

Generation update – October 2009

This document was prepared using information available in the public domain and in-house knowledge; 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 lists the details of the projects which are currently under construction, or have received consent, or applied for consent, sorted by generation type.
- Table 3 shows the same list of projects, sorted by earliest possible commissioning date;
- Figures 1-6 plot the data presented in Tables 2 and 3.

Generation projects with capacity less than 5 MW are not shown.

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.

Turitea and Hauāuru mā raki wind farms have been listed as Applied for consent, please note that these wind farms have been “called in”.

Status

Under construction	530
Consented	1399
Consent under appeal	1999
Applied for consent	1306

Owners

Contact Energy	1399
Meridian Energy	1400
TrustPower	559
Genesis	498
Mighty River Power	505
Others	870

Generation types

Geothermal	247
Hydro	630
Wind	3249
Diesel	23
Marine	2
Gas	1080

Regions

Northland	1	Marlborough	73
Auckland	898	West Coast	167
Waikato	987	Canterbury	334
Bay of Plenty	35	Waitaki	0
Hawkes Bay	436	Otago	857
Taranaki	345	Southland	336
Manawatu	534	Fiordland	0
Wellington	228	Tiwai	0

Total Capacity	5231
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Table 1. Summary of potential projects: capacities in MW

	Region	Location / Name of Project	Owned by	Capacity (MW)	Earliest commission date	Status
Diesel	Canterbury	Belfast	Orion	11.5	2012	Consented
	Canterbury	Bromley	Orion	11.5	2012	Consented
Gas	Auckland	Otahuhu C	Contact Energy	400	2015-2020	Consented
	Auckland	Rodney	Genesis	480	2013	Consent under appeal
Geothermal	Taranaki	Stratford	Contact Energy	200	2010	Under construction
	Bay of Plenty	Rotoma	Rotoma No. 1 Corporation	35	2015-2020	Applied for consent
	Waikato	Centennial Drive - Tauhara	Contact Energy	20	2010	Under construction
	Waikato	Nga Awa Purua	Mighty River Power	132	2010	Under construction
Hydro	Waikato	Te Mihi	Contact Energy	60	2013	Consented
	Canterbury	North Bank Tunnel	Meridian Energy	200-280	2015-2020	Consent under appeal
	Canterbury	Rakaia River	Ashburton Com. Water Trust	16	2015-2020	Consented
	Marlborough	Wairau	TrustPower	70	2012	Consent under appeal
	Otago	Benmore refurbishment	Meridian Energy	11	2009	Under construction
	Otago	Hawea Control Gate Retrofit	Contact Energy	17	2012	Consented
	Southland	Manapouri (MTAD)	Meridian Energy	90	2009	Applied for consent
	Taranaki	Mokau	King Country Energy	10	2015-2020	Consent under appeal
	Waikato	Waipa	Hydro Energy Ltd	7	2010	Under construction
	West Coast	Amethyst	Westpower/Harihari Hydro Ltd	6	2011	Consented
	West Coast	Arnold (Dobson)	TrustPower	46	2011	Consent under appeal
	West Coast	Matiri	New Zealand Energy Ltd	5	2015-2020	Applied for consent
	West Coast	Mokihinui	Meridian Energy	85	2013	Applied for consent
	West Coast	Stockton Plateau	Hydro Developments Ltd.	25-50	2015-2020	Applied for consent
	Marine	Northland	Kaipara Harbour pilot	Crest Energy	1 (pilot)	2011
	Wellington	Cook Strait Marine Energy pilot	Neptune Power	1 (pilot)	2011	Consented
Wind	Auckland	Awhitu	Genesis	18	2015-2020	Consented
	Canterbury	Mt Cass	MainPower	41-69	2015-2020	Consent under appeal
	Hawkes Bay	Te Pohue wind farm	Hawkes Bay Wind Farm Ltd	225	2011	Consented
	Hawkes Bay	Titiokura	Unison/Roaring 40s	48	2010	Consented
	Hawkes Bay	Waitahora	Contact Energy	149-177	2013	Consent under appeal
	Manawatu	Central Wind (Moawhango)	Meridian Energy	120-130	2015-2020	Consent under appeal
	Manawatu	Te Rere Hau Extension	NZ Windfarms	28	2015-2020	Applied for consent
	Manawatu	Te Rere Hau Stage 3	NZ Windfarms	17	2009	Under construction
	Manawatu	Te Rere Hau Stage 4	NZ Windfarms	15	2010	Consented
	Manawatu	Turitea	Mighty River Power	335	2015-2020	Applied for consent
	Otago	Mahinerangi	TrustPower	200	2011	Consented
	Otago	Project Hayes	Meridian Energy	630	2011	Consent under appeal
	Southland	Kaiwera Downs	TrustPower	240	2015-2020	Consented
	Southland	Mt Stuart	Pionner Generation	6	2015-2020	Applied for consent
	Taranaki	Waverley	Allco Wind Energy	135	2011	Applied for consent
	Waikato	Hauāuru mā raki	Contact Energy	540	2015-2020	Applied for consent
	Waikato	Taharoa	Taharoa C / PowerCoast	100	2015-2020	Consent under appeal
	Waikato	Taumatatorara	Ventus	44	2015-2020	Consented
	Waikato	Te Uku	WEL Network	84	2011	Consented
	Wellington	Long Gully	Mighty River Power	12.5	2015-2020	Applied for consent
Wellington	Mill Creek	Meridian Energy	71	2015-2020	Consent under appeal	
Wellington	West Wind	Meridian Energy	143	2009	Under construction	

Total	5231
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Table 2. Projects which are currently under construction, have received consent or have applied for consent – sorted by generation type

	Region	Location / Name of Project	Owned by	Capacity (MW)	Earliest commission date	Status
Hydro	Otago	Benmore refurbishment	Meridian Energy	11	2009	Under construction
	Southland	Manapouri (MTAD)	Meridian Energy	90	2009	Applied for consent
Wind	Manawatu	Te Rere Hau Stage 3	NZ Windfarms	17	2009	Under construction
Gas	Taranaki	Stratford	Contact Energy	200	2010	Under construction
Geothermal	Waikato	Centennial Drive - Tauhara	Contact Energy	20	2010	Under construction
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Total	5231
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Table 3. Projects which are currently under construction, have received consent or have applied for consent – sorted by earliest date

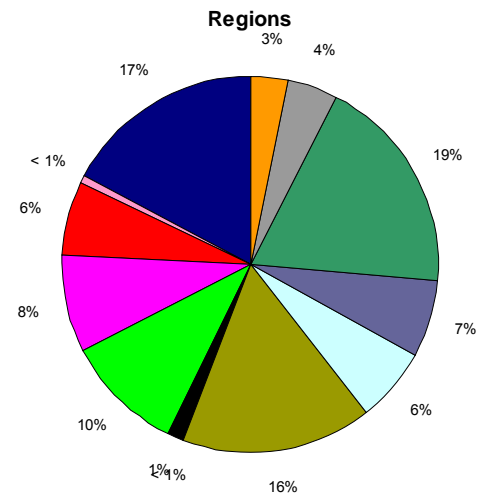
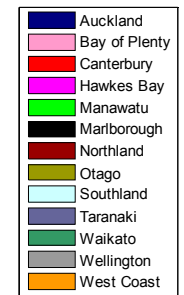
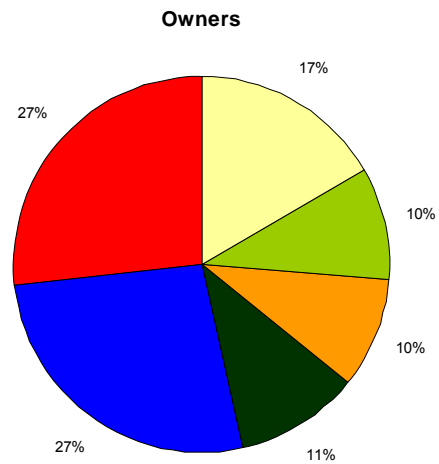
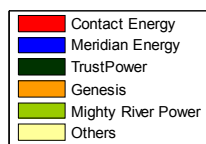
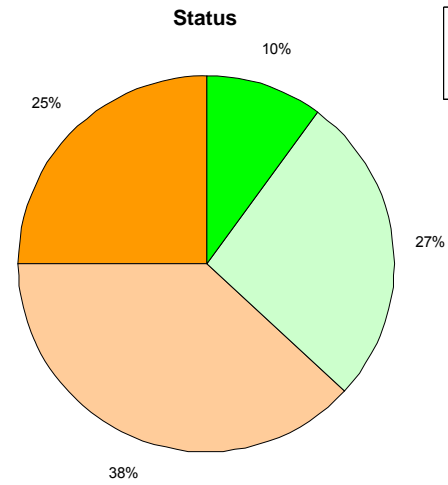
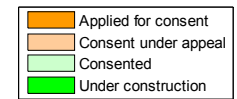
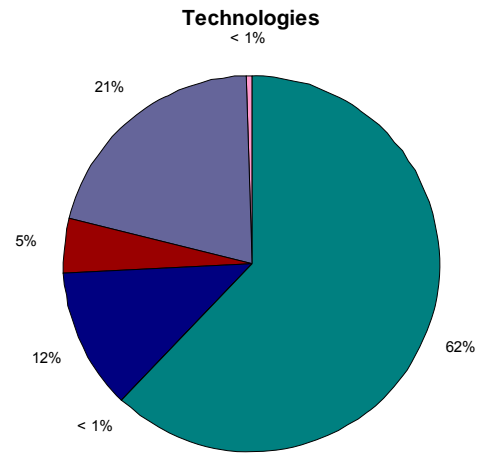
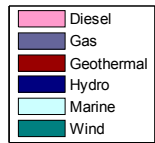


Figure 1. Summary of capacity percentage by technology, status, owner and region

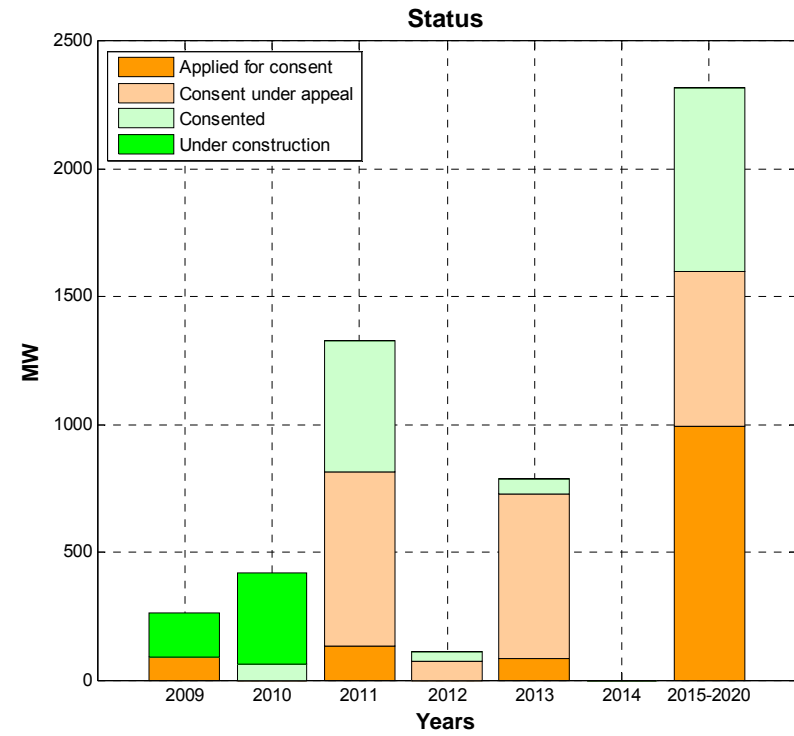
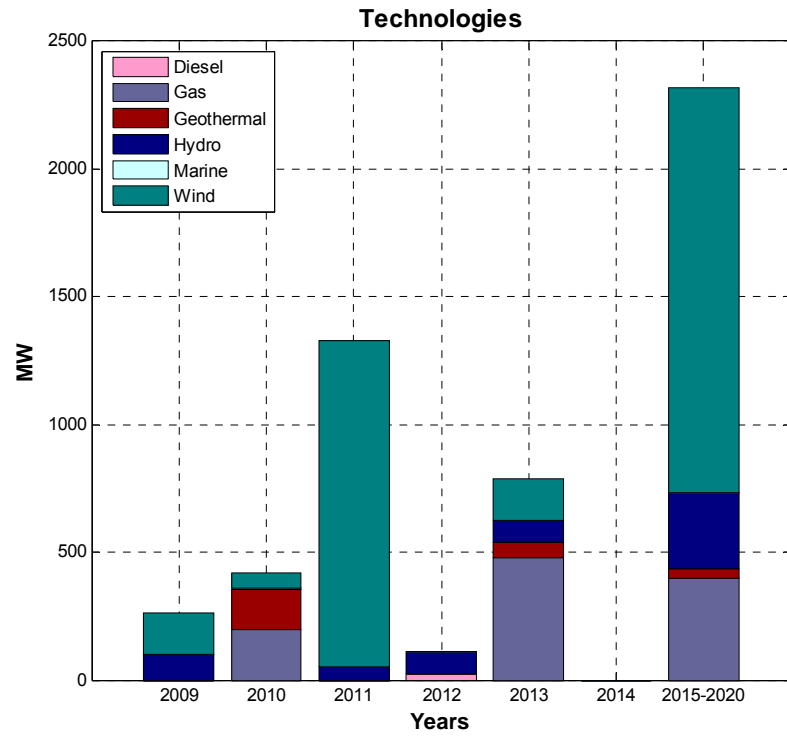


Figure 2. Summary of capacity technology and status

Under construction

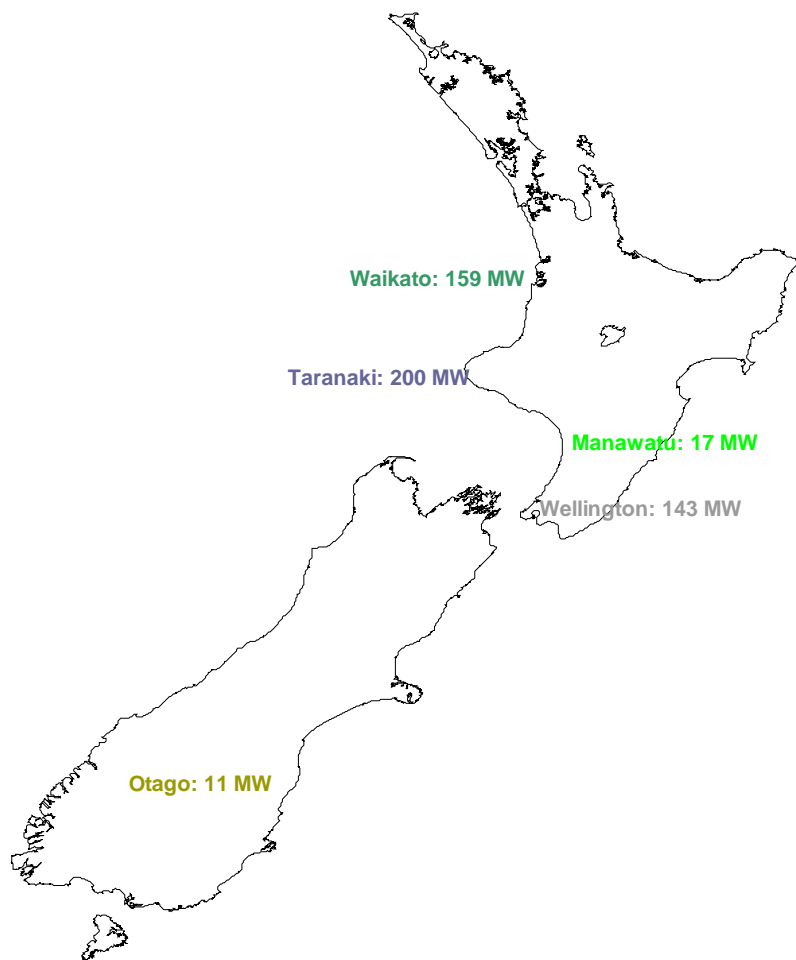


Figure 3. Sum of the “Under construction” project capacities by region

Consented

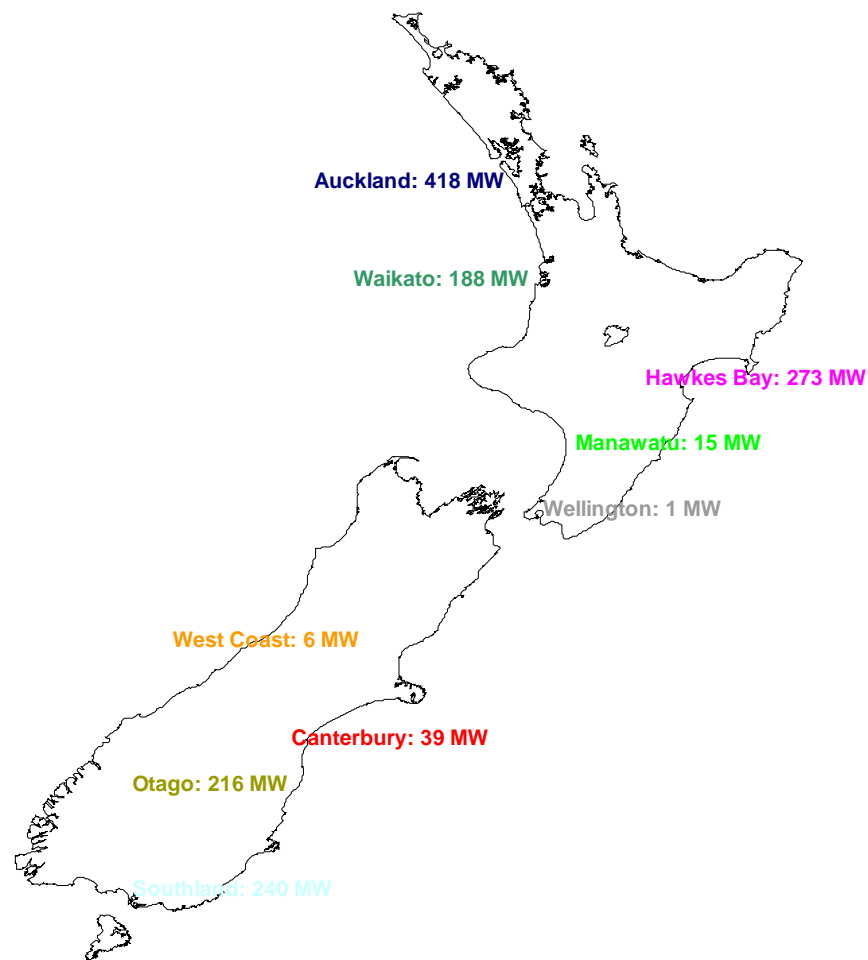


Figure 4. Sum of the “Consented” project capacities by region

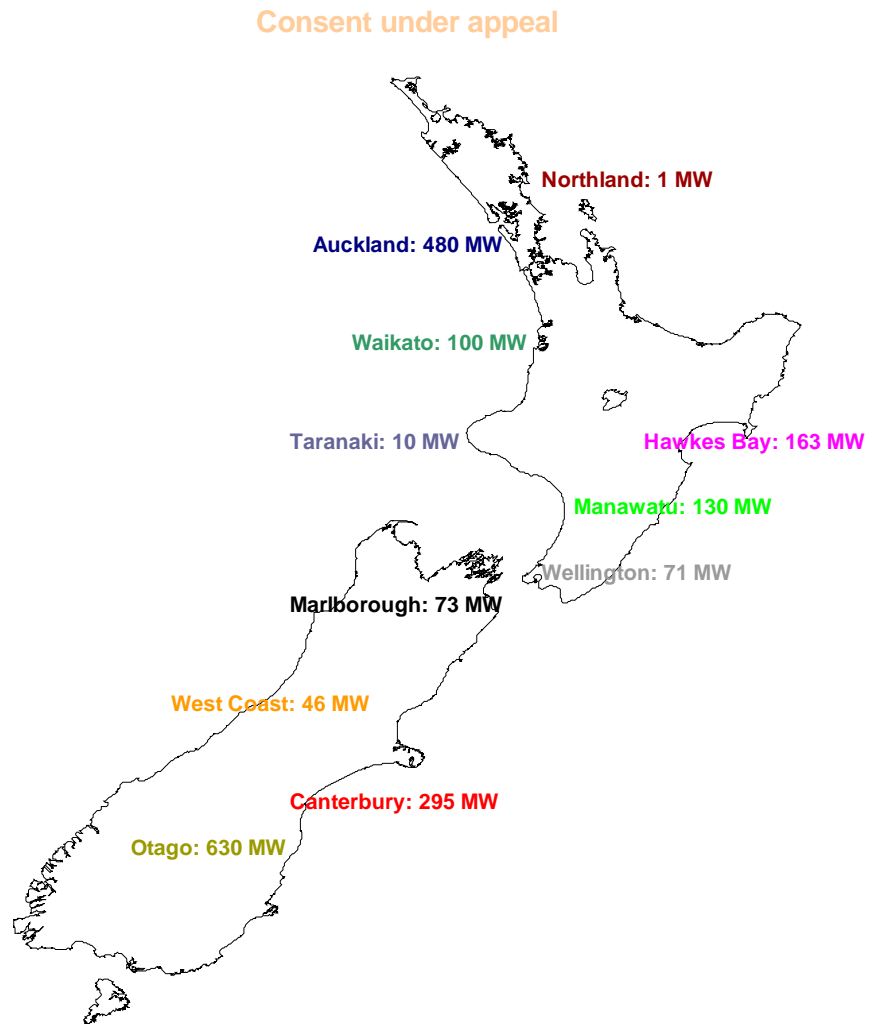


Figure 5. Sum of the “Consent under appeal” project capacities by region

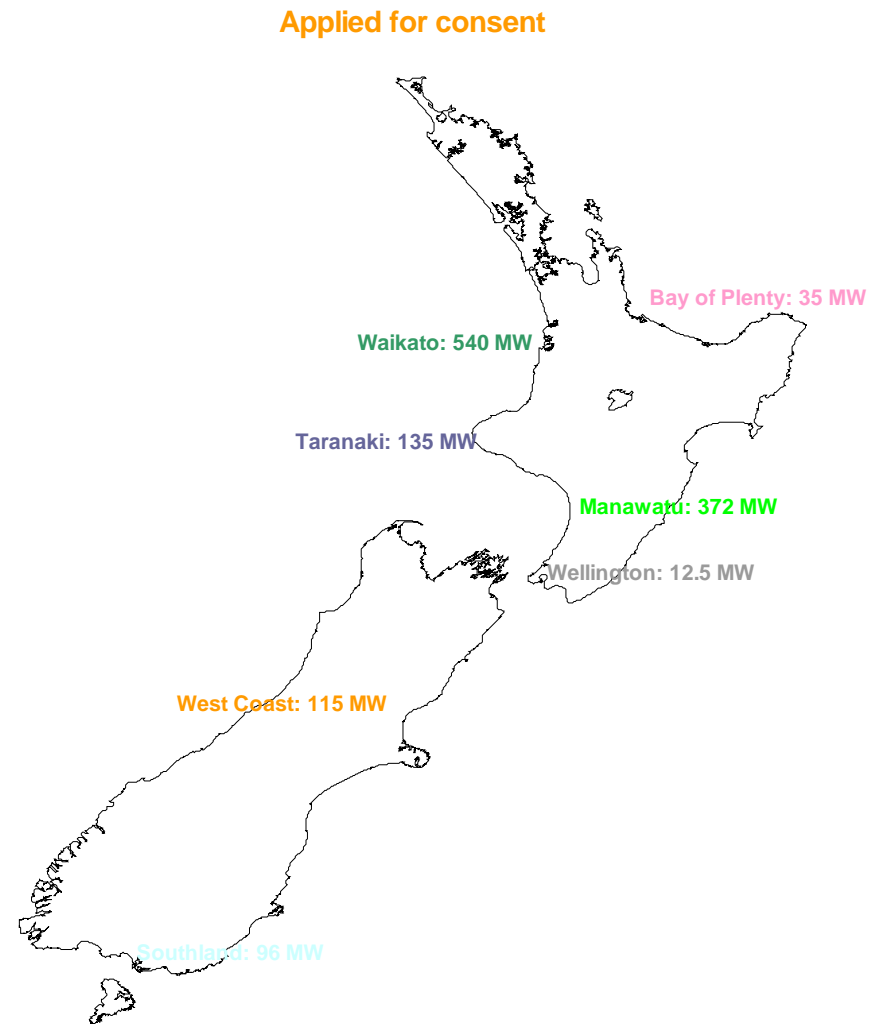


Figure 6. Sum of the “Applied for consent” project capacities by region