

## Appendix 4: Kapuni Green Hydrogen Project: Residential Amenity Assessment

The table below is a desktop assessment of the visual effects of the Project on the dwellings shown on **Figure 6, Graphic Supplement, Appendix 1**).

Dwelling No.	Address	Distance to closest turbine	Comments	Visual Effect
<b>Skeet Road</b>				
64	1434 Skeet Road	2.3km	Dwelling screened from view of turbines by the surrounding shelterbelt to the south and east.	None
63	1414 Skeet Road	2.2km	Old dairy factory? Dwelling to the east has a shed (?)nearest the road. Dwelling is screened to the south by vegetation, may experience very oblique views towards the turbines from windows on the eastern side.	Low
65	1435 Skeet Road	2.2km	Primary views face north. May experience very oblique views towards the turbines from eastern side windows, filtered by vegetation along Kaupokonui Stream.	Moderate
24	1389 Skeet Road	1.9km	Primary views from dwelling face north. Possible oblique views towards Site filtered by windbreak vegetation to the south and screened by adjacent dwelling to the east.	Moderate-Low
25	1387 Skeet Road	1.9km	Primary views from dwelling face north. Possible oblique views towards turbine sites, with the lower part of the turbines screened by windbreak vegetation.	Moderate-Low
26	1379 Skeet Road	1.9km	Primary views from dwelling face north. Possible oblique views towards Site from the south, partially screened by windbreak vegetation. Views from the east screened by adjacent dwelling.	Moderate-Low
27	1377 Skeet Road	1.9km	Primary views from dwelling face north. Possible oblique views towards Site from the south, partially screened by windbreak vegetation. Oblique views from the east where windbreak vegetation will screen the lower part of the turbines.	Moderate
28	1319 Skeet Road	1.6km	Primary view north, with possible views south towards turbine sites, windbreak vegetation will screen the lower part of the turbines.	Moderate
29	1312 Skeet Road	1.6km	Dwelling orientated south-east towards Site. A mixed shelterbelt to the south screens the turbine masts and hub from view with only the tops of the rotors visible above the shelterbelt. However, while only	Moderate

	(Delvin/Poole property; viewpoint H29)		the tips of the rotors are visible, there is the 'windscreen wiper' effect to consider. This phenomenon is sometimes considered as having a greater visual effect that when turbines and rotors are fully visible.	
<b>30</b>	1291 Skeet Road	1.5km	Dwelling orientated NW-SE, with possible oblique views from the southern windows towards the Site. Vegetation surrounding the Waiokura Stream to the south-east and intervening shelterbelts will screen the lower part of the turbines.	Moderate
<b>31</b>	1266 Skeet Road	1.6km	Primary views from this dwelling are south-east towards the Site. However mixed vegetation along the Skeet road boundary will obscure most of the view.	Low
<b>32</b>	1197 Skeet Road	1.7km	Primary views from this dwelling are north west. Views to the south-east appear to be largely obscured by garden vegetation and shelterbelt trees to the south.	Low
<b>33</b>	1210 Skeet Road	1.7km	Primary views from this dwelling look north towards Mt Taranaki. South facing windows are small high windows designed to let in light rather than provide a view.	Low-None
<b>North of 34</b>	1174 Skeet Road	1.8km	The view south from this dwelling looks towards shelterbelts lining Skeet Road which would obscure views of the Site.	None
<b>34</b>	1175 Skeet Road	1.8km	South facing windows in this dwelling look towards the Site. Turbines would be visible beyond windbreak vegetation.	Moderate
<b>13</b>	1128 Skeet Road	2.1km	Primary views from this dwelling face south. An oblique view of the turbines may be visible beyond shelterbelt vegetation.	Low
<b>57</b>	1054 Skeet Road	2.6km	The view from this dwelling is orientated south-east, away from the Site. An existing gas wellsite is visible opposite the property on the southern side of Skeet Road. Only one main window looks south, along with another very small window.	Low-None
<b>58</b>	982 Skeet Road	3.3km	Views south from this dwelling are largely obscured by trees in the front garden.	None
<b>59</b>	979 Skeet Road	3.3km	Views from the lower storey of this dwelling are obscured by other houses to the south. There is a possible oblique view towards the Site from an upper storey window.	Low
<b>Ahipaipa Road</b>				
<b>60</b>	970 Ahipaipa Road	3.2km	Views towards Site obscured by front garden vegetation and adjacent house.	None
<b>61</b>	966 Ahipaipa Road	3.2km	Primary views orientated away from Site, views to the south obscured by adjacent house.	None
<b>62</b>	964 Ahipaipa Road	3.2km	Primary views orientated away from Site and obscured by hedge, views to the south obscured by surrounding hedging.	None

37	953 Ahipaipa Road	3.1km	Open, oblique views towards Site from the west. Views from southern windows obscured by garage. Planted shelterbelt around the house will provide screening in the future.	Low
36	933 Ahipaipa Road	3.1km	Oblique views from the west possible towards Site.	Low
35	925 Ahipaipa Road	3.1km	Rear of the dwelling is orientated to the south-west towards Site. Views may be partially screened by rear fence and shed.	Low-None
38	907 Ahipaipa Road	3.1km	Rear of the dwelling is orientated to the south-west towards Site. Views are likely screened by vegetation and outbuildings at the rear of property	None
39	876 Ahipaipa Road	3.2km	Front of dwelling views orientated west; oblique views possible towards the Site. Some trees in front garden will partially obscure views. Upper part of the turbines may be visible beyond intervening vegetation.	Low
<b>Manaia Road</b>				
23	722 Manaia Road	1.8km	Primary views face towards Manaia Road. Oblique views from rear of the dwelling are screened by garden and shelterbelt vegetation.	None
22	680 Manaia Road	1.7km	Primary views face west. Possible oblique views from rear windows. A shelterbelt will screen the lower part of the turbines.	Low
107	655 Manaia Road	2.0km	Primary view looks towards Manaia Road and the Site but are screened from view by shelterbelt along the road.	None
106	641 Manaia Road	2.0km	Dwelling faces towards Manaia Road and the Site. Hedge on opposite side of road will screen the lower part of the turbines.	Low
21	648 Manaia Road	1.6km	Main dwelling is looks towards Manaia Road. Outbuildings to the east will obscure views towards the Site, the upper part of turbines may be visible from rear windows.	Low
105	594 Manaia Road	1.9km	Possible oblique views from rear windows, likely obscured by vegetation in back garden. Upper part of the turbine may be visible.	Moderate-Low
20	586 Manaia Road	1.7km	Possible oblique views from rear windows of upper parts of the turbine. Shelterbelt to the east may provide some screening.	Moderate
104	577 Manaia Road	1.9km	Primary view from front windows looks towards Manaia Road and the Site. Hedge on opposite side of Manaia Road provides some screening, the upper parts of the turbines will be visible.	Moderate
19	560A Manaia Road	1.7km	Oblique views towards Site screened by vegetation in rear garden.	Moderate-Low
103	553 Manaia Road	1.9km	View from front windows looks towards Manaia Road and the Site. Hedge on opposite side of Manaia Road provides some screening, the upper parts of the turbines will be visible.	Moderate-Low

17	492 Manaia Road (Smith & Sutton property)	1.6km	Views are possible from the eastern windows of the dwelling, with vegetation and outbuildings providing screening towards the turbines.	High
18	492 Manaia Road (Smith & Sutton property; viewpoint H18)	1.7km	Views are possible from the eastern windows of the dwelling, with tall vegetation and outbuildings providing screening towards the turbines. Viewpoint is from the adjoining paddock just outside the curtilage where there are open views towards the turbines.	High
16	444 Manaia Road	1.8km	Dwelling looks north-west towards Manaia Road. Possible oblique views from windows facing south-east towards southern turbines are obscured by shelterbelt surrounding the property.	Low
15	436 Manaia Road (Lawn property)	1.8km	Dwelling looks east towards Manaia Road. Oblique views from upstairs rear windows towards the turbines are mostly obscured by trees and outbuildings)	Moderate-Low
66	445A Manaia Road	2.0km	Dwelling faces east towards Manaia Road. Outbuildings and vegetation in the front garden partially obscure views towards the Site.	Moderate
14	421 Manaia Road (Lawn property; viewpoint H14)	1.9km	A visual simulation has been prepared close to the entrance of this house. The turbines are prominent silhouetted against the sky but do not dominate the landscape because of the number and type of foreground elements present and the uniformly flat topography.	Moderate
102	373 Manaia Road	2.0km	Primary view faces south-east away from the Site. Windows in the side of dwelling facing northeast are screened by shelterbelt.	None
43	376 Manaia Road	1.9km	Oblique views are available from side windows and conservatory towards the Site. The turbines would be viewed across the surrounding agricultural landscape, partially obscured by the garage.	Moderate-Low
42	358 Manaia Road	2.0km	Views obscured by surrounding garden/shelterbelt vegetation and outbuildings	None
67	339 Manaia Road	2.2km	Oblique views from the northern windows towards the Site would be screened by surrounding vegetation.	None
68	331 Manaia Road	2.2km	Oblique views from the northern windows towards the Site would be filtered by surrounding vegetation and house set the north	Low-None
99	304 Manaia Road	2.3km	Oblique views from windows towards the Site would be screened by surrounding vegetation.	None
100	303 Manaia Road	2.4km	Oblique views from windows towards the Site are likely screened by surrounding vegetation.	Low-None
101	303 Manaia Road	2.4km	Oblique views from windows towards the Site would be screened by surrounding vegetation and the adjacent house.	None

<b>98</b>	282 Manaia Road	2.6km	Oblique views from windows towards the Site would be screened by surrounding vegetation.	None
<b>Thomas Road</b>				
<b>40</b>	37 Thomas Road	1.7km	Oblique views from rear windows towards Site. Turbines would be prominent in the view but lie to the east of the mountain..	Moderate
<b>41</b>	44 Thomas Road	1.7km	This dwelling sits on a raised platform facing Thomas Road, with views towards the mountain, with the Site to the east. Garden vegetation along the road filters views from the north.	Moderate-Low
<b>108</b>	69 Thomas Road Manaia (Johnson property H108)	1.5km	This new dwelling has views orientated towards the mountain, with the Site to the east. The turbines while prominent, do not have the mountain as the backdrop and instead they sit to the east. From this angle, pine shelterbelts visually separate the turbines from the sweeping slopes of Mt Taranaki. Silhouetted against the sky.	Moderate
<b>Palmer Road</b>				
<b>12</b>	219 Palmer Road	2.3km	Oblique views from windows towards the Site would be screened by surrounding shelterbelt vegetation.	None
<b>11</b>	199 Palmer Road	2.2km	Oblique views from windows towards the Site would be screened by surrounding shelterbelt and garden vegetation.	None
<b>48</b>	15 Palmer Road	1.8km	Views from rear windows of house look directly west towards the Site. The turbines will be prominent in the view, viewed across the surrounding agricultural landscape with the sky as backdrop.	High
<b>Tempsky Road</b>				
<b>3</b>	483 Tempsky Road	2.0km	Oblique views from windows towards the Site would be screened by surrounding shelterbelt and garden vegetation.	None
<b>2</b>	467 Tempsky Road	2.2km	Oblique views from windows towards the Site possible. Field boundaries and the adjacent house will partially screen.	Moderate
<b>1</b>	456 Tempsky Road	2.2km	Views towards the Site screened by large trees and shelterbelt.	None
<b>9</b>	391 Tempsky Road	2.9km	Views towards the Site screened by large trees and shelterbelt.	None
<b>10</b>	392 Tempsky Road	2.9km	Oblique views from windows towards the Site possible. Field boundaries and the shelterbelt to the west will partially screen.	Low
<b>77</b>	365 Tempsky Road	3.2km	Oblique views towards Site may be possible, with turbines viewed against the sky, partially screened by shelterbelt vegetation	Low
<b>Katotauru Road</b>				
<b>76</b>	337 Katotauru Road	3.1km	Views from lower storey are screened by hedge. Oblique views from upper storey possible, filtered through trees and shelterbelts.	Low
<b>75</b>	283 Katotauru Road	3.1km	Potential oblique views from northern windows towards Site, filtered by intervening vegetation. Views from west obscured by garage.	Low

72	200 Katotauru Road	3.3km	Potential oblique views from northern windows towards Site, viewed across the surrounding agricultural landscape and filtered by intervening vegetation	Low
73	179 Katotauru Road	3.4km	Oblique views from northern windows towards Site, screened by surrounding vegetation and outbuildings.	None
74	147 Katotauru Road	3.4km	Only one small side window faces towards the Site. Views from here likely screened by shelterbelt to the north.	Low-None
<b>Kokiri Road</b>				
49	414 Kokiri Road	1.1km	Views from west-facing windows of the house have a near oblique view towards the Site. The turbines will be prominent in the view, with the sky as backdrop.	High
86	359 Kokiri Road	Recently demolished	Views from rear windows of house look directly west towards the Site. The turbines will be prominent in the view, with the sky as backdrop.	N/A
87	291 Kokiri Road	0.7km	Views from rear windows of house look directly west towards the Site. The turbines will be prominent in the view, with the sky as backdrop.	High
78	271 Kokiri Road	0.8km	Views from rear windows of house look directly west towards the Site. The turbines will be prominent in the view, with the mountain forming the backdrop to some turbines.	High
4	232 Kokiri Road	0.9km	Views from west and north facing windows of the house have a near oblique view towards the Site. The turbines will be prominent in the view, viewed across the surrounding agricultural landscape, with the mountain as backdrop.	High
5	194 Kokiri Road	1.9km	Views from west and north facing windows of the house have a near oblique view towards the Site, however it is screened by surrounding garden vegetation.	Very Low
6	168 Kokiri Road (Meyer property; viewpoint H6).	1.3km	This single level dwelling is set back from Kokiri Road and is surrounded by tall shelterbelts and tree planting thus restricting views from the house or its immediate surrounds. Refer to Viewpoint H6 for a view towards the Site adjacent to the driveway of this property.	None from dwelling and curtilage but High from area beyond shelterbelts and other planting.
69	139 Kokiri Road	1.5km	This dwelling has oblique views from northern windows north west towards the Site. The dwelling is mostly surrounded by vegetation, obscuring views towards the Site.	Unlikely from dwelling but moderate-from

				adjoining areas beyond planting
<b>Inaha Road</b>				
<b>47</b>	532 Inaha Road	1.6km	Primary views from this dwelling looks north towards the mountain. The two west facing windows are small high windows designed to let in light rather than provide a view and look towards a hedgerow boundary on the opposite side of Inaha Road.	None
<b>7</b>	520 Inaha Road	1.7km	Views from this dwelling towards the Site are obscured by surrounding vegetation and outbuildings. There may be some views available from the curtilage near the garage. The turbines would be viewed beyond the hedgerow boundaries to the side of the mountain.	Low-Moderate
<b>8</b>	480 Inaha Road	1.9km	This dwelling looks towards Inaha Road. There would be oblique views from the front verandah and from north facing windows across the hedgerow boundaries towards the upper part of the turbines.	Moderate-High
<b>70</b>	425 Inaha Road	2.2km	This dwelling looks towards Inaha Road. There would be oblique views from the north facing windows towards the Site. The turbines would be viewed beyond the hedgerow boundaries to the side of the mountain. The maunga will not provide the immediate backdrop to the turbines but they will be viewed in the context of the maunga.	High
<b>71</b>	Address? Te Aroha Marae (viewpoint H71).	2.4km	Te Aroha Marae sits on a gentle rise above Inaha Road and has wide open views northwards to Mt Taranaki. Hedgerows and vegetation growing along the Inaha Stream occupy the middle ground. The turbines are seen in the context of the mountain and while they are not located directly in front of the maunga they are very much viewed in its context and interrupt the view to the lower sweeping slopes.	High
<b>No number?</b>	353 Inaha Road	2.8km	Views from northern side windows side windows are partially obscured by the fence, so only a view out the upper part of the window is possible.	Low
<b>No number?</b>	307 Inaha Road (Dwelling on Smith property)	3.2km	This house views north to take advantage of views of the mountain. The turbines occupy a small proportion of the overall panoramic view but are viewed against the backdrop of Mt Taranaki.	Moderate -High
<b>88</b>	273 Inaha Road (Smith property; viewpoint H88)	3.4km	This property has a tall hedge along the western boundary of the garden to protect the house and outdoor living areas from the dominant wind but along the rear garden boundary there is no planting and so there are unobstructed views across farmland	High

			<p>towards Mt Taranaki in the distance. The house has been positioned to take advantage of the open and unobstructed view of Mt Taranaki from many rooms from within the house and also from the outdoor living areas and garden.</p> <p>From this distance and angle, the turbines occupy a small proportion of the overall panoramic view and are seen against the backdrop of Mt Taranaki. The turbines interrupt the open uncluttered view of Mt Taranaki.</p>	
<b>Normanby Road</b>				
<b>85</b>	1101 Normanby Road	3.1km	<p>There are two houses at this property. The eastern house, adjacent to the former Waiokura dairy factory, is elevated from the road has side windows which look directly north towards the Site and the mountain beyond. The turbines would be screened from view to the right of the mountain by the pine shelterbelt on the opposite side of the road.</p> <p>The western house also looks north towards the mountain. The turbines would be visible in the right of the view from the house, partially obscured by the pine shelterbelt.</p>	None – eastern dwelling Low – western dwelling
<b>84</b>	1078 Normanby Road	2.9km	This dwelling is surrounded by a large garden and hedges. Any east facing windows appear to be screened by vegetation from views towards the Site.	None
<b>83</b>	1048 Normanby Road	2.7km	This house is surrounded by a hedgerow and garden, which screen the house from views of the turbines to the east.	None
<b>82</b>	1015 Normanby Road	2.7km	This dwelling, as with many other on Normanby Road, has its primary views orientated to the north towards the mountain. The Site lies to the east, views towards it would be filtered by the pine shelterbelt to the east on the opposite side of the road.	Low
<b>81</b>	1005 Normanby Road	2.7km	As above, this dwelling looks north towards Mt Taranaki. A shelterbelt lies directly opposite the house across the road, views towards the Site are available to the right of this, The upper parts of the turbine would be visible beyond the shelterbelt and hedgerow boundaries.	Low
<b>79</b>	984 Normanby Road	2.6km	Views towards the Site from this house would be partially screened by outbuildings and shelterbelt trees along the driveway to the east of the house. However, it is likely that as with other houses along Normanby Road, this dwelling has views towards the mountain and	Moderate

			the Site. The turbines would be visible in a stacked formation to the right of the mountain in the view.	
<b>80</b>	960 Normanby Road	2.6km	This house has a tall windbreak and trees along Normanby Road and to the eastern side of the house, but open views towards the mountain and the Site. The turbines would be visible in a stacked formation to the right of the mountain in the view.	Moderate
<b>44</b>	930 Normanby Road	2.5km	As above, this dwelling looks north towards the mountain. The landform rises away from the dwelling, obscuring the lower slopes of the mountain. This landform also obscures the lower part of the turbines, which are visible, not stacked but with blades overlapping, to the right of the mountain in the view.	Moderate
<b>46</b>	889 Normanby Road	2.7km	This house is elevated and set back from Normanby Road, with a dense hedgerow along the front boundary. There is however a framed view down the driveway from this house towards the Site and the mountain. The turbines would be visible against the backdrop of the mountain.	Moderate-High
<b>45</b>	883 Normanby Road	2.7km	This house is also set back from the road, and surrounded by high trees, with a narrow oblique view down the driveway towards the Site. Views towards the mountain and the Site and screened by pines planted along the stream on the opposite side of the road.	None
<b>89</b>	722 Normanby Road	3.6km	Potential oblique views from western windows towards Site, with the turbines viewed across the surrounding agricultural landscape and filtered by intervening vegetation.	Low
<b>90</b>	705 Normanby Road	3.8km	Views to the west screened by dense hedge.	None
<b>91</b>	683 Normanby Road	4.0km	Views towards Site screened by boundary vegetation and shed.	None
<b>92</b>	680 Normanby Road	4.0km	Views towards Site screened by boundary vegetation and landform.	None
<b>93</b>	25 Old Normanby Road	4.2km	This property lies within a valley formed by the Inaha Stream. Views towards the Site are screened by landform.	None
<b>94</b>	23 Old Normanby Road	4.3km	As above, views towards Site screened by landform.	None
<b>95</b>	17 Old Normanby Road	4.3km	As above, views towards Site screened by landform.	None
<b>96</b>	11 Old Normanby Road	4.3km	Views towards the Site screened by landform and buildings.	None