

Generation update – May 2019

This document was prepared using information available in the public domain; it does not use any material supplied by generators under confidentiality. All information presented is subject to uncertainty and will change as more data comes to light.

The document comprises the following tables:

- Table 1 presents a high level summary of the current generation projects sorted by status, owner, generation type and region.
- Table 2 shows the same list of projects, sorted by earliest possible commissioning date.
- Table 3 lists the details of the projects sorted by generation type.

Generation projects with capacity less than 5 MW are not shown. Where ranges are provided for capacity, median values are used for statistical purposes.

It should be borne in mind that some types of new projects (particularly thermal peakers) can be consented and constructed relatively rapidly. The projects listed in this document, therefore, should not be seen as an exhaustive list of all generation that could be constructed in the next few years.

Tables 2 and 3 show the projects deemed “consent under appeal” in Table 1. The projects are divided into two groups, those declined resource consent prior to appeal and those approved resource consent prior to appeal.

Anyone who would like to provide updated information may contact emi@ea.govt.nz with "Generation projects" in the subject line.

Status	
Applied for consent	390
Consent under appeal	6.5
Consented	2824
On hold	930
Under construction	0

Owners	
Contact Energy	267
Genesis Energy	860
Meridian Energy	761
Mercury	462
Trustpower	116.5
Others	1684

Generation types	
Diesel	23
Gas	460
Geothermal	338
Hydro	512.5
Marine	200
Wind	2617

Regions	
Auckland	18
Bay Of Plenty	135
Canterbury	474
Hawkes Bay	276.5
Manawatu	428
Marlborough	70.5
Northland	253
Otago	187.5
Southland	240
Taranaki	235
Waikato	708
Wellington	1019
West Coast	106
Total Capacity	4150.5

Table 1. Summary of potential projects: capacities in MW

Generation type	Region	Location / Name of Project	Owned by	Capacity (MW)	Earliest commission date	Status
Hydro	Otago	Upper Fraser	Pioneer Generation	6.5	2019	Consented
	Marlborough	Wairau	Trustpower	70.5	2020	Consented
Gas	Taranaki	Junction Road	Nova Energy	100	2020	Consented
Geothermal	Waikato	Tauhara II	Contact Energy	250	2020	Consented
Wind	Bay Of Plenty	Kaimai	Ventus	100	2020-2021	Applied for consent
	Manawatu	Turitea	Mercury	303	2021	Consented
Geothermal	Northland	Ngawha expansion	Top Energy	53	2026	Consented
Wind	Taranaki	Waverley	Tilt Renewables	135	2020-2027	Consented
Gas	Waikato	Waikato Power Plant	Nova Energy	360	2021-2027	Consented
Wind	Wellington	Castle Hill	Genesis Energy	860	2023-2033	Consented
Diesel	Canterbury	Belfast	Orion	11.5	n/a	On hold
	Canterbury	Bromley	Orion	11.5	n/a	On hold
Geothermal	Bay of Plenty	Rotoma	Rotoma No. 1 Corporation	35	n/a	Applied for consent
Hydro	Canterbury	Rakaia River	Ashburton Com. Water Trust	16	n/a	Consented
	Canterbury	Balmoral Hydro	Meridian Energy	15	n/a	Applied for consent
	Canterbury	Lake Pukaki	Meridian Energy	35	n/a	On hold
	Canterbury	North Bank Tunnel	Meridian Energy	240	n/a	Applied for consent
	Hawkes Bay	Ruataniwha Plains	Hawkes Bay Regional Inv Co	6.5	n/a	Consent under appeal
	Otago	Hawea Control Gate Retrofit	Contact Energy	17	n/a	On hold
	West Coast	Stockton Plateau	Hydro Developments Ltd	25	n/a	Consented
	West Coast	Stockton Mine	Solid Energy	35	n/a	Consented
	West Coast	Arnold (Dobson)	Trustpower	46	n/a	Consented
Marine	Northland	Kaipara Harbour pilot	Crest Energy	200	n/a	On hold
Wind	Canterbury	Hurunui	Meridian Energy	76	n/a	On hold
	Hawkes Bay	Maungaharuru	Meridian Energy	270	n/a	On hold
	Manawatu	Central Wind (Moawhango)	Meridian Energy	125	n/a	Consented
	Auckland	Awhitu	Tilt Renewables	18	n/a	Consented
	Canterbury	Mt Cass	MainPower	69	n/a	On hold
	Otago	Mahinerangi Stage 2	Tilt Renewables	164	n/a	Consented
	Southland	Kaiwera Downs	Tilt Renewables	240	n/a	On hold
	Waikato	Taharoa	Taharoa	54	n/a	Consented
	Waikato	Taumatatorara	Ventus	44	n/a	Consented
	Wellington	Puketoi	Mighty River Power	159	n/a	Consented

Table 2. Projects which are currently under construction, have received consent or have applied for consent – sorted by earliest date

Generation type	Region	Location / Name of Project	Owned by	Capacity (MW)	Earliest commission date	Status
Diesel	Canterbury	Belfast	Orion	11.5	n/a	On hold
	Canterbury	Bromley	Orion	11.5	n/a	On hold
Gas	Taranaki	Junction Road	Nova Energy	100	2020	Consented
	Waikato	Waikato Power Plant	Nova Energy	360	2021-2027	Consented
Geothermal	Bay of Plenty	Rotoma	Rotoma No. 1 Corporation	35	n/a	Applied for consent
	Northland	Ngawha expansion	Top Energy	53	2026	Consented
	Waikato	Tauhara II	Contact Energy	250	2020	Consented
Hydro	Canterbury	Rakaia River	Ashburton Com. Water Trust	16	n/a	Consented
	Canterbury	Balmoral Hydro	Meridian Energy	15	n/a	Applied for consent
	Canterbury	Lake Pukaki	Meridian Energy	35	n/a	On hold
	Canterbury	North Bank Tunnel	Meridian Energy	240	n/a	Applied for consent
	Hawkes Bay	Ruataniwha Plains	Hawkes Bay Regional Inv Co	6.5	n/a	Consent under appeal
	Marlborough	Wairau	Trustpower	70.5	2020	Consented
	Otago	Hawea Control Gate Retrofit	Contact Energy	17	n/a	On hold
	Otago	Upper Fraser	Pioneer Generation	6.5	2019	Consented
	West Coast	Stockton Plateau	Hydro Developments Ltd	25	n/a	Consented
	West Coast	Stockton Mine	Solid Energy	35	n/a	Consented
	West Coast	Arnold (Dobson)	Trustpower	46	n/a	Consented
Marine	Northland	Kaipara Harbour pilot	Crest Energy	200	n/a	On hold
Wind	Auckland	Awhitu	Tilt Renewables	18	n/a	Consented
	Bay Of Plenty	Kaimai	Ventus	100	2020-2021	Applied for consent
	Canterbury	Mt Cass	MainPower	69	n/a	On hold
	Canterbury	Hurunui	Meridian Energy	76	n/a	On hold
	Hawkes Bay	Maungaharuru	Meridian Energy	270	n/a	On hold
	Manawatu	Central Wind (Moawhango)	Meridian Energy	125	n/a	Consented
	Manawatu	Turitea	Mercury	303	2021	Consented
	Otago	Mahinerangi Stage 2	Tilt Renewables	164	n/a	Consented
	Southland	Kaiwera Downs	Tilt Renewables	240	n/a	On hold
	Taranaki	Waverley	Tilt Renewables	135	2020-2027	Consented
	Waikato	Taharoa	Taharoa	54	n/a	Consented
	Waikato	Taumatatorara	Ventus	44	n/a	Consented
	Wellington	Castle Hill	Genesis Energy	860	2023-2033	Consented
	Wellington	Puketoi	Mighty River Power	159	n/a	Consented

Table 3. Projects which are currently under construction, have received consent or have applied for consent – sorted by generation type