

Blueskin People Power

Community perspectives on the BRCT energy project

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Background

Recent research has stressed the importance of early engagement with local communities when a renewable energy development is proposed (Stephenson and Ioannou, 2011). The authors became very interested in the proposal to develop 1-3 community wind turbines in the Blueskin Bay area north of Dunedin. This presented an opportunity to examine the public perceptions of the 'Blueskin Power' project, which (although still emerging as a concept) aimed to complement other energy-related initiatives in the community which had been the subject of a variety of community engagement activities over the previous 2-3 years. The aim of this research was threefold, to examine what the state of knowledge about 'Blueskin Power' is within the Blueskin Bay community, what is the most effective means of communication with the Blueskin Bay community and how can the Blueskin Resilient Communities Trust (BRCT) assist with developing this knowledge capacity. Sixteen in-depth interviews were undertaken with residents from Waitati, Orokonui, Osborne, Pūrākaunui, Doctors Point, Warrington and Seacliff. It should be noted from the outset that the Waitati Energy Project, as it was initially called, first centred on the 200-household settlement of Waitati, and it has only been over the past 6-9 months that the potential of including this wider geographical spread of settlements has been considered, so a varied spread of knowledge of the project was expected.

Participants were first contacted by phone and asked if they would like to discuss their perceptions in more detail with an interview at a time and place of their choosing.

While this method was initially good I found many residents in Blueskin Bay work in Dunedin and were not home until late at night. The further away from Waitati I made contact with more temporary residents who reside in the area over the summer months and thus knew very little about the 'Blueskin Power' project. In addition I found support for the concept of 'a community wind turbine' was strong in Waitati and support diminished further afield when the proposal was seen as 'a wind turbine in our community'. While people were generally supportive of the research there were a few people who I spoke with who refused to partake, feeling as if this was a means of rallying support for the project.

After the low response rate from phoning people I decided to target those who are currently involved with the project combined with door knocking. By doing so I found some people who self identified as being intimately involved in the community groups associated with the project, yet were not aware of key aspects of the 'Blueskin Power' project that should now be common knowledge. This was unexpected as one would assume that those intimately involved in renewable energy development would have a good grasp and knowledge of the project, more so than community members which was the initial focus of this research. Therefore the scope of this research was broadened to investigate the extent of knowledge of the 'Blueskin Power' project of all individuals including some within the groups associated with the project (BRCT and WEP (Waitati Energy Project)).

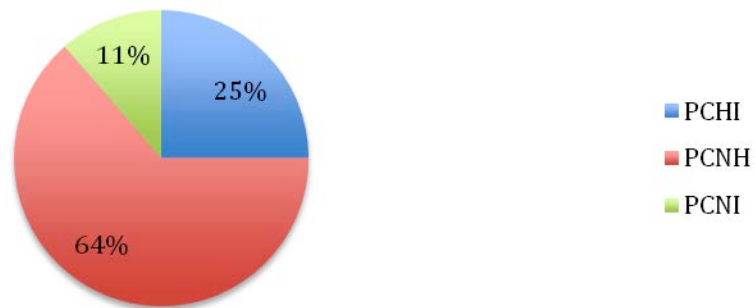
Interviews

The interviews were conducted between November 2010 and February 2011 in the Blueskin Bay area. Each interview was based on topic areas that formed fifteen questions (appendix 1) that were recorded and transcribed for further analysis. On average each interview took forty-three minutes with a range from eighteen minutes to one hour and eighteen minutes. In total forty-four households were phoned and twenty-seven were door knocked at random (see table below). Of the households phoned sixty-four percent were not at home at the time. Eleven percent contacted did not want to partake in this research, while twenty-five percent phoned were interviewed. The success rate of those households contacted by phone and followed up by an interview was sixty-nine percent ($11/16 = 69\%$).

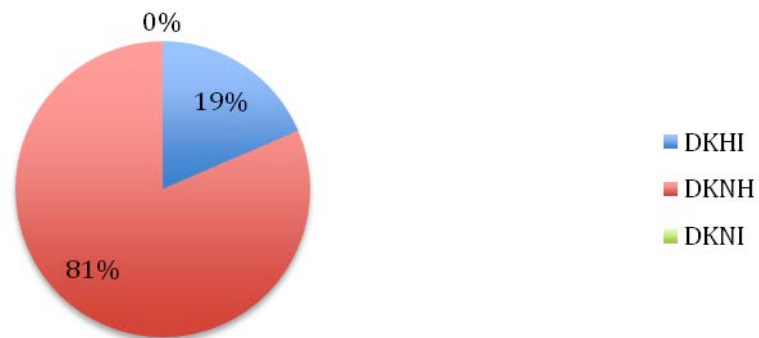
RESPONDENT	DURATION	METHOD	RESPONDENT	DURATION	METHOD	RESPONDENT	DURATION	METHOD
1	39.39	PC	1	39.39	PC	7	51.02	DK
2	21.02	PC	2	21.02	PC	8	18.23	DK
3	25.49	PC	3	25.49	PC	9	20.12	DK
4	46.45	PC	4	46.45	PC	10	19.36	DK
5	52.05	PC	5	52.05	PC	13	29.32	DK
6	78.02	PC	6	78.02	PC	TOTAL	138.05	
7	51.02	DK	11	66.32	PC	AVERAGE	27.61	
8	18.23	DK	12	59.32	PC			
9	20.12	DK	14	76.49	PC			
10	19.36	DK	15	34.55	PC			
11	66.32	PC	16	46.15	PC			
12	59.32	PC	TOTAL	545.25				
13	29.32	DK	AVERAGE	49.568182				
14	76.49	PC						
15	34.55	PC						
16	46.15	PC						
TOTAL	683.3							
AVERAGE	42.70625							

PC	PHONE CALLS
PCHI	PHONE CALL HOME INTERVIEW
PCNH	PHONE CALL NOT HOME
PCNI	PHONE CALL NOT INTERSTED
DK	DOOR KNOCKING
DKHI	DOOR KNOCK HOME INTERVIEW
DKNH	DOOR KNOCK NOT HOME
DKNI	DOOR KNOCK NOT INTERESTED

PHONE CALLS



DOOR KNOCKING



METHOD	PCHI	PCNH	PCNI	PC TOTAL	DKHI	DKNH	DKNI	DK TOTAL	OTHER	TOTAL
COUNT	11	28	5	44	5	22	0	27	11	82
%	25	63.64	11.36	100	18.5	81.48	0	100	na	na

The initial timing of calls meant that residents living in Blueskin Bay and worked in Dunedin were unable to be reached. Accordingly a more targeted approach was adopted whereby households were contacted in the early evening after work. In addition to this I also conducted random door-to-door canvassing of the Blueskin Bay area to increase the sample size in the lead up to the summer holiday period. A total of twenty-seven households were door knocked and while eighty-one percent of houses had no one home at the time a further nineteen percent were contacted and agreed to participate in this research. In contrast to those phoned the people contacted during the door-to-door canvassing agreed to be a part of the research (5/5 = 100%). However I did find that the informants that were phoned prior to the interview provided more thorough answers and generally had greater knowledge of the 'Blueskin Power' project, whereas the households that I door knocked were often agreeing to the interview on the premise that I would educate them as

they often knew very little about the project and the sense of feeling excluded is evident in their transcripts. These findings are supported by the average duration of the interviews being fifty and twenty-eight minutes long for those households phoned and door knocked respectively.

As mentioned previously many of the Blueskin Bay residents work in Dunedin and are very busy. Hence there were an additional eleven people who expressed interest to be a part of the research yet due to time constraints their perceptions although important were not able to be included. It is hoped that the BRCT can contact these people as they move into the next phase of the 'Blueskin Power' project with community consultation.

The following section is a thematic analysis of all interview transcripts, grouped around the themes of Sense of Community, Energy, Effects, Developer, Personal Benefits and Engagement. Within each theme I have further broken down the quotes into specific topics that emerged from the dialogues. I have not carried out further analysis of the interview material apart from identifying topic areas in which respondents frequently asked questions.

2. Sense of community

"I'm very interested and supportive both in the because of the um general sense of community that this thing can generate and ah all the good that it can do in that general sense but also in the fact that it can be of benefit to me and of other ah individual households within the community." (R3)

"I can see it has the potential to unite the community to some degree um having a common purpose you know a bit like the war effort they brought people together and they came out of their houses and did stuff together." (R5)

"The whole thing that interests me about it is and what I like about it is neither of those things it's just that it's creating the concept of it or the reality of it what I hope that it would do is that it would create a model that would get repeated around New Zealand and around the world of having smaller and more local power sources and in a similar way food sources and everything sort of fits within kind of an ideology of my own which is around small and local." (R6)

"I also like that it creates a sense of community you know and one of the other things that I like about the Blueskin Resilient [Communities] Trust and the um power stuff is that developing that Blueskin Bay identity rather than just Waitati or just Warrington or just Seacliff and the more that we can build a community identity there is a whole lot of spin offs in that and in multiple ways you know like we hold planting days and people come from Purakaunui and Long Beach and Karitane you know and so the more that people help each other out the better as far as I'm concerned." (R11)

"If we all just hop in our cars and go to town and do our work and shopping here and all of our cultural exchanges there like go to movies and concerts and things in Dunedin then yeah we are just a suburb but anything like this will throw the community in together and get them to solve local communal issues." (R14)

2.1 Community Demographic

"Well I think its pretty consistent that we do and its probably tricky in Puraukanui because Purakaunui is a its half sort of cribby bachy and maybe even more than half so when you are the person delivering the circular or whatever you may not know 'is there really someone here?' you know...because some of the places are full time but like both neighbours on either side of us aren't you know they are just used as baches and then yeah so it varies a lot." (R7)

"This time of year you will catch more people around than would normally be here in July or whatever yeah." (R7)

"Well we have got a friend there who rents her place but she doesn't rent it sort of over the Summer so during Summer we just moved to a different place." (R7)

“The thing with Warrington there are people who work very hard and are very busy and that’s why it’s hard to engage in the community because it’s not that they’re not interested but there isn’t time you know they’re all frantically busy with a hundred different things so reading long documents and looking at a lot of paper work takes a lot of time, looking at visuals doesn’t take a lot of time so you get a large amount of informed choice for a minimal amount of their input of in terms of time.” (R11)

“There is a lot of working class people here there is a lot of people without a lot of money so cost is really important.” (R11)

2.2 Community Division

“I think if they try and do it there will be a lot of community unrest and that’s what they have got to weigh up against.” (R8)

“I can see from the people in Waitati’s point of view that there might be really good value in this and it’s not going to impinge on their lifestyles too much but for the people over here it will and I think that if they did try and push ahead it would cause a great deal of unrest I think.” (R8)

“Oh there will be people who don’t want it and who will fight it every step of the way because they will think that the big windmill will ruin their life and you know I’m not looking forward to the community battle really to get the thing through because it will alienate, there is probably some people who I know and I won’t agree with them but I’ll still be sad that they’re pissed off and think that everybody else is their enemy and so you know I’m not actually looking forward to it.” (R14)

“I guess some times there is a, there’s a perceived divide between the you know the greenie brigade and the and the others that don’t particularly want it and I think about that sort of stuff and I you know I do find that frustrating and I imagine that there maybe some people for whom the idea of doing something to make their children’s future a little brighter isn’t enough to have a wind turbine on the hill.” (R15)

“I think it’s good so long as the area and the communities aren’t adversely affected there has to be you know those over riding benefits to agree and you wouldn’t want to be in a position where it was actually splitting the communities because you know as I said before small communities are fairly tight and yeah they do have their views.” (R16)

2.3 Symbols

“Symbols don’t emerge from something practical they emerge from how people feel about it and I think that that would depend on um the level of national recognition that Blueskin Bay got for its work in this area and if it

received lots of recognition for it then it would become a symbol of pride and a thing that the area and it could become something that it could be something that Blueskin Bay becomes famous for in that sense.” (R4)

“The big thirty the big scale turbines are very visible uh on one side of it that can be very sort of symbolic sort of something up there and feel proud of that but some other people would see it as an eyesore.” (R5)

“I guess there is kind of an argument that you can say well the Danes are fairly energy conscious um but I it’s a chicken and egg thing I don’t think that they are energy conscious because of the um ah wind turbines I think it’s the other way around I think that they are more a symbol of their attitude towards conservation of energy and things like and riding their bikes and all sorts of drama that they do uh and um yeah so I think it’s a really grasping at straws to use that as an argument it’s sort of like saying ‘you’ll know what’s best for you once we put this thing up and you’ll realise hey this is really cool’ and you will feel morally obliged to cartel to it.” (R8)

“You know the Ecosanctuary is semi unique to New Zealand I mean there is two or three of them now I think um but the Ecosanctuary with a wind farm right next to it or possibly even inside it um ah you know that would be symbolising everything that there is to admire about our area.” (R14)

2.4 Public Awareness

“The key issue is probably getting people to understand how this could really be an important thing, I think you have got two facets you’ve got the local and you’ve got the bigger picture and this is a very environmentally minded community much more so than a lot so you have got a lot of awareness here about potential environmental problems in the bigger scale of things like sea rise level and that sort of thing and I think that if there was a more general, a more widespread increase in awareness about such problems then we would be likely to see more action happening.” (R4)

“A lot of my family here call myself the ‘green sheep’ of the family and most of my family just don’t give a shit about sustainability issues and they are not even aware of them let alone care about them.” (R5)

“I’ve had discussions with a lot of people busy trying to save the world you have got a handful of people who are on board and excited and doing their bit and trying hard and it seems to me that there is a huge number of people who don’t really care and, how do you win those people over and how do you get through to them and get them on board.” (R5)

2.5 Profile of the energy project

“Well they’ve been trying out this experimental one at X’s place but that’s nothing to do with this is it?” (R2)

"I don't think I've ever raised it when we've been with people, other people in the community and I don't think they have ever raised it with me." (R3)

"I think there are a lot of people who don't and there is so of the core group that attend WEP meetings they obviously do and then there's a much wider fringe of people who are actively involved in the whole sustainability, environmental protection movement and I think they are interested and probably understand quite well the benefits of it also but then there are people I am thinking of people further along Doctors Point Road here who possibly don't really feel themselves as part of the Waitati community and maybe they think of themselves as Doctor's Point or maybe something like that and maybe they know virtually nothing about it at all." (R3)

"Doing things through the local radio station I think is a good idea that's very new and hasn't really gained a lot of traction yet I don't think but it might." (R4)

"I will be pushing for something a bit more focussed a bit more specific to this if you like at some stage but I haven't got as far as that yet whether it's a Facebook page or whatever but we'll need to have something definitely around this because there will be a lot of documentation that X working on that will be useful to other organisations and whether or not that is sort of owned by Hikurangi at the moment I'm not really sure but a lot of that documentation will be useful in various different ways I would imagine for other projects because if we are trying to do something at a community level about power then there might be some other communities that want to do something about water and so they could use what we've learned and the mistakes we've made to empower their own projects really and make them really go well...so I would like to see a lot of that material available and the way to do it is online no question but you've got to get some money if you are going to do a website." (R4)

"I know nothing other than what you have told me." (R8)

"Really nothing I guess I had heard somebody speak about it but I can't recall much details so really just what you've told me today when you've come here." (R9)

"I mean as it stands at the moment we really know nothing about it at all until you've come here today." (R9)

"It's having trouble breaking through into sort of people's general beer talk you know people talk about the motorway and people talk about the water but the energy project is just what those guys over there are doing you know." (R14)

"I don't know it doesn't really come up as a topic of conversation that much oh you know definitely the idea of sustainability and things are talked about a lot and if the subject comes up people really appreciate the idea of you know communities producing what they need including power and that's you know

definitely an idea that I think people that I know would be receptive to in some way it would fit in with the school for example as part of Enviroschools.” (R15)

“We didn’t know anything at all about one going ahead in this area and another one going ahead over at Waitati way we knew of the one that is there and have read the articles and that in the Blueskin News about that but it’s interesting that the research has been going on for a few years and yeah we didn’t know anything about this one.” (R16)

2.6 Legacies of past events and projects

“Because we used to own our own water supply you know and over the years and then about oh I don’t know ten or twelve years ago or something um it was more or less forced into uh ‘oh no that’s it’ and so we had to start paying for water again even though we owned our own thing.” (R1)

“Because we’d already well not us personally but because the community had already paid hundreds of thousands off over the years on their own you know and of course there was big meetings and things got real heated there for a couple of years and oh you know.” (R1)

“Yeah people have been trying to develop housing and the Purakaunui Environmental Group has been resisting that but um but a wind turbine might be seen more favourably.” (R7)

“I can recall when they were proposing the aluminium smelter at I think Aramoana and they told us about the huge pylons that were going to be along the skyline over that way.” (R6)

“Yeah I might yeah because even Orokonui is a great thing but the fence line when they put that in it was quite a blot on the landscape too.” (R9)

“Otago Power for a while was community owned and I loved that and we had some say and we got dividends and then it got sold as part of you know the government policy to change and so the way our national governments changed the ways the power was done in New Zealand outraged me it just don’t even get me started it so angered me because power is a basic.” (R11)

“It’s like with what the Clyde Dam did it’s just outrageous to me I arrived just before it and saw how beautiful it was and couldn’t believe they would consider such a grand scale project.” (R11)

“When we were trying to stop the water being pushed on us from Dunedin um Warrington unanimously didn’t want to lose its own water supply but peoples reasons were quite diverse.” (R11)

“I remember the days of the old power boards and everything so yeah I mean in a way this is just the pendulum being pulled back the other way and that’s good.” (R14)

“Well actually did you know that the Maori name for Warrington is ‘Place of the winds’? Okahau which means, O-ka-hau yeah, well O-ka means Nga which means ‘of the’ but ka in the local dialect replaces nga that’s why Kai Tahu is or Ngai Tahu is called Kai Tahu down in the South Island um yeah so it means ‘the place of the winds’.” (R14)

“I mean when I was child the Clyde Dam got put in and you know I used to go to Aramoana Smelter protests and things like that and that whole I guess for some people anyway for my generation ‘think big’ thing made people want to think small I suppose.” (R15)

“Yeah because when um the Potato Point Hill up here you know it’s just been bought by the property developer and then he sold it and everything.” (R13)

“We are always fighting something here we had them trying to do cockle harvesting in the inlet years ago.” (R13)

“The big recent Resource Management Act type thing out here was the Waitati curve that was the most recent but in the end only about five people made submissions to that and some of them were in favour of it.” (R14)

2.7 Resilience

“Well obviously if you can set it up yourself then once you’ve done that then you can say ‘bye’ to the power companies and paying them ever again you know so obviously that’s the ultimate isn’t it?” (R1)

“It was partly family reasons and partly also because when we had been visiting down here we had appreciated both the natural ah um advantages and the beauties of the area and also something about the Waitati community itself that is quite attractive it seemed to be a very vibrant and active and thoughtful resilient community so yeah we were attracted to it.” (R3)

“I think that until there is a general perception that we are in trouble and we’ve got to take action then it’s going to be hard to get a lot of traction amongst the people who are not generally aware that there’s a problem or simply don’t care who ‘I’m fine thanks’ and don’t really care about anybody else.” (R4)

“In a way the physical constraints of it are really minor compared to trying to change peoples’ minds about things or attitudes around things.” (R4)

“Planning for the future eventually some of these dams are going to be decommissioned and um if we get an unexpected earthquakes that something yeah resilience is useful yeah resilience and environmentally sound are important things to me and if there is economic benefits then that is a cherry on top I guess.” (R5)

"I guess specifically about community communication because um I was sitting here and I knew it was raining a lot and I was home the whole day and I kind of went out and checked the drains locally around my house but I had no idea that three blocks away there was people being rescued off the roof of their house by helicopter... so if there had been so sort of community system of communication then I could of been out there helping and sand bagging or whatever since then I hear that they um...that they will use the siren so that people go and gather at the fire station so that they can help out but yeah apart from that yeah I don't see how that really changed my ideas of the other forms of resilience." (R6)

"This community it's looking creatively and it's looking intelligently and it's looking well ahead of desperation and so that by the time 'if' things are difficult we will already have some things in place and if things never get difficult well we will still have some good things in place you know." (R11)

"It's my personal view that in fact if there's no energy source anywhere near a city then maybe the city shouldn't be there at all you know." (R14)

"I think that the community should be able to provide their own power and their own water and things like that to justify their existence." (R15)

2.7.1 External shocks

"I'm very much in favour of it the whole idea of a community being well almost moving towards self-sufficiency and energy and protecting itself as far as possible from you know a collapse of the main system if that ever should happen or from massive price rises or from whatever it is I'm very much in favour of the idea of a community looking after itself as best it can and making the most of any opportunity to become more and more self-sufficient in whatever way." (R3)

"I think it will become more successful as times get harder by that I don't mean a recession I mean if the price of petrol goes up if the price of power goes up, if there are power black outs, if there are issues around availability of essential services which could be caused by peak oil, climate change, some kind of major disaster tsunami whatever if there is an issue around that or if that sort of thing hits this part of the world then I think we will see a sudden upsurge in interest in what in that project at the moment people I think are generally pretty apathetic I don't think that most people understand the problems that those issues are going to cause and once they do start to hit then we will start to see some real traction, some real action from people and I think a change in peoples attitudes towards becoming a bit more self-reliant." (R4)

"I think that it's a nonsense I don't think that that should be a factor we are past that you know we are too close to potential environmental disaster for what it will bloody well looks like to be important" (R4)

“It brings people together yeah out of disaster you know comes real growth and in fact it’s hard to learn if you don’t make mistakes so yes I see exactly where you are coming from, so unless it goes back to what I said earlier that unless there is some sort of major disaster or change then I think its going to be very difficult to get that sort of momentum.” (R4)

“That’s something positive that came out of something, it was a local very localised disaster yeah no question it is interesting you are dead right.” (R4)

“Yeah we’ve been here for a pretty big flood yup because I work around at the [name]’s property where they’ve got extensive gardens, I work there one day a week and I grow the vegetables for X their shop and so yeah that was really devastating for us cause we had a whole winter crop of vegetables in the ground and I think it was around April and they pretty much all got buried by silt.” (R6)

2.7.2 Power shortage

“I have to say given how windy it is and everything its quite good, its [micro turbine] been pretty reliable I’d say I could count on one hand the number of times in a year and there are a few planned outages for upgrades and things but for unplanned its pretty rare and recently we had that huge wind storm that was dropping branches and everything a week or two a couple of weeks ago and no problem with power, so yeah either we’ve been lucky or its been well designed.” (R7)

“We get a lot of power cuts in Waitati, oh well we do here in Orokonui well more than what I use to get in town anyway.” (R5)

2.7.3 Peak oil

“That fear reaction that I was talking about people panicked about peak oil they are now decimating the rainforests to do biofuel which to me is just so insane it’s just insane but it’s you know out of fear and profit you know whereas what we want to any problem is a well thought out sustainable solution not a new unsustainable solution you know being smart about it so to me being smart about it is multiple avenues like encouraging people.” (R11)

2.7.4 Financial crisis

“It might even do that if the recession continues because this is not a wealthy community well most of it’s not and there are a lot of people here who struggle, it’s cold and so power’s a big cost for a lot of people and so I think that will make a big difference in terms of what will turn peoples heads towards this.” (R4)

2.7.5 Population growth

“Yeah there just became so many more demands on it because lots of houses even up on the hill there, there used to be three houses on that whole hill and now you look at it at night and it’s just lights.” (R1)

“As the population increases I guess we are going to need more generation.” (R5)

2.8 Volunteerism

“I’d like to probably get more personally involved as well you know being an old ex-engineer I could probably contribute something.” (R2)

“I have attended each one of them just really so that I can find out what it is all about and whether we would be able to benefit from it and whether I would be able to do anything to help with it, so it’s something that we have both been interested in ever since we have come here.” (R3)

“I don’t really have the expertise.” (R3)

“Not having the expertise I’d be very reluctant I think and probably prudent not to get any more involved than I am at present.” (R3)

“If you built up some momentum and really got people excited about this and if it was for a fixed duration once the turbines are up and generating and then we can go back to what we use to do that might be an angle to get more people on board.” (R5)

“At the moment I am happy with my involvement, perhaps if I can see something starting to form, something solid I might be more inclined to get more on board.” (R5)

“I’m really interested in it and I’m very passion about supporting other peoples hard work, I’m really grateful that other people are doing the hard work as somebody who is sick and can’t always do what I want to do I’m really grateful to anyone putting in the hard slog.” (R11)

“I did help out with a little bit of research for the energy project at one stage when they were looking at doing a micro-hydro thing and I just did a bit of dog’s body work looking up to see whose properties the old water pipes went through and so I have been aware of the project for a while.” (R15)

2.9 Community Values

“A partnership with something like that shares a lot of the values of WEP, I can’t see any problems there at all it would almost certainly be a benefit to both parties and I would very much be in favour of that.” (R3)

“I know there is plenty of other people in the community who don’t care about anything green.” (R5)

2.10 Community Groups

“The problem is they have all of these different ones and they have different sub-groups and you never know the WEP’s and the WEGies one, they meet and grow veges and then you’ve got the Orchard ones.” (R1)

“That’s what I mean you know it’s so confusing the amount of them that are here.” (R1)

“And quite often it’s the same people involved with a lot of them.” (R1)

“All of the meetings are all attended by always the same people whether its WEGgies, WEP, BRCT it’s always the same faces and there is not a lot of them.” (R5)

“They do work together and as I say most of the people if you go to a WEP meeting and a WEGgies meeting you think ‘hang on these are the same people’.” (R5)

“If you build a lot of excitement about Blueskin Power you might get a few more but who would put some of their other stuff onto the back burner or give it less priority and give this more priority but again your 50 people are already and there are some other things there is Amnesty International and what is it the Blueskin Baywatch and all of these different things the Film Society and so many different groups and it’s the same faces at all of these things yeah it’s quite spread thin.” (R5)

2.10.1 Waitati Energy Project (WEP)

“I guess I would feel a wee bit of pride being part of it if it does come into fruition.” (R5)

“I think I have been to two committee meetings you know they are quite long and a bit boring.” (R14)

2.10.2 Blueskin Resilient Communities Trust (BRCT)

“I know that it fits within this broader structure of the B-R-C-T which is about creating or trying to make our community more resilient for changes of peak oil or climate change or those sorts of upcoming or presently happening events.” (R6)

2.10.3 Warrington Reserve Group (WRG)

“It is an established network and but we would use the same avenues of communication as WEP, I know that at least some of our members are already a part of that but in terms of if you want to flick me information I can ask my group if they would be interested in flicking it on any further or whether

because I'm the person who the emails are sent to and I pass them on and I could find out whether other people in our network are already getting information or not because yeah I'm happy to be to play any role in spreading information on where I can." (R11)

2.10.4 Waitati Edible Gardens (WEGgies)

"I think I was interested in WEGgies mainly because I've done horticulture courses and I've worked in horticulture and ah particularly organics ah so it seemed logical to get involved in WEGgies." (R5)

3. Energy

“We use wood and we just try to find the driest ‘localiest’ we can really and then also based on how much we know if we get blue gum we know it will burn hotter but it’s a lot harder to chop and you know there is all of those factors with wood and we enjoy that but again it’s a kind of thing where I don’t know how it compares efficiency wise, I sort of feel quite sort of flexible about that and I would much rather do something renewable anyway I mean I know that renewable source are kind of renewable but I also know that burning wood chucks things up into the atmosphere which isn’t delightful so something that’s more strictly renewable sounds really good to us.” (R7)

“We have got the heat pump and we’ve got the woodburner...I wouldn’t like to be without the woodburner.” (R10)

3.1 Efficiency

“Even if your home is a bit leaky which I think a vast proportion of the ones out here would be because a lot of the original ones were built as batches and then updated or even not updated. The house we lived in at Warrington on Bay Road in the bathroom you could look through and see dirt you know between the cracks in the floor boards so not only did it not have a moisture barrier it didn’t have insulation and it wasn’t even sealed not even the boards fit properly and I think a lot of people live in this kind of so that’s issue.” (R7)

“The insulation and the retrofit rollout was fantastic, anything that we can do to kind of up peoples quality of life.” (R11)

“I mean people talk about how efficient they are but our experience here is that if you don’t have good insulation the problem is you are only pouring warm air into the house well if the air leaks out then your own experience of it is you’re freezing and so the thing will be on all the time whereas with a log-burner because it’s radiant if your within a couple of metres of that or three metres of that you are going to feel warm even if the air is actually quite cool.” (R7)

3.2 Electricity grid

“As for locally, every mile or every kilometre that you move it has costs both environmental costs and financial costs so to whatever extent you can do it locally.” (R7)

“Retailers um, I mean it’s the same where you are now you get your power that you get comes through the same line no matter what retailer you are getting, it’s Powernet that actually sends it through so that’s where if you were sending it back it wouldn’t be the individual retailers you’d be dealing with would it?” (R1)

“Oh so it would have to go up to there and then back down to here.” (R2)

“I think most people they identify whether knowingly or not as consumers they just pay the money to a company and just use the service they don't think about where it comes from where it's going to and the impacts the implications they just want it easy most people, so I think the model the current model energy market probably suits those type of people.” (R5)

“You didn't hear much about the sources of power if they were the standard sources likes so for my house I couldn't of told you if my power company got it from hydroelectric or nuclear or coal.” (R7)

“We are entirely dependent on the national grid as it were for power.” (R9)

“If you can get other solar power and feed it in and I think that's the biggest thing is the power companies need to do to develop that in and out of the network thing so that people can you know feed in and out.” (R12)

“In Canada they buy it back off them for the exact same amount of money whereas with here I think it's quite a bit less and sometimes they don't get money for it they just get the power.” (R12)

“If it was windy here in Waitati and Warrington and it wasn't windy in say Mosgiel we could be swapping energy down the grid.” (R14)

“I don't personally see any virtue in being off grid when the grid already exists.” (R14)

“I think of electricity network, the grid should be a public energy exchange mechanism you know for swapping energy with your mates rather than a thing that only works in one direction from Clyde Dam to my house.” (R14)

“Oh well I can barely get my head around it.” (R14)

“Is there some law that says that Trust Power and Meridian and all of that have to buy stuff from companies but they aren't allowed to buy it from co-operatives I don't understand that at all.” (R14)

3.3 Renewable Energy

“Anything renewable is good renewable sustainable I'm possibly more interested in energy efficiency and reduction of consumption than building more generation.” (R5)

“I quite frequently especially lets say in the late nineties I heard of more and more people using alternative sources of energy.” (R7)

“I think it's to be encouraged and it's not a case of not-in-my-backyard I mean I think that as much as we can we should use renewable forms of energy but

we have also got to use energy in a way that doesn't create as many bad effects as it's solving. So yes it's good to use renewable energy but not if your adding to pollution or visual pollution or any other of the you know it could be noise pollution and so there is a whole lot of other considerations just because something is renewable doesn't make it the gold standard it has to be a whole suite of things I think." (R8)

"I think that environmentally friendly ways of generating electricity are great." (R9)

"It isn't just good because it's renewable energy and we are all tree huggers you know that doesn't make it automatically good it has to actually be viable as well." (R14)

3.3.1 Tidal Energy

"I did hear a couple of folks who mentioned a possibility of something tidal done in the Purakaunui Inlet, cause in a way it does seem like a waste that twice a day it comes in and twice a day it comes out and that vast volume of water is moving and it seems like there must be some way to make use of that although you know that could be slightly intrusive for people just using the water recreationally you wouldn't want you kayak around some big turbine or something necessarily." (R7)

"The tidal one sounds interesting I don't know much about it to be honest." (R9)

"Well we've got the sea haven't we and it's pretty powerful the way it comes in and out." (R10)

"The beach is my beloved, anything that interfered with the natural flow of the sea and the flora and fauna there I would be no in one nanosecond. But if there are solutions that can be found that use tide that don't damage the natural ecosystem then I'm intrigued but I do wonder about that, I wonder about how viable it is to do stuff in tides without so if you were going to do stuff in tides because someone else from some other country was talking to me about tidal stuff once and so is it more viable in city environments where the natural environments have already been interfered with." (R11)

"Things like tidal energy could have quite devastating ecological effects I guess, for example here we could block off Blueskin Bay but you know the effects that would have on migration you know animals through water would be quite devastating and we might end up with the mudflats turning into some kind of stinking mess." (R14)

"I regard tidal as more invasive I mean wind energy doesn't stop the wind blowing but tidal energy would actually stop the tides." (R14)

"I have heard about these underwater wind mills that you could use to catch tidal energy although I'm worried that they might slice dolphins into sushi or something as they swim past." (R14)

"I don't know a lot about tidal I mean from what I've read in a few articles I mean it's like anything you have to look at what the down sides are you know, for here I'm well aware of the fact that we have quite a few rare species you know sea mammals and things around here and you've got Hector's dolphins and the occasional whale and sea lions and things like that out here you know I'd want to know that those sort of things weren't at any risk before I totally like the idea of tidal energy." (R15)

3.3.2 Solar Energy

"I'm seriously thinking of getting solar some sort of solar hot-water system, I haven't done it yet I'm waiting to get the roof painted before they start doing anything out there but I would like that and the idea of photovoltaic also I find quite attractive it seems quite a simple way to make yourself a bit more self-sufficient and I did think there might be the possibility of a domestic wind turbine but I don't think so on this site because we are rather protected from winds here so I don't think we would be suitable." (R3)

"If I had the money I'd put solar heating up in my roof and I understand that the Blueskin Mowers guy is now selling solar roof panels so they are now available and from what he told me it didn't seem as though it was outrageously expensive except that the downside as far as I could see was that it only heats hot water." (R4)

"I haven't seen um photovoltaic systems being that well what I don't like about them is there is huge rooms full of batteries and that's where any system that's on and off you've got to have that massive storage." (R6)

"Very expensive which in fact I think is the biggest problem with solar is that solar would be even down here where you get even less sun than you do in the Bay of Islands or whatever it would still be useful but the battery problem is yeah it's a serious problem." (R7)

"If people could put a solar panel on their roof and just plug a cable right into their houses then right into the grid and so it just took a chunk out of their bill I think it would be more popular, so whatever could be done in that same sort of way with turbines would be really effective." (R7)

"I've been in the Antarctic a lot where we use solar so I think it's a great resource." (R8)

"Solar panels yeah I mean I'd love to have solar panels but we don't get a lot of sun here in winter and because the cost would be too much." (R9)

“Oh we are planning to do another house up just down the road about three doors along and we had considered solar power and would this make a difference to our decision on solar power would be my question I suppose or would the two go together or do you know?” (R10)

“Because of our age we didn’t know whether it was worth it from our point of view to actually invest in solar but because we’re starting from scratch we want it to be obviously as ecologically sound as we can make it, but you have to consider how long would it take to payback something for us to pay off the loan although I guess it depends what you’re looking at it for I suppose if you are looking at it for future generations then we shouldn’t even think that, but you know you have to be a little bit selfish sometimes.” (R10)

“Solar has been an issue in terms of sometimes it takes so much energy to generate a solar panel you know so continuing to look at solar in an intelligent way.” (R11)

“Solar water heaters I think are magnificent because they don’t require batteries to hold it.” (R12)

“We’ve got the solar water heating and you know we are pretty light users of power and we don’t have a lot of appliances and we prefer it that way you know we try not to, we try not to use too much and feel as though we don’t need too many things.” (R15)

“I occasionally hear people I had a Emeritus Professor of physics talking on the radio one time saying ‘oh well you know the pay back time is...and so it’s really not worth doing’ and I was just shouting at the radio saying ‘no no that’s not true don’t tell people that, that’s a lie.’” (R15)

“When we got this done we did talk with the person who put it in and they were saying well ‘at the moment the pay back time for doing that on a purely financial level it’s quite a long term thing’ but that’s all changing I guess and so we will definitely revisit that.” (R15)

“I think it’s really good, solar energy is something that I have always wanted and we’ve got the ideal roof for it up there but of course it’s the cost of setting it up and getting it organised you know and solar power for water heating because that’s always your big out lay.” (R16)

3.3.3 Geothermal Energy

“Geothermal I think is again fantastic where you have got that available so places like Rotorua and Taupo.” (R8)

3.3.4 Hydro Energy

“Definitely hydro because I’ve seen small scale hydro and it seems to be really productive for the minimal amount of change to the landscape and that’s mostly on a household level or a farm scale.” (R6)

“Micro hydro is just sort of if there is the consistency there so you don’t need that storage with the batteries.” (R6)

“You have got to balance the flooding of a Cromwell area with the benefit it derives from it and I was one that actually thought it was sad to see some of that gorge go but at the same time I think they have created a fairly beautiful place in it’s place so in that sense I think the balance is in favour of that.” (R8)

“I’d be interested in all of them I spent some time in Karamea recently and met someone who had a really fascinating little turbine running off a stream, hardly any water generating their own.” (R11)

3.3.5 Wind Energy

“The same would happen with the wind I suppose that in the end if you’ve got so many of the bloody things well people down wind wouldn’t be down wind because there wouldn’t be any wind left so you know because of the you know, you must take some of the energy out of the wind by turning a few hundred turbines you know.” (R1)

“Oh I think it is a good idea.” (R2)

“Turbines I mean they are everywhere else so um it’s kind of again it’s technology that’s proved so I don’t see any reason why we shouldn’t be doing something local with that.” (R4)

“With wind turbines it’s all wind related and so if it’s a quiet day then if there is sort of not constant wind then they are not operating but with hydro unless you’ve got a drought or whatever pretty much you’ve got it happening all the time so it’s more reliable in that sense.” (R4)

“I know they sort of looked around for funding and the Hikurangi Foundation came along and said that they would provide funding but only specifically for a wind turbine so that’s kind of channelled the thought processes and the energy towards a wind turbine whether that’s kind of the most appropriate thing to begin with or not that’s just where the moneys at so that’s as far as I know why there’s the focus on the wind turbine.” (R6)

“It doesn’t make me anymore amendable towards somebody sticking a bloody great big wind turbine up on that ridge.” (R8)

3.3.5.1 Wind Resource

“The fact that around here it is kind of windy but it feels like it is quite sporadic wind like we have crazy gusty wind that most days will start off from one direction and then turn around and be in another direction in another part of the day so I guess I would want to be reassured that the studies have been done that it was going to work.” (R5)

“I know that ridge a bit because I drive down to Whareakiaki (sp.) to go surfing and I see people building houses up there and I thought that is the last place I would want to live because it is so windy because you get I’d say it’s a lot windier than in here [Blueskin Bay] because you get the north easterlies funnelled by the harbour like I’ve got a friend who lives in the harbour and we text back and forwards about going surfing and sometimes like an hour before we experience the north easterlies that north easterly is already funnelling in the harbour and it comes through here and up and over that ridge that way and then in a southerly it comes over the ridge so you get both winds really well.” (R6)

“Because what can you tell me, what happens when the winds blowing during the day because often we get windy days and then the wind drops like this in the evenings, did you find that from the data?” (R6)

“Where I lived in the States there was wind of course but not as reliably windy as it is here.” (R7)

“We’ve also got some wind so it seems sensible to use it.” (R10)

“In the same way that hydro does actually stop rivers doing what rivers normally do but wind doesn’t stop the wind blowing you know, it just borrows it for a minute and then continues.” (R14)

“I understand that wind energy is more turbulent at ground level and so there has got to be good reasons for going bigger.” (R14)

3.3.5.2 Turbines

“I probably am capable of opposing a wind turbine though I mean I’m only saying that there may be some effect of the wind turbines that I don’t quite understand that I wouldn’t like.” (R14)

3.3.5.3 NZ Made

“It’s always a good idea to be supporting home based enterprises and technologies because if you don’t they will go offshore.” (R10)

“There must be some people who say well we must have the New Zealand one but I would rather have the imported really good quality stuff than New Zealand made crap.” (R14)

"I was interested to read that they were imported you know here we go again so no New Zealand companies were able to supply them?" (R16)

"I'm always an advocate for using New Zealand made and you know a lot of time, a lot of the times the expense of New Zealand made products over rides the fact that 'oh hey I can get it cheaper' but you know for something like that the communities going to benefit from I think you know it's good to use our national supplies." (R16)

3.3.5.4 New Zealand Experiences

"Just from my memories of the wind turbine in Wellington that's been sitting you know up on that Brooklyn Hill there for twenty years or something." (R3)

"I had seen one in is it Karori in Wellington but I saw it from a distance and I didn't quite appreciate it but on the field trip when you get right up close you think 'shit they're big' yeah it kind of seemed surreal somehow these things on such an almost not unspoiled but such a bare landscape these big manmade things in the middle of it kind of felt weird." (R5)

"Do you know how high the one in Karori is because I have seen that one so I can gauge it." (R6)

"In the North Island I can't remember I did a tour up there and drove through a wind farm or two I'm gonna say was it up in Manawatu...seeing that from a distance it didn't look like certainly the individual turbines didn't look you know horribly large so as a farm it looked like a really large operation but seeing from a distance" (R7)

"If you put on some ridgeline like some of the ones up in Palmerston North which I think have a certain beauty to them." (R8)

"I've seen big ones in the North Island at a distance." (R11)

"I've seen ones in Wellington when they were fairly new and being erected and seen the odd one here and there but haven't ever lived close enough or lived within a community being affected in that way." (R16)

3.3.5.5 Overseas Experiences

"I know when I was in the UK people were really annoyed when driving over a hill and seeing another wind turbine, whereas if I think one area was designated this is a generation area or several were placed generation areas and there weren't residences nearby then there would be far less problems." (R6)

"I have been in Denmark and Sweden where they have a lot of wind turbines." (R8)

“I’ve seen clusters of wind turbines in the desert in Southern California there and they actually have a kind of aphelia beauty because they are stuck out in the middle of nowhere where they don’t affect anyone and there’s something almost hypnotic about these large grey sort of spider things just turning around slowly so in the right place I think they can be quite attractive.” (R8)

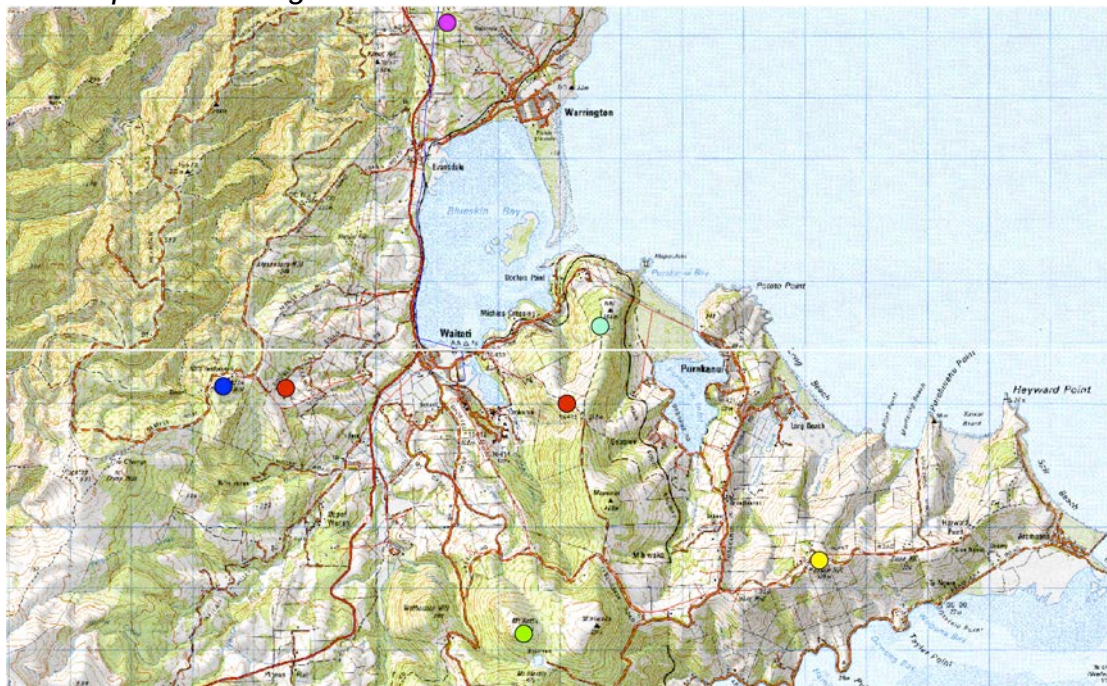
“Even there are places in the sea between Denmark and Sweden where I have seen them stuck out in clusters out at sea and again they don’t look too bad.” (R8)

“I’ve seen big ones overseas in the distance.” (R11)

“We’ve been through areas of Oregon where it’s just turbines for miles and they’ve got their own kind of beauty. I am saying this of course as someone who has never had one siting in my view.” (R15)

3.3.5.6 Siting

NB: Map used during field interviews below.



“No not really it’s just wherever it is windy they would have to be, they would have to go where it’s windy.” (R2)

“From here wherever a wind turbine is situated it’s not going to be a visual obstruction to us so I suppose it’s very easy for us to say we are in favour of it if you had it sitting in view all of the time then I can see that people might not be so happy about it.” (R3)

"I think that there are a lot of outlying properties in this area up on the hills so trying to find somewhere where you could put a wind farm of any size might be difficult unless it was over on this side she said pointing south-west." (R4)

"There might be a few people depending on what location is chosen that say 'I don't like that thing' and others might say 'I love seeing that thing out there' and it's a symbol of whatever." (R5)

"I suppose if they could fit in with another land use that was appropriate for that area and for that landscape I presume they would go quite well with." (R6)

"I guess the main things for me would be just that I felt that they were placed appropriately and I'd definitely not want them placed in some of the iconic landscapes that we have around here on some of the skylines." (R6)

"That's the Volco there and the trust owns like up to about there [adjacent to green dot on map] yeah so I wonder whose offered that then because I thought that was catchment land for this reservoir." (R6)

"That is another great thing about a wind turbine nobody is spending much time literally up amongst the top of the hills anyway apart from seeing them." (R7)

"I haven't got anything against the turbines it's just where you put them." (R8)

"I think putting it in a place that would desecrate the view of our entire community like in the Osborne Purakaunui area I think that's really stupid." (R8)

"I mean I think they should stick them all up in Wellington, it makes the most sense to me." (R8)

"It's just hard looking at that topographic map. I know roughly where they are but to get a perspective on what it would be like say looking at it from Waitati or something I don't think you'd see it looking from Waitati would you?" (R8)

"I don't even know where they are planning to put them." (R10)

"I know there were people who had issues around the Ecosanctuary and I'd definitely you know I do share those concerns but definitely as you get further away from Double Hill or up here it seems like a pretty good solution if the winds good and there are people who are happy to let their land be used for that." (R15)

"I've been reading about Mahinerangi and all of the other ones up Central and I can understand where people are coming from when they are looking at the beauty of the landscape but you know if sites can be found where that visual affect isn't going to be so profound I think it's a really good idea." (R16)

“Where people weren’t going to be adversely affected yeah the size and the number and that yeah wouldn’t really bother me because we’re not directly affected really because visually we only see Porteus Hill when we are driving along the coast road and also Doctor’s Point we don’t, oh we look over Doctor’s Point from upstairs but yeah not that close.” (R16)

“No none of them and you know looking across from upstairs across the bay there you had that photo before you know they are just, you can hardly, you wouldn’t hardly see them would you?” (R16)

3.3.5.7 Specific Sites

“Oh right yeah no I don’t know the new proposed sites.” (R1)

“These ones well that’s the sanctuary there so that’s another worry I guess, that one there is pretty good because that’s the closest to the substation because does it have to go through that?” (R2)

“I don’t know any of these I don’t know any of the other spots.” (R5)

“I wonder about the visuals of that in terms of that’s why it would be good to sort of see mock ups in terms of and with mock ups it would be good to see them from a couple of angles to.” (R11)

3.3.5.8 Valued Places

“I do a bit of walking up in the Silver Peaks yeah not so much recently um...probably yeah I really see...especially Mopanui, Mihiwaka, Mount Cargill what’s that there oh Mount Kettle oh Mount Cargill is over here yeah that’s really kind of a sensitive sort of um sacred skyline really and then no the Silver Peaks this is well but probably if you could be on one of these lower ridges around the Silver Peaks that’s probably that would be a preferred location for me.” (R6)

“It’s where you take a prominent landmark something that is significant like what’s going to happen in Central Otago there or what you are talking about here which I didn’t know about but which has a similar kind of thing where there is such a huge value attached to the actual landform as it exists.” (R8)

“I know that these have a name and they do have some significance there or ‘tamatia’ apparently these hills and but I don’t know how the local iwi would feel about it.” (R15)

3.3.5.9 Not-In-My-Backyard (NIMBY)

“Because you’d say ‘yes I’d agree to that if it wasn’t in your backyard’ type of thing.” (R1)

"I don't feel that it should be a problem, however I don't have to live underneath them and if I did I might feel differently." (R4)

"Well I would specifically oppose this site here which is directly out our window I guess as I say at the risk of sounding selfish I probably wouldn't be too concerned about Double Hill." (R9)

3.4 Comparing energy types

"I really don't know the pro's and con's of wind versus wave versus tidal versus geothermal whatever um solar panels um you know cause what's there is an equation of the energy put into developing these things versus the amount of energy you get out and all of those sorts of things come into it and I don't know which is best." (R5)

"To some extent I'm not to be honest sure of all of the benefits of something large scale like Roxburgh, Clyde or Waitaki verse numerous small scale things I know there is power loss as it comes a long way um the number of kilowatts or whatever by the time it gets to the destination has dropped um so I know there is that advantage." (R5)

"It's to avoid you know the problems that I see with putting in huge wind turbines like up in the Lammermoor Range or wherever these pristine environments." (R6)

"I guess that's why I kind of questioned earlier um I kind of got the impression that wind was being focussed on over perhaps some other forms that maybe are more appropriate or what I see as more appropriate to start with anyway." (R6)

"I guess I'm probably not that well educated on the whole picture I'd like to see a whole kind of reasoning of the how much energy it takes to build one of these machines it's got to be transported here the foundations of it are huge with the concrete that is a lot of embodied energy and then finally when the thing starts falling to bits or whatever like the energy it is going to take to dismantle it like in that kind of compared to something like a hydro system which I perhaps see as having less moving parts and being more permanent." (R6)

"A coal pit is hard to hide you know a dam is hard to just take down someday so the beauty of these is for 'x' number of years or decades that's what works that's great and then if something else comes along the magical thing that you don't have to see and inconveniences no one then fine take them down and do it no worries." (R7)

"I am biased because to me I just associate that with clean energy and the lack of a coal pit and the lack of a nuclear power plant or whatever you know

whatever less clean means so I sort of smile when I see it oh thank goodness somebody's doing that rather than burning something." (R7)

"You always hear that discussion and I know from the solar side discussion of oh well once you've bought the panels and maybe replaced them every so often what's the cost compared to the energy you were to get see." (R7)

"By definition non-renewable sources won't be there forever and then their costs will be infinite you know they will approach infinite as they get more and more rare one day a litre of petroleum is going to cost you your whole house because that is all that will be left so I think that should be part of the part of the issue you know when cost comes up." (R7)

"I was just going to say it's still temporary whatever you put up there if it's a wind turbine compared to a dam or a nuclear power plant." (R7)

"Yeah I guess and again it would be a trade-off of how much environmental damage you are preventing by having a wind farm." (R7)

"I don't know whether that's an issue with the turbines too I know people talk about it with solar particularly the more cynical sceptics of it say 'well in order to produce a solar panel you have to use 'x' amount of petroleum products' and you know 'you've got to mine such and such to make it' and I don't know how true that is that how much that applies to turbines like physically producing the turbine what the environmental cost of that is, it would be hard to imagine it compares to the benefit of it over long term and of course you are getting your power from somewhere so I guess the question is does making a wind turbine have more impact than digging a coal pit or making a dam or whatever it is you are doing if you are not doing that?" (R7)

"When you are effecting an entire sort of place in terms of it's natural beauty I mean I don't think we should be scaring, it's like saying 'well gold is a really good thing' but you don't go around digging up all of our National Parks to get gold and I think it's the same thing here renewable energy is a really good thing but hell we don't want to destroy what we have got in the process and so I guess I'm sort of on that Graham Sydney kind of thing where nothing against the renewable resource as a concept but lets not destroy what makes us New Zealand in the process." (R8)

"Absolutely I mean again I'd want to make an informed choice so you'd be comparing visual disturbance versus profitability and viability." (R11)

"You don't want them so small that they are not viable so that's that whole balance so I'd be interested in a kind of like anything an informed debate about what's viable and how you can keep them small enough without being so small that it's you know no point." (R11)

"With the decision of where to put wind turbines for me is how much destruction to the environment to get them there and which you know some environments are worth saving and others are not so bad, like if it's a farmer

on farmland and he is prepared to give up a bit of his farm land that's quite different from ah breaking into some kind of wilderness area that's really quite natural you know." (R11)

"I wouldn't like to look out there necessarily and see one I suppose but on the other hand if it's going to be you know preventing another hydro dam or it's going to be preventing you know the Lammermoor Ranges being filled up with a hundred of them then I think that it's okay." (R12)

"For local people to own it it's by far the better solution than the big schemes you know to have a small one that's you know one or two here than to have them you know scaring a landscape you know and it becomes like our chimney's." (R12)

"I love the politics of an Ecosanctuary to protect wildlife at an extremely local level by building a fence around the wildlife you know but also to protect wildlife at a global level you know when wind energy is the thing, if we have replaced every coal-fired power station with wind energy in the whole world then all of the world's wildlife will be protected so it's as good as an Ecosanctuary but on a global scale and so I love the politics of it." (R14)

"You know I could live with that I could live with that because we might be protecting something for our children and their children I mean it's a pretty obvious notion." (R15)

"Where ever you go 'go where it's already munted' don't go where it's natural and beautiful and I think that often people who are involved in the decision making aren't necessarily the people who understand the value of the wild places that no one ever goes do you know what I mean." (R11)

4. Effects

4.1 Design

“Not too much to me, for me it would be more design than anything else for instance if someone put up black turbines it would be more intrusive than a lighter one or one that matches the colour or the average colour of the surrounding sky and so forth.” (R7)

“As for wind farms um honestly personally I can’t think of any built object more beautiful than a wind turbine I’m absolutely totally in favour of them.” (R14)

“I actually don’t find them unattractive.” (R15)

4.2 Visual

“Yeah it’s all about sort of a holistic design to our landscape having appropriately placed wind generation within in the appropriate context of farmland and forestry and so I really think for it to work as well having that placement is really important so that it doesn’t end up annoying anyone which I imagine is going to be pretty difficult because there is already so many or so much residential so many lifestyle blocks and stuff so scattered around I mean my vision for a landscape is much more like have a village and then have more like clusters of residential areas and lifestyle blocks and that enables you to have other areas which are more like farms and orchards and things and then forestry and then perhaps energy generation areas that aren’t going to get in the way of people enjoying the landscape or having residencies being annoyed by the negative aspects of generation.” (R6)

“And the visual pollution you know when you’ve got fifty or sixty of them in a grid on a hillside you know because I have looked at that on the net too you know.” (R1)

“That’s what I mean it’s more the visual pollution that would you know be even more important to all of those people than the noise pollution I think” (R1)

“Like well if they were here [Mopanui] and then the people in Warrington would definitely see them.” (R2)

“Certainly one turbine if it’s in view is not I wouldn’t think there would be any great disadvantage and maybe even three wouldn’t be, when it gets to twenty or forty or something I would have quite a different view but they are quite aesthetically attractive things and I think one or two or three would be fine.” (R3)

“We kind of walk out and we see this ridgeline Mopanui, Mihiwaka, Mount Cargill yeah we see Weatherston and then over this way we kind of see

mainly the lower hills we can't see Double Hill but you only sort of have to go back here before you see that." (R6)

"Going to be on Mopanui which of course dramatically effects the view particularly from Purakaunui folks in Osborne would you know be looking up over their shoulder but we would look at that every single day and I am totally happy with that if we were included in it you know. Particularly so yeah I'd be one hundred percent for it and I'm often perplexed by the objections because you know even if you don't like the way they look they can be removed later if a better method comes along or a lets say less visible method comes along." (R7)

"The bottom line would be the visual desecration of the view if you like." (R8)

"I don't want anything visually intrusive in my little patch so as selfish as that may be that is a fact because it's a very natural setting here." (R9)

"I don't know and in any case it wouldn't bother me." (R10)

"We've got such a beautiful scenic area around here and it's like how we can choose locations that leave a sort of most visually, most wild and free looking landscape still looking like that yeah I don't know. That's why I say it's all academic when you see visuals and then you go 'oh yeah that works' or 'oh nah that's bad'." (R11)

"With the wind turbines it's really just the visual thing that that would concern me." (R13)

"Only the ones you know if they stuck up on you know the Mopanui ridge if we could sort of see them from this side then yeah it would be that visual thing really that's just to me anyway." (R13)

"The visual thing is of no importance to me at all I actually think that they are beautiful." (R14)

4.3 Noise

"Noise pollution does come into it but it's only in the immediate sort of vicinity you haven't got that 'whoosh whoosh' you know it'd get bloody annoying." (R1)

"Well yeah but you know um the big, the wind turbines and that are not as I mean there is the noise pollution factor and they are especially those big ones you know." (R1)

"Yeah oh I don't think I would be too upset by them I don't know how noisy are they?" (R2)

"There have been conflicting reports of course about the noise level from them." (R4)

"I guess some people are worried about noise although from our visit to Central and from what I've heard from other people noise is not a big issue unless it's right beside your house or something like that so some people may be concerned and would like to be reassured about that." (R5)

"I know people oppose them because of the noise from them and they are unfortunate and I think there should be compensation in those cases." (R8)

"Anything that impairs the view here I would be totally opposed to." (R9)

"So it would be purely a visual thing that it would be." (R9)

"I'm only opposed to it if it impacts on the scenery really." (R9)

"Noise would I suppose." (R10)

"I have heard that wind turbines can be really noisy so I think that is a huge issue." (R11)

"Most people live out here because they like the quiet and you can tell city dwellers when they move out here because they will be really noisy because when you live in the city you make your own noise scape to block out the noise of other people and they come out here and they annoy the f__k out of everybody and if you are lucky you will just have nice neighbours who will go 'could you turn your bass down I can hear it two straights away' and if you are unlucky they will call noise control but also people get used to it and they settle down and they realise how quiet it is here and that sound travels so thinking about sound travelling like up on a hill where the wind blows will that sound come because noise yeah I really like the quiet and most people I know out here really like the quiet so we are fairly intolerant of noise so that would be a big issue I would imagine in terms of location and design." (R11)

"I don't know whether you'd probably hear them here would you if they were way over there, it would be annoying though if you were sort of sitting outside having a barbeque or something and you hear that noise all of the time." (R13)

"I don't particularly have any personal understanding of things like noise pollution from wind turbines and whether they can stop you sleeping at night." (R14)

"I'd be surprised if we could hear them from here." (R15)

"The ones in Oregon that I was just telling you about we actually stopped we were actually driving through and we parked in the middle of this so we were surrounded you know they were in the fields on all sides of us and they were all going they weren't really going for it but they were all moving...we actually

stopped and got out of the car because I wanted to hear how noisy they were and they weren't, you could barely hear them, you could barely hear anything" (R15)

"The sound that would annoy me if there was you know a lot of noise or a constant sound." (R16)

"So it'd be a bit like the trains going past they are unpredictable we don't know but I think that like you know with a train going past it's there and it's gone and you just don't hear them anymore because it's part of your lifestyle but if it was a constant sound yeah it's a bit like a local band practicing you know if you hear them start up at nine o'clock at night you know they are only going to go for a couple of hours and that's it and you know they have done all they can to sound proof where they practice um which has been really thoughtful but yeah I don't know how I'd cope with the unpredictability and the constant noise it'd be interesting to you know probably hear something like a tape." (R16)

"You know like this is what like for you to sit underneath one that is already erected and say well this is what it sounds like at half a kilometre, this is two kilometres and this is five because when I talk about any sound or any noise and someone else talks about it we can be talking about different things." (R16)

4.4 Scale

"Yeah no I think I'd rather prefer you know the small on the smaller scale than the larger scale." (R1)

"If you are only going to put one in then I think you are better to have one big one doing a humongous job rather than lots of smaller ones doing smaller I would of thought that would of been more cost effective but I guess it depends on the cost of the wind turbine and the servicing costs." (R4)

"I don't think it would bother me much, I think that I would like to know more about the pros and cons of like you said before about three big towers or multiple smaller ones I'd like to know more about the advantages and disadvantages." (R5)

"If it's got to be a certain size or there has got to be a certain number of them then I think if that's made really clear and everybody is educated about that then everyone well most people or the people who are into it will understand why that's happened whereas I know like a surprise 'why the hell did they have to put ten of the dam things up there'." (R6)

"I suppose size could become an issue if it was a truly monumental scale if you felt like there were giant fans pointing at you." (R7)

"I don't like the mega big ones I don't like the amount of infrastructure needed to be taken in by road the roads that get put in to build these enormous structures and then and the servicing of them the wind towers themselves are one thing to look at but it's the destruction to the ground environment because they are big I'm really anti big things." (R11)

"I'm really interested in little wind turbines so we can use wind in a way that isn't completely violating the site that you put it on for other peoples benefit and the way that historically Otago has been dammed so that people in Auckland can have power and you know or the Waitaki gets ruined or you know there is just so many projects I don't like the big projects I like the idea of the small turbines that aren't you know looking at one or two or three small turbines it is not a sea of mega turbines and if we could have lots of little places generating power close to where it is being used." (R11)

"I like the idea of small turbines close to environments where people live rather than large turbines because if you put them somewhere where no one can hear them you've probably just munted some beautiful environment."

"I think local is the best and more small in lots and fewer large, yeah I don't think they should build anymore big hydro dams I don't think they should build the big wind farms." (R12)

"The scale of it is just I mean it's not just the turbines it's the roads it's the people going in and out and the what is a quite a deserted area will become." (R12)

"So that type of mega energy that's for somebody else you know even if it is renewable I find is distasteful and an intrusion into my living space." (R14)

"I'm also open to ideas of economies of scale so it might well be that a ten foot high wind mill with say one metre diameter blades, only if you have a twenty foot one with two metre blades you would sort everything would be twice as big but you might be generating ten times the electricity." (R14)

"I'm open to the idea that it's actually, it might be a silly idea to put a little tiny wind mill on top of everybody's roof because you know if you spent the same amount of money on a few big wind mills then it might actually be more sensible and so you know I mean I'm into things being sensible." (R14)

"I've never really concentrated exactly on the exact specifications or the models or makes or how big they are because basically it wouldn't worry me if there were twenty tiny ones or one really big one I'd still support it so I suppose I'm not focussed on the actual shape and size of the turbine." (R14)

"I'm not sure you know what numbers there would be or what sizes and I guess all of that does make a difference to anybody's decisions on how much they would like to look at them but I think that you know if the numbers there were solely providing power for this community I can't imagine that there would not be so many that it would be a huge issue." (R15)

“Obviously the smaller it is the less visually annoying it is and also I don’t know but I have heard that they can make a lot of noise so I am assuming that the smaller they are the less noise they make but I’m not certain of that.” (R11)

4.5 Height

“In terms of the size of the turbines again I don’t think it really should matter but as I say I don’t have to have it on my property.” (R4)

“I don’t know enough about wind power to know what the height does for you in other words does it just allow it to have larger blades.” (R7)

“Yeah the smaller the better.” (R9)

“Okay so thirty metres I might just write that down because I wasn’t sure so sort of the personal use is about ten metres and then thirty metre is like the community one.” (R11)

4.6 Quantity

“If this is just all we are doing is trying to meet the needs of the local community then I’m not certain that I know in fact I can tell you that I don’t know how many turbines we would need at all so that is some information I would need to know before I made a decision.” (R4)

“I would rather see none but I guess if there was a cluster over here or over there it would be less intrusive than a whole line.” (R9)

“Yeah two turbines is okay and two you know the thirty metre or whatever they are the New Zealand one sounds good.” (R12)

“I think they look nicer when there is three or four in a row actually yeah it’s quite good and in fact if you are going to all of the disruption to put in one you might as well just put in a few at the same time.” (R14)

“I would be happy with a good dozen along that skyline.” (R14)

4.7 Wildlife

“Especially if there is two or three of them it’s not like there are two or three hundred that they’ve got to try and navigate around.” (R1)

“I would be concerned if I felt that this one here, pointing to the one above Orokonui Ecosanctuary, if I felt that that was going to have any impact on the

birdlife there but my understanding is that the birds have more sense, they don't seem to get killed by turbines elsewhere do they?" (R4)

"Well the *Godwits* come in over here I don't know whether they come in and around and down to there, I would have a concern if it caused problems for the wildlife yes but as far as people are concerned I think we just have to get a grip." (R4)

"I guess one thing is the big blades spinning I don't wonder a wee bit about bird strike and from what I've heard its not much of an issue if any I mean I joked once about what about somebody said at night time and I see well birds fly around at night and they don't crash into trees but then trees don't have big blades that turn so I don't know what the issue is there perhaps with smaller turbines ah if they are spinning faster the bird might spot it easier but I don't know." (R5)

"Well I think that I know that the sanctuary is hoping to increase some of the native bird populations I mean including ones that might not just stay in the area or not just stay in the sanctuary. I don't know what threat a turbine poses to birds do you know? I just hear little rumours and things about it I don't know any science about it like whether it really does or whether how often a bird could come to grief because of it I would assume not too often because in all of that air there is a lot of room, but then again birds fly into my window now and then and you would think that would be pretty easy to avoid." (R7)

"I wonder if they develop some like because I know that most turbines don't have any sort of cages around them because like I mean that is sort of being considerate of birds and that but I mean there is hardly ever birds and that there is just magpies and hawks but there is never any Albatross or that there is not really a habitat for them so there is nothing for them to nest in and it's just too exposed for them to fly I think." (R12)

"I think these sites here are probably I mean this being the Ecosanctuary right here it's probably you know a few concerns with birds flying into them so that would be absolutely the worst case for them like all around here." (R12)

"That is a concern I guess we are hoping that the Ecosanctuary is going to bring more bird life even this far yeah we are definitely hoping to get a bit of spill over from there." (R15)

4.8 Recreation

"And we sometimes come out to the Pā." (R7)

"We just walk around there". (R7)

"We go to the top of Mopanui very occasionally and use to walk along the railway here but of course they don't like that hazards to trains and rah-de-rah but no not right up on the top there no." (R9)

4.9 Rural life

“Oh initially oh just to get out of town and not too far out of town because it's quite close it's good village atmosphere.” (R2)

“That's one of the great things about living here is that can be whatever type of nature you want whether its mountains or water or whatever its close and anybody can pretty much get close.” (R7)

“I guess it was the view and the location by the sea and being away from town.” (R8)

“That wouldn't counter balance the sort of negative side of the what's happened to rural aspect because that's what you come out here for you know, if you want to live in a city then you live in a city but if you want to be in the outdoors and outside and away from the city then you come here to look at untampered ridgelines like that one.” (R8)

“There is a lot of the community who don't want it to become too easy out here because it will just attract too many people and that will loose its character.” (R8)

“Just to get away from the hussle and bussle of Dunedin city.” (R9)

“Yeah well and it's like when people move to places like this you know they come from town and they expect all of the town facilities you know and moan about it.” (R13)

“I had quite a clear motivation I'd been living in Japan for a couple of years in Tokyo and when I got back to Dunedin I thought I need to be somewhere smaller.”(R14)

“Some people will oppose the project simply for that reason I suppose, they came here to get away from people not to hang out with them and build turbines together.” (R14)

5. Structure and role of the entity

5.1 Ownership

“That’s another point I was going to bring up and bring up at a meeting - why doesn’t everybody in Waitati get together and set up our own company to buy power and then we negotiate with all of the companies and then we would get a good deal for everybody who is tied into that company the Waitati Power Company or whatever it is called and because we are quite a big all of us together are quite a big entity so that we might be able to negotiate a good better price and then that company could run the turbine too.” (R2)

“Yeah well the idea of a community turbine I’m in favour of that and even if it involves a cluster of you know say three wind turbines with some sort of partner involved ah I would certainly be in favour of that.” (R3)

“What’s different about this project is that it’s community driven and I think it’s a great idea anything that comes from the grassroots I thinks um a good idea provided you can find a model that works that um gets you consensus and gets things happening without the whole thing erupting internally.” (R4)

“Absolutely I think that the wider the relationships and the networks the better.” (R4)

“Having control over your own autonomy of your own energy generation has an appeal to it to some degree um yeah and being able to control what money you feed into the project and what money comes back to the community that aspect of it sounds interesting.” (R5)

“I would love to see just one turbine owned by the community, bought by the community, owned by the community, profits go back to the community um I would quite like that leave any co-operative company or corporation out of it.” (R5)

“I think its perfectly conceivably to have it managed by a community group um if you have competent people um the trick is it seems like with something like that you want some people involved who know the real nuts and bolts of it and just aren’t getting information from experts you know um someone who has worked in that worked with them um because that’s at a really big scale so somebody who has had a small one at their house would know something about them but they probably wouldn’t know a lot of issues that would come up with really community sized one I think you know a really 30 metre a really huge one like that.” (R7)

“To me that’s a tricky concept because of the way it bounces up against human nature because if the community has I don’t know how many people 500 people or least say 1000 people and there are more shares then there are people then it seems that the risk of long term control of the project could start to drift towards people with more shares in it financial shares in it and

then you are really talking about it as a it seems to me anyway as more of business than a community model.” (R7)

“See I would be weary of that someone who had a lot of funds available um buying more participation in the project because even if it wasn’t initially set up as that that gave them more say I know that things often tend to drift that way and so then when they decide oh we want to do it in this or that way um if they own more shares if they own more shares than everyone else put together yeah what’s going to happen then um to me even if avoiding that means maybe more financial costs to each person participating I’d be tempted to try it that way.” (R7)

“I’m one of these people who likes the state to keep their assets rather than sell them because once they are not, they are not collectively owned and then you have no input into what and that’s what went wrong with the power company because the power companies were not owned by the state so the state lost any influence on what happened to it the same with the railways look what happened to the railways they got completely run down so ownership is an issue in terms of the way that it impacts on how that resource is managed both the long term upkeep of it and where profit goes and how profits decided and what price power is charged at so it’s an issue for me not that I care who owns it as in the practical implications of who owns it and how that affects all of us.” (R11)

“I hated Otago Power when they were the people who charged us more than I was in Dunedin it’s like ‘who are these bastards’ and then when it became a community owned thing I became part of them and I actually can’t hate myself in the same way I have to take some responsibility for how it works so it’s just a different you know.” (R11)

“I’d rather see the capital and the management and ownership be quite local and I’d rather see an outfit like Pioneer as paid managers on a management contract.” (R14)

“It sounds sensible you know to use people who already have experience and you know if you can, if you can get something out of it that’s more efficient then that’s good I’d you know a lot of things sound great in theory you know I’d like to but yeah I’d certainly like to know more about the, about the details before I stuck my vote in for a yes but um it’s all heading in the right direction really I’m encouraged that there are people that would be into buying into a project like this but I’d be definitely keen for there to be some kind of community ownership.” (R15)

5.2 Model

“I think probably if it was just an open question to the community then no decision would be made I think probably two models that can be chosen between would be it would need to be how it was presented to the community

again I think that they would object to that I just have the feeling that's probably the way that the thing would actually move forward or could be moved forward, the Pioneer Generation one where I think it's the company it not really under the control of the community it's sort of a separate stand alone company I don't know whether that's what you are thinking of when you are thinking of some sort of combination of the two but you know maybe that would end up some kind of compromise we would end up with as the best solution for us I'm not sure." (R3)

"So I guess in a way whether it ends up being working in with existing electrical companies and the electricity going into the existing grid and then us having to buy it back or whatever if that's the best way for it to create resilience then I'd be happy with that." (R6)

"If it's going to happen I'd rather it was done properly and not be kind of just a token little model of something that could be done better if you know what I mean." (R6)

"For me its whatever would make it more likely to happen and so if support from an established provider makes it more likely to be feasible then it sounds pretty good to me." (R7)

"Probably the one that is more community oriented." (R9)

"A joint venture makes sense to me it will be in the small print of how it works out as to how well this community is looked after in relation to the other and that's the other thing that's always the risk isn't it when you are a little I mean it's the same as being a little off shoot of Dunedin City Council and they will make decisions for the good of Dunedin City but they may or may not be good for the small community so I think it would I can see that a joint venture would be the only viable way to go but it will just be being careful about the way that contract is put together in the small print." (R11)

"So that might sway me in terms of if we could get more people interested in it in one format verses another I might go for a format that isn't my preferred one because it engages a larger part of the community and if it engages a larger part of the community will it then be more successful." (R11)

"I always start with my favourite ideology but in the end it's about what's practical and what will make it actually happen rather than staying with a lovely idea that will never happen you know." (R11)

"I don't know because I don't know enough detail about how they are going to do it I don't know I don't know how it all works really that sort of business end I'm not sure really." (R11)

"I think it's a pretty good solution I think that the you know 700 households or whatever it is in the Blueskin Bay area could actually be achieved and the maintenance of them is a really big one a big thing." (R12)

"I'm really enthusiastic about developing alternatives to the standard industrial capitalist model or share market model because you know I know that the share market capitalism model actually works because you know it does and it's brilliant at making aircrafts and making houses and everything that we enjoy and I'm not a complete luddite but on the other hand I do believe there are theoretical alternatives to it and it would be really good to see one working." (R14)

"The trouble with profit is it says well here we are and we have set up the right wind energy but if we can make more from making vegemite then you know or um some other completely non-related and that doesn't actually tell you anything, it doesn't make you better at being a wind energy company um just because somebody else is making money somewhere else doing something else it doesn't mean that you aren't doing a good thing and that is the trouble with capitalism is it is actually quite stupid it's a system that causes people to behave stupidly." (R14)

"I'm not totally opposed to just trying to do it ourselves, maybe it would be better to sort of give Pioneer a kind of management contract that actually pays them for their expertise rather than handing them control of the business or half the control of half the business on a plate." (R14)

"I like the Pioneer one better I guess because I know that they're a community whose company is set up to benefit it's community whereas Windflow Technologies I mean it's, they are cool for being a company that's about making wind energy but I'm sure they are really out to make some money and there is no reason why you know we would want to make them rich above anyone else." (R14)

"I think if you end up, if people can come along and kind of wreck this project by voting for something when they don't actually have any personal stake in it then you know that's not really democracy that's just sort of dispersing decision making to a point where nothing ever happens." (R14)

"Well actually a local 'gentailer' is a really cool idea and I don't see why we couldn't have one of those but whether or not it has to be a co-operative before it can work well I don't know." (R14)

"Once you get people in this area in behind something they're you know very keen and very hard workers you know I'd be more than happy to help and to contribute I also believe in not re-inventing the wheel when you've got someone there whose got the knowledge and the expertise and if they're prepared to erect more you know then that would be good they wouldn't just erect one." (R16)

"I think people would probably feel happier with a project like this too if they had that democratic say or had the opportunity to have a say, rather than being locked out of it with a limited liability." (R16)

5.2.1 Co-operative

“Perhaps you could have a structure sort of community trust or a co-op or whatever it is where energy users they might have sort of one tenth of a vote which and people who have put in real money could have one vote and then locally you mentioned people who are from outside the area might have one tenth of a vote or something as well, yeah so yes give local people a say but don’t give them ‘the’ say.” (R14)

“Well I think the one that would best fit would be a co-operative model but I realise there are certainly disadvantages and drawbacks to a co-operative model but ah this is a community of lots of strong minded committed people who all want to have a say and have their voice listened to and opinion counted and a lot of them are also not particularly in favour of capitalists procedures so I think probably just thinking of the community as a whole I think maybe a co-operative model would fit it better but yeah I’m not totally aware of a disadvantage or all of the disadvantages of a co-operative model but it is much more limited and sort of rigid in the ways it can operate.” (R3)

“Well I liked the first option actually it’s sounds quite fun.” (R10)

“It would depend there is kind of so many variables in terms of if it’s co-operative how big is a co-operative, how big you know there are advantages with profiting and there are also disadvantages in too many cooks deciding where to go you know as a person with a long history with co-operatives I have a love hate relationship with them so it would depend.” (R11)

“Probably the co-operative one for me it doesn’t make any bar of difference where my bloody bill comes from I mean I’m not going to, I’ve never changed, I can’t be bothered and I just you know and two or three cents here and there you know I can’t believe the trouble that it is I couldn’t care less and I like the idea that it’s a co-operative and a bit more democratic.” (R12)

“The thing is you know you could actually wreck this project by making it too democratic.” (R14)

5.2.2 Limited Liability Company (LLC)

“Yes I think that the limited liability company would be the better option because it is less democratic and it could be run by professionals and therefore things might get done the problem with consensus based co-operatives is that things don’t happen and there is nobody to take ownership what happens if everybody disappears so if you’ve got a limited liability company everything is properly structured and it’s properly run and the example I would give of that is using volunteers in something in any kind of endeavour if you use volunteers you can’t control them and you haven’t got

they don't feel the same sense of responsibility or the accountability perhaps is a better word that you would find if you had paid employees so I would go for the limited liability option based on what I currently know about it I think that you would have too many people wanting to have a say and nothing being achieved." (R4)

"I think that the last one [LLC] so long as we were you know still having that experience and the support and knowledge you know from someone like Pioneer supporting probably yeah I think it would work okay with you know having more shareholders and a more democratic process." (R16)

5.3 Role of expert

"I think so ah certainly the people who don't know anything about it at present are those who are likely to place a great deal of weight on experts or consultants and so on whereas the sort of core Waitati community which is much more do it yourself self-help, self-sustaining community I think also would be aware of their own limits of their own expertise and would probably not be against consultants or experts when they understood that they were absolutely needed I don't think it would be a problem." (R3)

"Because as a community we don't have the expertise ourselves so you've got to bring it in from outside and inevitably there has got to be a pay off or a spin off for the companies to get involved." (R4)

"Yeah I think that would be fine especially there could definitely be reassurances that there is someone who is experienced coming in to make sure that it's going to work." (R6)

"Outside expertise ought to be seen as a positive influence on a project not as some sort of you know giving up on the idea." (R14)

5.4 Consultation Process

"I kind of think that just this whole process of consultation and education just brings out more knowledge and understanding about energy issues and hopefully encourages people to on a personal level to save energy and well to use less energy I would mean and to perhaps have their own production on a small scale." (R6)

"I don't know whether it's the same in other places but country folk don't make their decisions quickly so sort of putting stuff out there and letting people have a think and letting them have a yarn over the fence, at parties and coming back together and by that point you know sometimes people will have very feisty ideas immediately and then they will talk to their neighbours and realise that they are a bit over the top or you know so you get people kind of settle into a rhythm of what's feasible so that would be what I suggest in terms of if you do it and I think the visuals yeah visuals are worth a thousand words

some of us love words I'm someone who reads articles avidly but apparently other people don't like the long articles you know so if you want to get a lot of people." (R11)

"If you really want to know what the community wants to I think putting the information out there and then having some kind of really easy mail back response but if you, if they don't know who you are then they won't send it back." (R11)

"Warrington has a lot of people who are very interested but not necessarily they won't come out as a community in the same way as Waitati will so you need different forms of communicating like you'll get less people to a public meeting you'll get more people who'll write things down, so having a variety of ways that people can communicate to you is really useful." (R11)

"I would feel like it's too vague for me but what I'd want is the same as I would want for choosing locations really is more information laid out in a way that listed you know positives and negatives or positives and challenges if you like and was put out to the community so we all got to talk about it and think about it for a while and you know some way of voting on it or kind of a collective decision on it." (R11)

"I'd have to kind of go out with a map and compare where it is exactly on the land and think about it more really and so what I would hope would be that if you chose a few sites and then do things like put it in the Blueskin News which is accessible and people get to have a look at it, think about it, see where it is, talk to each other you know it's not something that I could answer immediately." (R11)

"Multiple levels of benefit that I see is possible but only if it's done properly and if it's done badly then it can do a community damage so I think that the slow and thorough and cautious properly scientifically researched approach is the only way to go and we have a lot of people of quite sort of you know a lot of University people and quite sort of intellectually rigorous people in our communities and they will expect intellectual rigour so it's good that it's being done with intellectual rigour you know." (R11)

"I have quite a lot of trust because the process with anything that WEP has done so far has been good community forums and time and that's a big thing for me, what I might tell you off the cuff after I have thought about it for a month I might come up with something different so that slowness to me is part of intellectual rigour is having the time to catch up with you I mean you guys are thinking about this all of the time some of this stuff you will introduce me to ideas and I might think of something later you know so having, giving people the time to kind of germinate ideas and see what they come back with that's another way of being intellectually rigorous to me it might not be that people are super bright and super informed but what they have got information and they have got access to and time to think about and like I say time to talk to each other about to, this community is good at talking to each other and so people will encourage each other to think about things in a more kind of

creative and diverse and intelligent way than if than a quick public meeting.” (R11)

“I think you have to be very careful about going faster and then people are happy to go and if you put the time into the community consultation and even over kill on the information then you will end up bringing people with you and I think that’s a really important thing and I think about you know holding meetings in each local community is a good way and also doing you know mailbox drops and things like that is good because not everybody is on the emails or computers us being one of them.” (R12)

“I think it’s a great idea I think it’s really good for communities that are going to be affected so to speak are involved, I think it’s really good that consultation goes ahead and you know it’s just finding out what ones thinking and as you say it’s the status quo really and I guess people would you know be really interested to see the pro’s and the con’s and see what the advantages are for the community or the people or the shareholders or whatever.” (R16)

5.5 Trust

“Working with Pioneer, from what I have seen they seem like a pretty decent outfit.” (R5)

“Some people might be concerned that they are going to feed money into something that could fail and again this would have to be your sales pitch it would have to be well presented we have to be a solid model ‘this is what it’s going to be and we know it’s going to work and we have this expert that expert and that expert’ and if people know if they perceive that this has been thrown together by X and Co. they might be very reluctant to touch it but if they realise well we have consulted all of these expert people and they have all given it the thumbs up then they might think ‘oh well okay’, so not celebrity endorsement but expert endorsement might help.” (R5)

“There is a few people in the community they have said to X ‘I don’t like you, we don’t like you, we don’t trust you’ and they seem to perceive X has some ulterior motive or that it’s also been pointed out to me that ‘bloody greenies you know hypocrites the dirty old cars they drive’ and stupid things like that.” (R5)

“If you’re not kind of in the loop then it’s kind of when if it happens and it’s a surprise to you that’s when you are kind of pissed off.” (R6)

“I think that the more that you do stuff like this and get to know people and then when you ask peoples opinions then they are already informed and they know who you are and they trust who they are sending it to and all of that kind of stuff I think that building community stuff is it’s important.” (R11)

“I mean it was interesting I mean when Otago Power first sort of I don’t know what you would call it, when they stopped being the company the company

out there that charges a lot of money and became something that we were all a part of it changed the way I looked at and the way I thought about them as a power company you know so good business practice can change ideology and good ideology can change people's business practice." (R11)

5.6 Financial Cost

"Anything like that where there is actually direct costs starting to become involved would have to be more than this it would have to involve meetings where you know obviously and I mean personally I don't care whether they own fifty I mean it means nothing to me really it's not going to affect me unless I have to pay extra money and so as far as that goes that doesn't you know I've got no opinion really one way or the other as to ownership or going into a partnership" (R1)

"We can't do it ourselves because how much, how much money are they talking about?" (R2)

"I think the problem that I see is that people are putting an economic or financial cost on environmental change and I think that's the wrong way to go about it because my attitude is that a lot of people think that we can't afford to do it my attitude is that we can't afford not to, because what we're doing is so devastating that there will not be anything left if we don't make those changes and people of your generation and your children are going to look back at my generation and those older than me and go 'you knew about this, you knew what was going to happen, the science was there, it was all proven, you could of made the changes, but you didn't, why not?'" (R4)

"I don't know what does it cost to build these things what does it cost, how effective do they run, I couldn't I wouldn't have a clue of any of that sort of thing absolutely blank." (R5)

"One thing that doesn't enter into my thinking much funny enough is economics." (R5)

"There would be a lot of people the first question and X would probably be the first to say right what's it going to cost and how much is it going to save us and what are the economic benefits in the long term 'oh it's environmentally friendly as well oh that's even better' you know as a first concern I mean I'm guessing about X I don't know him that well but I just think there are people who think like that yeah anyway." (R5)

"I think there is no matter what way you look at it it's going to cost money to set up and that's going to be in a lot of people I knows minds 'where is the money coming from' and 'what terms will there be'." (R5)

"Yeah that's right that's crossed my mind before as well especially if you were to set it up if it required people putting money in." (R6)

“That’s not really important to me in a way I mean if an idea is a good idea it will work and also if you, if it’s going to make electricity that is going to cost vastly more than what we are paying well then probably it won’t happen but you know I wouldn’t want...I mean you can tell that I like community based renewable energy projects but you know I wouldn’t do a really stupid one you know I wouldn’t build a hydro dam in a desert or Australia or wind in a place that never had wind so you know we don’t want this to be a stupid idea and so that would be and I doubt that this is what is going to happen but you know it would be a concern of mine if we don’t end up building a big waste of money or a thing that generates electricity for a dollar a unit sort of thing you know so obviously that would be, I’d be against that.” (R14)

5.7 Investment

“I also appreciate that there are elements in our communities who don’t really care and um who wouldn’t be willing to engage and you would need a large number of people to come on board with the willingness to spend a lot of money or to get themselves in debt to finance it and that would be a challenge you would have to have a bloody good sales pitch to get enough people on board to just put up one turbine by itself that we could you know and not have a company involved I think if we could do that it would be very cool.” (R5)

“People don’t want to invest their hard earned money in some fly-by-night thing that’s doomed to failure and if they are going to invest a substantial amount of money they will want to know that it’s going to fly.” (R5)

“I’d have to have someone that I trusted very highly recommending it to me because I’d have no I don’t feel like I have got that kind of brain to make those kind of judgements.” (R6)

“I know that’s tough because often things don’t get off the ground without someone willing to put a lot into it.” (R7)

“I can cope with the power account basically and I’m not in a position to invest into anything so that side of it I’m not interested in.” (R9)

“Well obviously you would want to know if you were going to lose any money a lot I suppose I would want to know a lot more, I would want to know you know where else in the world well I mean obviously in Holland they have lots and lots of these well they use their wind but that’s what I want to know I would want to know what all of the rest of the stuff that you’ve obviously know and because you wouldn’t just invest in something that you didn’t know anything about.” (R10)

“It’s good to talk to everybody and you’d hope that those who are interested in it as a financial proposition will make sure that it’s viable and that their perspective as far as a business model is one that is going to bloody work and not waste everybody’s time but then people with an ideological side will make sure that it’s actually you know not you know you are using your intelligence

for good instead of evil basically there is a lot of really dodgy business practice in the world and its possible to be viable in business without it.” (R11)

“I don’t have any capital myself and I couldn’t put a thousand dollars into this project because I don’t have a thousand dollars to do so but I could agree to buy all of my electricity from it as long as I lived in the area.” (R14)

“I hope that there are ways of getting people on board when they have no wealth.” (R14)

“Even if the returns weren’t quite as high as you could get from a bank or something you know I’d still do it because it’s a good thing.” (R15)

“I would certainly be willing to invest even over and above just the normal charging for it you know we would to the rather limited extent we could I think we would be willing to invest.” (R3)

“If you were an investor and you lived locally and so you kind of had a vested interest and it was proven then you would want to be involved at an investment level I mean why not cause you’re investing in your own local community so I could see some real possibilities for that but not for me personally I wouldn’t think.” (R4)

“In terms of actually participating that’s just a question of whether we could afford it.” (R7)

“I don’t have a big problem with the cost of power and it’s always a bit of an issue but when I look at all of the things that I get from my electricity and I compare it to what I pay for my telephone because all you’ve got is your telephone and you are paying this phenomenal monthly cost but you know I am on a limited monthly income so I can’t rule out the fact that I would be.”

“Unless the community is willing to invest financial in it and also invest time and energy in it then its not going to work so I think people do have to realise that a community owned facility requires community involvement not just at the beginning but it’s a continuing involvement if they are to benefit.” (R3)

5.8 Community Benefits

“It would be useful to see some money going back into the local community to develop ah other projects that ah the B-R-C-T would like to see developed over a period of time like a co-operative dairy farm, a community woodlot ah those are the two examples I can think of off the top of my head that people have been that people have talked about from time to time.” (R4)

“Community benefits we might get cheaper power and more reliable power into the future.” (R5)

"If there was profits yeah we could there is always projects going on around Waitati that could use funding if there was a pool of money like I know they are building a tennis court at Bland Park at the moment and they want to do a BMX Track at the school there is always things there could be upgrades on our hall and all sorts of things." (R5)

"Some people might say well let's just bring the cost of our power down." (R5)

"I presume they would have a board that would assess the applications and make sure they fit within the goals of the trust or whoever runs it." (R6)

"Having young children as well I'd like to see the community being beautified a bit more and and there being some more facilities for kids and for teenagers probably so yeah I'd definitely hope that it would have yeah I'd definitely hope that it would if it's if we are going to have something like turbines there has got to be some definitely some pretty good return." (R6)

"It'd be nice to have a way that whenever the turbines are turning you are getting some use out of it its going somewhere its banking up so if its more than your communities washing machine and dryers and all are using you would like to feel that energy is going somewhere and you want credit for it in some way and maybe having them selling that energy and maybe having the community participate in the profits is a way of doing that too as well." (R7)

"I think any affects on something like that would be so minimal flowing back to the community that wouldn't counter balance the sort of negative side." (R8)

"Power is always political but in a cold place it's I mean your health is dependent on it I mean I know what it's like when in one year we didn't have enough firewood and we couldn't afford heating with power and I got sick because powers too expensive so anything that we have any way of making power more accessible to people so that you can actually control your own health because it's a health issue people in New Zealand die and get really sick because they don't have well heated houses and New Zealand has quite bad I mean I like it in terms of overseas I think they burn massive amounts of oil for no reason because places are overheated but in New Zealand and Australia we don't heat our houses enough so there is all of those kinds of issues." (R11)

"I mean any time that we have run a public meeting new networks develop and out of those new networks new projects develop you know so I see the community turbine as I mean if it's done right it is good business practice and it will help health outcomes and wealth outcomes in our community but also it allows a community identity to build up around you know." (R11)

"I guess it would be good if it was cheaper power and as far as the Amenities Society is concerned you know if there was money given to the Amenities Society it would be good you know as a community group." (R13)

"I definitely think you know if a community is going to go on and try something like that then you know it'd be really good to have some sort of payback in terms of having a financial advantage out of it." (R15)

"I think that model would work really well um you know like really the only community, well we've got two community assets in Seacliff I guess one is the sports field in the Truby King Reserve (sp.) which is now I think maintained by DoC and the DCC, but the playground that we've got in the community domain we built with community labour." (R16)

"To have somebody else standing behind us with offers for any of the local groups or a new local group to apply for funding would be a huge benefit to you know whether they would get in behind something like transport to town or I don't know what the options would be but you know that's another thing that would factor for a lot of people having that you know readily available public transport." (R16)

5.9 Confidence

"Oh I don't think so I mean some people might be objective of it but as I said they are coming anyway whether we like it or not." (R2)

"I don't think these guys are dumb enough to ah not make sure that happens and I've got a lot of confidence in them." (R14)

"Oh it's just something that you know is happening and like I can say that's how much I know over the time and I've been interested to see what it is but whether it actually happens like the way they are talking about well that will only time will tell with that you know." (R1)

"Yeah but they are pretty big 'if's' though isn't it I mean you know you've got the size of the community even if you know it'd have to be a pretty big output before it would actually make money to subsidize other you know to even to even to even produce enough to float themselves to float the whole thing and maybe have a couple of cents off peoples power we would be doing well you know really wouldn't it." (R1)

"Getting mixed up with any of the commercial operators I would have very grave doubts about the wisdom of that." (R3)

5.10 Support

"In fact you might need to have more of those on individual properties to get the momentum to get the community support for the community turbine." (R4)

"I'd say potentially the trust would be supportive of that because that's what the trust is all about." (R6)

"We would totally be in support of it of course we'd would want to be included is the way we would feel about it you know." (R7)

"I would say at the very least we would want to have information as it's available like you know what's happening with it and my wife is a midwife so she is quite busy but you know we would certainly be really supportive of it you know to whatever extent we could." (R7)

"I kind of support it without knowing much about it because you know I think that all types of renewable energy are way better than any type of non-renewable type of energy so um I would always support it just on principal." (R14)

"Any kind of energy that is local is good so renewable good, local good, non-renewable bad and sort of centralised massive energy production is bad so with what we have here is renewable local energy so why wouldn't I be just totally in favour of it, I mean I am absolutely in favour." (R14)

"Oh I think it is a brilliant idea yeah so go for it." (R2)

6. Personal Benefits

“It doesn’t resonate with me at all because it looks like something that would benefit Waitati and if it’s going to affect the ridgeline here then I think that would be opposed vigorously by people here including myself.” (R8)

“The feedback you get from the succeeding works very rapidly with capitalism you know there is an instant feedback profit mechanism that sort of says if you do this you will benefit and if you do that then you won’t.” (R14)

“Yeah I would of thought that would have been a huge benefit to me you know to get that fifth one.” (R16)

6.1 Living costs

“It’s fabulous in multiple ways, it’s fabulous because it’s cheaper, it’s fabulous because it’s cheaper, it means that there are people here who have health problems because they can’t afford power we will have better health it’s fabulous because then people will have money to spend on something else other than their power and like I said earlier I just think it’s quite disgusting that something that is so fundamental to peoples wellbeing is so far out of so many peoples reach and we are not a wealthy community, having grown up North in a much richer community this there is a lot of working class people here there is a lot of people without a lot of money so cost is really important and we live in a community that is freezing cold I mean I have had my fire on in January so the price of heating is really important when you need to have heating twenty-four seven in the Winter and you need it in the middle of Summer whereas when I lived up North it’s a sort of three months of the year chill so it’s a really different ball game and it disgust me that power is more expensive in Winter.” (R11)

“People who are really suffering out there are suffering because it’s expensive not because it’s non-renewable.” (R14)

“I mean I know plenty of greenies just like me who light very smoky fires and burn through shitty green firewood and so you know that’s not to say that you know once again they just need to be warm on a cold wet day so yeah crucial to this whole thing is cost.” (R14)

6.2 Cheaper power

“Oh cheaper power bills I suppose yeah definitely that’s probably what most people would want I suspect.” (R2)

“Oh I think a bit of both definitely cheaper power because otherwise why do it and it’s relevant, it’s a proper return that you are getting and it’s relevant to what it is that you are doing.” (R4)

"I know probably half of Waitati wouldn't care who they were buying it off and they wouldn't care about what it was if they could get it cheaper then they would be all for it, there are plenty of people around here of that mindset I don't know what percentage of people but there is some." (R5)

"I haven't really thought about cheaper power but definitely if I would hope that it'd bring money into the community for projects that I am interested in for sure as well as community projects around basically yeah all of the goals of the BRCT." (R6)

"It feels like a pretty good amount although because we use a log burner that effects our bill a huge amount of course if we didn't it would be astronomical, but I think the per unit isn't cheap I wouldn't think so I mean I sound ignorant because I haven't looked at it you know quite lately you know in terms of how much it is per unit." (R7)

"I guess cheaper power is always something you can't rule out." (R9)

"Anything that makes it cheaper is appealing for me and even more appealing for me now that I'm injured and can't work but it's also anything that takes us up and out of the politics the disgusting politics around power and the profit made for a few." (R11)

"Firewood, power is completely outside my reach it's just we once didn't have the fire for one Winter and one month we used power it was so far out of our reach that we went cold for the rest of that Winter and I got really sick power is completely outside of us whereas firewood it's a cost that I can budget for." (R11)

"If power became more affordable for me that would change the quality of my life quite a lot because you know we don't have much money and most of it goes on keeping us warm and fed." (R11)

"My personal view is that the dividends of the company should be in the form of cheaper power." (R14)

"I mean yeah definitely but since we did get the solar hot water thing our power bills have been so much cheaper than everybody else's that I know that you know it's probably not as much of an advantage for us as it would be for some other people but hey you know a dollar saved is always good." (R15)

"Yeah both would be good and cheaper power especially and you know maybe more regulated costs for the power rather than going up and down and so you would have a bit more of an idea of what to budget for an what to expect." (R16)

7. Information

"Oh Trust Power is the worst you know and I mean no matter who is on power you go to Power Switch [website] and price up your power because if you go there you can, have you been there? Because you have got your comparison, I bet you Trust Power always comes out as the dearest you know." (R1)

"I think that direct to households is really important as well I think talking with the community explaining what's going on and giving them the opportunity to give feedback before decisions are made I think is really important." (R4)

"I think getting around and talking to as many people as possible is probably a good thing." (R4)

"I think that you know educating the kids is a really good idea because there are a lot of kids around here at the moment apparently and I don't have any myself and so but my understanding is that people with kids get together in groups so there is all kinds of different ways there is the school and various other activities that the kids are involved with and if you can get dialogue happening through the kids and bring it up through the parents." (R4)

"I guess if you can pitch it to them and describe that yes there will be economic benefits that will probably get them interested and then you could say as an added bonus there will be environmental benefits or as you say moral or whatever benefits...I guess it's a case of identify your audience identify what sparks a person up and pitch it from that angle and add in the extra bits if they are interested in the environment then play up the environmental aspects and also mention the economics if they are interested in the economic angle play that up and also mention the environmental oh that's how I'd probably approach it." (R5)

"Possibly independent I know there are some people around these parts are almost hostile towards X and others 'oh these f__king greens again' you know and um 'what do they want this time, what are the bloody well going to try and do' there are some people who are openly hostile towards it they just think 'I wish they would all go away' and they are happy with their lifestyle and there are others who would respect what X and the rest of them are trying to do and it would be good if they turned up then if you knew your audience you could certainly different people from different places but perhaps someone independent might be useful then you are covering all of your bases." (R5)

"Actually maybe prior or part of a campaign for getting people on board could be something like a mailbox drop it would have to be a carefully crafted document, visually appealing and succinct and concise and really praising the virtues really playing up all of the good things you might have to break it into several chunks you know resilience, economic value, kudos for Waitati, environmental benefits on panels but each of those things and that might get people interested." (R5)

"Yeah I probably couldn't really say at this stage I'd just like to know a lot more about it I suppose I'd have to know more before I decide on that one." (R6)

"Just making sure that all of the people who aren't in that kind of central hub just being absolutely sure that they are being kept up to date and are involved in the process and yeah just ensuring that there are going to be educational opportunities along the way because I think that when you are informed you are, you are often more supportive of things when you understand them yeah." (R6)

"From all of those things I've seen from Google Earth it's a bit crude and so it might just end up it might give you some idea it's not something that you are really going to trust you know." (R6)

"We've got a log burner and we have got a small heat pump and we've considered underfloor and of all those things I couldn't I don't have the first idea on which is the most efficient and which has the least impact on the environment or even how to find that out, even searching on the internet you know relatively you know thoroughly I haven't found any good comparison that says well if your power company drive your heat pump from power generated from coal it does this compared to power generated with that compared to a log burner burning timber you know all of those factors I don't think a lot of people would know how they balance out." (R7)

"I don't know you know it would be wonderful if someone had some of that information say relevant to wind turbines you know what's the total impact and then you know compare that to the others and I suspect that it's impact is going to be phenomenally less but people I would assume would want to know that." (R7)

"Oh I think newspaper and I think that if there is something directly affecting here then they should do a mailbox drop for people because that's the only way to really get to people." (R8)

"I would definitely like to be informed, probably not so much involved as informed because I'm not one of these people who gets tremendously involved in these things but I would like to know what is going on so yeah regular information bulletin or anything like that would be helpful I think for the local residents all around here you know." (R9)

"It's great to have a visual because I've read about it but then I forget where they are whereas with a visual it's like oh that's where they are." (R11)

"We haven't had any D-Scenes this year." (R13)

"Anything that was in the ODT, I read that and I suppose has there been any stuff in the East Otago Review which is another local paper that we get it's based in Palmerston and X organises that." (R16)

7.1 Visual Models

“That would be excellent because then I could see because at the moment it’s just theory I have no idea so a visual representation would be excellent because I could see exactly what it would look like yeah that would be great.” (R11)

“I think your idea of sort of visual mock ups of what it would look like and it enables lay people to make really informed choices about how many turbines in one site.” (R11)

“Yeah so it’s really hard to visually know what it will look like so I think you’re idea of doing sort of a visual mock up would be good and so you could see them superimposed onto the landscape and get an idea of and sort of how they are located.” (R11)

7.2 Word of Mouth

“Oh I heard about it from X.” (R2)

“I enquired and got into contact with X and X told me a bit about it and sent me information but X felt we couldn’t put it in but that was alright oh I was that’s how I became aware of the energy Waitati Energy Project WEP thing and then when I when we moved here earlier this year in January this year I started to attend.” (R3)

“All I’ve heard is a little bit of word of mouth, I’ve just heard a little bit you know someone told me it was probably my wife actually saying that she heard that Waitati in particular was considering well people in Waitati were looking into a wind project that would serve the community, so that is about all I’ve really heard about it.” (R7)

“Just a letterbox drop I think would be quite ideal for me yeah I’d prefer that.” (R9)

7.3 Newsletters

“Inconsistently yeah I don’t know how often they put it out but actually that could have been where my wife read it and I just didn’t see that copy kind of thing so yeah we get it and we get the Rothesay News too which I don’t know if it would have been in that but that’s more maybe that’s more from here down to Port.” (R7)

“I really like that X articles have got a lot of detail in them.” (R11)

“Yeah we get the Blueskin and the Rothesay yeah I really like those papers yeah they’re great.” (R12)

7.3.1 Blueskin News

“Well you know the Blueskin News it is good to keep you sort of basically informed” (R1)

“Because anything that they do which isn’t often but they tend to usually put it in there anyway and so we usually well we always read it so and always keep up on things.” (R1)

“We just pick it up [Blueskin News] at the shop they have a stack of them down at the shop.” (R1)

“Blueskin News this is a little local newspaper you have probably seen it, I’m also one of the editors of and it seems to have a really good coverage of local initiatives and because I came here not knowing anything about this community and wanting to get involved and find out what was happening that was my principle source of information.” (R4)

“Yup just like that it does to the local communities from here to it doesn’t go as far as Purakaunui, it goes to Warrington I’m not certain it goes to Seacliff about 600 homes or 650 sorry homes altogether.” (R4)

“I often wonder how many people don’t read it, a lot of people I know do but I know also there are some who don’t.” (R5)

“I think the trick about the Blueskin News is once you are on this side of the ridge and this side of Blueskin people look at it but not as religiously because most of it is Warrington Waitati stuff that is in there.” (R7)

“Um no we don’t get Blueskin News, we just we get the ODT and the Internet.” (R8)

“Yes we do get the Blueskin News and that’s where I had heard about the energy group but I don’t think I’ve read anything specifically about the wind turbine in there.” (R9)

“Yes there was some information in there I think that’s where I got to find out about the meeting.” (R10)

“I follow it in the Blueskin News and that’s the main way that I get information, Blueskin News is the most important way for me to learn about so that is how I first heard about it, it’s a monthly publication it use to be that it got put in your letterbox it’s now not always in your letterbox and it’s made available they sort of put lumps of it out like piles out and they go really quick so it doesn’t have a good as a coverage as it use to.” (R11)

7.3.2 Rothesay News

“Purakaunui for instance gets for example the school reports that go in community newspapers well the Rothesay News is what carries what the Purakaunui one well people would look to that more or be use to looking to it more so that could be you know that could be handled either way either you know people could be made aware that Blueskin News has stuff that could apply to them or it could be posted in the Rothesay News or the other way around and so other communities might show some interest like Long Beach.” (R7)

7.4 Emails

“Well X sends out these emails with little summaries that are quite useful.” (R3)

“More recently I signed up to be a part of the information that is sent out by email.” (R11)

“I’m on an email list for a, where I get newsletters and um yeah and I know a few of the people involved.” (R15)

7.5 Public meetings

“Oh I just think more meetings yeah more public meetings.” (R2)

“That sort of thing is great where you can go along a you can see a diagram about what a wind turbine looks like and how it works and maybe how the grid works as well and maybe someone there that you can ask questions to and that sort of thing and that’s probably that kind of thing I think a lot of people will feel comfortable going to because it’s sort of a community event.” (R6)

“I suppose you could provide or run little films or something around examples of all of these thing and how they work perhaps in other parts of the world like that’s always inspiring to me to hear stories of where this has worked elsewhere.” (R6)

“There was an environmental meeting I think it was held on a Wednesday and I think that I was babysitting actually I was babysitting or something and I wasn’t able to go so I don’t really know an awful lot I just know that there are some wind turbines planned and Waitati is the place and that’s about it really.” (R10)

“Probably you know I’m better with a screen and somebody talking to me.” (R10)

"You could do public meetings so that you know people who don't have access or don't know how to use it you can swoop round for them and they can have a look, that's an that's an fantastic idea that's wonderful." (R11)

"Public meetings are really good if people are already informed and they have thought about it they can bring an informed choice but a public meeting to inform people can give rubbish back because people are not informed and they may speak without you know if you know what I mean so like my recommendation would be which so far this group seems to do you put your information out there you inform people a lot you give tem time to think about it and time to talk to each other about it and then you consult them and you consult them in a variety of ways you have public meetings to inform people who are never going to write anything down but might come and talk to you, and then you have surveys that go out for those people who would never have time for a public meeting or who are far too shy but who might spend hours filling out a questionnaire form so if you kind of canvas the public in multiple ways you will get a much more realistic because one of my bug bears about the modern world is like lots of stuff is done on the internet, well I don't use the internet because I'm in too much pain to sit and there are other people who don't so if you have if you always consult in one way you get the same people answering whereas if you have multiple ways of asking then you will get multiple kinds of people, does that make sense?." (R11)

8. Frequently Asked Questions (FAQs)

Local wind resource

- So what were these [measurements]? What did they come out at? The two that you studied, were they above the eight [metres/second] or under the eight? (R16)

Size/scale

- Right I'm just looking at the trees up there and trying to imagine how high that is, that's pretty high isn't it? (R15)
- Okay and larger blades means that it can generate more energy? (R7)
- You know what I mean one thirty metre is that better than ten metres, or who knows? (R7)
- Is it more efficient to do that then to do ten 5 metre you know ten short ones? (R7)
- Do you have one big one or several small ones? (R11)
- How many are you looking at putting in one wind site? (R11)
- How high was Trustpower's [tower]? (R16)
- Are you talking about numbers of turbines or the size of individual turbines? (R4)

Birds

- My understanding is that the birds have more sense, they don't seem to get killed by turbines elsewhere do they? (R4)
- I hadn't thought of that I wouldn't like that we've got some beautiful birds around here in this garden and I really encourage them but I don't know would they? Have they? It's probably a problem isn't it is this why you say the Albatross the Albatross Colony is that what they were worried about? (R10)
- Bird strike it's not a major problem though is it? (R1)
- I don't know what threat a turbine poses to birds do you know? (R7)

Structure

- Could we set up our own? (R2)
- Do we need to have [a joint venture]? (R2)
- [Equity characteristics] what does that mean? (R11)
- What do you mean by single retailer? (R6)

Financial

- And the funding comes from where? (R1)
- How much money are they talking about? (R2)

Relationship with energy companies

- So no matter however we run it we have to go through a power company, why do we have to do that? (R2)
- If you were sending [power] back it wouldn't be the individual retailers you'd be dealing with would it? (R1)

- Is there some law that says that Trustpower and Meridian and all of that have to buy stuff from companies but they aren't allowed to buy it from co-operatives? (R14)

Mixed energy system

- Would this make a difference to our decision on solar power would be my question I suppose...or would the two go together or do you know? (R10)

BRCT

- Who is the Trust? (R1)
- Are they drawing in new people all of the time? (R1)

Trade-offs

- I guess the question is does making a wind turbine have more impact than digging a coal pit or making a dam or whatever it is you are doing if you are not doing that? (R7)

Noise

- Isn't that one of the biggest issues of the turbines is the noise they make? (R11)
- If there was noise or the noise level wouldn't be predictable? (R16)
- Would there be increased noise between one and five [turbines]? (R15)

Siting

- Which [site] is the most likely then do you think? (R10)

Other models

- How are other people doing it? (R10)

Technical

- It's consistent wind that is the thing isn't it? (R4)
- So are you saying that theirs gets bundled as hydro even though it may have some proportion of it wind? (R6)
- I don't understand how the grid works, how does it absorb that energy during the day to give it to us at night? (R6)
- How would it actually work then your electricity would come from the turbine but not all of it because it wouldn't be able to produce enough to sustain the whole village presumably all of the time so you would be attached to the grid as well would you? (R10)
- Is the concept that people would go off the standard grid or is there a mixture? (R7)
- What happens when the winds blowing during the day because we often get wind days and then the wind drops like this in the evenings, did you find that from your data? (R6)
- Does that property actually get that power directly or does it like you said before does it go into the national grid and they would get it a whole lot cheaper or something? (R16)
- They only go when it's windy obviously? (R16)

Appendix 1.

Interview Structure

1. How long have you lived in the Blueskin Bay area?
 - a. What was your motivation for living here?
2. What can you tell me about the project?
 - a. Could you please elaborate on how you came to know 'Blueskin Power'?
 - i. Meetings
 - ii. Newsletters
3. Do you realise this would be a first for New Zealand?
4. What are your views on:
 - a. Local energy generation?
 - i. Hydroelectric
 - ii. Solar
 - iii. Tidal
5. Using wind?
 - a. Big turbines
 - i. Windflow 500 (30m)
 - ii. Vestas (40m)
 - iii. Powerhouse Winds (10m)
6. Siting?
7. Ownership?
8. Management of turbines?
9. Structure?
 - a. Co-operative
 - b. Limited Liability Company
10. Community Benefits?
11. Personal Benefits?
 - a. Investment
 - b. Cheaper Power
12. Are there any other issues you can think of?
13. How would you like to be informed or involved as this progresses?

Appendix 2.

Time Respondents have resided in Blueskin Bay area.

RESPONDENT	YEARS
R1	30
R2	21
R3	1
R4	2.5
R5	8
R6	10
R7	5
R8	1
R9	17
R10	4
R11	25
R12	29
R13	22
R14	12
R15	20
R16	23