CASTLE HILL WIND FARM

LAND USE CONSENTS – TARARUA DISTRICT COUNCIL AND MASTERTON DISTRICT COUNCIL

GENERAL

This consent is to construct, operate, maintain and replace a wind farm, including wind turbines grouped into seven clusters and associated structures, and includes all associated earthworks. Except as restricted by the conditions of this consent, the activities covered by this consent shall be carried out generally in accordance with the description of works provided in the Application (1 August 2011) subject to any modifications advanced by the Applicant prior to and during the hearing of the application. The consents include the following primary activities and all necessary ancillary activities.

TARARUA DISTRICT COUNCIL CONSENT

- Wind turbines (and associated foundations, transformers and platforms) to generate electricity at locations as shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Electrical Balance of Plant ("EBoP"), including underground cables, overhead lines (33kV and 220kV), transformers, substations (main, satellite and switching station), switchgear and associated structures and equipment for the collection and reticulation of electricity within the CHWF Site at locations as shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Internal Roads providing access to wind turbines, EBoP structures such as Substations, operations and maintenance facilities ("O&M facilities"), and connecting to External Roads, within the CHWF Site as shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Permanent O&M facilities including site office, workshops, amenities and a wastewater treatment system within the CHWF Site shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Up to sixteen wind monitoring masts within the CHWF Site shown in Schedule Two – Plans and Figures: Figures A1 – A4 to collect on-going meteorological information during the operational life of the CHWF.

- Construction facilities associated with the CHWF consent activities as shown and described in Schedule Two – Plans and Figures: Figures A1 – A4, including O&M facilities, Contractor Compounds and Laybys.

- Water abstraction and retention structures during construction activities at the locations shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Quarries at the locations shown in Schedule Two – Plans and Figures: Figures A1 – A4 to obtain aggregate material for road construction
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and during operation for on-going maintenance of roads and other engineering requirements.

- Concrete Batching Plants during construction activities within the area shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Excess Fill Areas for placement of excavated material not used in construction within the CHWF Site shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- The upgrading, including associated land disturbance, earthworks and vegetation clearances, of External Roads (where necessary) between the CHWF Site and Alfredton as shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Land disturbance, earthworks and vegetation clearance (including in an area identified as "Significant groups of trees, vegetation and habitats") associated with the construction, operation, maintenance, replacement and refurbishment of all structures and activities associated with the CHWF consent activities as shown and described in Schedule Two – Plans and Figures: Figures A1 – A4.

MASTERTON DISTRICT COUNCIL CONSENT

- Wind turbines (and associated foundations, transformers and platforms) to generate electricity at locations as shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Electrical Balance of Plant ("EBoP"), including underground cables, overhead lines (33kV and 220kV), transformers, substations (main, satellite and switching station), switchgear and associated structures and equipment for the collection and reticulation of electricity within the CHWF Site as shown in Schedule Two – Plans and Figures: Figures A1 – A4.

- Internal Roads providing access to wind turbines, EBoP structures such as Substations, operations and maintenance facilities ("O&M facilities"), and connecting to External Roads, within the CHWF Site as shown in Schedule Two – Plans and Figures: Figures A1 – A4.

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- Up to sixteen wind monitoring masts within the CHWF Site shown in Schedule Two – Plans and Figures: Figures A1 – A4 to collect on-going meteorological information during the operational life of the CHWF.

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- Land disturbance, earthworks and vegetation clearance associated with the construction, operation, maintenance, replacement and refurbishment of all structures and activities associated with the CHWF consent activities as shown and described in Schedule Two – Plans and Figures: Figures A1 – A4.

The following conditions apply to the land use consent issued by the Masterton District Council and the land use consent issued by the Tararua District Council for the Castle Hill Wind Farm, to the extent to which the activities covered by the consents are within each of the respective Districts.

1. The exercise of this consent is subject to compliance with:

   (a) The conditions of this consent; and

   (b) The relevant conditions of Schedule One.

Note: Schedule One is common to all consents that relate to the Castle Hill Wind Farm from Horizons Regional Council, Greater Wellington Regional Council, Tararua District Council and Masterton District Council.

2. This consent shall lapse if it is not given effect to within 10 years of the commencement of this consent and construction of the wind farm shall be completed no more than 10 years after the date of construction commencing.

3. Within 5 working days of construction commencing, the Consent Holder shall advise the Council in writing of the date construction commenced. “Construction” includes any activity on the site which is necessary to enable wind turbines to be erected, operated and maintained.

WIND FARM AND TURBINE CHARACTERISTICS AND LOCATION

4. The area of the Tararua or Masterton District within which wind turbine generators (“turbines”) shall be located is shown in Maps A5 to H5 set out in Schedule 2 to this consent. The final turbine locations may vary within the turbine corridor area shown on the maps but the maximum number of turbines permitted shall not exceed 286.
5. All turbines shall be subject to the following:

a) The maximum turbine height (to the vertically extended blade tip) shall not exceed 155 metres, measured from the base of the turbine tower to the vertically extended blade tip.

b) All turbines used within the wind farm shall have three blades and be of similar appearance;

c) All turbines and turbine blades used within the wind farm shall be finished and maintained with the same industry standard low reflectivity finishes and be off-white or grey in colour.

d) The height and rotor diameter of turbines within each particular Turbine Group as shown on Figure A, shall be the same, and the rotor diameter shall not exceed a maximum of 110 metres.

e) The number of turbines in each turbine group shall not exceed the number of turbines shown for that Turbine Group in Table 1, subject to the turbine restrictions defined in condition 6.

<table>
<thead>
<tr>
<th>Turbine Group</th>
<th>Maximum Number &lt; or = to 135m</th>
<th>Maximum Number &gt;135 to 155m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A1</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Group A2</td>
<td>3</td>
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<tr>
<td>Group A3</td>
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<td>16</td>
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<tr>
<td>Group A4</td>
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<tr>
<td>Group B1</td>
<td>13</td>
<td>10</td>
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<td>Group B3</td>
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<td>15</td>
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<td>Group B4</td>
<td>7</td>
<td>6</td>
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<td>Group C1</td>
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<td>Group C2</td>
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<td>Group C3</td>
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<td>6</td>
</tr>
<tr>
<td>Group D1</td>
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<tr>
<td>Group D3</td>
<td>12</td>
<td>9</td>
</tr>
<tr>
<td>Group D4</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>Group D5</td>
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<td>16</td>
</tr>
<tr>
<td>Group D6</td>
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<td>Group E3</td>
<td>14</td>
<td>11</td>
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<tr>
<td>Group F1</td>
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<td>29</td>
</tr>
<tr>
<td>Group G1</td>
<td>20</td>
<td>17</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Group G2</th>
<th>28</th>
<th>23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group G3</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>286</td>
<td>242</td>
</tr>
</tbody>
</table>

6. No works associated with the construction and erection of the turbines located in a turbine restriction area, shown in Figures TRA-1 to TRA-5, shall occur unless the owner of the immediately adjacent land has provided written approval for these works to occur and the written approval is provided to the District Council prior to works commencing.

**LANDSCAPE AND AMENITY**

7. a. At least 6 months prior to the commencement of construction of any turbines, the Consent Holder shall retain an appropriately qualified and experienced landscape architect to certify that the visual effects of the finally selected turbine locations and heights for those turbines, when viewed from the dwellings identified in Table 2 are no greater than the assessed at the time this consent was granted. None of the turbines relevant to Table 2 may be erected in locations not certified in this manner.

b. The certification under this condition shall be to the satisfaction of the Council. In the event the Council’s Peer Review Landscape Architect and the consent holder’s Landscape Architect cannot reach agreement, an independent Peer Review Landscape Architect will, if necessary, make a final certification decision.

c. Where confirmed by the Peer Review process as being necessary, and where the written approval of the owner of the land on which the planting is to occur has been obtained and provided to the Council, strategic mitigation planting in the vicinity of the viewpoints identified in Table 2 shall be carried out by the consent holder as soon as is practicable once a decision has been made to commence construction, but at least 18 months before commencement of construction. Such planting shall be carried out in accordance with a landscape plan approved by the Peer Reviewer, after consultation with the landowner. The objective of such plans shall be to reduce (so far as is practicable) the visibility of the Wind Farm and associated structures (including transmission towers) from the dwelling and its curtilage. Where written approval of the owner of the land is not obtained, no planting shall be required.

For the avoidance of doubt, where written approval to undertake planting is subsequently provided, such planting shall be implemented in accordance with this condition within 18 months of receipt of that approval.

8. The consent holder shall prepare a landscape plan (including details of plant species and grade to be used, and any areas, as appropriate, where fast growing exotic vegetation could be used for initial screening) for the Waikoki Valley Road satellite sub-station, at least 2 years prior to the construction of that facility. The objective of that plan shall be to reduce (so far as is practicable) the visibility of the sub-station and associated structures (including transmission towers) from the Waikoki Valley Road. The Landscape Plan shall be prepared
to the satisfaction of the Council. In the event the Council’s Peer Review Landscape Architect and the consent holder’s Landscape Architect cannot reach agreement, an independent Peer Review Landscape Architect will, make a final certification decision. The landscaping shall be carried out in accordance with the approved plan. Screen planting shall be carried out by the consent holder as soon as is practicable once a decision has been made to commence construction of the Wind Farm, but (unless otherwise approved by the Council, or where such planting would be compromised by construction activities) at least 18 months before commencement of earthworks at the sub-station site.

9. The Consent Holder shall submit to the District Council as-built plans showing the location of the turbines constructed pursuant to this consent within 3 months of final completion of construction of the wind farm.

10. The Consent Holder shall undertake regular monitoring and servicing of the turbines and ensure that they are maintained in accordance with the manufacturer’s specifications.

11. All works shall be exercised in accordance with the certified EMP required by General Condition 13 - 16 of Schedule One and certified SEMP required by General Condition 17 of Schedule One.

ENVIRONMENTAL ENHANCEMENT FOR INDIGENOUS VEGETATION LOSS AND TRIMMING

12. The consent holder shall physically and legally protect in perpetuity the land shown in Figure 5, in accordance with the Indigenous Vegetation Management Plan.

13. The consent holder shall undertake fencing, weed/pest animal/predator control, maintenance works and monitoring within each of the protected areas in accordance with the principles set out in the Indigenous Vegetation Management Plan.

14. A separate Habitat Management Plan(s) will be prepared to address ongoing site-specific management in the areas to be protected (at least 500ha), including provisions for monitoring, fencing, pest plant and animal control (including predator control - possums, cats, mustelids, and possibly rats) over the areas shown in Figure 5. The Habitat Management Plan(s) will specify fencing standards, weed control, control targets for pests, such as less than 5% Residual Trap Catch (RTC) for possums, less than 5% Tracking Index for rats, and encounter rates for goats (encounters during systematic searches by experienced observers and recording of goat sign is an accepted method for monitoring goats. Encounter rates should be one goat/200 ha/observer or hunter day, or less, within 2 years of goat control starting, and one goat/500 ha/observer or hunter day, or less, within 5 years).

The physical and legal protection of the areas of indigenous vegetation in accordance with condition 12 shall occur as soon as reasonably practicable after the commencement of this consent and shall be completed within 12 months of commencing vegetation removal in each stage of construction, unless otherwise agreed in writing by the Councils. Maintenance and monitoring work shall be undertaken in accordance with the programme specified in the certified IVMP.
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15. Details of the areas of indigenous vegetation to be protected, together with details of legal and physical protection methods and maintenance and monitoring regime, including programme for implementing these, need to be provided in the IVMP.

*Note:* The maximum amount of indigenous vegetation habitat that can be removed is identified in Table 2 attached to this consent.

**Monitoring and maintenance period**

16. All environmental enhancement works specified in the certified EEP and required by other conditions of this consent shall be monitored and maintained as specified in the EEP for a minimum duration of 5 years from the commencement of works unless a lesser duration is authorised in writing by the Council.

**Ongoing protection**

17. The consent holder shall ensure that all indigenous planting and/or existing indigenous vegetation protection areas are afforded ongoing protection to prevent the future loss of these works/areas.

18. The consent holder shall confirm in writing the mechanism to be used to ensure the protection of all indigenous vegetation planting and/or existing vegetation protection areas. The written confirmation shall be provided to the Regional Councils with the IVMP and shall include, but not be limited to, details of:

- The mechanism to be used
- The roles and responsibilities of all parties involved in the mechanism
- Details of the how the mechanism will work
- The timeframes for the preparation and implementation of the mechanism
- Communication protocols during the preparation and implementation of the mechanism.

19. No works authorised by this consent shall commence until such time as the Council has certified in writing that the mechanism proposed is acceptable.

**NOISE**

**Construction and Decommissioning Noise**

20. The Consent Holder shall ensure that noise from construction and decommissioning work authorised by this consent, including noise from concrete manufacture and quarrying operations authorised by this consent that do not exceed a duration of more than 12 months at any quarry or concrete batching location, does not exceed the noise limits set out in the following table:
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Construction noise limits

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>$L_{Aeq}$ (1 h)</th>
<th>$L_{Apeak}$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weekdays</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0630-0730</td>
<td>55 dB</td>
<td>75 dB</td>
<td></td>
</tr>
<tr>
<td>0730-1800</td>
<td>70 dB</td>
<td>85 dB</td>
<td></td>
</tr>
<tr>
<td>1800-2000</td>
<td>65 dB</td>
<td>80 dB</td>
<td></td>
</tr>
<tr>
<td>2000-0630</td>
<td>45 dB</td>
<td>75 dB</td>
<td></td>
</tr>
<tr>
<td><strong>Saturdays</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0630-0730</td>
<td>45 dB</td>
<td>75 dB</td>
<td></td>
</tr>
<tr>
<td>0730-1800</td>
<td>70 dB</td>
<td>85 dB</td>
<td></td>
</tr>
<tr>
<td>1800-0630</td>
<td>45 dB</td>
<td>75 dB</td>
<td></td>
</tr>
<tr>
<td><strong>Sundays and public holidays</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0630-0730</td>
<td>45 dB</td>
<td>75 dB</td>
<td></td>
</tr>
<tr>
<td>0730-1800</td>
<td>55 dB</td>
<td>85 dB</td>
<td></td>
</tr>
<tr>
<td>1800-0630</td>
<td>45 dB</td>
<td>75 dB</td>
<td></td>
</tr>
</tbody>
</table>

21. Notwithstanding condition 20 the consent holder shall:

   (a) Adopt the best practicable option to control noise from the concrete manufacture and quarrying operations.

   (b) In respect of traffic noise at:

      (1) Any occupied residential dwelling existing as at 29 August 2011 and which is:

           (a) Within 20m of a road in a “rural area” as defined below that is used by wind farm HCV traffic; and

           (b) Located to the east of the intersection of Mangaone Valley Road and Alfredton Road; or

      (2) The Alfredton and Tinui Schools:

           (i) Have an independent acoustic expert undertake an analysis of the potential noise and vibration effects of heavy construction traffic passing dwellings within 20m of the roads identified above or either school. The expert shall determine if any mitigation is required to ensure that CHWF-related construction traffic noise in all teaching spaces (and the main daytime living areas of dwellings) shall not exceed the satisfactory design sound levels set out in AS/NZS2107:2000 “Acoustics - Recommended Design Sound Levels and Reverberation Times for Building Interiors”.

           (ii) If the noise mitigation requires that ventilation be provided as an alternative to keeping windows open, have an independent mechanical ventilation expert determine the level of ventilation that is required to retain comfort levels. The ventilation will be designed to comply with noise recommendations in AS/NZS2107:2000.

           (iii) Provide the noise insulation and ventilation reports to the
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Councils and Alfredton and Tinui Schools and any relevant dwelling owners, at least 9 months prior to site construction works commencing.

(iv) Undertake the noise mitigation and ventilation measures related to mitigating CHWF traffic noise recommended in these reports. Where a school or dwelling owner does not accept the mitigation recommended by the independent acoustic expert in accordance with condition 21(b)(i) to (iii) above, no noise mitigation shall be required in relation to condition 21(b). For the avoidance of doubt, where agreement to undertake the noise mitigation and ventilation measures is subsequently provided during the construction period, implementation of such noise mitigation and ventilation measures shall commence in accordance with this condition within 3 months of receipt of confirmation of agreement and shall be fully implemented as soon as practicably possible thereafter.

For the purposes of this condition, "rural area" means any land within the "Rural (Primary Production) Zone" in the Wairarapa Combined District Plan for Masterton District or the "Rural Management Area" in the Tararua District Plan.

22. Construction noise shall be measured, assessed, managed and controlled in accordance with New Zealand Standard NZS6803:1999 Acoustics — Construction noise.

23. A Construction Noise Management Plan (CNMP) for all aspects of the wind farm construction shall be prepared prior to the commencement of any construction works authorised by this resource consent and submitted to the Council for approval, acting in a technical certification capacity. The CNMP shall be prepared by a suitably qualified expert(s). It shall be generally in accordance with Section 8 and the relevant Annexes of New Zealand Standard NZS6803:1999 Acoustics — Construction noise which detail the types of construction and procedures that will be carried out to ensure compliance with the Standard. The Construction Noise Management Plan shall be provided to the Manager — Environmental Services of the Tararua District Council at least three months prior to the commencement of any construction works authorised by this resource consent. The CNMP shall include, but not be limited to, the following:

(a) Details of its preparation by a suitably qualified expert(s);
(b) Details of representative construction noise measurements to be undertaken within one (1) month of the commencement of each construction stage;
(c) Details of the consultation undertaken when preparing the plan and the views of those consulted;
(d) Details of noise mitigation methods that will be implemented to ensure that noise received at dwellings is controlled to the lowest level practicable;
(e) Details of what constitutes, with reasons, the best practicable option to control noise from the concrete manufacture and quarrying operations authorised by this consent;
(f) Hours of operations, including any limitations necessary to ensure that
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noise limits are met;

(g) Roles and responsibilities including a designated person to liaise with the community and to respond to any complaints;

(h) Any temporary mitigation measures to be adopted to address potential noise effects at dwellings X171 and X359, as described on page 46 of the of the Noise Effects Assessment (21 July 2011) report included in Volume 3a of the Genesis Energy Castle Hill Wind Farm Resource Consent Applications and Assessment of Environmental Effects August 2011.

(i) Describe any noise sensitive locations near the project and any reduced noise limits that would apply to these sensitive locations; and

(j) Review and evaluation of the plan contents.

Operational Noise (non-turbine related)

24. Noise from all activities on the site other than turbine operation and construction activities, but including noise from concrete manufacture and quarrying operations that exceed a duration of 12 months at any quarry or concrete batching location, shall not exceed the following limits within the notional boundary of any dwelling in existence at the date of issue of this resource consent (excluding any dwellings within the wind farm site as defined in the application):

- 7.00am to 7.00pm 55dB L_{Aeq} (15 mins)
- 7.00pm to 7.00am 45dB L_{Aeq} (15 mins)
- 7.00pm to 7.00am 75dB L_{Amax}

Noise shall be measured in accordance with NZS6801:2008 Acoustics — Measurement of environmental sound and assessed in accordance with NZS6802: 2008 Acoustics — Environmental noise.

Note: NZS6802: 2008 defines the notional boundary as being a line 20 metres from a dwelling, or the legal boundary where this is closer to the dwelling.

Operational Noise (turbines)

25. The Consent Holder shall ensure that, at the specified assessment positions, wind farm sound levels shall comply with:

(a) Subject to (b), a noise limit of 40dB LA90(10 min);

(b) When the background sound level is greater than 35dB LA90(10 min), the noise limit shall be the background sound level LA90(10 min) plus 5dB.

The specified assessment position is any point within the notional boundary of any dwelling existing at the date of issue of the resource consent (excluding any dwellings on the wind farm site, 161 Rakaunui Road or 889 Castle Hill Road as defined in the application). Compliance shall be suitably demonstrated by measurement and assessment at the dwellings listed in Table 14 of the Noise Effects Assessment (21 July 2011) report included in Volume 3a of the Genesis Energy Castle Hill Wind Farm Resource Consent Applications and Assessment of Environmental Effects August 2011, and any other External Dwellings within
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the 35 dBA contour provided in Appendix B of that report existing at the date of issue of the resource consent.

26. Wind farm sound shall be measured and assessed in accordance with NZS6808: 2010 Acoustics – Wind farm noise.

Pre-Instalment Assessment

27. Prior to the installation of any turbine, the Consent Holder shall:

(a) Provide an acoustic emissions report to the Council for each type of selected wind turbine generator. The report shall be in accordance with IEC61400-11, Wind Turbine Generator Systems Part 11, Acoustic Noise Measurement techniques and shall include the A-weighted sound power levels, spectra, and tonality at integer wind speeds from 6 to 10 m/s and up to 95% of rated power for each type of individual wind turbine to be installed.

(b) Provide a report detailing the findings of an assessment, to be undertaken by a suitably qualified and experienced acoustical expert, of background sound levels at representative locations of all dwellings within the predicted 35 dBA noise contour for the turbine layout proposed. Notwithstanding this, if the notional boundaries of the following dwellings X265, X357, X362, X377, X379, X391, X380, and X392 (as identified in the Marshall Day Acoustics Noise Effects Assessment dated 21 July 2011) fall within the predicted 35 dBA noise contour for the turbine layout proposed, background noise measurements shall be taken at each of those properties. Background sound level monitoring shall be undertaken not more than 2 years before the initial post installation compliance testing at each location and shall not be affected by noise from any wind farm. The assessment report shall be adequate to allow future compliance monitoring to be accurately undertaken at all dwellings within the predicted 35dBA contour for the turbine layout proposed.

(c) A noise prediction report from a suitably qualified and experienced acoustical consultant that demonstrates to the satisfaction of the Manager – Environmental Services of the Tararua District Council that the sound levels from the wind farm will not exceed those levels set out in Condition 25 above. Modes of operation and the type of turbine must be specified. Only wind turbines that have noise mitigation option(s) to reduce the noise levels shall be installed at the wind farm.

Post Installation Testing

28. Prior to the operation of any turbine within 3km of an External Dwelling, the Consent Holder shall submit a report to the Manager – Environmental Services of the Tararua District Council demonstrating from testing of a representative sample of turbines that at a distance of approximately 600 - 800 metres from the turbines no special audible characteristics are present.

29. The Consent Holder shall arrange for a minimum of three continuous Noise Monitoring Terminals (NMT) to be installed at appropriate locations around the wind farm site, and moved as different turbines (or groups of turbines) become operational. The NMTs shall be installed from when the first wind turbine
becomes operational, until three months after the last turbine becomes operational or until such time as an appropriately qualified and experienced acoustic consultant engaged by the Consent Holder determines that sufficient representative monitoring has been undertaken of all contributing turbines, operating in representative wind speeds.

30. The Council may reasonably direct testing required by Condition 29 to take place at any External Dwellings existing at the date of issue of the resource consent that are located within the 35 dBA contour provided in Appendix B of the Noise Effects Assessment (21 July 2011) report included in Volume 3a of the Genesis Energy Castle Hill Wind Farm Resource Consent Applications and Assessment of Environmental Effects August 2011.

31. The Consent Holder shall submit monthly reports to the Manager – Environmental Services of the Tararua District Council outlining the results of the noise monitoring and reporting on compliance with the noise consent conditions. The first of these reports shall be submitted no later than 60 working days after the first wind turbine becomes operational, and the last of the reports provided within 60 working days of the last turbine becoming operational.

32. Where Tararua District Council considers on reasonable grounds based on the advice of an appropriately qualified noise specialist that the Consent Holder is not complying with Condition 25 relating to operational noise, either Council may require the Consent Holder to undertake additional post-installation noise compliance testing of wind farm noise at any location, and any wind speed and direction, relevant Council for consideration, within 10 working days after completion of each test. If compliance under the conditions in question have been demonstrated by compliance testing, then no further action is required.

33. Should either Council seek to undertake separate compliance testing of part or all of the wind farm operation then the Consent Holder shall provide the Manager – Environmental Services of the Tararua District Council consent authority with sufficient wind data (‘wind data’) to enable the consent authority to analyse its noise monitoring in accordance with the requirements of these conditions. The wind data may be confidential and/or commercially sensitive and will be treated in confidence and not disclosed to any third party without the Consent holder’s prior approval.

34. The Consent Holder shall pay all reasonable costs associated with noise compliance.

**Non Compliance with Noise Conditions**

35. Where compliance is not achieved with the noise conditions, the Consent Holder shall operate the wind turbine generators at a reduced noise output until remedies are identified and implemented. If sound emissions cannot be reduced such that they comply, the Consent Holder shall cease to operate the wind turbine generators causing the non-compliance until modifications are made to reduce the noise. Further operation of the wind turbine generators causing the non-compliance shall only be for sound measurement checks as specifically agreed with the Manager – Environmental Services of the Tararua District Council to demonstrate compliance. This condition shall not limit or restrict any statutory right or power to take enforcement action that the Councils may have under the provisions of the Resource Management Act.
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TRAFFIC

36. Except where modified by the conditions of consent, the routes, vehicle types, traffic movements and mitigation measures related to the wind farm shall be in general accordance with those described in the Traffic Design Group report, Castle Hill Wind Farm: Transportation Effects Assessment, dated July 2011 and included in the AEE submitted with the application.

37. The Consent Holder shall prepare a Construction Traffic Management Plan ("CTMP") in accordance with Condition 49 and shall ensure all of its contractors and subcontractors comply with the CTMP.

38. The Consent Holder shall adopt best practice in taking all reasonable steps to reduce the number of trips required in the carrying out of activities authorised by this consent and to minimise disruption, delay and adverse effects on road safety for road users, including in particular school buses, pedestrians, cyclists and persons using roads for the movement of livestock. This shall include any measures included in the CTMP, following the process specified in conditions 49 - 55, including on farm measures, to be implemented at the cost of the Consent Holder.

Note: Conditions 49 - 55 and Condition 57 of this consent and Conditions 3 to 5 of Schedule 1 sets out the consultation process to be followed to address stock movement issues.

39. Prior to commencement of any construction works on-site, the Consent holder must at its own cost undertake the roading improvement and temporary traffic management works identified at Section 11.5.2 to 11.5.4 of the Transportation Effects Assessment and/or the CTMP. Upgrades and traffic management must be designed to meet the demands generated by the CHWF construction traffic on those roads to be relied on for construction traffic movements. Once upgraded, these roads shall be maintained by the Consent Holder for a period up to 12 months following the duration of their use in the construction of the CHWF.

Notwithstanding this, should any of the identified main transport routes require upgrade as a direct result of unforeseen effects from the traffic generated by the CHWF development, then the Consent holder, in consultation with the relevant Council must undertake appropriate remedial and / or upgrade works.

All works specified shall be undertaken in accordance with Austroads or an alternate Council approved standard.

40. The Consent Holder shall:

(a) Maintain the roads to be used by construction traffic at least in accordance with the performance standards required under the relevant Council maintenance contract; and

(b) In addition to the requirements of Condition 39, and prior to commencement of construction traffic movements to and from the site, jointly with the Council, establish a mechanism such that any increased wear and tear from HCV and other vehicle movements associated with the CHWF can be appropriately addressed by maintenance activities on
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roads to be used for construction purposes. In establishing this mechanism, regard shall be had for the Road Assessment and Maintenance Management (RAMM) data collection methodologies.

(c) Return maintained roads to Council after the maintenance period, in no worse condition to that which existed prior to the commencement of construction;

(d) All works specified shall be undertaken in accordance with Austroads or an alternate Council approved standard.

41. Prior to movement of Over-Weight and/or Over-Dimension vehicles, the Consent Holder shall obtain an Over-Dimension (NZTA) and/or Over-Weight (NZTA and local authority) Load Permit from the relevant issuing authority(s), for any Over-Dimension or Over-Weight loads travelling to the site. The Consent Holder must abide by the requirements of any such permit issued. The Consent Holder shall provide the Council with a copy of this Permit.

42. The consent holder shall seek approval for Over-Dimension or Over-Weight load permits to use the SH2 and Alfredton Road route via Eketahuna (the “main route”), in preference to any alternate route and shall engage at the earliest practical stage with NZTA and KiwiRail to promote a renewal or extension of the rail bypass right of way if that is required in order to allow the use of this route.

43. (a) Subject to Conditions 43 (d) and 43 (h), all Heavy Commercial Vehicle (HCV) (defined as NZTA axle class 6 and above, concrete trucks having 3 or more axles and, unless prevented from doing so by refusal of its application for OW/OD load permits pursuant to Condition 42, all OW/OD loads) must travel to and from the wind farm site using the SH2 / Eketahuna / Alfredton Road route (“the main route”);

(b) The consent holder must ensure all contractors and all sub-contractors have a specific clause in their contract requiring them to ensure that all HCV’s (as defined at condition 43(a)), travel to and from the wind farm using the main route, unless the circumstances set out in condition 43(d) apply;

(c) The consent holder shall ensure that all HCV’s travelling to and from the wind farm site are issued with and clearly display an identification number, which is unique to that vehicle. This must be displayed at the front and rear of the vehicle.

(d) In the event that the Main Route described in condition 43 (a) cannot be used by HCV’s because of:

i. a change in circumstances, provided it is documented in the approved CTMP prepared or updated following the process specified in Conditions 49 – 55; or

ii. some exceptional event, some one-off event(s), prolonged earthworks, weather, damage, crash or similar event wind farm related HCV’s (as defined in condition 43(a)) may use an alternative route or routes (“alternative route”) specifically provided for in the CTMP.
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(e) When Condition 43(d) i applies, the route or routes documented in the CTMP shall be the Main Route for the purposes of this consent.

(f) When Condition 43(d) ii applies, use of the Main Route shall recommence when the particular event referred to in that condition has concluded.

(g) Where wind farm related HCV’s are required to use an alternative route in response to an event defined in Condition 43(d) ii preventing use of the Main Route, the consent holder shall log the event and notify the Territorial Authority and the parties listed in condition 57 of the fact that HCV’s will be using an alternative route.

(h) Notwithstanding Conditions 43 (a) and 43 (d), during construction of Clusters E and F, HCV’s delivering either:

i. road construction or maintenance materials; or

ii. concrete, or the constituent components to manufacture reinforced concrete,

may access the wind farm via Masterton Castlepoint Road, Tinui Valley Road and Manawa Road.

44. The Consent Holder shall maintain a log of all vehicles travelling through each site security office on a daily basis, and make this available to the [the Council] on request. The log shall record at least the time, direction of travel (inbound to the site or outbound), vehicle type (its classification) and the purpose of the trip (i.e. the load carried, and the origin/destination) of the trip.

45. The Consent Holder shall maintain a log book of all calls received on the specified 0800 number, and in each month in which calls are received details of those calls shall be forwarded to [the Council] at the end of that month.

46. Where practicable, the Consent Holder must schedule Heavy Commercial Vehicle (“HCV”) movements outside of the local school bus pick-up and drop-off times.

47. Where HCV movements will overlap with local school bus pick-up and drop-off times, the Consent Holder must implement the traffic management measures and ensure, throughout the duration of activities authorised by this consent, that communication between HCV’s and school buses is undertaken in accordance with the CTMP.

48. The Consent Holder shall clean up any construction materials or components deposited on public roads in accordance with the methods set out within the CTMP prepared in accordance with Condition 49.

49. A Construction Traffic Management Plan (“CTMP”) shall be prepared for the Consent Holder by a Chartered Professional Engineer (CPEng) with a technical specialist background in Traffic Engineering, and approved by the Council, acting in a technical certification capacity, before any transportation of construction equipment and material to the site.
50. Prior to the consent holder commencing preparation of the CTMP, and following consultation with the Castle Hill Wind Farm Community Action Group, the consent holder shall engage a suitably qualified and experienced independent commercial farm adviser to provide input into and comment on the CTMP, as set out in Conditions 51 – 53.

51. The consent holder must forward a copy of the draft CTMP to the independent farm adviser for their review and comments prior to this being submitted to the Council for approval.

52. The consent holder shall consider all written comments received within 15 working days from the Independent Farm Adviser and shall decide whether to adopt any recommended changes to the draft CTMP.

53. Where the consent holder decides not to implement the recommendations of the Independent Farm Adviser it must provide written justification why it has chosen not to adopt these recommendations to the Independent Farm Adviser, to the Council's Peer Review Traffic Engineer and parties listed in Condition 57.

54. The areas of disagreement between the consent holder and Independent Farm Adviser are to be specifically considered by the Council's Peer Review Traffic Engineer in reaching Council's certification decision.

55. In the event that the Council's Peer Review Traffic Engineer and the consent holder's Traffic Engineer cannot reach agreement, an independent Peer Review Traffic Engineer will, make a final certification decision.

56. The CTMP shall, as a minimum, be in general accordance with the Construction Traffic Management Framework set out at Appendix I of the Transportation Effects Assessment.

The purposes of the CTMP will be to set out in detail matters relating to:

(i) The extent and timing of construction traffic activity and traffic management provisions to be put in place during this time, to achieve a safe and efficient road network;

(ii) Minimising disruption to other road users; and

(iii) Minimising the effects of construction activities on local amenity.

The CTMP shall be prepared in accordance with the latest Code of Practice for Temporary Traffic Management (COPTTM) including supplements to the Code.

The CTMP shall be updated by the Consent Holder as necessary or as requested by Council Officers so as to maintain the safety and efficiency of the roading network, and such amendments shall take into account matters raised by the public, and other stakeholders during the consultation process. In that regard, the Consent Holder shall reassess the efficacy of the CTMP 3 and 6 months after construction commences and update it as necessary, having regard to any feedback received from the parties listed in Condition 57.

The plan shall specifically include but not be limited to the following:

(a) Purpose and objectives of the CTMP;
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(b) The process and approach for development of the CTMP;

(c) Specific details of the construction programme and traffic flows;

(d) Establishing safe and efficient travel routes and site access points through consideration of (but not limited to) the need for passing bays, sight benching, vegetation removal, crossfall reduction, sight and guardrail construction and contractor parking;

(e) Travel plans and passenger transport to minimise contractor vehicles on the local roads. Travel plans shall also have specific regard for the merits of reducing the overall number of vehicle movements;

(f) Management of road safety including such measures as driver protocols, monitoring and reporting requirements;

(g) Minimising the effects of construction traffic on local amenity;

(h) Details of any road safety assessments undertaken;

(i) Recording and accounting for road improvements and pavement maintenance;

(j) Planning for, and details of OWOD transport movements, including any relevant permit provisions for main route and alternative routes;

(k) Details of traffic management and safety measures relating to schools on the proposed traffic routes and school bus operations on those routes. Particular consideration shall be had for the continued safe, reliable and efficient running of the school buses and ensuring the delivery of children to school on time. This shall include (but not be limited to):

(i) No HCV travel on unsealed road sections (other than at identified points where internal wind farm roads cross these roads or the use of lay-bys where provided) while school buses are physically traversing those carriageways, unless use of the road is otherwise agreed (such agreement not to be unreasonably withheld) with the operator of a school bus service on that road, after taking into account:

1. Road upgrades and improvements undertaken or to be undertaken for the construction of the CHWF;
2. Any widening of the road that has been or will be undertaken;
3. Passing bays and lay-bys available on the section of road under consideration; and
4. Any other traffic management measures adopted or proposed for the road.

Note: The intention of this condition is that agreement can be sought and obtained for use of a particular unsealed road (or group of roads) from any school bus service operator providing a service on that particular road (or group of roads).
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(i) Other than travel by cars, which is not restricted by this condition, construction traffic shall not use Waitawhiti or Daggs Road while school buses are physically traversing those roads unless otherwise agreed with the operator of a school bus service on the road in question.

(iii) Providing additional school bus services to reduce the total travel time for school buses; and

(iv) Establishing effective communication systems to establish the locations of construction vehicles and school buses.

(l) Provision for planning and managing the safety and efficiency of stock movements in conjunction with vehicle movements associated with the CHWF, including any alternate stock movement provision or additional requirement for temporary traffic management arising from construction traffic movements that will be offered to farmers at the expense of the consent holder. Where necessary, such measures may include (but not limited to) laneways, use of temporary traffic signals, stock crossings, trucking of stock and the temporary diversion of stock or HCV’s onto specified alternative routes. Safe stock management practices shall be assessed in terms of the Road Controlling Authorities Forum – “Best Practice Guidelines for Stock Crossings: April 2010” or later, and the provisions for temporary traffic management in accordance with COPTTM, and shall be developed following the consultation process specified in Conditions 4 to 11 of Schedule One;

(m) Provision for dust management through the preparation of a dust management plan. The objective shall be to minimise total dust production on unsealed routes, and in particular near residences, stock yards and other buildings. This is to have particular regard for recognised dust management practices such as speed management, surface applied treatments (including the current Norwegian road oil treatment currently available to Masterton District Council), development of a low dust maintenance road metal suitable for higher rainfall areas, combining existing technologies used by Masterton and Tararua Districts, and through the application of best practice guidance provided in the Australian Road Research Board (ARRB) "Unsealed Roads Manual" dust management guidelines;

(n) Incident reporting mechanisms, recording and reporting methods;

(o) Provision for emergency services;

(p) Performance monitoring and response plans in the event of a breach of performance;

(q) Contingency planning and response provisions;

(r) Temporary traffic management planning, including at one lane bridges;

(s) Details of any radio or other communication systems and protocols between project contractors, school bus operators, project HCV’s and any CHWF gate house. The CTMP shall have particular regard for the
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necessary establishment or extension of communications systems to ensure full coverage of the communications system;

(t) Provisions for the establishment of an 0800 number such that members of the public and road users have a known point of contact for any traffic related issues that may arise during the construction of the wind farm;

(u) Information availability and reporting;

(v) Review and evaluation of the plan's contents;

(w) Determining alternative routes as provided for in condition 43(d) along with procedures for this; and

(x) Construction notification process.

57. The development and updating of the CTMP shall include and be based on open consultation and stakeholder participation as provided for in Conditions 4 to 11 of Schedule One, and in particular shall include consultation with, but not be limited to, representatives of:

a) The Alfredton Educational Trust, any other operators of school bus routes in the area and, as necessary, any schools serviced by such school bus operators;

b) The Alfredton and Tinui School Boards of Trustees;

c) The communities in the area that construction traffic will occur;

d) Property owners along each of the local roads that will be used for vehicles associated with construction of the CHWF; and

e) Users of local roads for movement of stock (including stock transport operators regularly servicing farms in the area) where those roads will be used for vehicles associated with construction of the CHWF.

f) Commercial petrol tanker and fertilizer delivery operators operating on the roads utilised by HCV's.

g) Logging truck operators servicing harvesting activities in the vicinity of the wind farm;

h) Emergency services; and

i) The independent commercial farm adviser appointed pursuant to Condition 50.

58. The noise due to traffic on External Roads shall be minimised as follows:

(a) That where it is safe to do so, engine braking restrictions be established on External Roads through the CTMP development process. These restrictions shall have particular regard for limiting noise near the Alfredton and Tinui Schools and also near stock yards and residences in close proximity to the road.
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(b) Wind farm related HCV’s as defined at Condition 43 (excluding overweight and over dimension vehicles), shall not travel on the following roads outside the hours of 7.00 am to 7.00 pm Mondays to Saturdays (inclusive), and not on Sundays and public holidays, except at identified points where internal wind farm roads cross these roads, or where a vehicle commences a journey prior to 7.00 pm with the reasonable expectation of completing the journey on the road prior to 7.00 pm, but for whatever reason is unable to do so:

i. Roads defined as Local Roads in the relevant District Plan
ii. Castle Hill Road
iii. Route 52
iv. Alfredton Road, east of its intersection with Mangaone Valley Road;
v. Masterton Castlepoint Road (where Condition 43(h) applies);
vi. Tinui Valley Road (where Condition 43 (h) applies); and
vii. Manawa Road (where Condition 43 (h) applies).

(c) Notwithstanding Condition 58(b), trucks with 3 or more axles shall not operate outside the hours of 7.00 am to 7.00 pm Mondays to Saturdays inclusive or on Sundays or public holidays except where the use of the truck forms part of a planned concrete pour or critical construction activity identified in the construction programme and as provided for in the CTMP where public notification is given at least 5 working days in advance of the concrete pour or critical construction activity, unless Condition 58(e) applies;

For the purpose of this condition:

i. A “planned concrete pour” is one that commences no later than 9.00 am and which for whatever reason cannot be completed by 7:30 pm that same day

ii. A “critical construction event” is one that cannot be completed in a 12 hour window, provided that it has commenced no later 9.00 am.

(d) Wind farm related Over-Weight and/or Over-Dimension vehicles shall not travel on roads defined as Local Roads in the relevant District Plan outside the hours of 7:00am and 9:00pm Mondays to Saturdays (inclusive) or on Sundays or public holidays except where public notification is given at least 5 working days in advance of that activity or as defined in the CTMP;

(e) That, in the event of an emergency, breakage or other unforeseen event that seriously compromises the integrity of the construction, or causes an undue safety risk on the road network, HCV movements may be permitted to continue to complete the task;

(f) Where it is necessary for HCV movements to occur pursuant to condition 58 (e), the consent holder shall report this to the Council as soon as practicable and to the community via Condition 6 of Schedule 1.

An unforeseen event that seriously compromises the integrity of construction, as described in condition 58(e), is intended to cover events such as a continuous concrete pour on foundations.
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which is delayed due to an interruption to supply part way through and which needs to be completed to ensure the structural integrity of the foundation.

AIR TRAFFIC SAFETY

59. The Consent Holder shall advise the Civil Aviation Authority ("CAA") at least six (6) months prior to commencing the construction of the turbines and transmission lines associated with the CHWF. This advice shall include the geographical coordinates of the sites at which the turbines are to be installed.

60. The Consent Holder shall install, operate and maintain medium intensity obstruction lights to mark the wind farm with appropriate turbines being lit in accordance with CAA policy for lighting and marking wind farm turbines, and shall provide a plan to CAA indicating which turbines are to be lit in accordance with this condition.

61. All navigational lights required on the turbines by the Civil Aviation Authority shall be shielded or otherwise contained to screen downward light spill.

62. The Consent Holder shall liaise with the Airways Instrument Flight Procedures unit to amend any Instrument Flight Procedures that may be affected by construction and operation if the wind farm.

COMMUNICATION SERVICES

63. Prior to the exercising of this consent, the Consent Holder shall undertake an independent assessment of the extent and quality of radio reception/transmission and wireless broadband reception in the vicinity of the wind farm, and of the effect of the turbine layout to be built on microwave radio links in the vicinity of the wind farm.

64. The Consent Holder shall undertake an independent assessment, prepared by a person qualified in radio reception and transmission, if it receives (within 12 months of the wind farm becoming operational) any post-construction complaints from users or operators of radio transmitters or microwave radio links existing at the date consent was granted that post-construction radio reception/transmission is impaired. If the radio transmission quality is found to be impaired as a result of the wind farm operation, by reference to the assessment undertaken pursuant to condition 63, the Consent Holder shall undertake the measures necessary to ensure radio reception is restored to a level consistent with that which would have been available without the presence of the wind farm.

65. The Consent Holder shall undertake an independent assessment, prepared by a person qualified in assessing broadband interference effects, if it receives (within 12 months of the wind farm becoming operational) any post-construction complaints from users or operators of wireless broadband services existing at the date consent was granted existing at within two (2) km of any wind turbine that post-construction interference effects are occurring. If the broadband signal is found to be impaired as a result of the wind farm operation, by reference to the assessment undertaken pursuant to condition 63, the Consent Holder shall take the best practicable measures to provide reasonable reception.
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66. The Consent Holder shall ensure that the electrical design of any infrastructure including cable earths, line support structures, substations and switching station earths, comply with Regulation 33 of the Electrical (Safety) Regulations 2010 in regard to potential effects on fixed line telecommunications equipment from induced voltage, shock current, or earth potential rise. The Consent Holder shall undertake an independent assessment, prepared by a person qualified in assessing effects on telecommunications equipment as outlined in this condition, if it receives (within 12 months of the wind farm becoming operational) any post-construction complaints from users or operators of fixed line telecommunications circuits existing at the date consent was granted and located within 100m of any earth equipment associated with any wind turbine, transmission line, substation or switching station that post-construction effects in relation to induced voltage, shock current, or earth potential rise may be occurring. If such effects as outlined in this condition are found to be occurring as a result of wind farm infrastructure, including any associated transmission of electricity within the wind farm area, the Consent Holder shall take the best practicable measures to resolve these issues.

Note: The Consent Holder shall only be required to take the best practicable steps to provide reasonable reception to existing users of radio, wireless broadband and fixed line telecommunications networks at the time of construction. In this regard, it is accepted that not all interference can be removed by best practicable methods and as such reasonable reception is considered appropriate to mitigate effects. "Reasonable reception" shall be defined by the appropriately qualified persons undertaking the surveys set out in Conditions 63, 64, 65 and 66 above.

SHADOW FLICKER

67. The Consent Holder shall re-perform the shadow flicker calculations when the turbine layout and configuration is finalised and provide a report of this assessment to the Manager – Environmental Services of the Tararua District Council.

68. The Consent Holder shall ensure that shadow flicker effects at any dwelling existing at the date of issue of consent (excluding dwellings within the wind farm site as defined in the application) arising from operation of the wind turbines the subject of this consent shall be no greater than 30 hours per year and shall be no greater than 30 minutes per day.

DE-COMMISSIONING AND SITE REHABILITATION

69. If any of the turbines cease to operate for a continuous period of more than twenty four months, the Consent Holder shall remove from the site all above ground structures associated with the operation of that turbine (including all turbine towers, wind turbine generators, above ground transmission lines, accessory buildings and signage). The site of each wind turbine generator shall, be restored and re-vegetated as pasture within two years for an individual turbine or within three years for a Group of turbines.

CONSENT CONDITION REVIEW

Pursuant to sections 128 to 131 of the Resource Management Act 1991, the Tararua and/or Masterton District Council may one year after the commencement of construction of the CHWF, at one yearly intervals during
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construction, one year after commissioning and at five yearly intervals thereafter, serve notice on the Consent Holder of its intention to review any or all of the conditions of this consent for any of the following purposes:

(a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying, or mitigating, any adverse effect on the environment that may arise from the exercise of this resource consent (in particular the potential adverse environmental effects in relation to ecology, archaeology, noise, vegetation removal, earthworks, traffic and roading, visual, landscape and amenity effects);

(b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of granting this consent, including addressing any issues arising out of complaints;

(c) To review the adequacy of, and necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent; and

(d) To require the Consent Holder, if necessary and appropriate, to adopt the best practicable option(s) to avoid, remedy or mitigate any adverse effects on the surrounding environment.

71. Within three months of completion of construction of the wind farm, the Consent Holder shall advise the Council in writing that construction activities have been completed.

GRID CONNECTION

72. No activity authorised by this consent shall be commenced until such time as any necessary resource consent application, or notice of requirement for a designation made to the Tararua and/or Masterton District Council, for any transmission line required to transmit electricity generated at the Castle Hill Wind Farm to a local or national grid, has commenced or become operative.

CHARGES

73. The Consent Holder shall pay the Council all reasonable costs and charges fixed by the Council pursuant to section 36 of the Act, in relation to any administration, monitoring and inspection relating to these consents, and any charges authorised by regulations.
### Table 2: Mitigation objectives & methods in relation to dwellings

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<th>Name</th>
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<th>Turbine Cluster</th>
<th>Submission/Opposition</th>
<th>FB Site Visit</th>
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* Frank Botta Assessment  
* Clive Ansley Assessment