

# Generation update – June 2017

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 which are currently under construction, or have received consent, or applied for consent, 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](mailto:emi@ea.govt.nz) with "Generation projects" in the subject line.

## Status

|                    |         |
|--------------------|---------|
| Under construction | 0.00    |
| Consented          | 3648.50 |
| Consent under app  | 6.50    |
| Applied for consen | 425.00  |

## Owners

|                    |         |
|--------------------|---------|
| Contact Energy     | 267.00  |
| Meridian Energy    | 761.00  |
| Trustpower         | 673.50  |
| Genesis            | 860.00  |
| Mighty River Power | 462.00  |
| Others             | 1056.50 |

## Generation types

|            |         |
|------------|---------|
| Geothermal | 355.00  |
| Hydro      | 512.50  |
| Wind       | 2529.50 |
| Diesel     | 23.00   |
| Marine     | 200.00  |
| Gas        | 460.00  |

## Regions

|               |        |             |         |
|---------------|--------|-------------|---------|
| Auckland      | 18.00  | Wellington  | 1031.50 |
| Northland     | 250.00 | Marlborough | 70.50   |
| Waikato       | 708.00 | West Coast  | 106.00  |
| Bay Of Plenty | 55.00  | Canterbury  | 474.00  |
| Hawkes Bay    | 276.50 | Otago       | 187.50  |
| Taranaki      | 235.00 | Southland   | 240.00  |
| Manawatu      | 428.00 |             |         |

|                |  |  |         |
|----------------|--|--|---------|
| Total Capacity |  |  | 4080.00 |
|----------------|--|--|---------|

Table 1. Summary of potential projects: capacities in MW

| Generation type   | Region        | Location / Name of Project  | Owned by                   | Capacity (MW) | Earliest commission date | Status               | Notes  |
|-------------------|---------------|-----------------------------|----------------------------|---------------|--------------------------|----------------------|--|
| <b>Diesel</b>     | Canterbury    | Belfast                     | Orion                      | 11.5          | 2017-2020                | Consented            |  |
|                   | Canterbury    | Bromley                     | Orion                      | 11.5          | 2017-2020                | Consented            |  |
| <b>Gas</b>        | Taranaki      | Junction Road               | Nova Energy                | 100           | 2017-2020                | Consented            |  |
| <b>Geothermal</b> | Bay of Plenty | Rotoma                      | Rotoma No. 1 Corporation   | 35            | 2017-2020                | Applied for consent  |  |
|                   | Northland     | Ngawha expansion            | Top Energy                 | 50            | 2017-2020                | Consented            |  |
| <b>Hydro</b>      | Canterbury    | Balmoral Hydro              | Meridian Energy            | 15            | 2017-2020                | Applied for consent  |  |
|                   | Canterbury    | Lake Pukaki                 | Meridian Energy            | 35            | 2017-2020                | Consented            |  |
|                   | Canterbury    | North Bank Tunnel           | Meridian Energy            | 200-280       | 2017-2020                | Applied for consent  |  |
|                   | Canterbury    | Rakaia River                | Ashburton Com. Water Trust | 16            | 2017-2020                | Consented            |  |
|                   | Hawkes Bay    | Ruataniwha Plains           | Hawkes Bay Regional Inv Co | 6.5           | 2017-2020                | Consent under appeal |  |
|                   | Marlborough   | Wairau                      | Trustpower                 | 70.5          | 2017-2020                | Consented            |  |
|                   | Otago         | Hawea Control Gate Retrofit | Contact Energy             | 17            | 2017-2020                | Consented            |  |
|                   | West Coast    | Arnold (Dobson)             | Trustpower                 | 46            | 2017-2020                | Consented            |  |
|                   | West Coast    | Stockton Mine               | Solid Energy               | 35            | 2017-2020                | Consented            |  |
|                   | West Coast    | Stockton Plateau            | Hydro Developments Ltd.    | 25            | 2017-2020                | Consented            |  |
| <b>Marine</b>     | Northland     | Kaipara Harbour pilot       | Crest Energy               | 200           | 2017-2020                | Consented            |  |
| <b>Wind</b>       | Auckland      | Awhitu                      | Trustpower                 | 18            | 2017-2020                | Consented            |  |
|                   | Canterbury    | Hurunui                     | Meridian Energy            | 76            | 2017-2020                | Consented            |  |
|                   | Canterbury    | Mt Cass                     | MainPower                  | 69            | 2017-2020                | Consented            |  |
|                   | Hawkes Bay    | Maungaharuru                | Meridian Energy            | 270           | 2017-2020                | Consented            |  |
|                   | Manawatu      | Central Wind (Moawhango)    | Meridian Energy            | 120-130       | 2017-2020                | Consented            |  |
|                   | Manawatu      | Turitea                     | Mighty River Power         | 303           | 2017-2020                | Consented            |  |
|                   | Otago         | Mahinerangi Stage 2         | Trustpower                 | 164           | 2017-2020                | Consented            |  |
|                   | Southland     | Kaiwera Downs               | Trustpower                 | 240           | 2017-2020                | Consented            |  |
|                   | Taranaki      | Waverley                    | Trustpower                 | 135           | 2017-2020                | Applied for consent  |  |
|                   | Waikato       | Taharoa                     | Taharoa                    | 54            | 2017-2020                | Consented            |  |
|                   | Waikato       | Taumatatorara               | Ventus                     | 44            | 2017-2020                | Consented            |  |
|                   | Wellington    | Castle Hill                 | Genesis Energy             | 860           | 2017-2020                | Consented            |  |
|                   | Wellington    | Long Gully                  | Windflow Technologies      | 12.5          | 2017-2020                | Consented            |  |
|                   | Wellington    | Puketoi                     | Mighty River Power         | 159           | 2017-2020                | Consented            |  |
| <b>Geothermal</b> | Bay of Plenty | Te Ahi O Maui               | Eastland Group             | 20            | 2018-2020                | Consented            |  |
|                   | Waikato       | Tauhara II                  | Contact Energy             | 250           | 2020                     | Consented            |  |
| <b>Hydro</b>      | Otago         | Upper Fraser                | Pioneer Generation         | 6.5           | 2020                     | Consented            |  |
| <b>Gas</b>        | Waikato       | Waikato Power Plant         | Nova Energy                | 360           | 2021-2022                | Consented            |  |
|                   | Auckland      | Otahuhu C                   | Contact Energy             |               |                          | Consented            | Otahuhu plant is closed down                 |
|                   | Auckland      | Rodney                      | Genesis Energy             |               |                          | Consented            | Genesis Energy will not progress the project |
| <b>Wind</b>       | Hawkes Bay    | Waitahora                   | Contact Energy             |               |                          | Consent lapsed       |  |
|                   | Waikato       | Hauāuru mā raki             | Contact Energy             |               |                          | Consented            | Contact Energy will not progress the project |

**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               | Notes  |
|-------------------|---------------|-----------------------------|----------------------------|---------------|--------------------------|----------------------|--|
| <b>Diesel</b>     | Canterbury    | Belfast                     | Orion                      | 11.5          | 2017-2020                | Consented            |  |
|                   | Canterbury    | Bromley                     | Orion                      | 11.5          | 2017-2020                | Consented            |  |
| <b>Gas</b>        | Auckland      | Otahuhu C                   | Contact Energy             |               |                          | Consented            | Otahuhu plant is closed down                 |
|                   | Auckland      | Rodney                      | Genesis Energy             |               |                          | Consented            | Genesis Energy will not progress the project |
|                   | Taranaki      | Junction Road               | Nova Energy                | 100           | 2017-2020                | Consented            |  |
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| <b>Geothermal</b> | Bay of Plenty | Rotoma                      | Rotoma No. 1 Corporation   | 35            | 2017-2020                | Applied for consent  |  |
|                   | Bay of Plenty | Te Ahi O Maui               | Eastland Group             | 20            | 2018-2020                | Consented            |  |
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