

Chapter 11 Utilities and Energy

11.1 Introduction

- a. This introduction is to assist the lay reader to understand how this chapter works and what it applies to. It is not an aid to interpretation in a legal sense.
- b. This chapter relates to a range of utilities that may occur throughout the District. The objectives, policies, rules, standards and assessment criteria seek to provide for the operation, maintenance, upgrading and development of utilities, while also managing the potential adverse effects of utilities on the environment.
- c. The provisions of this chapter also seek to avoid the potential adverse effects of other land uses and developments, including reverse sensitivity effects, on the operation, maintenance, upgrade and development of utilities.
- d. The provisions in this chapter give effect to the [Chapter 3 Strategic Directions Objectives](#).

11.2 Objectives and Policies

11.2.1 Objective - Provision of utilities

- a. Effective and efficient provision of utilities in a manner that is integrated with land use and development in the District.
- b. The continued operation, maintenance, upgrade and development of utilities throughout the District.
- c. An increase in renewable electricity generation activities.

11.2.1.1 Policy - Sustainable water supply

- a. Achieve sustainability and resilience of the District's water supply by encouraging water conservation and the re-use and recycling of water.

11.2.1.2 Policy - Benefits of utilities

- a. Require that new utilities are designed and constructed to maintain function should a significant seismic event or other natural hazard event occur.
- b. Recognise the national, regional and local benefits of the secure and efficient operation of utilities by providing for the operation, maintenance, upgrade and development of utilities.

11.2.1.3 Policy - Renewable electricity generation

- a. Provide for the operation, maintenance, upgrade and development of utilities that derive or generate electricity through renewable sources by:
 - i. recognising the benefits to people and communities of renewable electricity generation;
 - ii. acknowledging the implications and constraints associated with renewable electricity generation activities, including locational, operational and technical matters;
 - iii. promoting small and community scale renewable electricity generation activities, such as from solar and wind energy;
 - iv. reducing the use of finite resources for the generation of electricity; and
 - v. recognising the benefits of reducing greenhouse gas emissions that contribute to climate change

11.2.1.4 Policy - Communication facilities

- a. Recognise the importance of radiocommunications and telecommunication utilities by:
 - i. providing for the development and use of radiocommunications and telecommunication utilities;
 - ii. acknowledging that the management of adverse effects of radiocommunications and telecommunication utilities is constrained by technical and operational requirements; and
 - iii. having regard to design, location and installation method when considering the effects of new or upgraded radiocommunications and telecommunication utilities.

11.2.1.5 Policy - Electricity transmission and electricity distribution

- a. Recognise the national significance of the National Grid by:
 - i. providing for the benefits derived from a secure and efficient electricity transmission network;
 - ii. providing for the operation, maintenance, upgrade and development of the National Grid;
 - iii. acknowledging that the management of adverse effects of the National Grid is constrained by technical and operational requirements; and
 - iv. having regard to the route, site and method selection when considering the effects of new infrastructure or major upgrades.
- b. Provide for ongoing operation, maintenance, upgrade and development of the electricity distribution network, while:
 - i. having particular regard to the post-earthquake repair and resilience requirements of the electricity distribution network.

11.2.1.6 Policy - Fuel facilities, storage and supply systems

- a. Recognise the importance of operating, maintaining and developing a reliable and resilient fuel storage and supply system.

11.2.2 Objective - Adverse effects

- a. The adverse effects of new or upgraded utilities on other activities and the environment are managed, whilst having regard to the technical and operational requirements of utilities.
- b. The protection of utilities from the adverse effects of other activities.

11.2.2.1 Policy - Adverse effects of utilities

- a. To ensure that, where reasonably practicable, and having regard to the benefits of utilities and their locational, technical and operational requirements, new or upgraded utilities:
 - i. are located and designed in a way that minimises adverse effects; and
 - ii. avoid, remedy or mitigate the potential for adverse effects of noise from wind turbines.

11.2.2.2 Policy - Adverse effects on utilities

- a. Avoid adverse effects on utilities, including reverse sensitivity effects, that may compromise their operation, maintenance, upgrade and development.
- b. Avoid adverse effects, including reverse sensitivity effects, on the National Grid and the identified 66kV and 33kV electricity

distribution lines and the Heathcote to Lyttelton 11kV electricity distribution line, through the management of activities within an identified buffer corridor.

11.2.2.3 Policy - Radiofrequency, electric and magnetic fields

- a. Manage the potential adverse effects of radiofrequency, electric and magnetic fields associated with utilities.
- b. Avoid locating sensitive activities where there could be adverse effects from utilities that generate radio frequency, electric and magnetic fields.

11.3 How to interpret and apply the rules

- a. The rules that apply to all utilities in the District are contained in the activity status tables (including activity specific standards) in:
 - i. Rule [11.4](#);
 - ii. Rule [11.5](#);
 - iii. Rule [11.6](#);
 - iv. Rule [11.7](#); and
 - v. Rule [11.8](#).Note: The activity standards in Rule [11.9](#) also apply to all activities listed in Rules [11.4](#) - [11.8](#).
- b. The rules in the zone chapters (13 - 18) do not apply to utilities, unless specified or referenced in this chapter.
- c. The activity status tables and standards in the following chapters also apply to all utilities in the District:
 - [4](#) Hazardous Substances and Contaminated Land;
 - [5](#) Natural Hazards;
 - [6](#) General Rules and Procedures (except for [Sub-chapter 6.6](#) Water Body Setbacks);
 - [7](#) Transport (except for the Transport Zone rules); and
 - [8](#) Subdivision, Development and Earthworks.
- d. [Chapter 5](#) (Natural Hazards) includes specific rules in relation to utilities in areas subject to hazards.
- e. [Chapter 9](#) (Natural and Cultural Heritage) rules do not apply to utilities, unless specified in Chapter 9 and/or in the following clauses:
 - i. The rules in [Sub-chapter 9.1](#) do apply to utilities, except that:
 - A. Rule [9.1.4.1.3](#) RD3 does not apply to indigenous vegetation clearance for the purposes of minor upgrades to utilities provided for by Rule [11.4.1](#) P9 - P15; and
 - B. Rule [9.1.3 h](#). includes some exemptions for maintenance of existing access tracks for utilities, protection of, and access to, existing electricity infrastructure, and the replacement, repair, maintenance and minor upgrading of existing utilities, involving indigenous vegetation clearance.
 - ii. Rule [9.4.4.1](#) applies to the pruning, felling, maintenance or remedial work/treatment to significant trees listed in [Appendix 9.4.7.1](#), as well as to trees in [Appendix 9.4.7.2](#) and other trees in parks, public open space and road corridors protected by Rule [9.4.4.1.1](#) P6, where such work is undertaken by the Council or network utility operators.
 - iii. The following matters of discretion apply:
 - A. Rule [9.1.5.2](#);
 - B. Rules [9.2.8.1](#), [9.2.8.2](#) and [9.2.8.3](#);
 - C. Rule [9.3.6.1](#);
 - D. Rule [9.4.6](#);
 - E. Rule [9.5.5](#), as relevant to the site classification;
 - F. Rule [9.3.6.1](#).
- f. The rules in Chapter 11 that relate to heritage items or heritage settings shall not apply to works undertaken to electrical equipment located within heritage items listed in the Schedule of Significant Historic Heritage (in [Appendix 9.3.7.2](#)) as heritage item numbers 201, 207, 489, 544, 600 and 624, where such works are associated with the replacement, repair, maintenance and minor upgrading of the electricity distribution network.

The rules in Chapter 11 that relate to heritage items shall not apply to the Hagley Park heritage item (number 1395), other than to heritage items and heritage settings individually listed in the Schedule of Significant Historic Heritage in [Appendix 9.3.7.2](#).

- g. In respect of the generation of radiofrequency fields, the [Resource Management \(National Environmental Standards for Telecommunication Facilities\) Regulations 2016](#) (NESTF) controls all telecommunication facilities. The NESTF also includes other controls over a variety of telecommunication facilities and related activities. In certain circumstances, as directed by the NESTF, telecommunication facilities or activities can be controlled by the District Plan. This includes when they are located in places identified by the District Plan as being subject to rules relating to significant flora and fauna, historic heritage, coastal protection and outstanding natural features and landscape.
- h. The [Resource Management \(National Environmental Standards for Electricity Transmission Activities\) Regulations 2009](#) (NESETA) contain a separate code of rules for the operation, maintenance, upgrading, relocation or removal of an existing transmission line, which is part of the National Grid, as defined in the regulations. Except as provided for by the regulation, no rules in this District Plan apply to such activities. Where an activity does not relate to an existing transmission line that is part of the National Grid, or where new transmission lines and associated structures are proposed, the District Plan provisions apply.
- i. Except for a resource consent application within a Site of Ngāi Tahu Cultural Significance identified in [Schedule 9.5.6.1](#), any application for resource consent for a controlled or restricted discretionary activity arising from the rules in this chapter shall not be publicly or limited notified. For any other application for resource consent, the Council may publicly or limited notify the application.
- j. Any resource consent application within a Site of Ngāi Tahu Cultural Significance identified in [Schedule 9.5.6.1](#) need not be publicly notified, but shall be limited notified to the relevant rūnanga (absent their written approval).
- k. Unless otherwise stated, a permitted activity includes operation of that activity.

11.4 Rules - Utilities and energy - General

11.4.1 Permitted activities - General

- a. The activities listed below are permitted activities if they meet the activity specific standards set out in this table and the activity standards in Rule 11.9.
- b. Activities may also be controlled, restricted discretionary, discretionary, non-complying or prohibited as specified in Rules 11.4.2, 11.4.3, 11.4.4, 11.4.4.5, 11.4.6 and 11.5 to 11.8.

	Activity	Activity specific standard
P1	Construction or extension of any access tracks to <u>utilities</u> (except as provided for in Rule 11.4.3 RD6).	<ol style="list-style-type: none"> a. Access tracks shall not be located within or on: <ol style="list-style-type: none"> i. the <u>dripline</u> of a significant tree listed in Appendix 9.4.7.1; ii. a <u>heritage item</u> or <u>heritage setting</u> listed in Appendix 9.3.7.2; or iii. a <u>site of Ngāi Tahu Cultural Significance</u> identified in Schedule 9.5.6.1.
P2	Weather stations and <u>navigation aids</u> .	<ol style="list-style-type: none"> a. New weather stations and <u>navigation aids</u> greater than 1 metre in <u>height</u> or 6m² in area shall not be located within or on: <ol style="list-style-type: none"> i. a Character Area Overlay ii. the <u>dripline</u> of a significant tree listed in Appendix 9.4.7.1; or iii. a <u>heritage item</u> or <u>heritage setting</u> listed in Appendix 9.3.7.2.
P3	Maintenance of a <u>utility</u> and the establishment of associated temporary structures, including vegetation trimming or removal.	Nil
P4	<u>Utility cabinets</u> as part of any <u>utility</u> , excluding any <u>utility cabinet</u> for <u>electricity transmission</u> or <u>electricity distribution</u> provided for under Rule 11.5.1 P2.	<ol style="list-style-type: none"> a. The <u>utility cabinets</u> is located underground: or b. For above ground <u>telecommunication cabinets</u>, or those regulated by the NESTF, the maximum floor area shall be 2m² and the maximum <u>height</u> shall be 2 metres (measured from <u>ground level</u> or the top of a concrete plinth if there is one); c. For above ground <u>utility cabinets</u> other than in standard (b) above, the maximum floor area shall be 10m² and the maximum <u>height</u> shall be 2.5 metres (measured from <u>ground level</u> or the top of a concrete plinth if there is one); and d. For above ground <u>utility cabinets</u> in the Avon River Precinct (Te Papa Ōtākaro) Zone the maximum floor area shall be 5m² and the maximum <u>height</u> shall be 3 metres (measured from <u>ground level</u> or the top of a concrete plinth if there is one).

P5	Utility buildings, excluding any utility buildings for electricity transmission or electricity distribution provided for under Rule 11.5.1 P2.	a. Built form standards for the relevant zone.
P6	Installation of network utilities and ancillary equipment underground.	Nil
P7	New lines and associated utility structures to provide electricity supplies to electric tramway trolley bus or rail systems.	Nil
P8	Utility structures for street lighting.	Nil
P9	Re-location of utilities.	a. The re-location must not be more than 2 metres measured horizontally, except that it may be more than 2 metres but not exceed 5 metres horizontally where it is associated with road widening or it is for safety reasons.
P10	Replacement of an existing utility structure or mast.	<p>a. The diameter or width of the replacement utility structure or mast at its widest point must not exceed twice that of the replaced utility structure or mast at its widest point.</p> <p>b. The height of the replacement utility structure or mast must not exceed whichever of the following is the greater height:</p> <ul style="list-style-type: none"> i. the height of the replaced utility structure or mast; or ii. the applicable maximum height for a building in the relevant zone. <p>c. The replaced utility structure or mast must be removed once the replacement structure or mast is in place.</p>
P11	Addition to an existing utility structure or mast.	<p>a. The combined diameter or width of the existing utility structure or mast plus the addition (at its widest point) must not exceed twice that of the pre-existing utility structure or mast (at its widest point).</p> <p>b. The combined height of the existing utility structure or mast plus the addition must not exceed whichever of the following is the greater:</p> <ul style="list-style-type: none"> i. the pre-existing height of the existing utility structure or mast; or ii. the applicable maximum height for a building in the relevant zone.

<p>P12</p>	<p>Replacement of an existing transmission or distribution tower.</p>	<ul style="list-style-type: none"> a. The replacement tower must not exceed the <u>height</u> of the replaced tower by more than 15%. b. Each side of the replacement tower's footprint must not be longer than the length of any side of the replaced tower's footprint plus 25% of the width of the replaced tower's footprint. c. The replaced tower must be removed once the replacement tower is in place.
<p>P13</p>	<p>An increase in the carrying or operating capacity, efficiency or security of <u>electricity transmission</u> or <u>electricity distribution</u> lines, or <u>telecommunication</u> lines, by the following activities:</p> <ul style="list-style-type: none"> a. the addition of wires, cables, circuits and/or conductors; b. the re-conductoring of the line with higher capacity conductors; c. the re-sagging of conductors; d. the addition of longer or more efficient insulators; e. the addition of earth wires (which may contain <u>telecommunication</u> lines, earthpeaks and lightning rods); f. the replacement of above-ground ducts, cables and pipes up to a 50% increase in diameter; and g. the replacement of the <u>utility</u>. 	<ul style="list-style-type: none"> a. If the <u>utility</u> is replaced, the replacement <u>utility</u> must be of a similar scale and character to the structure that is replaced.
<p>P14</p>	<p>An increase in the carrying or operating capacity, efficiency or security of fuel and gas transmission or distribution lines, including the installation of isolation valves or other <u>ancillary equipment</u>, and the associated replacement of the <u>utility</u>.</p>	<ul style="list-style-type: none"> a. If the <u>utility</u> is replaced, the replacement <u>utility</u> must be of a similar scale and character to the structure that is replaced.
<p>P15</p>	<p>The installation of new mid-span electricity poles to address clearances required by New Zealand Electrical Code of Practice 34:2001.</p>	<p>Nil</p>
<p>P16</p>	<p>Customer connections from and to <u>buildings</u>, facilities, structures and <u>sites</u> used for or serviced by <u>utilities</u>.</p>	<p>Nil</p>

<p>P17</p>	<p>The attachment to existing bridges (except any bridge that is a structure identified in Appendix 9.3.7.2) of a pipe or cable for the conveyance of water, wastewater, stormwater, electricity, gas or fuel, or for <u>telecommunication</u>.</p>	<p>a. Where the bridge is on publicly owned land and standard (b) does not apply, the pipe or cable:</p> <ul style="list-style-type: none"> i. must be attached to the underside of the bridge or incorporated within the bridge structure or within an existing attached cable/pipe structure; or ii. must not exceed 100 mm in diameter. <p>b. Where the bridge is on publicly owned land located within or on Significant Features 3.0, 4.0, 7.0, 8.1-8.3 and 9.1-9.2 (as identified in Appendix 9.2.9.2.3); Travis Wetland/Oruapaeroa (ONF34.0 as identified in Appendix 9.2.9.2.1); and/or across a waterway in a Character Area Overlay, the pipe or cable:</p> <ul style="list-style-type: none"> i. must be attached to the underside of the bridge or incorporated within the bridge structure or within an existing attached cable/pipe structure; or ii. must not exceed 63 mm in diameter, be in a cluster of no more than two pipes, and be either the same colour as the bridge at the point of attachment or be of a matt finish colour with less than 20% reflectivity.
<p>P18</p>	<p><u>Utility</u> equipment within existing <u>buildings</u>.</p>	<p>Nil</p>
<p>P19</p>	<p>Temporary <u>utilities</u> operating for less than 12 months, excluding <u>emergency</u> or back-up electricity generation permitted in Rule 11.6.1 P4.</p>	<ul style="list-style-type: none"> a. Built form standards for the relevant zone. b. The noise standards in Rule 6.1.5 for the relevant zone.

11.4.2 Controlled activities - General

There are no controlled activities.

11.4.3 Restricted discretionary activities - General

- a. The activities listed below are restricted discretionary activities, provided they meet the activity standards in Rule [11.9](#).
- b. Decision to grant or decline consent and impose conditions is restricted to the matters of discretion set out in Rule [11.10](#), as set out in the following table.

<p>Activity</p>	<p>The <u>Council's</u> discretion shall be limited to the following matters:</p>
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<p>RD1</p>	<p>Any activity listed in Rule 11.4.1 P2 that does not meet one or more of the activity specific standards.</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. <u>Within sites of Ngai Tahu cultural significance</u> - Rule 9.5.5, as relevant to the site classification.
<p>RD2</p>	<p>Any activity listed in Rule 11.4.1 P4 that does not meet one or more of the activity specific standards.</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety - Rule 11.10.4
<p>RD3</p>	<p>Any activity listed in Rule 11.4.1 P5 that does not meet one or more of the activity specific standards.</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety – Rule 11.10.4
<p>RD4</p>	<p>Any activity listed in Rule 11.4.1 P17 that does not meet one or more of the activity specific standards.</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2(d) and (e) c. Operational considerations - 11.10.3 d. Electricity generation – 11.10.5(d), (e) and (h) e. Water, wastewater and stormwater – 11.10.6

<p>RD5</p>	<p>Any activity listed in Rule 11.4.1 P1 that does not meet one or more of the activity specific standards.</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Within <u>sites of Ngāi Tahu cultural significance</u> - Rule 9.5.5, as relevant to the site classification
<p>RD6</p>	<ul style="list-style-type: none"> a. Construction of any access tracks associated with new, or major upgrades to (except minor upgrades under Rule 11.4.1 P9 - P15), <u>utilities</u> that are greater than 3 metres in formed width within: <ul style="list-style-type: none"> i. Areas of Outstanding Natural Character identified in Appendix 9.2.9.2.7; ii. Travis Wetland/Oruapaeroa (ONF34.0); iii. Riccarton Bush/Putarikamotu (ONF35.0); iv. Otutaikino Creek (SF2.0); v. Styx River/Puharakekenui (SF3.0); vi. Styx Mill Reserve (SF4.0); vii. West Melton Dry Plains/Okakea (SF5.0); viii. Christchurch Coast/Te Tai o Mahaanui (SF6.0); ix. Waikakariki/Horseshoe Lake (SF7.0); x. Otakaro/Avon River (SF8.1 and SF8.3); or xi. Heathcote River/Opawaho (SF10). b. Construction of any access tracks associated with new, or major upgrades to (except minor upgrades under Rule 11.4.1 P9 - P15), <u>utilities</u> that are greater 5 metres in formed width within: <ul style="list-style-type: none"> i. all Outstanding Natural Features and Outstanding Natural Landscapes identified in Appendices 9.2.9.2.1 and 9.2.9.2.2; ii. all Significant Features and Rural Amenity Landscapes identified in Appendices 9.2.9.2.3 and 9.2.9.2.4; iii. Areas of High and Very High Natural Character identified in Appendix 9.2.9.2.8; or iv. Other Areas of Natural Character in the Coastal Environment identified in Appendix 9.2.9.2.9. 	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Within <u>sites of Ngāi Tahu cultural significance</u> - Rule 9.5.5, as relevant to the site classification

11.4.4 Discretionary activities - General

- a. The activities listed below are discretionary activities, provided they meet the activity standards in Rule [11.9](#).

Activity	
D1	Any activity not provided for as a permitted, controlled, restricted discretionary, non-complying or prohibited activity in Rules 11.4.1 , 11.4.2 , 11.4.3 , 11.4.5 or 11.4.6 or in Rules 11.5 to 11.8

11.4.5 Non-complying activities - General

- a. The activities listed below are non-complying activities.

Activity	
NC1	Any activity that does not meet one or more of the activity standards for <u>utilities</u> in Rule 11.9

11.4.6 Prohibited activities - General

There are no prohibited activities.

11.5 Rules - Electricity transmission and electricity distribution

11.5.1 Permitted activities - Electricity transmission and electricity distribution

- a. The activities listed below are permitted activities if they meet the activity specific standards set out in this table and the activity standards in Rule [11.9](#).
- b. Activities may also be controlled, restricted discretionary, discretionary, non-complying or prohibited as specified in Rules [11.5.2](#), [11.5.3](#), [11.5.4](#), [11.5.5](#), [11.5.6](#), and [11.4](#), [11.6](#) to [11.8](#).

Activity	Activity specific standards
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<p>P1</p>	<p>New <u>electricity transmission and electricity distribution lines</u> and associated structures or equipment.</p>	<p>a. New above ground <u>utilities</u> shall not be located within or on:</p> <ul style="list-style-type: none"> i. a Character Area Overlay ii. an Outstanding Natural Landscape identified in Appendix 9.2.9.2.2; iii. an Outstanding Natural Feature identified in Appendix 9.2.9.2.1; iv. a Significant Feature or Rural Amenity Landscape identified in Appendices 9.2.9.2.3 and 9.2.9.2.4 (except for new <u>electricity distribution lines</u> and associated structures or equipment in Rural Amenity Landscapes); v. an Important Ridgeline identified on the planning maps; vi. an Area of Outstanding, or High and Very High, Natural Character in the Coastal Environment identified in Appendices 9.2.9.2.7 and 9.2.9.2.8; vii. the <u>dripline</u> of a significant tree listed in Appendix 9.4.7.1, viii. a <u>heritage item</u> or <u>heritage setting</u> listed in Appendix 9.3.7.2; or ix. <u>Sites of Ngāi Tahu cultural significance</u> identified in Schedule 9.5.6.1. <p>b. Within a Rural Amenity Landscape identified in Appendix 9.2.9.2.4:</p> <ul style="list-style-type: none"> i. the maximum <u>height</u> of an <u>electricity distribution utility structure</u> shall be 22 metres; and ii. the average <u>height</u> of 10 consecutive <u>electricity distribution utility structures</u> shall be 16 metres. <p>Where the total number of new <u>electricity distribution utility structures</u> installed is less than 10, the existing <u>electricity distribution utility structures</u> immediately preceding the new structures shall be included in the calculation to determine the average <u>height</u>.</p> <p>Advice note:</p> <ol style="list-style-type: none"> 1. Rule 11.5.1 P2 also applies in Rural Amenity Landscapes. <p>c. New <u>utility structures</u> or towers shall not exceed:</p> <ul style="list-style-type: none"> i. 25 metres in <u>height</u> in the Rural, Specific Purpose (Lyttelton Port), Commercial and Industrial Zones, and any Transport Zone <u>adjoining</u> these zones; or ii. 15 metres in <u>height</u> in all other zones (including adjacent Transport Zones)
<p>P2</p>	<p>Transformers, substations, switching stations, kiosks, <u>cabinets</u>, and <u>ancillary buildings</u>.</p>	<p>a. The following built form standard for the relevant zone:</p> <ul style="list-style-type: none"> i. daylight recession planes. <p>b. The total floor area shall not exceed 10m².</p> <p>c. The maximum <u>height</u> shall not exceed 5.5 metres.</p>

11.5.2 Controlled activities - Electricity transmission and electricity distribution

There are no controlled activities.

11.5.3 Restricted discretionary activities - Electricity transmission and electricity distribution

- a. The activities listed below are restricted discretionary activities, provided they meet the activity standards in Rule 11.9.
- b. Decision to grant or decline consent and impose conditions is restricted to the matters of discretion set out in Rule 11.10, as set out in the following table.

	Activity	The Council's discretion shall be limited to the following matters:
RD1	Any activity listed in Rule 11.5.1 P1 that does not meet one or more of the activity specific standards.	<ul style="list-style-type: none"> a. Amenity, location and design – Rule 11.10.2 b. Operational considerations – Rule 11.10.3 c. Health and safety – Rule 11.10.4 d. Heritage and natural environment - Rule 11.10.1 e. Within sites of Ngai Tahu cultural significance - Rule 9.5.5, as relevant to the site classification.
RD2	Any activity listed in Rule 11.5.1 P2 that does not meet one or more of the activity specific standards.	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3

11.5.4 Discretionary activities - Electricity transmission and electricity distribution

There are no discretionary activities.

11.5.5 Non-complying activities - Electricity transmission and electricity distribution

There are no non-complying activities.

11.5.6 Prohibited activities - Electricity transmission and electricity distribution

There are no prohibited activities.

11.6 Rules - Energy

11.6.1 Permitted activities - Energy

- a. The activities listed below are permitted activities if they meet the activity specific standards set out in this table and the activity standards in Rule 11.9.
- b. Activities may also be controlled, restricted discretionary, discretionary, non-complying or prohibited as specified in Rules 11.6.2, 11.6.3, 11.6.4, 11.6.5, 11.6.6, 11.4, 11.5, 11.7 and 11.8.

	Activity	Activity specific standards
P1	Installation and operation of equipment for assessing a site for suitability for <u>renewable electricity generation</u> .	<ul style="list-style-type: none"> a. Equipment shall not be on a <u>site</u> for more than 12 months in any 36 month period. b. The noise standards in Rule 6.1.5 for the relevant zone. c. Equipment shall not be located within: <ul style="list-style-type: none"> i. a Character Area Overlay ii. an Outstanding Natural Landscape identified in Appendix 9.2.9.2.2; iii. an Outstanding Natural Feature identified in Appendix 9.2.9.2.1; iv. a Significant Feature or Rural Amenity Landscape identified in Appendices 9.2.9.2.3 and 9.2.9.2.4; v. an Important Ridgeline identified on the planning maps; vi. an Area of Outstanding, or High and Very High, Natural Character in the Coastal Environment identified in Appendices 9.2.9.2.7 and 9.2.9.2.8; vii. <u>Sites of Ngāi Tahu cultural significance</u> identified in Schedule 9.5.6.1; viii. the <u>dripline</u> of a significant tree listed in Appendix 9.4.7.1; or ix. 20 metres of a <u>heritage item</u> or <u>heritage setting</u> listed in Appendix 9.3.7.2.

<p>P2</p>	<p>Installation and operation of a solar cell or array of cells for the generation and use of electricity.</p>	<p>a. The electricity generated must be either:</p> <ul style="list-style-type: none"> i. solely for use on the <u>site</u> as <u>ancillary</u> to the principal use of the <u>site</u>; or ii. for use on the <u>site</u> as <u>ancillary</u> to the principal use of the <u>site</u> and also for supply to not more than 20 <u>residential units</u> and/or industrial/commercial tenancies - <p>subject to which, any excess may be contributed to the <u>National Grid</u>.</p> <p>b. The cell or array must be either incorporated into or mounted on the roof of a <u>building</u>.</p> <p>c. If the <u>building</u> breaches the daylight recession plane specified by the built standards for the relevant zone, the cell or array may also breach it provided that no cell protrudes more than 20 mm from the roof.</p> <p>d. If the <u>building</u> does not breach the daylight recession plane, the cell or array must not breach it either.</p> <p>e. There must not be a solar concentrator.</p>
<p>P3</p>	<p>Substations, transformers, or <u>buildings ancillary</u> to electricity generation equipment.</p>	<p>a. The daylight recession planes for the relevant zone.</p> <p>b. The total floor area shall not exceed 10 m². and</p> <p>c. The maximum <u>height</u> shall not exceed 5.5 metres.</p>
<p>P4</p>	<p><u>Emergency</u> or back-up electricity generation that is not the primary electricity supply to the <u>site</u>.</p>	<p>a. The noise standards in Rule 6.1.6.2.1 for noise from <u>emergency</u> activities.</p>

<p>P5</p>	<p>Installation and operation of a wind turbine for the generation and use of electricity on a <u>site</u> or <u>sites</u> in Rural or Industrial Zones.</p>	<p>a. The electricity generated must be either:</p> <ul style="list-style-type: none"> i. solely for use on the <u>site</u> as <u>ancillary</u> to the principal use of the <u>site</u>; or ii. for use on the <u>site</u> as <u>ancillary</u> to the principal use of the <u>site</u> and also for supply to not more than 20 <u>residential units</u> (of a Rural or Residential Zone) and/or industrial/commercial tenancies (of an Industrial Zone) - <p>subject to which, any excess may be contributed to the <u>National Grid</u>.</p> <p>b. If standard (a)(i) applies, no more than one wind turbine is to be erected on each <u>site</u>. If standard (a)(ii) applies, the wind turbines may be clustered on one or more of the <u>sites</u>.</p> <p>c. No above ground part of any wind turbine (including the full extent of blades) shall exceed a total <u>height</u> of 20 metres above the ground.</p> <p>d. The <u>road boundary building setbacks</u> and minimum <u>building setbacks</u> from <u>internal boundaries</u> of the relevant Rural or Industrial Zone apply. Compliance with this standard shall be to any above ground part of each wind turbine and the full extent of blades of each wind turbine.</p> <p>e. The noise standards in Rule 6.1.5 for the relevant Rural or Industrial Zone apply.</p> <p>f. No wind turbine shall be located within or on:</p> <ul style="list-style-type: none"> i. an Outstanding Natural Landscape identified in Appendix 9.2.9.2.2; ii. an Outstanding Natural Feature identified in Appendix 9.2.9.2.1; iii. a Significant Feature or Rural Amenity Landscape identified in Appendices 9.2.9.2.3 and 9.2.9.2.4; iv. an Important Ridgeline identified on the planning maps; v. an Area of Outstanding, or High and Very High, Natural Character in the Coastal Environment identified in Appendices 9.2.9.2.7 and 9.2.9.2.8; vi. the <u>dripline</u> of a significant tree listed in Appendix 9.4.7.1; or vii. a <u>heritage item</u> or <u>heritage setting</u> listed in Appendix 9.3.7.2.
<p>P6</p>	<p>Installation and operation of gas and fuel (including LPG) distribution or transmission pipelines, including necessary incidental equipment.</p>	<p>Nil.</p>
<p>P7</p>	<p>Tanks for the storage of gas, including LPG.</p>	<p>a. Built form standards for the relevant zone.</p>

11.6.2 Controlled activities - Energy

There are no controlled activities.

11.6.3 Restricted discretionary activities - Energy

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- a. The activities listed below are restricted discretionary activities, provided they meet the activity standards in Rule 11.9.
- b. Decision to grant or decline consent and impose conditions is restricted to the matters of discretion set out in Rule 11.10, as set out in the following table.

	Activity	The Council's discretion shall be limited to the following matters:
RD1	Any activity listed in Rule 11.6.1 P1 that does not meet one or more of the activity specific standards.	<ol style="list-style-type: none"> a. Amenity, location and design – Rule 11.10.2(a) b. Operational considerations – Rule 11.10.3(a) c. Within sites of Ngāi Tahu Cultural Significance - Rule 9.5.5, as relevant to the site classification
RD2	Any activity listed in Rule 11.6.1 P3 that does not meet one or more of the activity specific standards.	<ol style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety – Rule 11.10.4(a) e. Electricity generation – Rule 11.10.5
RD3	Any activity listed in Rule 11.6.1 P4 that does not meet one or more of the activity specific standards.	<ol style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety – Rule 11.10.4(a) e. Electricity generation – Rule 11.10.5

<p>RD4</p>	<p>Installation and operation of a wind turbine for the generation and use of electricity on a <u>site or sites</u> other than in Rural or Industrial Zones that meet the standards specified in paragraphs a. to f. of this Rule RD4:</p> <ul style="list-style-type: none"> a. If the electricity generated is solely for use on the <u>site(s)</u>, not more than one wind turbine is to be erected on each <u>site</u>; and b. No above ground part of the wind turbine (including the full extent of blades) exceeds a total <u>height</u> of 20 metres above ground; and c. Each wind turbine meets the <u>road boundary building setback</u> and minimum <u>building setback</u> from internal <u>boundaries</u> of the relevant zone; and d. The noise standards for the relevant zone are met; and e. No wind turbine is located within a Character Area Overlay; and f. The electricity generated is either: <ul style="list-style-type: none"> i. solely for use on the <u>site(s)</u> as <u>ancillary</u> to the principal use of the <u>site(s)</u>; or ii. for use on the <u>site or sites</u> as <u>ancillary</u> to the principal use of the <u>site(s)</u> and also for supply to not more than 20 <u>residential units</u> and/or industrial/commercial tenancies – subject to which any excess may be contributed to the <u>National Grid</u>. 	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2(a) c. Operational considerations – Rule 11.10.3(a) d. Health and safety – Rule 11.10.4 e. Electricity generation – Rule 11.10.5(b) and (k) f. Within <u>sites of Ngāi Tahu cultural significance</u> - Rule 9.5.5, as relevant to the site classification
<p>RD5</p>	<p>Any activity listed in Rule 11.6.1 P2 that does not meet one or more of the activity specific standards (b)–(e).</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety – Rule 11.10.4 e. Electricity generation – Rule 11.10.5
<p>RD6</p>	<p>Any activity listed in Rule 11.6.1 P5 that does not meet one or more of the activity specific standards (b) – (f).</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety – Rule 11.10.4 e. Electricity generation – Rule 11.10.5 f. Within <u>sites of Ngāi Tahu cultural significance</u> - Rule 9.5.5, as relevant to the site classification

<p>RD7</p>	<p>Installation and operation of a <u>utility</u> and associated pipes and structures for the generation of energy using waste products.</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety – Rule 11.10.4 e. Electricity generation – Rule 11.10.5 f. Water, wastewater and stormwater – Rule 11.10.6
<p>RD8</p>	<p>Any activity listed in Rule 11.6.1 P7 that does not meet one or more of the activity specific standards.</p>	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety – Rule 11.10.4

11.6.4 Discretionary activities - Energy

- a. The activities listed below are discretionary activities, provided they meet the activity standards in Rule [11.9](#).

<p>Activity</p>	
<p>D1</p>	<p>Any activity listed in Rule 11.6.1 P2 that does not meet activity specific standard (a) where:</p> <ul style="list-style-type: none"> a. The activity occurs in the Rural, Commercial (other than in the <u>Central City</u>), Industrial or Specific Purpose (Ōtākaro Avon River Corridor) Zones and does not occur within the area covered by the Christchurch International Airport Protection Surfaces; and b. Any solar concentrator does not reflect light into a Residential Zone, an Edge Housing Area Overlay or Trial Housing Area Overlay identified in Appendix 13.14.6.1, or a site listed in Appendix 13.14.6.2 which is in private ownership and has a Residential alternative Zone, for more than 15 hours per annum. c. The solar cell or concentrator is not located within: <ul style="list-style-type: none"> i. an Outstanding Natural Landscape identified in Appendix 9.2.9.2.2; ii. an Outstanding Natural Feature identified in Appendix 9.2.9.2.1; iii. a Significant Feature or Rural Amenity Landscape identified in Appendices 9.2.9.2.3 and 9.2.9.2.4; iv. an Important Ridgeline identified on the planning maps; v. an Area of Outstanding, or High and Very High, Natural Character in the Coastal Environment identified in Appendices 9.2.9.2.7 and 9.2.9.2.8; vi. the <u>dripline</u> of a significant tree listed in Appendix 9.4.7.1; or vii. 20 metres of a <u>heritage item</u> or <u>heritage setting</u> listed in Appendix 9.3.7.2.

D2	<p>Any activity listed in Rule 11.6.1 P5 that does not meet activity specific standard (a) where:</p> <ol style="list-style-type: none"> a. The activity occurs in the Rural Port Hills, Rural Templeton, Rural Urban Fringe, Rural Waimakariri, Rural Quarry or Rural Banks Peninsula Zones; and b. Noise levels comply with the limits prescribed in NZS6808:2010 (Acoustics – Wind Farm Noise). Noise levels shall be measured and assessed in accordance with NZS6808:2010. c. The wind turbine is not located within: <ol style="list-style-type: none"> i. an Outstanding Natural Landscape identified in Appendix 9.2.9.2.2; ii. an Outstanding Natural Feature identified in Appendix 9.2.9.2.1; iii. a Significant Feature or Rural Amenity Landscape identified in Appendices 9.2.9.2.3 and 9.2.9.2.4; iv. an Important Ridgeline identified on the planning maps; v. an Area of Outstanding, or High and Very High, Natural Character in the Coastal Environment identified in Appendices 9.2.9.2.7 and 9.2.9.2.8; vi. the <u>dripline</u> of a significant tree listed in Appendix 9.4.7.1; or vii. 20 metres of a <u>heritage item</u> or <u>heritage setting</u> listed in Appendix 9.3.7.2.
D3	<p>Non-renewable electricity generation:</p> <ol style="list-style-type: none"> a. In Industrial Zones; and b. Where the <u>utility</u> complies with the rules in Chapter 16 (Industrial) and noise rules in Chapter 6 (General Rules).

11.6.5 Non-complying activities - Energy

- a. The activities listed below are non-complying activities.

Activity	
NC1	Any activity listed in Rule 11.6.1 P2 that does not meet activity specific standard (a) and is not provided for in Rule 11.6.4 D1 .
NC2	Any activity listed in Rule 11.6.1 P5 that does not meet activity specific standard (a) and is not provided for in Rule 11.6.4 D2 .
NC3	Non-renewable electricity generation activities not provided for in Rule 11.6.4 D3 .

11.6.6 Prohibited activities - Energy

There are no prohibited activities.

11.7 Rules - Communication facilities

11.7.1 Permitted activities - Communication facilities

- a. The activities listed below are permitted activities if they meet the activity specific standards set out in this table and the activity standards in Rule [11.9](#).
- b. Activities may also be controlled, restricted discretionary, discretionary, non-complying or prohibited as specified in Rules [11.7.2](#), [11.7.3](#), [11.7.4](#), [11.7.5](#), [11.7.6](#), [11.4](#), [11.5](#), [11.6](#), and [11.8](#).

Activity	Activity specific standards
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<p>P1</p>	<p>Freestanding communication <u>utilities</u>.</p>	<p>a. Freestanding communication <u>utilities</u> (other than where located in a Transport Zone) shall not be located within or on:</p> <ul style="list-style-type: none"> i. a Character Area Overlay ii. an Outstanding Natural Landscape identified in Appendix 9.2.9.2.2; iii. an Outstanding Natural Feature identified in Appendix 9.2.9.2.1; iv. a Significant Feature or Rural Amenity Landscape identified in Appendices 9.2.9.2.3 and 9.2.9.2.4; v. an Important Ridgeline identified on the planning maps; vi. an Area of Outstanding, or High and Very High, Natural Character in the Coastal Environment identified in Appendices 9.2.9.2.7 and 9.2.9.2.8; or vii. a <u>heritage item</u> or <u>heritage setting</u> listed in Appendix 9.3.7.2; <p>and</p> <p>Freestanding communication <u>utilities</u> shall not be located within:</p> <ul style="list-style-type: none"> viii. the <u>dripline</u> of a significant tree listed in Appendix 9.4.7.1. <p>b. Any <u>utility structure</u> shall not exceed:</p> <ul style="list-style-type: none"> i. 25 metres in <u>height</u> (excluding lightning rods) and any head frame shall be no greater than 6 metres in diameter at its widest point in the Transport, Specific Purpose (Port), Industrial, Commercial or Rural Urban Fringe Zones; or ii. 35 metres in <u>height</u> (excluding lightning rods) and any head frame shall be no greater than 6 metres in diameter at its widest point in the Rural Waimakariri Zone; or iii. 30 metres in <u>height</u> (excluding lightning rods) and any head frame shall be no greater than 6 metres in diameter at its widest point in the Transport, Industrial, Commercial, or Rural Urban Fringe Zones, where two or more network utility operators utilise the same utility structure; or iv. 40 metres in <u>height</u> (excluding lightning rods) and any head frame shall be no greater than 6 metres in diameter at its widest point in the Rural Waimakariri Zone where two or more <u>network utility operators</u> utilise the same <u>utility structure</u>; or v. 20 metres in <u>height</u> (excluding lightning rods) and 1 metre in diameter above a <u>height</u> of 6 metres, except for any head frame which shall be no greater than 6 metres in diameter at its widest point in any other zone. <p>c. Any dish <u>antenna</u> shall be less than 1.8 metres in diameter in Industrial, Commercial or Rural Zones, and less than 0.8 metres in any other zone.</p> <p>d. Any other antenna shall not exceed a surface area of 1.5 m². The area of any panel (largest face) for any other <u>antennas</u> must not be more than 1.5m².</p> <p>(Plan Change 5H Council Decision)</p>
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<p>P2</p>	<p>Communication <u>utilities</u> attached to a <u>building</u>, including <u>ancillary equipment</u>.</p>	<p>a. Any dish <u>antenna</u> shall be less than 1.8 metres in diameter in the Industrial, Commercial or Rural Zones, and less than 0.8 metres in diameter in any other zone.</p> <p>b. Any other antenna shall not exceed a surface area of 1.5 m². The area of any panel (largest face) for any other <u>antennas</u> must not be more than 1.5m². (Plan Change 5H Council Decision)</p> <p>c. Any <u>antenna</u> shall not exceed a <u>height</u> of 3 metres from the point of attachment or the <u>height</u> limit for the relevant zone, whichever is the greater.</p>
<p>P3</p>	<p><u>Amateur radio configurations</u>.</p>	<p>a. The top of any <u>utility structure</u> is less than 20 metres above <u>ground level</u>.</p> <p>b. Any <u>antenna</u> other than a simple wire dipole shall meet the following criteria:</p> <ol style="list-style-type: none"> i. Any of the elements making up the <u>antenna</u> shall not exceed 0.08m in diameter and 14.9m in length; ii. For horizontal HF yagi or loop <u>antenna</u> the boom length shall not exceed 13m; iii. No part of the <u>antenna</u>, <u>utility structure</u> or guy wires shall overhang the property <u>boundary</u>; and iv. Simple wire dipoles shall not overhang property <u>boundaries</u>. <p>c. Any dish <u>antenna</u> shall:</p> <ol style="list-style-type: none"> i. Be less than 5 metres in diameter/width; ii. Be pivoted less than 4 metres above the ground; and iii. If located in any Residential Zone, meet the minimum <u>setback</u> and daylight recession plane standards in Chapter 14.
<p>P4</p>	<p><u>Communication kiosks</u>.</p>	<p>a. The maximum <u>height</u> of a <u>communication kiosk</u> shall be 2.5 metres (excluding any small cell or <u>antenna</u> permitted in clause (b) below), and the maximum volume shall be 2.4 m³.</p> <p>b. Any attached small cell or <u>antennas</u> shall be less than 1 metre in <u>height</u> and shall not have a horizontal dimension greater than the horizontal dimensions of the <u>communication kiosk</u>.</p>
<p>P5</p>	<p>Installation of above ground lines and <u>utility structures</u> for communication <u>utilities</u>.</p>	<p>a. New <u>utilities</u> shall not be located within a Character Area Overlay.</p> <p>b. The <u>utility structures</u> shall not exceed a <u>height</u> of:</p> <ol style="list-style-type: none"> i. 25 metres in the Rural, Specific Purpose (Lyttelton Port), Commercial, Industrial and any Transport Zones <u>adjoining</u> these zones; or ii. 15 metres in all other zones (including adjacent Transport Zones).

11.7.2 Controlled activities - Communication facilities

There are no controlled activities.

11.7.3 Restricted discretionary activities - Communication facilities

- a. The activities listed below are restricted discretionary activities, provided they meet the activity standards in Rule 11.9

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- b. Decision to grant or decline consent and impose conditions is restricted to the matters of discretion set out in Rule 11.10, as set out in the following table.

	Activity	The Council's discretion shall be limited to the following matters:
RD1	Any activity listed in Rule 11.7.1 P1 that does not meet one or more of the activity specific standards.	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3
RD2	Any activity listed in Rule 11.7.1 P2 that does not meet one or more of the activity specific standards.	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3
RD3	Any activity listed in Rule 11.7.1 P3 that does not meet one or more of the activity specific standards.	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3
RD4	Any activity listed in Rule 11.7.1 P4 that does not meet one or more of the activity specific standards.	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3
RD5	Any activity listed in Rule 11.7.1 P5 that does not meet one or more of the activity specific standards.	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3

11.7.4 Discretionary activities - Communication facilities

There are no discretionary activities.

11.7.5 Non-complying activities - Communication facilities

There are no non-complying activities.

11.7.6 Prohibited activities - Communication facilities

There are no prohibited activities.

11.8 Rules - Water, wastewater and stormwater

11.8.1 Permitted activities - water, wastewater and stormwater

- a. The activities listed below are permitted activities if they meet the activity specific standards set out in this table and the activity standards in Rule 11.9.
- b. Activities may also be controlled, restricted discretionary, discretionary, non-complying or prohibited as specified in Rules 11.8.2, 11.8.3, 11.8.4, 11.8.5, 11.8.6 and 11.4 to 11.7.

	Activity	Activity specific standards
P1	Water, wastewater and stormwater connections to public networks.	<p>Nil.</p> <p>Advice note:</p> <ol style="list-style-type: none"> 1. Refer to the Infrastructure Design Standard and/or Construction Specification Standard as published by the <u>Council</u>. 2. Connections to the <u>Council's</u> reticulated water supply are applied for through the "WS1 Water Connection Application form". 3. Connections to the <u>Council's</u> reticulated stormwater and wastewater systems are through the building consent process. Connections are to be installed by a <u>Council</u> Authorised Drain Layer.
P2	Construction or operation of structures for the conveyance, treatment, storage or retention / detention of water, wastewater and stormwater by the <u>Council</u> or a <u>network utility operator</u> .	<p>a. Built form standards for the relevant zone.</p> <p>Advice note:</p> <ol style="list-style-type: none"> 1. Refer to the Infrastructure Design Standard and/or Construction Specification Standard as published by the <u>Council</u>. 2. Refer also to relevant Stormwater Management Plans and Integrated Catchment Management Plans.
P3	Structures and equipment <u>ancillary</u> to the maintenance and operation of water, wastewater and stormwater facilities.	<p>Nil.</p> <p>Advice note:</p> <ol style="list-style-type: none"> 1. Refer to the Infrastructure Design Standard and/or Construction Specification Standard as published by the <u>Council</u>. 2. Refer also to the Canterbury Regional Council's Erosion and Sediment Control Guide. 3. Works should be undertaken in accordance with the best practicable option to minimise discharge. For guidance refer to the sediment control guidelines prepared by the Canterbury Regional Council. Works may also require consent from Canterbury Regional Council.

P4	Rainwater collection systems.	<p>a. Water tanks shall meet Zone provisions for <u>height and road boundary building setbacks</u> and minimum <u>building setbacks from internal boundaries</u>.</p> <p>Advice note:</p> <p>1. The installation of rainwater tanks may require building consent.</p>
P5	Solar hot water systems.	<p>Nil.</p> <p>Advice note:</p> <p>1. The installation of solar hot water systems may require building consent.</p>

11.8.2 Controlled activities - water, wastewater and stormwater

There are no controlled activities.

11.8.3 Restricted discretionary activities - water, wastewater and stormwater

- a. The activities listed below are restricted discretionary activities, provided they meet the activity standards in Rule 11.9.
- b. Decision to grant or decline consent and impose conditions is restricted to the matters of discretion set out in Rule 11.10, as set out in the following table.

	Activity	The Council's discretion shall be limited to the following matters:
RD1	Any activity listed in Rule 11.8.1 P2 that does not meet the activity specific standard.	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – 11.10.3 d. Health and safety – 11.10.4 e. Water, wastewater and stormwater – Rule 11.10.6 f. Within <u>sites of Ngāi Tahu cultural significance</u> - Rule 9.5.5, as relevant to the site classification
RD2	Any activity listed in Rule 11.8.1 P4 that does not meet the activity specific standard.	<ul style="list-style-type: none"> a. Heritage and natural environment – Rule 11.10.1 b. Amenity, location and design – Rule 11.10.2 c. Operational considerations – Rule 11.10.3 d. Health and safety – Rule 11.10.4 e. Water, wastewater and stormwater – Rule 11.10.6(a) f. Within <u>sites of Ngāi Tahu cultural significance</u> - Rule 9.5.5, as relevant to the site classification

RD3	Use of greywater collection systems (excluding those permitted by Rule 11.8.1 P2).	a. Water, wastewater and stormwater – Rule 11.10.6(a), (b) and (k) Advice note: 1. The installation of greywater systems may require building consent. 2. The use of greywater may require resource consent from the Canterbury Regional Council.
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11.8.4 Discretionary activities - water, wastewater and stormwater

There are no discretionary activities.

11.8.5 Non-complying activities - water, wastewater and stormwater

There are no non-complying activities.

11.8.6 Prohibited activities - water, wastewater and stormwater

There are no prohibited activities.

11.9 Rules - Activity standards - All activities

- a. The following activity standards shall be met by all activities in Rules 11.4 – 11.8.

	Applicable to	Activity standard
a.	Any <u>utilities</u> that emit radiofrequency fields, which are not regulated by an amateur radio licence.	<p>a. The <u>utility</u> operator must plan and operate the <u>utility</u> in accordance with NZS2772: Part 1:1999 Radiofrequency Fields Part 1 - Maximum Exposure Levels - 3 kHz to 300 GHz.</p> <p>b. The <u>utility</u> operator must ensure that the <u>Council</u> receives, before the <u>utility</u> becomes operational, the following:</p> <ul style="list-style-type: none"> i. written or electronic notice of where the <u>utility</u> is or where it is proposed to be; and ii. a report that - <ul style="list-style-type: none"> A. is prepared in accordance with AS/NZS 2772.2:2011: Radiofrequency Fields Part 2: Principles and methods of measurement and computation - 3 kHz to 300 GHz and B. takes account of exposures arising from other <u>utilities</u> in the vicinity of the <u>utility</u>; and C. predicts whether the radiofrequency field levels at places in the vicinity of the <u>utility</u> that are reasonably <u>accessible</u> to the general public will comply with NZS 2772: Part 1:1999 Radiofrequency Fields Part 1 - Maximum Exposure Levels - 3 kHz to 300 GHz. <p>c. If the prediction referred to in standard (b) is that the radiofrequency field levels will reach or exceed 25% of the maximum level authorised by NZS 2772: Part 1:1999 Radiofrequency Fields Part 1 – Maximum Exposure Levels – 3 kHz to 300 GHz for exposure of the general public, the <u>utility</u> operator must ensure that the <u>Council</u> receives, within 3 months of the <u>utility</u> becoming operational, a report that -</p> <ul style="list-style-type: none"> i. is prepared in accordance with AS/NZS 2772.2:2011: Radiofrequency Fields Part 2: Principles and methods of measurement and computation - 3 kHz to 300 GHz; and ii. provides evidence that the actual radiofrequency field levels at places in the vicinity of the <u>utility</u> that are reasonably <u>accessible</u> to the general public comply with NZS 2772: Part 1:1999 Radiofrequency Fields Part 1 - Maximum Exposure Levels - 3 kHz to 300 GHz. <p>Advice note:</p> <ol style="list-style-type: none"> 1. The exposure assessment in standard (b) is not required to include an evaluation of the uncertainty in that assessment.

<p>b.</p>	<p>The operation of any <u>utility</u> that emits power frequency electric and magnetic fields.</p>	<p>a. Exposures to power frequency electric and magnetic fields in areas normally <u>accessible</u> to the public shall not exceed 5 kilovolts per metre and 200 microtesla as measured and assessed in accordance with the International Commission on Non-Ionising Radiation Protection Guidelines for Limiting Exposures to Time Varying Electric and Magnetic Fields (1Hz – 100kHz).</p> <p>Advice note:</p> <p>1. The Ministry of Health 2013 guidelines “Electric and Magnetic Fields and Your Health: Information on electric and magnetic fields association with <u>transmission lines</u>, distribution lines and electrical equipment – 2013 edition”, in addition to compliance with the exposure limits in standard (a), recommend:</p> <ul style="list-style-type: none"> • the implementation of very low cost measures to reduce exposures when constructing new electrical infrastructure, and; • when contemplating changes to existing sources, consideration of field reduction alongside safety, reliability and economic aspects.
<p>c.</p>	<p>Any <u>utilities</u> within 12 metres of the centre line of a 110kV or a 220 kV <u>National Grid transmission line</u>, or within 10 metres of the centre line of a 66 kV <u>National Grid transmission line</u>.</p>	<p>a. The <u>utility</u> shall comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZCEP 34:2001).</p> <p>b. The <u>utility</u> shall not be for the reticulation or storage of water for irrigation purposes.</p>
<p>d.</p>	<p>Any <u>utilities</u> within 10 metres of the centre line of a 66kV <u>electricity distribution line</u> or within 5 metres of the centre line of a 33kV or the 11kV Heathcote to Lyttelton <u>electricity distribution line</u>.</p>	<p>a. The <u>utility</u> shall comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZCEP 34:2001).</p>

11.10 Rules - Matters of discretion

- a. When considering applications for restricted discretionary activities, the Council's discretion to grant or decline consent, or impose conditions, is restricted to the matters over which discretion is restricted in the relevant rule and as described below.

11.10.1 Heritage and natural environment

- a. Any cumulative visual effects arising from the utility, particularly in relation to telecommunication facilities and energy generation facilities.
- b. If any activity is proposed within a Character Area Overlay, any relevant assessment matters in [Chapter 14](#).
- c. In relation to utilities or access tracks within a Site of Ecological Significance listed in Schedule A of [Appendix 9.1.6.1](#), the matters of discretion in [Rule 9.1.5.2](#).
- d. In relation to utilities or access tracks within:
 - i. an Outstanding Natural Landscape identified in [Appendix 9.2.9.2.2](#);
 - ii. an Outstanding Natural Feature identified in [Appendix 9.2.9.2.1](#);
 - iii. a Significant Feature or Rural Amenity Landscape identified in [Appendices 9.2.9.2.3](#) and [9.2.9.2.4](#);
 - iv. an Important Ridgeline identified on the planning maps; or
 - v. an Area of Outstanding, or High and Very High, Natural Character in the Coastal Environment identified in [Appendices 9.2.9.2.7](#) and [9.2.9.2.8](#),
the matters of discretion in [Rules 9.2.8.1](#), [9.2.8.2](#) and [9.2.8.3](#).
- e. In relation to utilities within, or on, a heritage item or heritage setting listed in [Appendix 9.3.7.2](#), the matters of discretion in [Rule 9.3.6](#).
- f. In relation to utilities within the dripline of a significant tree listed in [Appendix 9.4.7.1](#), the matters of discretion in [Rule 9.4.6](#).
- g. In relation to utilities within a site of Ngāi Tahu cultural significance identified in [Appendix 9.5.6](#), the matters set out in [Rule 9.5.5](#) as relevant to the site classification:
 - i. [Rule 9.5.5.1](#) - Wāhi Tapu / Wāhi Taonga, Mahaanui Iwi Management Plan Silent Files and Kaitōrete Spit;
 - ii. [Rule 9.5.5.2](#) - Ngā Tūranga Tūpuna; and
 - iii. [Rule 9.5.5.3](#) - Ngā Wai.

11.10.2 Amenity, location and design

- a. The practicality and effectiveness of screening the utility;
- b. In respect of utilities attached to buildings, whether the utility is placed within the visual envelope of an existing building, and the extent to which the colour and design of the facility corresponds to the existing building;
- c. Consideration of the number and size of any other existing utility on the building;
- d. The extent to which any adverse effects of the utility have been avoided, remedied or mitigated by the route, site and method selection; and
- e. Whether the location and size of the utility impacts on the ability of people to access any facility, building, shop, recreation facility or other activity on a site.

11.10.3 Operational considerations

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- a. The extent to which the scale and height of buildings or other structures proposed are necessary to meet the technical, operational or functional requirements of the utility;
- b. Consideration of soil stability, erosion, and geotechnical matters on the selection of the route or site of a utility and the extent to which these matters can be mitigated;
- c. Whether placing lines or other utilities underground is unreasonable in terms of additional costs or environmental effects; and
- d. Any risk to, and effects on, the operation, maintenance, upgrading and development of transmission lines, including the National Grid.

11.10.4 Health and safety

- a. Whether the utility will be located in close proximity to any sensitive activity and the extent of any effect on human health.

11.10.5 Electricity generation

- a. Whether the utility will make a meaningful contribution to renewable electricity generation targets set by central government (90% by 2025) and the Council's Climate Smart Strategy 2010 - 2025.
- b. The distance between the utility and residences, public places, or places from which the utility would be visible, and whether the utility would impose adverse visual effects on or dominate the surrounding landscape, including but not limited to Outstanding Natural Landscapes identified in [Appendix 9.2.9.2.2](#) and Sites of Ecological Significance listed in Schedule A of [Appendix 9.1.6.1](#);
- c. Whether views to the utility are expansive or constrained;
- d. The extent to which the siting and size of the utility responds to its landscape context;
- e. The relative elevation of the utility in relation to residences, public places or place from which the utility will be visible, including whether the utility is located on a ridgeline or series of ridgelines, or would form part of a skyline;
- f. Number, design and extent of wind turbines and associated structures, and predominant orientation in relation to the landform;
- g. The effects on natural topography, landforms and geological forms;
- h. The ecological effects including any loss of indigenous flora, fauna, habitat and riparian margins, including through birdstrike;
- i. The extent of and effect on adjoining land uses of noise levels, noise modulation, glint/glare, and shadow flicker;
- j. The need to locate wind turbines and associated structures where the wind resource is available and the quality of the wind resource;
- k. The extent and visibility of roads, earthworks and vegetation clearance associated with the construction, operation or maintenance of the utility;
- l. For solar cells, in addition to the above:
 - i. the time of day, year, and time per day when adjoining or adjacent properties would be affected by reflected solar glare and the degree of luminance;
 - ii. the number of properties affected and their relative proximity; and
 - iii. whether there is any glare hazard.
- m. The necessity for non-renewable electricity generation elements in the District's electricity supply network, including for building resilience.

11.10.6 Water, wastewater and stormwater

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- a. The requirements of the Infrastructure Design Standard and/or Construction Standard Specifications as published by the Council;
- b. Whether the proposed servicing will serve its intended purpose;
- c. Whether the utility utilises the existing or proposed topography and proposed networks to convey surface water by way of gravity systems;
- d. Whether provision is made for safe access for maintenance of surface water infrastructure;
- e. Whether the utility incorporate existing or new appropriate indigenous vegetation, recognising the ability of particular species to absorb water, and to which planting reflects Ngāi Tahu history and identity associated with specific place;
- f. The suitability of the proposed water supply for fire-fighting purposes (the Council may obtain a report from the Chief Fire Officer), including the extent of compliance with the [SNZ PAS:4509:2008](#) in respect of the health and safety of the community, including neighbouring properties;
- g. The extent to which the proposed surface water management systems are consistent with the relevant Council [Stormwater Management Plan](#) or [Integrated Catchment Management Plan](#);
- h. Any adverse effects on the functioning or values of the existing network of drains, springs, waterways and ponding areas;
 - i. The provision for, and protection of, the flood storage and conveyance capacity of waterways.
 - j. Whether the proposed ponding area will be attractive to birdlife that might pose a birdstrike risk to the operation of Christchurch International Airport Limited; and
- k. The requirements of AS/NZS 1547:2000.

