

Generation update – January 2018

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

Under construction	20
Consented	3764
Consent under appeal	7
Applied for consent	290

Owners

Contact Energy	267
Meridian Energy	761
Trustpower	673
Genesis Energy	860
Mighty River Power	462
Others	1057

Generation types

Geothermal	355
Hydro	513
Wind	2529
Diesel	23
Marine	200
Gas	460

Regions

Auckland	18
Bay Of Plenty	55
Canterbury	474
Hawkes Bay	277
Malborough	71
Manawatu	428
Norhtland	250
Otago/Southland	428
Taranaki	235
Waikato	708
Wellington	1032
West Coast	106

Total Capacity	4080
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Table 1. Summary of potential projects: capacities in MW

Generation type	Region	Location / Name of Project	Owned by	Capacity (MW)	Earliest commission date	Status
Geothermal	Bay of Plenty	Te Ahi O Maui	Eastland Group	20	2018	Under construction
Diesel	Canterbury	Belfast	Orion	11.5	2018-2020	Consented
Gas	Taranaki	Junction Road	Nova Energy	100	2018-2020	Consented
Geothermal	Bay of Plenty	Rotoma	Rotoma No. 1 Corporation	35	2018-2020	Applied for consent
Hydro	Canterbury	Rakaia River	Ashburton Com. Water Trust	16	2018-2020	Consented
	Canterbury	Balmoral Hydro	Meridian Energy	15	2018-2020	Applied for consent
	Canterbury	Lake Pukaki	Meridian Energy	35	2018-2020	Consented
	Canterbury	North Bank Tunnel	Meridian Energy	240	2018-2020	Applied for consent
	Hawkes Bay	Ruataniwha Plains	Hawkes Bay Regional Inv Co	6.5	2018-2020	Consent under appeal
	Marlborough	Wairau	Trustpower	70.5	2018-2020	Consented
	Otago	Hawea Control Gate Retrofit	Contact Energy	17	2018-2020	Consented
	West Coast	Stockton Plateau	Hydro Developments Ltd.	25	2018-2020	Consented
	West Coast	Stockton Mine	Solid Energy	35	2018-2020	Consented
	West Coast	Arnold (Dobson)	Trustpower	46	2018-2020	Consented
Marine	Northland	Kaipara Harbour pilot	Crest Energy	200	2018-2020	Consented
Wind	Auckland	Awhitu	Trustpower	18	2018-2020	Consented
	Canterbury	Mt Cass	MainPower	69	2018-2020	Consented
	Canterbury	Hurunui	Meridian Energy	76	2018-2020	Consented
	Hawkes Bay	Maungaharuru	Meridian Energy	270	2018-2020	Consented
	Manawatu	Central Wind (Moawhango)	Meridian Energy	125	2018-2020	Consented
	Manawatu	Turitea	Mighty River Power	303	2018-2020	Consented
	Otago	Mahinerangi Stage 2	Trustpower	164	2018-2020	Consented
	Southland	Kaiwera Downs	Trustpower	240	2018-2020	Consented
	Taranaki	Waverley	Trustpower	135	2018-2020	Consented
	Waikato	Taharoa	Taharoa	54	2018-2020	Consented
	Waikato	Taumatatorara	Ventus	44	2018-2020	Consented
	Wellington	Castle Hill	Genesis Energy	860	2018-2020	Consented
	Wellington	Puketoi	Mighty River Power	159	2018-2020	Consented
	Wellington	Long Gully	Windflow Technologies	12.5	2018-2020	Consented
Diesel	Canterbury	Bromley	Orion	11.5	2018-2020	Consented
Geothermal	Northland	Ngawha expansion	Top Energy	50	2018-2020	Consented
	Waikato	Tauhara II	Contact Energy	250	2020	Consented
Hydro	Otago	Upper Fraser	Pioneer Generation	6.5	2020	Consented
Gas	Waikato	Waikato Power Plant	Nova Energy	360	2021-2022	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	2018-2020	Consented
	Canterbury	Bromley	Orion	11.5	2018-2020	Consented
Gas	Taranaki	Junction Road	Nova Energy	100	2018-2020	Consented
	Waikato	Waikato Power Plant	Nova Energy	360	2021-2022	Consented
Geothermal	Bay of Plenty	Te Ahi O Maui	Eastland Group	20	2018	Under construction
	Bay of Plenty	Rotoma	Rotoma No. 1 Corporation	35	2018-2020	Applied for consent
	Northland	Ngawha expansion	Top Energy	50	2018-2020	Consented
	Waikato	Tauhara II	Contact Energy	250	2020	Consented
Hydro	Canterbury	Rakaia River	Ashburton Com. Water Trust	16	2018-2020	Consented
	Canterbury	Balmoral Hydro	Meridian Energy	15	2018-2020	Applied for consent
	Canterbury	Lake Pukaki	Meridian Energy	35	2018-2020	Consented
	Canterbury	North Bank Tunnel	Meridian Energy	240	2018-2020	Applied for consent
	Hawkes Bay	Ruataniwha Plains	Hawkes Bay Regional Inv Co	6.5	2018-2020	Consent under appeal
	Marlborough	Wairau	Trustpower	70.5	2018-2020	Consented
	Otago	Hawea Control Gate Retrofit	Contact Energy	17	2018-2020	Consented
	Otago	Upper Fraser	Pioneer Generation	6.5	2020	Consented
	West Coast	Stockton Plateau	Hydro Developments Ltd.	25	2018-2020	Consented
	West Coast	Stockton Mine	Solid Energy	35	2018-2020	Consented
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	Southland	Kaiwera Downs	Trustpower	240	2018-2020	Consented
	Taranaki	Waverley	Trustpower	135	2018-2020	Consented
	Waikato	Taharoa	Taharoa	54	2018-2020	Consented
	Waikato	Taumatatorara	Ventus	44	2018-2020	Consented
	Wellington	Castle Hill	Genesis Energy	860	2018-2020	Consented
	Wellington	Puketoi	Mighty River Power	159	2018-2020	Consented
	Wellington	Long Gully	Windflow Technologies	12.5	2018-2020	Consented

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