conduits, ducts or pipes in (b) above shall be in a cluster of no more than two conduits, ducts or pipes in total;¹²² and 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational consideration</p>


¹¹⁹ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6], Transpower [195.23], Mainpower [249.1]

¹²⁰ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹²¹ Chorus, Spark and Vodafone [62.66]

¹²² Chorus, Spark and Vodafone [62.32]

	<p>d. shall not be attached to a bridge, tunnel or culvert with heritage values.</p> 	
EI-R19	New infrastructure cabinet	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 5. a new infrastructure cabinet is located underground; or 6. a new above-ground infrastructure cabinet shall not exceed the following: <ol style="list-style-type: none"> a. when located in the road corridor adjoining: <ol style="list-style-type: none"> i. Residential Zones: <ol style="list-style-type: none"> 1. maximum height in relation to infrastructure: 1.8m; and 2. maximum floor area (excluding plinths or foundations): 1.4m²; ii. all other zones: <ol style="list-style-type: none"> 1. maximum height in relation to infrastructure: 2m; and 2. maximum floor area (excluding plinths or foundations): 2m²; b. when located outside the road corridor in: <ol style="list-style-type: none"> i. Residential Zones: <ol style="list-style-type: none"> 1. maximum height in relation to 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational consideration

	<p>infrastructure: 2m; and</p> <ol style="list-style-type: none"> 2. maximum floor area (excluding plinths or foundations): 2.5m²; ii. all other zones: <ol style="list-style-type: none"> 1. maximum height in relation to infrastructure: 2.5m; and 2. maximum floor area (excluding plinths or foundations): 5m²; <p>and</p> <ol style="list-style-type: none"> 7. a new infrastructure cabinet shall not be located in the following areas (except where located in a road corridor): <ol style="list-style-type: none"> a. the root protection area of a notable tree <u>(except where located in a road corridor)</u>;  and b. SNAs_i; 8. <u>the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes, has a reflectivity value of a maximum of:</u> <ol style="list-style-type: none"> a. <u>60% for greyness groups A or B;</u> 	
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	<p>b. <u>40% for greyness group C: and</u>¹²³</p> <p><u>9. the activity shall comply with Earthworks standards EW-S1, EW-S6, and EW-S7.</u>¹²⁴</p>	
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EI-R19A <u>New electricity cabinets and kiosks</u> ¹²⁵		
<u>All Zones</u>	<p><u>Activity status: PER</u></p> <p><u>Where:</u></p> <ol style="list-style-type: none"> 1. <u>The electricity cabinet and kiosk does not exceed:</u> <ol style="list-style-type: none"> a. <u>2m height in relation to infrastructure;</u> and b. <u>13m² in area;</u> and 2. <u>The electricity cabinet and kiosk is not located in the following areas (except where located in a road corridor):</u> <ol style="list-style-type: none"> a. <u>The root protection area of a notable tree;</u> and b. <u>SNAs;</u>¹²⁶ 3. <u>the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes, has a reflectivity value of a maximum of:</u> 	<p><u>Activity status when compliance not achieved: RDIS</u></p> <p><u>Matters of discretion are restricted to:</u></p> <p><u>EI-MD1 - Historic heritage and the natural environment</u></p> <p><u>EI-MD2 - Amenity values, location and design</u></p> <p><u>EI-MD3 - Operational consideration</u>¹²⁹</p>

¹²³ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹²⁴ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹²⁵ Mainpower NZ Ltd [249.80]

¹²⁶ Mainpower NZ Ltd [249.80]

¹²⁹ Mainpower NZ Ltd [249.80]

	<p>a. <u>60% for greyness groups A or B;</u></p> <p>b. <u>40% for greyness group C; and.</u>¹²⁷</p> <p>4. <u>the activity shall comply with Earthworks standards EW-S1, EW-S6, and EW-S7.</u>¹²⁸</p>	
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<u>EI-R19B</u>	<u>New, or expansion of existing, transformers, substations, switching stations, and energy storage batteries (not enclosed within a building)</u> ¹³⁰	
	<p><u>This rule does not include:</u></p> <ul style="list-style-type: none"> • <u>new infrastructure buildings provided for in EI-R20</u> • <u>new electricity cabinets and kiosks provided for in EI-RXX</u> • <u>new permanent emergency or back-up electricity generation provided for in EI-R36.</u> 	
<u>All Zones</u>	<p><u>Activity status: PER</u></p> <p><u>Where:</u></p> <ol style="list-style-type: none"> <u>the activity shall comply with the following when located in the road corridor:</u> <ol style="list-style-type: none"> <u>maximum floor area (excluding plinths or foundations): 10m²;</u> <u>maximum height in relation to infrastructure: 3m;</u> <u>the activity shall comply with the following when located outside the road corridor:</u> <ol style="list-style-type: none"> <u>maximum height in relation to infrastructure: 5.5m;</u> <u>maximum floor area (excluding plinths or foundations): 40m²;</u> 	<p><u>Activity status when compliance not achieved: RDIS</u></p> <p><u>Matters of discretion are restricted to:</u></p> <ul style="list-style-type: none"> <u>EI-MD1 - Historic heritage and the natural environment</u> <u>EI-MD2 - Amenity values, location and design</u> <u>EI-MD3 - Operational considerations</u> <u>EI-MD4 - Health and safety</u> <u>EI-MD5 - Electricity generation</u>¹³³

¹²⁷ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹²⁸ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹³⁰ Mainpower NZ Ltd [249.87]

¹³³ Mainpower NZ Ltd [249.87]

	<p>c. <u>in or adjoining Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), shall comply with building height in relation to boundary and internal boundary setbacks for the zone or adjoining zone; and</u></p> <p>3. <u>the activity shall not be located in the following areas (except where located in a road corridor):</u></p> <ul style="list-style-type: none"> a. <u>the root protection area of a notable tree;</u> b. <u>SASM;</u> c. <u>SNAs;</u> d. <u>ONF, ONL and SAL;</u> e. <u>areas of ONC, VHNC and HNC;</u> f. <u>natural character of scheduled freshwater bodies setbacks;</u> <p><u>and</u></p> <ul style="list-style-type: none"> g. <u>places adjoining the coastal marine area the coastal environment¹³¹.</u> <p>4. <u>the activity shall comply with Earthworks standards EW-S1, EW-</u></p>	
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¹³¹ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

	<p><u>S2, EW-S5, EW-S6, and EW-S7</u>¹³²</p>	
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EI-R20	New infrastructure building	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. a new infrastructure building located in the road corridor shall comply with the following: <ol style="list-style-type: none"> a. maximum floor area (excluding plinths or foundations): 10m²; and b. maximum height in relation to infrastructure: 3m; 2. a new infrastructure building located outside the road corridor shall comply with the following: <ol style="list-style-type: none"> a. maximum height in relation to infrastructure: 5.5m; b. maximum floor area (excluding plinths or 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational considerations

¹³² Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]





	<p>foundations): 30m²;</p> <p>c. in or adjoining Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), shall comply with building height in relation to boundary and internal boundary setbacks for the zone or adjoining zone; and</p> <p>3. a new infrastructure building shall not be located in the following areas (except where located in a road corridor):</p> <p>a. the root protection area of a notable tree;</p> <p>b. SASM;</p> <p>c. SNAs;</p> <p>d. ONF, ONL and SAL; and</p> <p>e. areas of ONC, VHNC and HNC.</p> <p>4. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S5, EW-S6, and EW-S7.</u>¹³⁴</p>	
EI-R21	Activities that generate radiofrequency fields	
All Zones	<p>Activity status: PER</p> <p>Where:</p> <p>1. any activity generating radiofrequency fields shall not exceed the maximum exposure</p>	<p>Activity status when compliance not achieved: NC</p>

¹³⁴ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	level for the general public in NZS 2772.1:1999 Radiofrequency Fields - Maximum Exposure Levels - Part 1 - 3 kHz to 300 GHz.	
EI-R22	Activities that generate electric and magnetic fields	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> any activity generating electric and magnetic fields shall not exceed the maximum exposure levels for the general public, as measured and assessed in accordance with the International Commission on Non-Ionising Radiation Protection Guidelines for limiting exposure to time varying electric and magnetic fields (1Hz – 100kHz) (Health physics, 2010, 99(6); 818-836) and recommendations from the World Health Organisation monograph Environmental Health Criteria (No. 238, June 2007). 	Activity status when compliance not achieved: NC
EI-R23	Construction of new, <u>or widening or extension of existing</u>¹³⁵, vehicle access tracks ancillary to infrastructure <u>which that</u>¹³⁶ are located in specified sensitive environments	
All Zones	Activity status: RDIS Where: <ol style="list-style-type: none"> the new vehicle access track is located within the following areas: <ol style="list-style-type: none"> ONF, ONL and SAL; areas of ONC, VHNC and HNC; natural character of scheduled 	Activity status when compliance not achieved: N/A

¹³⁵ Transpower NZ Ltd [195.40]

¹³⁶ Transpower NZ Ltd [195.40]

<p>freshwater bodies setbacks;</p> <p> d. the root protection area of a notable tree;</p> <p> e. SNAs;</p> <p> and</p> <p>f. places adjoining the coastal marine area <u>the coastal environment</u>¹³⁷.</p> <p></p> <p>Matters of discretion are restricted to:</p> <p>EI-MD1 - Historic heritage and the natural environment</p> <p>EI-MD9 - Construction of new, or widening or extension of existing, vehicle access tracks ancillary to infrastructure</p>	
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Activity Rules - Electricity transmission and electricity distribution

EI-R24	New overhead transmission lines and electricity distribution lines and supporting poles and towers	
All Zones	<p>Activity status: PER</p> <p>Where:</p> <ol style="list-style-type: none"> 1. the activity shall not be located in the following areas (except where located in a road corridor): <ol style="list-style-type: none"> a. ONF, ONL and SAL; b. areas of ONC, VHNC and HNC; and c. places adjoining the coastal marine area 	<p>Activity status when compliance not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p> <p>EI-MD1 - Historic heritage and the natural environment</p> <p>EI-MD2 - Amenity values, location and design</p> <p>EI-MD3 - Operational considerations</p> <p>EI-MD4 - Health and safety</p> <p>EI-MD6 - Electricity transmission and electricity distribution</p>

¹³⁷ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

the coastal environment

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-  2. supporting poles and towers shall not be located in the following areas (except where located in a road corridor or accessway, or are an extension of existing infrastructure adjoining a site):
- a. the root protection area of a notable tree;
 -  b. SNAs;
 -  and
3. supporting poles and towers shall have the following maximum height in relation to infrastructure in:
- a. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), and Special Purpose Zone (Pines Beach and Kairaki Regeneration) : 18m; and
 - b. all other zones and the adjoining road corridor: 25m.
4. the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S5, EW-S6, and EW-S7. ¹³⁹

¹³⁸ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

¹³⁹ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

EI-R25	Transformers, substations, switching stations, and energy storage batteries (not enclosed within a building) ¹⁴⁰	
	This rule does not include: <ul style="list-style-type: none"> • new permanent emergency or back-up electricity generation provided for in EI-R36. 	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> 1. new transformers, substations, switching stations, and energy storage batteries are ancillary to electricity transmission and electricity distribution; 2. the activity shall comply with the following when located in the road corridor: <ol style="list-style-type: none"> a. maximum floor area (excluding plinths or foundations): 40m²; b. maximum height in relation to infrastructure: 3m; 3. the activity shall comply with the following when located outside the road corridor: <ol style="list-style-type: none"> a. maximum height in relation to infrastructure: 5.5m; b. maximum floor area (excluding plinths or foundations): 30m²; c. in or adjoining Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), shall comply with building height in 	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: <ul style="list-style-type: none"> EI-MD1—Historic heritage and the natural environment EI-MD2—Amenity values, location and design EI-MD3—Operational considerations ¹⁴¹

¹⁴⁰ Mainpower NZ Ltd [249.87]

¹⁴¹ Mainpower NZ Ltd [249.87]

	<p style="text-align: center;">relation to boundary and internal boundary setbacks for the zone or adjoining zone; and</p> <p style="text-align: center;">4. the activity shall not be located in the following areas (except where located in a road corridor):</p> <p style="text-align: center;">a. the root protection area of a notable tree;</p> <p style="text-align: center;">b. SASM;</p> <p style="text-align: center;">c. SNAs;</p> <p style="text-align: center;">d. ONF, ONL and SAL;</p> <p style="text-align: center;">e. areas of ONC, VHNC and HNC;</p> <p style="text-align: center;">f. natural character of scheduled freshwater bodies setbacks;</p> <p style="text-align: center;">and</p> <p style="text-align: center;">g. places adjoining the coastal marine area.</p>	
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Activity Rules - Communication facilities

EI-R26	New freestanding radiocommunication and telecommunication facilities, antennas, and supporting poles and towers	
All Zones	<p>Activity status: PER</p> <p>Where:</p> <ol style="list-style-type: none"> 1. the activity shall not be located in the following areas (except where located in a road corridor): <ol style="list-style-type: none"> a. ONF, ONL and SAL; b. areas of ONC, VHNC and HNC; c. natural character of scheduled freshwater bodies setbacks; 	<p>Activity status when compliance not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational considerations

<ul style="list-style-type: none"> d. places adjoining the coastal marine area <u>the coastal environment</u>¹⁴²; e. the root protection area of a notable tree; f. SASM; g. SNAs; <p><u>1A. the activity is located within the road corridor within an ONL, ONF, SAL, exterior building materials shall be finished in materials that will naturally weather to a non-reflective colour.</u>¹⁴³</p> <p>2. in the road corridor:</p> <ul style="list-style-type: none"> a. supporting poles and towers shall have the following maximum height in relation to infrastructure when adjoining: <ul style="list-style-type: none"> i. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration): 18m; ii. all other zones: 25m; b. dish antennas shall have the following maximum diameter when adjoining: <ul style="list-style-type: none"> i. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki 	
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¹⁴² Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

¹⁴³ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]


	<p>Regeneration): 0.38m;</p> <p>ii. all other zones: 1.2m;</p> <p>3. outside the road corridor:</p> <p>a. supporting poles and towers shall have the following maximum height in relation to infrastructure in:</p> <p>i. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), Special Purpose Zone (Pines Beach and Kairaki Regeneration): 18m</p> <p>ii. Commercial and Mixed Use Zones, Industrial Zones and all other Special Purpose Zones:</p> <p>a. 25m; or</p> <p>b. 30m where two or more infrastructure operators utilise the same structure;</p> <p>iii. Rural Zones:</p> <p>a. 35m; or</p> <p>b. 40m where two or more infrastructure operators utilise the same structure;</p> <p>b. dish antennas shall have the following maximum diameter in:</p> <p>i. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), Special Purpose Zone (Pines Beach and Kairaki Regeneration): 0.6m;</p>	
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	<p style="text-align: center;">ii. all other zones: 1.8m;</p> <p>c. supporting poles and towers in or adjoining Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), shall comply with the internal boundary building setback requirements for the zone or adjoining zone;</p> <p>4. any headframe shall have the following maximum diameter in:</p> <p>a. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration) <u>and the adjoining road corridor</u>¹⁴⁴: 2.5m;</p> <p>b. all other zones and the adjoining road corridor: 6m;</p> <p>5. omni-directional ‘whip’ or di-pole antennas shall comply with the following:</p> <p>a. maximum height: 1.6m and may extend above the maximum height in relation to infrastructure of</p>	
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¹⁴⁴ Chorus, Spark and Vodafone [62.33]

	<p>the supporting pole or tower;</p> <p>b. maximum diameter: 60mm;</p> <p>c. maximum horizontal length: 1.5m; and</p> <p>6. panel antennas shall comply with either of the following, whichever is the lesser:</p> <p>a. a maximum width of 0.7m and a maximum length of 3.5m; or</p> <p>b. a maximum surface area of the largest face of 1.5m².</p> <p>7. the activity shall comply with Earthworks standards EW-S6, and EW-S7.</p> <p>145</p>	
<p>EI-R27 New radiocommunication and telecommunication facilities attached to buildings</p>		
<p>All Zones</p>	<p>Activity status: PER Where:</p> <p>1. dish antennas shall comply with the following maximum diameter in:</p> <p>a. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration): 0.6m;</p> <p>b. all other zones: 1.8m;</p> <p>2. panel antennas shall comply with either of the following, whichever is the lesser:</p> <p>a. a maximum width of 0.7m and a</p>	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <p>EI-MD1 - Historic heritage and the natural environment</p> <p>EI-MD2 - Amenity values, location and design</p> <p>EI-MD3 - Operational considerations</p>

¹⁴⁵ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	<p>maximum length of 3.5m; or</p> <p>b. a maximum surface area of the largest face of 1.5m²;</p> <p>3. any antenna shall not exceed a maximum height of 5m above the highest point of attachment to a building;</p> <p>4. if a building is located in Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), the lowest point of attachment for antennas to the building shall be at least 15m above ground level; and</p> <p>5. new installations shall not involve alteration to a building with heritage values-; <u>and</u></p> <p> 9. <u>the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes, has a reflectivity value of a maximum of:</u></p> <p>a. <u>60% for greyness groups A or B;</u></p> <p>b. <u>40% for greyness group C.</u>¹⁴⁶</p>	
EI-R28	New overhead telecommunication lines and supporting poles	
All Zones	<p>Activity status: PER</p> <p>Where:</p> <p>1. the activity shall not be located in the</p>	<p>Activity status when compliance not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p>

¹⁴⁶ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	<p>following areas (except where located in a road corridor):</p> <ol style="list-style-type: none"> a. ONF, ONL and SAL; b. areas of ONC, VHNC and HNC; c. places adjoining the coastal marine area the coastal environment 147. <p>2. supporting poles shall not be located in the following areas (except where located in a road corridor or accessway, or are an extension of existing infrastructure adjoining a site):</p> <ol style="list-style-type: none"> a. the root protection area of a notable tree; b. SNAs; <p>and</p> <p>3. supporting poles shall comply with the following maximum height in relation to infrastructure in:</p> <ol style="list-style-type: none"> a. Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration) <u>and the</u> 	<p>EI-MD1 - Historic heritage and the natural environment</p> <p>EI-MD2 - Amenity values, location and design</p> <p>EI-MD3 - Operational considerations</p>
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¹⁴⁷ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

	<p><u>adjoining road corridor</u>¹⁴⁸. 18m; and</p> <p>b. all other zones and the adjoining road corridor: 25m.</p> <p>4. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S5, EW-S6, EW-S7; and</u></p> <p>5. <u>For pole foundations, the activity shall comply with Earthworks standards EW-S6, and EW-S7.</u></p> <p>149</p>	
EI-R29 New amateur radio configurations		
All Zones	<p>Activity status: PER Where:</p> <p>1. the maximum height in relation to infrastructure of any pole shall be 20m; <u>1A any part of a pole above 5m height in relation to infrastructure shall have a maximum diameter of 50mm</u>¹⁵⁰</p> <p><u>1B unless otherwise specified below, poles shall be exempt from height in relation to boundary requirements but remain subject to boundary setbacks for the zone;</u>¹⁵¹</p> <p>2. there shall be a maximum of one pole per site;¹⁵²</p> <p>3. any antenna other than a simple wire dipole <u>or dish antenna</u>¹⁵³ shall</p>	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <p>EI-MD1 - Historic heritage and the natural environment</p> <p>EI-MD2 - Amenity values, location and design</p> <p>EI-MD3 - Operational considerations</p>

¹⁴⁸ Chorus, Spark and Vodafone [62.34]

¹⁴⁹ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁵⁰ New Zealand Association of Radio Transmitters, Inc. [157.1]

¹⁵¹ New Zealand Association of Radio Transmitters, Inc. [157.1]

¹⁵² Waimakariri District Council [367.16]

¹⁵³ New Zealand Association of Radio Transmitters, Inc. [157.1]

	<p>comply with the following:</p> <ul style="list-style-type: none"> a. any element comprising the antenna shall be a maximum of 0.08m in diameter and 14.9m in length; b. for horizontal HF yagi or loop antenna the boom length shall be a maximum of 13m; c. no part of any antenna, pole or guy wire shall overhang the boundary of the site; and <p>4. any dish antenna <u>with a maximum diameter of 2m or more</u>¹⁵⁴ shall comply with the following:</p> <ul style="list-style-type: none"> <u>a1. there shall be no more than one such dish antenna;</u> a. <u>the dish antenna shall have</u>¹⁵⁵ a maximum diameter of: 5m; b. <u>the dish antenna shall</u> be pivoted <u>at</u> less than 4m above the ground <u>level</u>; c. in or adjoining Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), <u>the dish antenna</u>¹⁵⁶ shall comply with building height in relation to 	
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¹⁵⁴ New Zealand Association of Radio Transmitters, Inc. [157.1]

¹⁵⁵ New Zealand Association of Radio Transmitters, Inc. [157.1]

¹⁵⁶ New Zealand Association of Radio Transmitters, Inc. [157.1]

	<p>boundary and boundary setbacks for the zone or adjoining zone; and</p> <p>d. a maximum of one dish antenna per site.¹⁵⁷</p> <p>5. <u>any dish antenna with a maximum diameter of less than 2m shall comply with the following:</u></p> <ul style="list-style-type: none"> a. <u>there shall be no more than two such dish antennas;</u> b. <u>such dish antennas may be mounted on poles or a building;</u> c. <u>such dish antennas shall not exceed a maximum height in relation to infrastructure of 14m;</u> d. <u>such dish antennas shall be exempt from height in relation to boundary requirements but remain subject to boundary setbacks for the zone;</u>¹⁵⁸ <p>6. <u>the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for</u></p>	
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¹⁵⁷ Waimakariri District Council [367.16]

¹⁵⁸ New Zealand Association of Radio Transmitters, Inc. [157.1]


	<p><u>Building Purposes, has a reflectivity value of a maximum of:</u></p> <p style="padding-left: 40px;">a. <u>60% for greyness groups A or B;</u></p> <p style="padding-left: 40px;">b. <u>40% for greyness group C; and</u>¹⁵⁹</p> <p>7. <u>the activity shall comply with Earthworks standards EW-S1, EW-S6, and EW-S7.</u>¹⁶⁰</p>	
EI-R30	New communication kiosk	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. the maximum height in relation to infrastructure (excluding any small cell unit or antenna in (3) below) shall be 3.5m; 2. the maximum area (excluding plinths or foundations) shall be 1.5m²; and 3. any attached small cell unit or antenna shall be less than 1m in height and shall not have a horizontal dimension greater than the horizontal dimensions of the communication kiosk; and 4. <u>the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes,</u> 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <p>EI-MD1 - Historic heritage and the natural environment</p> <p>EI-MD2 - Amenity values, location and design</p> <p>EI-MD3 - Operational considerations</p>

¹⁵⁹ Transpower New Zealand Ltd [195.84], and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁶⁰ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	<p><u>has a reflectivity value of a maximum of:</u></p> <p>a. <u>60% for greyness groups A or B;</u></p> <p>b. <u>40% for greyness group C.</u>¹⁶¹</p> <p><u>5. the activity shall comply with Earthworks standards EW-S1, EW-S6, and EW-S7.</u>¹⁶²</p>	
EI-R31	New small cell unit	
All Zones	Activity status: PER	Activity status when compliance not achieved: N/A

Activity Rules - Fuel and energy

EI-R32	Installation of gas distribution pipeline and fuel systems (including LPG)	
All Zones	<p>Activity status: PER</p> <p>Where:</p> <ol style="list-style-type: none"> 1. a gas distribution pipeline shall have a maximum gauge pressure of 2,000 kilopascals; 2. the activity shall not be located in the following areas (except where located in a road corridor or accessway, or are an extension of existing infrastructure adjoining a site, or as specified otherwise below): <ol style="list-style-type: none"> a. the root protection area of a notable tree, except where the installation: <ol style="list-style-type: none"> i. is at least 1m below ground level;  <p>and</p> 	<p>Activity status when compliance not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational considerations EI-MD4 - Health and safety EI-MD7 - Gas distribution

¹⁶¹ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁶² Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	<p>ii. is limited to hand digging, trenchless means or air spade, hydro vac or directional drilling methods;</p> <p>and</p> <p>iii. has an entry point either:</p> <p>a. located outside of the root protection area;</p> <p>or</p> <p>b. with an area of less than 1m²;</p> <p>b. SNAs;</p> <p>c. places adjoining the coastal marine area <u>the coastal environment</u>¹⁶³;</p> <p>d. ONF, ONL and SAL; and</p> <p>e. areas of ONC, VHNC and HNC.</p> <p>3. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S5, EW-S6, and EW-S7.</u>¹⁶⁴</p>	
<p>Advisory Notes</p> <ul style="list-style-type: none"> • See also EI-R10 Installation of new infrastructure, or upgrading of existing infrastructure, underground. • A check should be made of the HSNO to ascertain whether any statutory requirements under that Act apply. 		

¹⁶³ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

¹⁶⁴ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	<ul style="list-style-type: none"> Where earthworks may be required, a check should be made of the NESCS to ascertain whether any statutory requirements under the NESCS apply. 	
EI-R33	An increase in the carrying or operating capacity, efficiency or security of existing gas distribution pipeline and fuel systems	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> if infrastructure is replaced, the replacement shall be of the same or a similar scale and character to that which is replaced. 	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, locations and design EI-MD3 - Operational considerations
	Advisory Notes <ul style="list-style-type: none"> See also EI-R10 Installation of new infrastructure, or upgrading of existing infrastructure, underground; and EI-R11 Relocation of infrastructure. A check should be made of the HSNO to ascertain whether any statutory requirements under that Act apply. Where earthworks may be required, a check should be made of the NESCS to ascertain whether any statutory requirements under the NESCS apply. 	
EI-R34	New tanks for the storage of gas and fuel (including LPG)	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> new above ground tanks shall comply with the built form standards for the relevant zone or overlay; and the activity shall not be located in the following areas: <ol style="list-style-type: none"> SASM; SNAs; places adjoining the coastal marine area <u>the coastal environment</u>¹⁶⁵. ONF, ONL and SAL; areas of ONC, VHNC and HNC; and natural character of scheduled 	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational considerations EI-MD4 - Health and safety

¹⁶⁵ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

	<p>freshwater bodies setbacks.</p> <p>3. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW S4, EW-S5, EW-S6, and EW-S7.</u></p> <p>166</p>	
<p>Advisory Notes</p> <ul style="list-style-type: none"> • A check should be made of the HSNO to ascertain whether any statutory requirements under that Act apply. • Where earthworks may be required, a check should be made of the NESCS to ascertain whether any statutory requirements under the NESCS apply. 		
<p>EI-R35 Transformers, substations, switching stations, and energy storage batteries (not enclosed within a building)</p>		
<p><i>This rule does not apply to new permanent emergency or back-up electricity generation provided for in EI-R36.</i></p>		
<p>All Zones</p>	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. new transformers, substations, switching stations, and energy storage batteries are ancillary to electricity generation; 2. the activity shall comply with the following when located in the road corridor: <ol style="list-style-type: none"> a. maximum floor area (excluding plinths or foundations): 10m²; b. maximum height in relation to infrastructure: 3m; 3. the activity shall comply with the following when located outside the road corridor: <ol style="list-style-type: none"> a. maximum height in relation to infrastructure: 5.5m; 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 Historic heritage and the natural environment EI-MD2 Amenity values, locations and design EI-MD3 Operational considerations EI-MD4 Health and safety EI-MD5 Electricity generation¹⁶⁷

¹⁶⁶ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁶⁷ Mainpower [249.87]

	<p>b. maximum floor area (excluding plinths or foundations): 30m²;</p> <p>c. in or adjoining Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), shall comply with building height in relation to boundary and internal boundary setbacks for the zone or adjoining zone; and</p> <p>4. the activity shall not be located in the following areas (except where located in a road corridor):</p> <p>a. the root protection area of a notable tree;</p> <p>b. SASM;</p> <p>c. SNAs;</p> <p>d. ONF, ONL and SAL;</p> <p>e. areas of ONG, VHNC and HNC;</p> <p>f. natural character of scheduled freshwater bodies setbacks;</p> <p>and</p> <p>g. places adjoining the coastal marine area.</p>	
EI-R36	New permanent emergency or back-up electricity generation	
	<i>This rule does not apply to temporary portable or transportable electricity generation provided for in EI-R9.</i>	

All Zones	Activity status: PER	Activity status when compliance not achieved: RDIS
	<p>Where:</p> <ol style="list-style-type: none"> 1. new permanent emergency or back-up electricity generation (including any associated energy storage batteries): <ol style="list-style-type: none"> a. is not the primary electricity supply to the site; and b. shall comply with the built form standards for the relevant zone or overlay-; <u>and</u> 2. <u>the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes, has a reflectivity value of a maximum of:</u> <ol style="list-style-type: none"> a. <u>60% for greyness groups A or B;</u> b. <u>40% for greyness group C.</u>¹⁶⁸ 3. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7.</u>¹⁶⁹ 	<p>Matters of discretion are restricted to:</p> <p><u>EI-MD1 - Historic heritage, cultural values and the natural environment</u>¹⁷⁰</p> <p><u>EI-MD3 - Operational considerations</u>¹⁷¹</p> <p>EI-MD14 - Extent of effects</p>
EI-R37	New electricity generation other than renewable electricity generation	

¹⁶⁸ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]


¹⁶⁹ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁷⁰ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]


¹⁷¹ Chorus, Spark and Vodafone [62.66]

	<i>This rule does not apply to temporary portable or transportable electricity generation provided for in EI-R9; or new permanent emergency or back-up electricity generation provided for in EI-R36.</i>	
All Zones	Activity status: NC	Activity status when compliance not achieved: N/A

Activity Rules - Renewable energy

EI-R38	New self-contained power unit	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> 1. installation shall not involve alteration to a <u>historic heritage</u> structure <u>listed in HH-SCHED2 with heritage values.</u>¹⁷² 	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: EI-MD1 - Historic heritage and the natural environment
EI-R39	New infrastructure for assessing a site or technology for suitability for renewable energy including renewable electricity generation	
All Zones	Activity status: PER Where: <ol style="list-style-type: none"> 1. the activity involves installation, maintenance, repair, upgrading or removal of infrastructure for assessing a site or technology for suitability for renewable energy including renewable electricity generation; 2. infrastructure shall be on site for a maximum of 24 months in any 36 month period; 3. the activity shall not involve earthworks (except where located in a road corridor) on SASM;  and 4. infrastructure shall not be located in the following areas (except where located in a road corridor): <ol style="list-style-type: none"> a. SNAs; 	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational considerations

¹⁷² Clause 16(2)

	 <ul style="list-style-type: none"> b. ONF, ONL and SAL; and c. areas of ONC, VHNC and HNC. 	
EI-R40	New solar cell(s) for small scale or community scale renewable electricity generation	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. the activity involves the installation, maintenance, upgrading or removal of a solar cell(s) in the circumstances specified below; 2. the electricity generated is either: <ol style="list-style-type: none"> a. solely for use on a site and ancillary to the principal use of the site; or b. for use on a site and ancillary to the principal use of the site, and also for supply to not more than 20 other sites; and c. any surplus of electricity generated may be distributed to the electricity distribution network; 3. if a solar cell(s) is located on the roof of a building in or adjoining Residential Zones, Special Purpose Zone (Kāinga Nohoanga), or Special Purpose Zone (Pines Beach and Kairaki Regeneration), the solar cell(s) shall comply with the following (as applicable): <ol style="list-style-type: none"> a. on new buildings, shall comply with 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design <u>EI-MD3 - Operational considerations</u>¹⁷⁶ EI-MD5 - Electricity generation

¹⁷⁶ Chorus, Spark and Vodafone [62.66]

	<p>the height in relation to boundary requirement for the zone or adjoining zone; or</p> <p>b. if located on an existing building in or adjoining a zone in (3) above that already breaches the applicable height in relation to boundary requirement, the solar cell(s) may also breach it; or</p> <p>c. if located on an existing building in or adjoining a zone in (3) above that does not breach the applicable height in relation to boundary requirement, the solar cell(s) shall also not breach it; and</p> <p>4. new installations shall not involve alteration to a <u>historic heritage</u> building or other structure <u>listed in HH-SCHED2 with heritage values</u>; and¹⁷³</p> <p>5. <u>where the activity is located within an ONL, ONF, SAL, the activity must be finished in a colour which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes, has a reflectivity value of a maximum of:</u></p> <p><u>a. 60% for greyness groups A or B;</u></p>	
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¹⁷³ Clause 16(2)

	<p><u>b. 40% for greyness group C.</u>¹⁷⁴</p> <p><u>6. the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7.</u>¹⁷⁵</p>	
EI-R41	New small scale <u>free standing and roof mounted</u>¹⁷⁷ wind turbine(s) for small scale or community scale renewable electricity generation	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. the activity involves the installation, maintenance, upgrading or removal of a small scale wind turbine(s) in the circumstances specified below; 2. the electricity generated is either: <ol style="list-style-type: none"> a. solely for use on a site and ancillary to the principal use of the site; or b. for use on a site and ancillary to the principal use of the site, and also for supply to a maximum of 20 other sites; and c. any surplus of electricity generated may be distributed to the electricity distribution network; 3. if standard (2)(a) above applies, a maximum of one wind turbine shall be erected on a site; 4. if standard (2)(b) above applies, a maximum of one wind turbine shall be erected for each site, with either one turbine 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational considerations EI-MD4 - Health and safety EI-MD5 - Electricity generation

¹⁷⁴ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁷⁵ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁷⁷ Waimakariri District Council [367.50]

	<p>placed on each site or the turbines clustered on one or more of the sites;</p> <p>5. new installations shall not involve alteration to a <u>historic heritage structure listed in HH-SCHED2 with heritage values</u>,¹⁷⁸</p> <p>6. the activity shall not be located in the following areas:</p> <ol style="list-style-type: none"> a. ONF, ONL and SAL; b. areas of ONC, VHNC and HNC; c. <u>SNA's</u>¹⁷⁹; <p>7. <u>for free standing wind turbines</u>.¹⁸⁰</p> <ol style="list-style-type: none"> a. each wind turbine (including the full extent of blades) shall comply with road and internal boundary building setback requirements for the zone; and b. the maximum permitted height in relation to infrastructure of each wind turbine (including the full extent of blades) is 20m. 	
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¹⁷⁸ Clause 16(2)

¹⁷⁹ Department of Conservation [419.47]

¹⁸⁰ Waimakariri District Council [367.50]


	<p>8. <u>for roof mounted wind turbines:</u></p> <p style="margin-left: 20px;">a. <u>the maximum permitted height of each wind turbine (including the full extent of the blades) is 3m above the highest point of attachment to the roof of a building;</u></p> <p style="margin-left: 20px;">b. <u>there shall be no more than one wind turbine per building; and</u></p> <p style="margin-left: 20px;">c. <u>the wind turbine shall be exempt from height in relation to boundary requirements.</u>¹⁸¹</p> <p>9. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7.</u>¹⁸²</p>	
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EI-R42	New solar hot water systems	
All Zones	<p>Activity status: PER</p> <p>Where:</p> <p><u>1A the activity involves the installation, maintenance, upgrading or removal of a solar hot water heating system in the circumstances specified below;</u></p> <p><u>1B the hot water generated is solely for use on a site and ancillary to the principal use of the site.</u>¹⁸³</p> <p>1. if located on the roof of a building in or adjoining Residential</p>	<p>Activity status when compliance not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p> <p style="margin-left: 20px;">EI-MD1 - Historic heritage and the natural environment</p> <p style="margin-left: 20px;">EI-MD14 - Extent of effects</p>

¹⁸¹ Waimakariri District Council [367.50]

¹⁸² Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁸³ Daiken NZ [145.17]

	<p>Zones, Special Purpose Zone (Kāinga Nohoanga) or Special Purpose Zone (Pines Beach and Kairaki Regeneration), shall comply with the following (as applicable):</p> <ol style="list-style-type: none"> a. on new buildings, shall comply with the height in relation to boundary requirement for the zone or adjoining zone; or b. if located on an existing building in or adjoining a zone in (1) above that already breaches the applicable height in relation to boundary requirement, the solar hot water system may also breach it; or c. if located on an existing building in or adjoining a zone in (1) above that does not breach the applicable height in relation to boundary requirement, the solar hot water system shall also not breach it; and <p>2. new installations shall not involve alteration to a <u>historic heritage building listed in HH-SCHED2 with heritage values</u>.¹⁸⁴</p> 	
	<p>Advisory Note</p> <ul style="list-style-type: none"> • The installation of solar hot water systems may also require building consent from the District Council. 	

¹⁸⁴ Clause 16(2)

EI-R43	New infrastructure for the generation of renewable energy including renewable electricity generation from waste	
	<i>This activity includes the use of electricity generated on site, and the supply of any surplus electricity generated to the electricity distribution network.</i>	
All Zones	Activity status: RDIS Matters of discretion are restricted to: EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operational considerations EI-MD4 - Health and safety EI-MD5 - Electricity generation EI-MD8 - Water supply, wastewater system, and stormwater infrastructure	Activity status when compliance not achieved: N/A
EI-R44	New large scale wind turbine(s) for large scale renewable electricity generation	
All Zones	Activity status: DIS Where: 1. the activity involves the installation, maintenance, upgrading or removal of a wind turbine(s) other than for small scale or community scale renewable electricity generation from a small scale wind turbine(s) provided for in EI-R41.	Activity status when compliance not achieved: N/A
EI-R44A	<u>Large scale solar electricity generation</u> ¹⁸⁵	
All Zones	<u>Activity status: RDIS</u> <u>Where:</u> 1. <u>the activity involves the installation, maintenance, upgrading or removal of solar cell(s) other than for small scale or community scale renewable electricity</u>	<u>Activity status when compliance not achieved: N/A</u>

¹⁸⁵ Waimakariri District Council [367.15]

<p style="text-align: center;"><u>generation provided for in EI-R40.</u></p> <p><u>Matters of discretion are restricted to:</u></p> <p><u>EI-MD1 - Historic heritage, cultural values and the natural environment</u> <u>EI-MD2 – Amenity values, location and design</u> <u>EI-MD3 – Operational considerations</u> <u>EI-MD4 Health and Safety</u> <u>EI-MD5 – Electricity generation</u></p>	
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Activity Rules - Water, wastewater, stormwater

EI-R45	Requirement to connect to water supply, wastewater system or stormwater infrastructure <i><u>This rule does not apply to the Heavy Industrial Zone located between Upper and Lower Sefton Roads</u></i> ¹⁸⁶	
All Zones	Activity status: PER Where: 1. any new building, other than an accessory building: a. when located in Residential Zones, Commercial and Mixed Use Zones, Industrial Zones or Special Purpose Zones (other than the Special Purpose Zone (Kāinga Nohoanga)), shall be connected to the following, if available ¹⁸⁷ : i. a public drinking water supply; ii. a public wastewater system;	Activity status when compliance not achieved: DIS

¹⁸⁶ Daiken NZ [145.18]

¹⁸⁷ Daiken NZ [145.18]

b. when located in Rural Zones, Special Purpose Zone (Kāinga Nohoanga) or Open Space and Recreation Zones, shall be connected to the following, if available:

i. a public drinking water supply;

ii. a public wastewater system;


iii. a public drinking water supply is considered to be available in Rural Zones, Special Purpose Zone (Kāinga Nohoanga) or Open Space and Recreation Zones where:

a. the drinking water supplier will accept a connection to the supply from the site; and








b. the water reticulation network already exists adjacent to the site boundary, or if the amount of new pipework to be installed to provide a connection to the site boundary by

	<p>extending the supply from the existing network is less than or equal to 250m of new pipework per new building (up to a maximum of 1km);</p> <p>iv. a public wastewater system is considered to be available in Rural Zones, Special Purpose Zone (Kāinga Nohoanga) or Open Space and Recreation Zones where:</p> <p>a. a wastewater pipeline passes within 50m of the site boundary; and</p> <p>b. the wastewater system operator will accept the wastewater from the site; and</p> <p>c. the distance from the wastewater system to the building</p>	
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	<p>from which wastewater is generated is less than 100m;</p> <p>v. within the Special Purpose Zone (Kāinga Nohoanga) where a public drinking water supply or public wastewater system is not available, connection shall be to on site water supply and wastewater treatment services; and</p> <p>2. any new building, other than an accessory building with a floor area of 10m² or less:</p> <p>a. when located in Residential Zones, Commercial and Mixed Use Zones, Industrial Zones or Special Purpose Zones (other than the Special Purpose Zone (Kāinga Nohoanga)), shall be connected to reticulated stormwater infrastructure; and</p> <p>b. when located in Rural Zones, Special Purpose Zone (Kāinga Nohoanga) or Open Space and Recreation Zones, shall manage stormwater on site</p>	
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	<p>so that the effects of stormwater at the site boundary (from both peak flow and total flow) are no greater than before the development took place.</p> <p>3. the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7.¹⁸⁸</p>	
	<p>Advisory Notes</p> <ul style="list-style-type: none"> • The Waimakariri Rural Residential Development Strategy June 2019 (p30-32) shows the wastewater, water supply and drainage schemes in the District. • Advice should be sought from the District Council regarding the availability and adequacy of services and any other engineering requirements associated with new connections. • Check also EI-R4 Customer connection between a building, other structure, site, and infrastructure. • Check also any relevant provisions in the Subdivision chapter regarding provision of services to new allotments. • New connections may also require building consent from the District Council. • Check the ECOP for the relevant infrastructure design standard or construction specification standard. 	
EI-R46	Construction of new, or renewal or upgrading of existing, water supply, wastewater system, or stormwater infrastructure	
All Zones	<p>Activity status: PER</p> <p>Where:</p> <ol style="list-style-type: none"> 1. compliance is achieved with the relevant built form standards for the relevant zone or overlay; 2. the activity does not involve earthworks in the root protection area of a notable tree, except where located in a road corridor or where the works: 	<p>Activity status when compliance with EI-R46 (1) to (4) and (6) not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> EI-MD1 - Historic heritage and the natural environment EI-MD2 - Amenity values, location and design EI-MD3 - Operation considerations EI-MD4 - Health and safety EI-MD8 - Water supply, wastewater system, and stormwater infrastructure <p>Activity status when compliance with EI-R46 (5) not achieved: DIS</p>

¹⁸⁸ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	<ul style="list-style-type: none"> a. involve installation at least 1m below ground level;  and b. are limited to hand digging, trenchless means or air spade, hydro vac or directional drilling methods;  and c. have an entry point either: <ul style="list-style-type: none"> i. located outside of the root protection area;  or ii. with an area of less than 1m²;  <p>3. the activity does not involve earthworks in the following areas (except where located in a road corridor or accessway, or involve an extension to existing infrastructure adjoining a site, or where works are by trenchless means):</p> <ul style="list-style-type: none"> a. SASM;  b. SNAs;  c. places adjoining the coastal marine area <u>the coastal environment</u>¹⁸⁹.;  <p>4. new stormwater infrastructure storage, retention, detention or treatment facilities and devices and outfall structures are not</p>	
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¹⁸⁹ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

	<p>located in the following areas:</p> <ul style="list-style-type: none"> a. SASM; b. SNAs; <p>5. new wastewater system treatment plants and outfall structures are not located in the following areas:</p> <ul style="list-style-type: none"> a. SASM; b. settings with heritage values, and archaeological sites; c. ONF, ONL and SAL; d. areas of ONC, VHNC and HNC; e. natural character of scheduled freshwater bodies setbacks; f. SNAs; g. <u>places adjoining the coastal marine area the coastal environment</u>¹⁹⁰; h. Residential Zones, Commercial and Mixed Use Zones, Special Purpose Zones, or Open Space and Recreation Zones; and <p>6. new water supply storage and treatment facilities are not located in the following areas:</p> <ul style="list-style-type: none"> a. SASM; b. ONF, ONL and SAL; c. areas of ONC, VHNC and HNC; 	
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¹⁹⁰ Chorus NZ, Spark NZ Trading Ltd and Vodafone NZ Ltd [62.6]

	<p>d. natural character of scheduled freshwater bodies setbacks;</p> <p>and</p> <p>e. SNAs.</p> <p>7. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S5, EW-S6, and EW-S7.</u>¹⁹¹</p>	
	<p>Advisory Notes</p> <ul style="list-style-type: none"> • Check the ECOP for the relevant infrastructure design standard or construction specification standard. • Check for any relevant Regional Council provisions. • Check any relevant Stormwater Management Plans and Integrated Catchment Management Plans. • May also require building consent from the District Council. 	
EI-R47	New rainwater collection systems for non-potable use	
All Zones	<p>Activity status: PER</p> <p>Where:</p> <ol style="list-style-type: none"> 1. in Residential Zones, Special Purpose Zone (Kāinga Nohoanga), and Special Purpose Zone (Pines Beach and Kairaki Regeneration), new rainwater tanks shall comply with building height, road boundary and internal boundary setback requirements for the relevant zone. 2. <u>the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7.</u>¹⁹² 	<p>Activity status when compliance not achieved: RDIS</p> <p>Matters of discretion are restricted to:</p> <p>EI-MD14 - Extent of effects</p> <p><u>EW-MD1 - Activity operation, scale, form and location</u>¹⁹³</p>
	<p>Advisory Note</p> <ul style="list-style-type: none"> • The installation of rainwater tanks may also require building consent from the District Council. 	
EI-R48	Requirement to provide water supply for firefighting	

¹⁹¹ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁹² Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]


¹⁹³ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. provision for sufficient water supply and access to water supplies for firefighting is available to all buildings (excluding accessory buildings and infrastructure buildings¹⁹⁴ that are not habitable buildings) via the District Council's reticulated water supply (where available) in accordance with the SNZ PAS 4509:2008 New Zealand Fire Service Firefighting Water Supplies Code of Practice; or 2. where a reticulated water supply compliant with SNZ PAS 4509:2008 is not available, or the only supply available is the controlled restricted rural type water supply which is not compliant with SNZ PAS 4509:2008, water supply and access to water supplies for firefighting shall be in accordance with the alternative firefighting water sources provisions of SNZ PAS 4509:2008. 	<p>Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: EI-MD11 - Requirement to provide water supply for firefighting</p> <p>Notification An application for a restricted discretionary activity under this rule is precluded from being publicly notified, but may be limited notified only to Fire and Emergency New Zealand where the consent authority considers this is required, absent its written approval.</p>
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Activity Rules - Irrigation/stockwater networks

EI-R49	Maintenance, repair, and upgrade of existing community scale irrigation/stockwater networks	
Rural Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. the maintenance, repair, and upgrade (where upgrades 	<p>Activity status when compliance not achieved: N/A RDIS</p> <p><u>Matters of discretion are restricted to:</u></p>

¹⁹⁴ Mainpower NZ Ltd [249.91]

	<p>exclude extension or expansion) is to existing diversion, intake, conveyance, storage, discharge and other ancillary facilities and structures for the reticulation and storage of water for agricultural and horticultural activities including irrigation and stockwater (excluding mobile irrigation equipment for agricultural and horticultural activities) that serves multiple sites and is centrally administered.</p> <p>2. EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7 are met; </p> <p>3. the disposal or stockpiling of any dredged material to land shall meet EW-S1, EW-R9 (stockpiling), EW-S2, and</p> <p>4. the activity is undertaken by the Crown, Regional Council, District Council or their nominated agent. ¹⁹⁵</p>	<p>EI-MD1 - Historic heritage and the natural environment¹⁹⁶</p>
	<p>Advisory Note</p> <ul style="list-style-type: none"> • A check should be made of the Stockwater Race Bylaw 2019 for any other requirements that may apply. 	
<p>EI-R50</p>	<p>New, or extension or expansion of existing, community scale irrigation/stockwater networks</p>	
<p>Rural Zones</p>	<p>Activity status: DIS Where:</p>	<p>Activity status when compliance not achieved: N/A</p>

¹⁹⁵ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

¹⁹⁶ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	<p>1. the new, or extension or expansion of existing, diversion, intake, conveyance, storage, discharge and other ancillary facilities and structures is for the reticulation and storage of water for agricultural and horticultural activities including irrigation and stockwater (excluding mobile irrigation equipment for agricultural and horticultural activities) that serves multiple sites and is centrally administered.</p>	
<p>Advisory Note</p> <ul style="list-style-type: none"> • A check should be made of the Stockwater Race Bylaw 2019 for any other requirements that may apply. 		

Activity Rules - Managing effects of activities and development on the National Grid

EI-R51	Activities and development (other than earthworks) within a National Grid Yard	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> 1. <u>the activity is not a sensitive activity;</u> 2. <u>buildings or structures comply with NZECP34: 2001 and are:</u> <ol style="list-style-type: none"> a. <u>for a network utility; or</u> b. <u>a fence not exceeding 2.5m in height above ground level; or</u> c. <u>a non-habitable building or structure used for agricultural and horticultural activities (including irrigation) that is not:</u> 	<p>Activity status when compliance not achieved: NC Notification An application under this rule is precluded from being publicly notified, but may be limited notified only to Transpower NZ Ltd where the consent authority considers this is required, absent its written approval.</p>

	<p>i. <u>a milking shed/dairy shed (excluding the stockyards and ancillary platforms),</u></p> <p>ii. <u>a wintering barn,</u></p> <p>iii. <u>a building for intensive indoor primary production</u>¹⁹⁷ ¹⁹⁸ <u>, or</u></p> <p>iv. <u>a commercial greenhouse or</u></p> <p>v. <u>produce packing facilities;</u></p> <p><u>d. building alterations or additions to an existing building or structure that do not increase the height above ground level or footprint of the existing building or structure;</u></p> <p><u>3. a building or structure provided for by (2)(a) to (d) must:</u></p> <p><u>a. not be used for the handling or storage of hazardous substances with explosive or flammable intrinsic properties in greater than domestic scale quantities;</u></p> <p><u>b. not permanently obstruct existing vehicle access to a National Grid support structure;</u></p>	
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¹⁹⁷ Transpower NZ Ltd [195.43]

¹⁹⁸ Horticulture NZ [295.80]

	<p><u>c. be located at least 12m from the outer visible edge of a foundation of a National Grid support structure, except where it is a fence not exceeding 2.5m height above ground level that is located at least 6m from the outer visible edge of a foundation of a National Grid support structure.</u>¹⁹⁹</p> <p>1. the activities and development within a National Grid Yard in (a) to (i) below comply with the safe electrical clearance distances set out in the NZECP; and where the activities and development in (d) to (i) below are set back 12m from any National Grid support structure:</p> <p>a. network utilities (other than for the reticulation and storage of water in canals, dams or reservoirs including for irrigation purposes) undertaken by network utility operators;</p> <p>b. fences no greater than 2.5m in height above ground level and no closer than 6m from the</p>	
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¹⁹⁹ Transpower NZ Ltd [195.43]

	<p>nearest National Grid support structure;</p> <p>e. artificial crop protection and support structures between 8m and 12m from a single pole or pi-pole and any associated guy-wire (but not a tower) that:</p> <ul style="list-style-type: none">i. meets the requirements of the NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances for separation distances from the conductor;ii. is a maximum of 2.5m in height above ground level;iii. is removable or temporary, to allow clear working space 12m from the pole when necessary for maintenance and emergency repair purposes;iv. allows all weather access to the pole and a sufficient area for maintenance equipment, including a crane;	
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| | <ul style="list-style-type: none">d. any new non-habitable building less than 2.5m in height above ground level and 40m² in floor area;e. non-habitable buildings or structures used for agricultural and horticultural activities, provided they are not a milking shed/dairy shed (excluding the stockyards and ancillary platforms), a wintering barn, a building for intensive farming activities, or a commercial greenhouse;f. mobile irrigation equipment used for agricultural and horticultural activities;g. other than reticulation and storage of water in dams or reservoirs in (a) above, reticulation and storage of water for irrigation purposes provided that it does not permanently physically obstruct vehicular access to a National Grid support structure;h. building alteration and additions to an existing building or other structure that does not involve an increase in the height above ground level or footprint of the | |
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	<p>building or structure; and i. a building or structure where Transpower NZ Ltd has given written approval in accordance with clause 2.4.1 of the NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances.²⁰⁰</p>	
<p>All Zones</p>	<p>Activity status: NC Where:</p> <ol style="list-style-type: none"> 1. activities and development within a National Grid Yard involve the following: <ol style="list-style-type: none"> a. any activity and development that permanently physically impedes vehicular access to a National Grid support structure; b. any new building for a sensitive activity; c. any change of use to a sensitive activity or the establishment of a new sensitive activity; d. dairy/milking sheds or buildings for intensive indoor primary production intensive farming^{201, 202, 203} or wintering barns; and e. any hazardous facility that 	<p>Activity status when compliance not achieved: N/A²⁰⁴</p>

²⁰⁰ Transpower NZ Ltd [195.43]

²⁰¹ Transpower NZ Ltd [195.43]

²⁰² Horticulture NZ [295.80]

²⁰³ Federated Farmers of NZ Inc. [414.81]

²⁰⁴ Transpower NZ Ltd [195.43]

	<p>involves the storage and handling of hazardous substances with explosive or flammable intrinsic properties within 12m of the centreline of a National Grid transmission line.</p> <p>Notification An application under this rule is precluded from being publicly notified, but may be limited notified only to Transpower NZ Ltd where the consent authority considers this is required, absent its written approval.</p>	
	<p>Advisory Note</p> <ul style="list-style-type: none"> National Grid transmission lines are shown on the planning map. 	
EI-R52	<p>Earthworks (other than quarry or landfill)²⁰⁵ and the disturbance of land for the installation of fence posts²⁰⁶ within a National Grid Yard</p>	
All Zones	<p>Activity status: PER Where:</p> <ol style="list-style-type: none"> around National Grid support towers:²⁰⁷ earthworks and the disturbance of land for the installation of fence posts shall be no deeper than 300mm within 6m of a foundation of a National Grid support structure.²⁰⁸ a. depth shall be no deeper than 300mm within 6m of a foundation of a National Grid support structure; 	<p>Activity status when compliance with EI-R52 (1) not achieved: RDIS Matters of discretion are restricted to: EI-MD1 - Historic heritage, cultural values and the natural environment²¹⁴ EI-MD12 - National Grid</p> <p>Activity status when compliance with EI-R52 (2) to (5) not achieved: NC Notification An application for a restricted discretionary activity under this rule is precluded from being publicly notified, but may be limited notified only to Transpower NZ Ltd where the consent authority considers this is required, absent its written approval.</p>

²⁰⁵ Transpower NZ Ltd [195.44]

²⁰⁶ Transpower NZ Ltd [195.44]

²⁰⁷ Transpower NZ Ltd [195.44]

²⁰⁸ Transpower NZ Ltd [195.44]

²¹⁴ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

	<p>b. depth shall be no deeper than 3m:</p> <p>i. between 6m and 12m from the foundation of a 220kV or a 350kV National Grid support structure; or</p> <p>ii. between 6m and 10m from the foundation of a 66kV National Grid support structure;²⁰⁹</p> <p>2. earthworks <u>and the disturbance of land for the installation of fence posts</u>²¹⁰ shall not compromise the stability of a National Grid support structure;</p> <p>3. earthworks <u>and the disturbance of land for the installation of fence posts</u>²¹¹ shall not result in a reduction in the ground to conductor clearance distances below what is required by Table 4 of NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances; and</p> <p>4. earthworks <u>and the disturbance of land for the installation of fence posts</u>²¹² shall not result in <u>existing</u>²¹³ vehicular access to a National Grid support structure being permanently obstructed.</p>	
EI-R52A ²¹⁵	<u>Earthworks within a National Grid Yard</u>	
<u>All Zones</u>	<u>Activity status: RDIS</u> <u>Where:</u>	<u>Matters of discretion are restricted to:</u> <u>EI-MD12 National Grid</u>

²⁰⁹ Transpower NZ Ltd [195.44]

²¹⁰ Transpower NZ Ltd [195.44]

²¹¹ Transpower NZ Ltd [195.44]

²¹² Transpower NZ Ltd [195.44]

²¹³ Transpower NZ Ltd [195.44]

²¹⁵ Transpower NZ Ltd [195.44]

	<ol style="list-style-type: none"> 1. <u>earthworks are more than 300mm deep and less than 3m deep:</u> <ol style="list-style-type: none"> a. <u>between 6m and 12m from the foundation of a 220kV or a 350kV National Grid support structure; or</u> b. <u>between 6m and 10m from the foundation of a 66kV National Grid support structure;</u> 2. <u>earthworks shall not compromise the stability of a National Grid support structure;</u> 3. <u>earthworks shall not result in a reduction in the ground to conductor clearance distances below what is required by Table 4 of NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances; and</u> 4. <u>earthworks and the disturbance of land for the installation of fence posts shall not result in existing vehicular access to a National Grid support structure being permanently obstructed.</u> 	<p><u>Activity status when compliance not achieved: NC</u></p> <p><u>Notification</u> <u>An application for a restricted discretionary activity under this rule is precluded from being publicly notified, but may be limited notified only to Transpower NZ Ltd where the consent authority considers this is required, absent its written approval.</u>²¹⁶</p>
	<p>Exemptions This rule does not apply to:</p> <ul style="list-style-type: none"> • earthworks undertaken by a network utility operator (other than for the reticulation and storage of water in canals, dams or reservoirs including for irrigation purposes);²¹⁷ • earthworks undertaken as part of agricultural or domestic cultivation; or repair, sealing or resealing of a road, footpath, driveway or farm track; and • earthworks for which a dispensation has been granted by Transpower NZ Ltd under the NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances. 	

²¹⁶ Transpower NZ Ltd [195.44]

²¹⁷ Transpower NZ Ltd [195.44]

	Advisory Note <ul style="list-style-type: none"> National Grid transmission lines are shown on the planning map. 	
EI-R53	Any quarry or landfill on the same site as a National Grid support structure^{218, 219}	
All Zones	Activity status: RDIS Matters of discretion are restricted to: EI-MD12 – National Grid Notification An application for a restricted discretionary activity under this rule is precluded from being publicly notified, but may be limited notified only to Transpower NZ Ltd where the consent authority considers this is required, absent its written approval.	Activity status when compliance not achieved: N/A
	Advisory Note <ul style="list-style-type: none"> National Grid transmission lines are shown on the planning map. 	

Activity Rules - Managing effects of activities and development on major electricity distribution lines

EI-R54	Earthworks adjacent to a 66kV or 33kV major²²⁰ electricity distribution line	
All Zones	Activity Status: PER Where: 1. <u>earthworks shall be setback at least 6m from the centreline of a major electricity distribution line as shown on the planning map; or²²¹ earthworks shall not exceed 3m in depth between 6m and 10m from the visible outer edge of a foundation of a 66kV or 33kV electricity</u>	Activity status when compliance not achieved: RDIS-NC²²⁷ Matters of discretion are restricted to: EI-MD13 – Major electricity distribution lines ²²⁸ Notification An application for a <u>restricted-discretionary non-complying²²⁹</u> activity under this rule is precluded from being publicly notified, but may be limited notified only to the relevant electricity distribution line operator where the consent authority considers this is required, absent its written approval.

²¹⁸ Transpower NZ Ltd [195.44]

²¹⁹ Federated Farmers of NZ Inc. [414.83]

²²⁰ Mainpower NZ Ltd [249.92]

²²¹ Mainpower NZ Ltd [249.92]

²²⁷ Mainpower [249.93]

²²⁸ Mainpower [249.93]

²²⁹ Mainpower [249.93]

	<p>distribution line pole or tower²²²;</p> <p><u>2. earthworks shall meet the following requirements:</u></p> <p><u>a. be no deeper than 300mm within 2.2m of the foundation of the major electricity distribution line pole, pi-pole or tower; and</u></p> <p><u>b. be no deeper than 0.75m between 2.2m and 6m from the foundation of the major electricity distribution line pole, pi-pole or tower; and</u>²²³</p> <p><u>a.c.</u> shall not destabilise a 66kV or 33kV major²²⁴ electricity distribution line pole, <u>pi-pole</u>²²⁵ or tower; and</p> <p><u>2.3</u> earthworks shall not result in a reduction in the ground to conductor clearance distances below what is required by Table 4 in NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances, unless the requirements of Clause 2.2.3 of NZECP 34:2001 New Zealand Electricity</p>	
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²²² Mainpower NZ Ltd [249.92]

²²³ Mainpower NZ Ltd [249.92]

²²⁴ Mainpower NZ Ltd [249.92]

²²⁵ Mainpower NZ Ltd [249.92]

	<p>Code of Practice for Electricity Safe Distances are met.</p> <p><u>4. the activity shall comply with Earthworks standards EW-S1, EW-S2, EW-S4, EW-S5, EW-S6, and EW-S7</u>²²⁶</p>	
	<p>Exemptions This rule does not apply to:</p> <ul style="list-style-type: none"> • earthworks undertaken as part of agricultural or domestic cultivation; or repair, sealing or resealing of a road, footpath, driveway or vehicle access track; • earthworks that are undertaken by a network utility operator <u>or their approved contractor on behalf of the network utility operator</u>²³⁰ (other than for the reticulation and storage of water in canals, dams or reservoirs including for irrigation purposes); • earthworks for which <u>a dispensation has been granted prior written consent</u>²³¹ by the relevant electricity distribution line operator under the NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances; • vertical holes not exceeding 500mm in diameter provided they: <ul style="list-style-type: none"> ○ are more than 1.5m from the visible outer edge of a pole or stay wire; or ○ are a post hole for a farm fence or horticultural structure more than 6m from the visible outer edge of a tower. ²³² 	
	<p>Advisory Notes</p> <ul style="list-style-type: none"> • 66kV/33kV <u>Major</u>²³³ electricity distribution lines are shown on the planning map. • Vegetation to be planted around electricity distribution lines should be selected and managed to ensure that it will not breach the Electricity (Hazards from Trees) Regulations 2003. • The NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances contains restrictions on the location of activities and development in relation to electricity distribution lines. Activities and development in the vicinity of these lines must comply with NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances. 	
EI-R55	<p>Network utilities within <u>10m-6m</u>²³⁴ of the centre line of a 66kV or 33kV <u>major</u>²³⁵ electricity distribution line</p>	

²²⁶ Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

²³⁰ Mainpower NZ Ltd [249.92]

²³¹ Mainpower NZ Ltd [249.92]

²³² Mainpower NZ Ltd [249.92]

²³³ Mainpower NZ Ltd [249.92]

²³⁴ Mainpower NZ Ltd [249.93]

²³⁵ Mainpower NZ Ltd [249.93]

All Zones	Activity status: PER Where: 1. the network utility complies with the NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances.	Activity status when compliance not achieved: NC <u>Notification</u> <u>An application under this rule is precluded from being publicly notified, but may be limited notified only to the relevant electricity distribution line operator Mainpower NZ where the consent authority considers this is required, absent its written approval.</u> ²³⁶
	Advisory Note <ul style="list-style-type: none"> • 66kV/33kVMajor²³⁷ electricity distribution lines are shown on the planning map. 	
EI-R56	Activities and development (other than earthworks or network utilities) adjacent to a 66kV or 33kV major²³⁸ electricity distribution line	
All Zones	Activity status: NC Where: 1. <u>new, or expansion or extension of existing</u> ²³⁹ activities and development adjacent to a 66kV or 33kV major ²⁴⁰ electricity distribution line involve the following: a. <u>new a</u> sensitive activity <u>and or a new buildings or structure</u> ²⁴¹ (excluding accessory buildings) ²⁴² within <u>6m</u> ²⁴³ of the centreline of a 66kV or 33kV major ²⁴⁴ electricity distribution line or within 10m <u>6m</u> ²⁴⁵ of the	Activity status when compliance not achieved: N/A

²³⁶ Chorus, Spark and Vodafone [62.35]

²³⁷ Mainpower NZ Ltd [249.93]

²³⁸ Mainpower NZ Ltd [249.94]

²³⁹ Mainpower NZ Ltd [249.95]

²⁴⁰ Mainpower NZ Ltd [249.94]

²⁴¹ Mainpower NZ Ltd [249.94]

²⁴² Mainpower NZ Ltd [249.94]

²⁴³ Mainpower NZ Ltd [249.94]

²⁴⁴ Mainpower NZ Ltd [249.94]

²⁴⁵ Mainpower NZ Ltd [249.94]

	<p>visible outer edge of a²⁴⁶ foundation of an associated a pole, pi-pole²⁴⁷ or tower; and/or a-b. does not comply with the requirements of NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances.²⁴⁸</p> <p>b. new fences more than 2.5m high and within 5m of the visible outer edge of a foundation for a 66kV or 33kV electricity distribution line, pole or tower.^{249,250}</p> <p>Notification An application under this rule is precluded from being publicly notified, but may be limited notified only to the relevant electricity distribution line operator where the consent authority considers this is required, absent its written approval.</p>	
	<p>Advisory Notes</p> <ul style="list-style-type: none"> • 66kV/33kV Major²⁵¹ electricity distribution lines are shown on the planning map. • Vegetation to be planted around electricity distribution lines should be selected and managed to ensure that it will not breach the Electricity (Hazards from Trees) Regulations 2003. • The NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances contains restrictions on the location of activities and development in relation to electricity distribution lines. 	

²⁴⁶ Mainpower NZ Ltd [249.94]

²⁴⁷ Mainpower NZ Ltd [249.94]

²⁴⁸ Mainpower NZ Ltd [249.94]

²⁴⁹ Mainpower NZ Ltd [249.94]

²⁵⁰ Mainpower NZ Ltd [249.94]

²⁵¹ Mainpower NZ Ltd [249.94]

	Activities and development in the vicinity of these lines must comply with NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances.
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Matters of Discretion

EI-MD1	<p>Historic heritage, cultural values and the natural environment</p> <ol style="list-style-type: none"> 1. The extent of any adverse landscape and visual effects, including cumulative effects, on ONF, ONL and SAL; or on areas of ONC, VHNC or HNC; or on the natural character of scheduled freshwater bodies setbacks; or on the coastal environment. 2. The extent to which infrastructure has a functional need or operational need for its location, the practicality of avoidance, and the viability of alternative locations, routes, sites, structures and construction methods. 3. The extent of any effects on SNAs or any notable tree and, the nature of any advice provided by an ecologist with respect to SNAs or indigenous vegetation clearance or arborist with respect to notable trees. 4. The extent of any social, economic, environmental and cultural benefits. 5. The extent of any effects on historic heritage, including consideration of the need to impose an accidental discovery protocol or have a cultural or archaeological monitor present (including the resourcing). 6. Outcomes of any consultation undertaken with Te Ngāi Tūāhuriri Rūnanga and Heritage NZ Pouhere Taonga. 7. Likely effectiveness of the mitigation proposed, including any cultural or archaeological monitoring. 8. Any relevant matter set out in NFL-MD1, HH-MD1, TREE-MD1, SASM-MD1, SASM-MD2, SASM-MD3, ECO-MD1, NATC-MD4, CE-MD1, and EW-MD1 - EW-MD8.²⁵²
EI-MD2	<p>Amenity values, location and design</p> <ol style="list-style-type: none"> 1. The practicality and effectiveness of screening the infrastructure, where necessary.²⁵³ 2. For infrastructure attached to other structures, the extent to which the infrastructure is within the visual envelope of an existing structure, and the extent to which the colour and design of the infrastructure corresponds to the existing structure. 3. The extent of consideration of the number, size, location and design of any other existing infrastructure in the vicinity. 4. The extent to which any adverse effects of the infrastructure have been avoided, remedied or mitigated by the route, site and construction method selection. 5. The extent to which the location and size of the infrastructure impacts on the ability of people to access any existing facility or activity on the site.
EI-MD3	<p>Operational considerations</p> <ol style="list-style-type: none"> 1. The extent to which the location and scale of structures proposed are necessary to meet the operational need or functional need of the infrastructure. 2. The extent to which placing infrastructure underground is unreasonable in terms of technical constraints, additional costs or environmental effects.

²⁵² Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]

²⁵³ Transpower NZ Ltd [195.46]

	<ol style="list-style-type: none"> 3. The extent to which there is any risk to, and effects on, the operation, maintenance, upgrading and development of the infrastructure. 4. The extent to which buildings, other structures or vegetation obstruct or otherwise adversely affect radiocommunication pathways, either individually or cumulatively, and the extent to which such adverse effects can be avoided, remedied or mitigated.
EI-MD4	<p>Health and safety</p> <ol style="list-style-type: none"> 1. The extent to which the infrastructure will be located in proximity to any <u>existing</u>²⁵⁴ sensitive activity, and the extent of any effect on human health.
EI-MD5	<p>Electricity generation</p> <ol style="list-style-type: none"> 1. The extent to which the infrastructure will make a meaningful contribution to renewable electricity generation targets. 2. The distance between the infrastructure and residences, public places, or places from which the infrastructure would be visible, and the extent to which the infrastructure would pose significant adverse visual effects on or dominate the surrounding landscape. 3. The extent to which views to the infrastructure are expansive or constrained. 4. The extent to which the design, siting and size of the infrastructure responds to its landscape context. 5. The relative elevation of the infrastructure, in relation to residences, public places or place from which the infrastructure will be visible, including the extent to which the infrastructure is located on a ridgeline or series of ridgelines, or would form part of a skyline. 6. Number, design and extent of wind turbines and associated structures, and predominant orientation in relation to the landform. 7. Effects on topography, landforms and geological forms. 8. Ecological effects including any loss of indigenous flora, fauna, habitat and effects on riparian margins. 9. Effects on adjoining land uses of noise levels, noise modulation, glint/glare, and shadow flicker. 10. Need to locate wind turbines and associated structures where the wind resource is available and the quality of the wind resource. 11. Extent and visibility of roads, access tracks, earthworks and vegetation clearance associated with the construction, operation or maintenance of the infrastructure. 12. For solar cells, as well as the above matters: <ol style="list-style-type: none"> a. the time of day, year, and time per day when adjoining or adjacent sites would be affected by reflected solar glare and the degree of luminescence; b. the number of sites affected and their relative proximity; and c. whether there is a hazard from any glare. 13. The necessity for electricity generation other than renewable electricity generation in the District's electricity supply network, including for resilience.
EI-MD6	<p>Electricity transmission and electricity distribution</p> <p><u>1A. The distance between the infrastructure and residences, public places, or places from which the infrastructure would be visible, and the extent to</u></p>

²⁵⁴ Transpower NZ Ltd [195.48]

	<p><u>which the infrastructure would pose significant adverse visual effects on or dominate the surrounding landscape.</u>²⁵⁵</p> <p><u>1B. Extent and visibility of roads, access tracks, earthworks and vegetation clearance associated with the construction, operation or maintenance of the infrastructure.</u>²⁵⁶</p> <p>1. Extent of effects on access to and the operation, maintenance, upgrade development and structural integrity of the electricity transmission and electricity distribution network.²⁵⁷</p> <p>2. Extent of compliance with the NZECP 34:2001 New Zealand Electricity Code of Practice for Electricity Safe Distances.</p> <p>3. Nature of technical advice provided by infrastructure operators and extent of compliance with it.²⁵⁸</p> <p>4. Risk of electrical hazards affecting public safety and risk of property damage.</p> <p><u>5. The benefits of the related infrastructure.</u>²⁵⁹</p>
EI-MD7	<p>Gas distribution pipeline and fuel systems</p> <ol style="list-style-type: none"> 1. Effects on access to and the operation, maintenance, upgrade, development and structural integrity of gas distribution pipeline and fuel systems. 2. Technical advice provided by infrastructure operators. 3. Hazards affecting public safety and risk of property damage.
EI-MD8	<p>Water supply, wastewater system, and stormwater infrastructure</p> <ol style="list-style-type: none"> 1. The requirements of the ECOP, and any other relevant regulations. 2. The extent to which the proposed servicing will adequately serve its intended purpose. 3. The extent to which existing infrastructure is available to connect to. 4. The extent to which the infrastructure will incorporate existing indigenous vegetation, or proposes new planting of indigenous vegetation naturally occurring within the ecological district within which planting will take place or of ecologically similar origin. 5. The extent of any actual or potential adverse effects on the capacity, efficiency and function of existing infrastructure. 6. The provision for, and protection of, the flood storage and conveyance capacity of waterways. 7. The requirements of AS/NZS 1547:2012 On-site Domestic Wastewater Management. 8. The extent to which interference with public use and enjoyment of open space and recreation land is or can be minimised where infrastructure is located or proposed to be located in Open Space and and Recreation Zones. 9. The extent to which safe and direct access can be provided to enable the maintenance of infrastructure. 10. The extent to which there will be health and safety adverse effects associated with infrastructure and the extent to which these can be avoided, remedied or mitigated.

²⁵⁵ Transpower NZ Ltd [195.49]

²⁵⁶ Transpower NZ Ltd [195.49]

²⁵⁷ Transpower NZ Ltd [195.49]

²⁵⁸ Transpower NZ Ltd [195.49]

²⁵⁹ Transpower NZ Ltd [195.50]

	<p>11. The outcome of any consultation undertaken with the District Council regarding the availability, adequacy or suitability of the water supply, wastewater system or stormwater infrastructure servicing proposed.</p>
EI-MD9	<p>Construction of new, or widening or extension of existing, vehicle access tracks ancillary to infrastructure</p> <ol style="list-style-type: none"> 1. The ability to integrate with the landscape, follow natural contours, and mitigate diverse effects. 2. The extent of <u>non-compliance</u>²⁶⁰ with²⁶¹ <u>Earthworks standards EW-S1 to EW-S7</u>.²⁶² 3. Relevant assessment matters in the Earthworks Chapter <u>and, where resource consent is required by Rules EI-R2 and EI-R23</u>²⁶³, for the²⁶⁴ overlay. 4. <u>The benefits of the related infrastructure</u>.²⁶⁵
EI-MD10	<p>Relocation of existing infrastructure</p> <ol style="list-style-type: none"> 1. The extent to which the existing alignment or location is within a road corridor and relocation over a greater distance is necessary to ensure the infrastructure remains within the road corridor due to road widening or realignment. 2. The extent to which relocation over a greater distance is necessary for safety, access, operational need or functional need reasons. 3. The extent to which relocation would result in the infrastructure being located in the following areas, and relocation over a greater distance is necessary to avoid or minimise encroachment into such areas: <ol style="list-style-type: none"> a. the root protection area of a notable tree; b. places with heritage values; c. Wāhi Tapu sites; and d. SNAs. 4. The benefits of the infrastructure. <u>The benefits of infrastructure</u>.²⁶⁶
EI-MD11	<p>Requirement to provide water supply for firefighting</p> <ol style="list-style-type: none"> 1. The extent to which sufficient firefighting water supply is available to ensure the health and safety of the community, including neighbouring sites. 2. The suitability of the proposed water supply for firefighting purposes (the District Council may obtain a report from the Chief Fire Officer), including the extent of compliance with SNZ PAS 4509:2008 New Zealand Fire Service Firefighting Water Supplies Code of Practice.
EI-MD12	<p>National Grid</p> <ol style="list-style-type: none"> 1. The extent of any impacts on the operation, maintenance, upgrading and development of the National Grid. 2. The risk to the structural integrity of any affected National Grid support structure(s). 3. The extent of any impact on the ability of the National Grid owner (Transpower NZ Ltd) to access the National Grid.

²⁶⁰ Transpower NZ Ltd [195.50]

²⁶¹ Transpower NZ Ltd [195.50]

²⁶² Transpower NZ Ltd [195.50]

²⁶³ Transpower NZ Ltd [195.50]

²⁶⁴ Transpower NZ Ltd [195.50]

²⁶⁵ Transpower NZ Ltd [195.50]

²⁶⁶ Transpower NZ Ltd [195.51]

	4. The risk of electrical hazards affecting public or individual safety, and the risk of property damage.
EI-MD13	<p>Major electricity distribution lines²⁶⁷</p> <p>1. The extent of any impacts on the operation, maintenance, upgrading and development of the electricity distribution network.</p> <p>2. The risk to the structural integrity of any affected electricity distribution line support structure(s).</p> <p>3. The extent of any impact on the ability of the relevant electricity distribution network operator to access the electricity distribution network.</p> <p>4. The risk of electrical hazards affecting public or individual safety, and the risk of property damage.</p>
EI-MD14	<p>Extent of effects</p> <p>1. The extent of <u>non-compliance</u>²⁶⁸ with the relevant standard(s), and the extent of any effects of non-compliance with the relevant standard(s) including cumulative effects.</p> <p>2. <u>The benefits of the infrastructure.</u>²⁶⁹</p>

Definitions

AMATEUR RADIO CONFIGURATIONS	means the antennas, aerials, and associated <u>support structures</u> ²⁷⁰ <u>including</u> poles which are owned and used operated ²⁷¹ by licensed amateur radio operators.
ANCILLARY INFRASTRUCTURE EQUIPMENT	means equipment that must be installed with the main components of infrastructure to enable its operation, including (but not limited to): <u>telemetry equipment</u> ²⁷² , valves, fittings, meters, pipework, power distribution units, microwave units, DC and surge arrestors, cable trays, cables, mounts, fibre access terminals, ducting, cable loops, combiner/junction boxes, remote radio units, pole- or tower-mounted amplifiers, lightning surge units, filters, or similar types of equipment required to support its operation, but excluding antennas, self-contained power units or generators.
<u>ELECTRICITY CABINETS AND KIOSKS</u> ²⁷³	<u>in relation to electricity distribution, means equipment affixed to, or within, the ground that is necessary to operate part of a utility or infrastructure network, including any casing.</u>

²⁶⁷ Mainpower NZ Ltd [249.103]

²⁶⁸ Transpower NZ Ltd [195.53]

²⁶⁹ Transpower NZ Ltd [195.53]

²⁷⁰ NZ Association of Amateur Radio Transmitters, Inc. [157.1]

²⁷¹ NZ Association of Amateur Radio Transmitters, Inc. [157.1]

²⁷² Mainpower NZ Ltd [249.7]

²⁷³ Mainpower NZ Ltd [249.9]

ELECTRICITY DISTRIBUTION LINE	means the lines and associated poles, pi-poles and towers <u>that are not part of the National Grid and are</u> ²⁷⁴ utilised by a network utility operator to distribute electricity.
EMERGENCY SERVICE	means an authority or service that is responsible for the safety and welfare of people and property in the community during times of emergency that include, but are not necessarily limited to, <u>fire service</u> ²⁷⁵ <u>Fire and Emergency New Zealand</u> ²⁷⁶ , ambulance, police, <u>New Zealand Defence Force</u> ²⁷⁷ and emergency co-ordination authorities or services.
INFRASTRUCTURE	has the same meaning as in section 2 of the RMA <u>and also means includes defence facilities</u> ²⁷⁸
INFRASTRUCTURE BUILDING	means a building that serves the same purpose as an infrastructure cabinet but is of a larger scale and is not a habitable building, <u>or an electricity cabinet and kiosk</u> ²⁷⁹ .
INFRASTRUCTURE CABINET	means a casing around equipment that is necessary to operate part of infrastructure but is not an infrastructure building, <u>or an electricity cabinet and or kiosk</u> ²⁸⁰ .
<u>MAJOR ELECTRICITY DISTRIBUTION LINES</u>	<u>means: an overhead electricity distribution line as shown on the planning maps that is built to operate at a voltage of 33kV or greater.</u>
<u>NATIONAL GRID SUBDIVISION CORRIDOR</u> ²⁸¹	<u>means</u> <ul style="list-style-type: none"> • <u>the area 32m either side of the centreline of an above ground 66kV transmission lines on towers (including tubular steel towers where these replace steel lattice towers);</u> • <u>the area 37m either side of the centreline of an above ground 220kV transmissions line;</u> • <u>the area 39m either side of the centreline of an above ground 350kV transmission line.</u>

²⁷⁴ Transpower NZ Ltd [195.5]

²⁷⁵ Fire and Emergency NZ [303.1]

²⁷⁶ Fire and Emergency NZ [303.3]

²⁷⁷ NZ Defence Force [166.1]

²⁷⁸ Mainpower NZ Ltd [249.14]

²⁷⁹ Mainpower NZ Ltd [249.14]

²⁸⁰ Mainpower NZ Ltd [249.15]

²⁸¹ Transpower NZ Ltd [195.18]

<p>NATIONAL GRID YARD</p>	<p>means:</p> <ol style="list-style-type: none"> 1. the area located 12m in any direction from the outer <u>visible</u>²⁸² edge of a <u>foundation of a</u>²⁸³ 220kV or a 350kV²⁸⁴ National Grid transmission line²⁸⁵ support structure; or 2. the area located 10m in any direction from the outer edge of a 66kV National Grid transmission line support structure; and²⁸⁶ 3. the area located 10m either side of the centreline of an overhead 66kV National Grid transmission line; on towers (including tubular steel towers where these replace lattice steel towers); or²⁸⁷ 4. the area located 12m either side of the centreline of any overhead 220kV or 350kV National Grid transmission line on towers (including tubular steel towers where these replace lattice steel towers).²⁸⁸
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<p>REGIONALLY SIGNIFICANT INFRASTRUCTURE</p>	<p>means:</p> <ol style="list-style-type: none"> 1. strategic land transport network and arterial roads; 2. Timaru Airport²⁸⁹ 3. Port of Timaru²⁹⁰ 4. commercial maritime facilities at Kaikoura;²⁹¹ 5. telecommunication and radiocommunication facilities; 6. national, regional and local renewable electricity generation activities of any scale; 7. the electricity transmission and distribution network; 8. sewage collection, treatment and disposal networks; 9. community land drainage infrastructure; 10. community potable water systems; 11. established community-scale irrigation and stockwater infrastructure; 12. transport hubs; 13. bulk fuel supply infrastructure including terminals, wharf lines and pipelines; and 14. strategic infrastructure.
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<p>STRATEGIC INFRASTRUCTURE</p>	<p>means those necessary facilities, services and installations which are of greater than local importance, and can include infrastructure that is nationally significant, such as:</p> <ol style="list-style-type: none"> a. strategic transport networks; b. Christchurch International Airport c. Rangiora Airfield; d. Port of Lyttelton
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²⁸² Transpower NZ Ltd [195.9]

²⁸³ Transpower NZ Ltd [195.9]

²⁸⁴ Transpower NZ Ltd [195.9]

²⁸⁵ Transpower NZ Ltd [195.9]

²⁸⁶ Transpower NZ Ltd [195.9]

²⁸⁷ Transpower NZ Ltd [195.9]

²⁸⁸ Transpower NZ Ltd [195.9]

²⁸⁹ Department of Conservation [419.22]

²⁹⁰ Department of Conservation [419.22]

²⁹¹ Department of Conservation [419.22]

	<ul style="list-style-type: none">e. bulk fuel supply infrastructure including terminals, wharf lines and pipelines;f. defence facilities;g. strategic telecommunications and radiocommunications facilities;h. electricity transmission and distribution network including the National Grid;i. other strategic network utilities.
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APPENDIX B – Recommended amendments to other PDP chapters

In order to distinguish between the recommendations made in the s42A reports, the recommendations that arise from Initial Reply Reports, and the recommendations that arise from this JWS, the following format is used:

Appearance	Explanation
Black text	Text as notified.
Red text with <u>underlining</u> or striketrough	Amendments recommended in section 42A report or reply report.
Blue text with <u>underlining</u> or striketrough	Additional amendments recommended by the Initial Reply Report.
Purple text with <u>underlining</u> or striketrough	Additional amendments experts are recommending as part of a Joint Witness Statement.

The following amendments to the PDP are supported:

TREE Chapter

TREE-R3 - Overhead lines work or maintenance to any Notable Tree

- That TREE-R3 removed from TREE chapter, and merged with EI-R6.

EW Chapter

Earthworks rules amended as follows:

- EW-R1 recommended for deletion with its former conditions replicated in EI-R1 and EI-R2.

CE Chapter

CE-P7 amended as follows:

Notwithstanding CE-P2, recognise and provide for the maintenance, upgrade and development of regionally significant infrastructure that has a functional need or operational need to be located in the coastal environment, ~~where this does not create adverse effects to~~ on the identified coastal natural character areas are minimised.

NFL Chapter

NFL-R9 - Formation of a new road

- That NFL-R9 be moved to the TRAN chapter as TRAN-R24. This aligns with the recommendation in the initial NFL Reply Report (11 August 2023) to remove reference to this rule applying to energy and infrastructure activities.
- That the following be added to the chapeau of NFL-P1, NFL-P3, and NFL-P4:
“, except where the effects of regionally significant infrastructure are managed by EI-P5^[3],”
- That the following be removed NFL-P1(8), NFL-P3(7), and NFL-P4(8):
“in regard to infrastructure, the matters outlined above shall be subject to a consideration of the extent to which the infrastructure may be appropriate under EI-P5.”