



85 E Street
South Portland, Maine 04106
Phone 207.767.6440 Fax 207.767.8158
Email research@marketdecisions.com

Research Report

The Mount Redington Wind Farm Visual Analysis Survey

October 2003

APPENDICES

Prepared for

Endless Energy, Inc.

Prepared by:

Brian Robertson, Ph.D.
Director of Research

Table of Contents

	<u>Page #</u>
Counts and Percentages of Survey Items	1
Verbatim Responses to Open-ended Items	20
Survey Questionnaire	25

Appendix 1. Counts and Percentages of Survey Items

Q01

How many times have you hiked in this area?

		Count	%
NQ01	First Time	10	11%
	1	23	25%
	2-5	21	23%
	6-10	15	16%
	11+	17	18%
	DK-REF	7	8%
	Total	93	100%

Q02

How many times have you hiked sections of the Appalachian Trail?

		Count	%
NQ02	First Time	14	15%
	1	18	19%
	2-5	17	18%
	6-10	8	9%
	11+	26	28%
	DK-REF	10	11%
	Total	93	100%

Q03

Which of the following best characterizes your hiking status?

		Count	%
Q03	A day hiker	66	71%
	An overnight backpacker	15	16%
	A long distance hiker	4	4%
	A through hiker	8	9%
	Total	93	100%

Q04

Have you participated in any of the following activities in the Sugarloaf/ Carrabassett Valley/ Rangeley area in the past 12 months?

		Count	%
\$Q04	Snowmobiling	3	3%
	Cross-country skiing	31	33%
	Downhill skiing	30	32%
	Hiking	66	71%
	Camping	35	38%
	Canoeing or kayaking	25	27%
	Fishing	10	11%
	Hunting/Trapping	7	8%
	White water rafting	4	4%
	Bicycling/mountain biking	23	25%
	Bird watching	15	16%
	None of these	22	24%
	Total	93	100%

Q05

How many times in the past 12 months have you participated in these kinds of outdoor activities in this area?

		Count	%
NQ05	None	21	23%
	1	13	14%
	2-5	13	14%
	6-10	11	12%
	11+	27	29%
	DK-REF	8	9%
	Total	93	100%

Q06

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

6. Long distance views of mountain scenery.

		Count	%
Q06	3	3	3%
	4	6	6%
	5	15	16%
	6	21	23%
	VERY IMPORTANT	47	51%
	NO ANSWER	1	1%
	Total	93	100%

Q07

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

7. Physical challenge

		Count	%
Q07	NOT AT ALL IMPORTANT	2	2%
	2	3	3%
	3	11	12%
	4	25	27%
	5	26	28%
	6	14	15%
	VERY IMPORTANT	12	13%
	Total	93	100%

Q08

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

8. Solitude

		Count	%
Q08	2	3	3%
	3	3	3%
	4	10	11%
	5	28	30%
	6	18	19%
	VERY IMPORTANT	31	33%
	Total	93	100%

Q09

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

9. A well-maintained trail footpath

		Count	%
Q09	NOT AT ALL IMPORTANT	1	1%
	2	3	3%
	3	12	13%
	4	15	16%
	5	27	29%
	6	20	22%
	VERY IMPORTANT	15	16%
	Total	93	100%

Q10

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

10. Spatial separation from development

		Count	%
Q10	NOT AT ALL IMPORTANT	1	1%
	3	1	1%
	4	6	6%
	5	24	26%
	6	21	23%
	VERY IMPORTANT	40	43%
	Total	93	100%

Q11

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

11. Meeting other hikers on the trail

		Count	%
Q11	NOT AT ALL IMPORTANT	13	14%
	2	11	12%
	3	19	20%
	4	19	20%
	5	21	23%
	6	3	3%
	VERY IMPORTANT	6	6%
	NO ANSWER	1	1%
	Total	93	100%

Q12

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

12. Hiking to the top of a 4,000 foot peak

		Count	%
Q12	NOT AT ALL IMPORTANT	7	8%
	2	3	3%
	3	8	9%
	4	17	18%
	5	19	20%
	6	16	17%
	VERY IMPORTANT	23	25%
	Total	93	100%

Q13

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

13. A remote, backcountry experience

		Count	%
Q13	NOT AT ALL IMPORTANT	1	1%
	2	6	6%
	3	4	4%
	4	9	10%
	5	19	20%
	6	30	32%
	VERY IMPORTANT	24	26%
	Total	93	100%

Q14

Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

14. Natural sights and sounds

		Count	%
Q14	NOT AT ALL IMPORTANT	1	1%
	2	2	2%
	3	1	1%
	4	1	1%
	5	9	10%
	6	20	22%
	VERY IMPORTANT	59	63%
	Total	93	100%

Q15

Again, we'll use the 1 to 7 scale where 1 means the factor will have a very negative impact and 7 means a very positive impact on your hiking experience.

15. Views of large clear cuts

		Count	%
Q15	VERY NEGATIVE	33	35%
	2	20	22%
	3	16	17%
	4	10	11%
	5	7	8%
	6	5	5%
	VERY POSITIVE	2	2%
	Total	93	100%

Q16

Again, we'll use the 1 to 7 scale where 1 means the factor will have a very negative impact and 7 means a very positive impact on your hiking experience.

16. Views of ski trails and facilities

		Count	%
Q16	VERY NEGATIVE	8	9%
	2	11	12%
	3	25	27%
	4	28	30%
	5	17	18%
	6	1	1%
	VERY POSITIVE	3	3%
	Total	93	100%

Q17

Again, we'll use the 1 to 7 scale where 1 means the factor will have a very negative impact and 7 means a very positive impact on your hiking experience.

17. Views of power lines

		Count	%
Q17	VERY NEGATIVE	24	26%
	2	18	19%
	3	25	27%
	4	15	16%
	5	7	8%
	6	3	3%
	VERY POSITIVE	1	1%
	Total	93	100%

Q18

Again, we'll use the 1 to 7 scale where 1 means the factor will have a very negative impact and 7 means a very positive impact on your hiking experience.

18. Views of roads

		Count	%
Q18	VERY NEGATIVE	14	15%
	2	18	19%
	3	18	19%
	4	26	28%
	5	11	12%
	6	4	4%
	VERY POSITIVE	1	1%
	NO ANSWER	1	1%
	Total	93	100%

Q19

Again, we'll use the 1 to 7 scale where 1 means the factor will have a very negative impact and 7 means a very positive impact on your hiking experience.

19. Views of industrial facilities such as a biomass generator, paper mill or landfill

		Count	%
Q19	VERY NEGATIVE	58	62%
	2	19	20%
	3	10	11%
	4	1	1%
	5	4	4%
	VERY POSITIVE	1	1%
	Total	93	100%

Q20

Again, we'll use the 1 to 7 scale where 1 means the factor will have a very negative impact and 7 means a very positive impact on your hiking experience.

20. Views of developed areas.

		Count	%
Q20	VERY NEGATIVE	23	25%
	2	26	28%
	3	29	31%
	4	10	11%
	5	1	1%
	6	3	3%
	NO ANSWER	1	1%
	Total	93	100%

Q21

Now, I would like you think about renewable energy sources. Thinking about wind power development in general, please rate how appropriate it is for Maine on a scale of 1 to 7, where 1 means wind power is generally very INappropriate and 7 means it is generally very appropriate.

		Count	%
Q21	VERY INAPPROPRIATE	3	3%
	2	3	3%
	3	3	3%
	4	7	8%
	5	21	23%
	6	21	23%
	VERY APPROPRIATE	29	31%
	NO ANSWER	6	6%
	Total	93	100%

Q22

I would like to have you look at some pictures of views from some locations along the Appalachian Trail and other nearby mountains and get your impressions. I will show you several sets of pictures and ask you to rate the scenic view. This first set of pictures is a view from Saddleback Mountain. Here is the first view.
SHOW SIMULATION OF EXISTING VIEW SADDLEBACK - VIEW #1.
I would like you to rate the scenic value of the view on a scale of 1 to 7 where 1 means the scenic value is VERY LOW and 7 means the scenic value is VERY HIGH.

		Count	%
Q22	4	1	1%
	5	13	14%
	6	16	17%
	VERY HIGH	60	65%
	NO ANSWER	3	3%
	Total	93	100%

Q23

Here is a second picture of the view from Saddleback Mountain.

SHOW SIMULATION OF REDINGTON GENERATORS- SADDLEBACK - VIEW #2.

How do you rate the scenic value of this one?

		Count	%
Q23	VERY LOW	2	2%
	2	2	2%
	3	5	5%
	4	15	16%
	5	27	29%
	6	17	18%
	VERY HIGH	22	24%
	NO ANSWER	3	3%
	Total	93	100%

Q24

Now I would like you to look at some views from Mount Abraham, which is not on the Appalachian Trail. Again I would like you to rate the scenic value of the views on a scale where 1 means the scenic value is VERY LOW and 7 means the scenic value is VERY HIGH.

SHOW THE SIMULATION OF EXISTING CONDITIONS ABRAHAM - VIEW #3.

How do you rate this view?

		Count	%
Q24	3	1	1%
	4	1	1%
	5	12	13%
	6	33	35%
	VERY HIGH	44	47%
	NO ANSWER	2	2%
	Total	93	100%

Q25

Here is a second picture of the view.

SHOW SIMULATION AND MOUNT REDINGTON GENERATORS ABRAHAM - VIEW #4.

How do you rate the scenic value of this view on the same scale?

		Count	%
Q25	VERY LOW	8	9%
	2	8	9%
	3	14	15%
	4	23	25%
	5	25	27%
	6	6	6%
	VERY HIGH	7	8%
	NO ANSWER	2	2%
	Total	93	100%

Q26

Now I would like you to look at some views from North Crocker Mountain.

Again,

I would like you to rate the scenic value of the views on a scale where 1 is VERY LOW and 7 is VERY HIGH.

SHOW SIMULATION OF EXISTING CONDITIONS CROCKER - VIEW #5

How do you rate the scenic value of this view?

		Count	%
Q26	4	1	1%
	5	6	6%
	6	30	32%
	VERY HIGH	54	58%
	NO ANSWER	2	2%
	Total	93	100%

Q27

Here is a second picture of the view from North Crocker Mountain.

SHOW SIMULATION OF REDINGTON GENERATORS CROCKER - VIEW #6.

How do you rate the scenic value of this one?

		Count	%
Q27	VERY LOW	8	9%
	2	11	12%
	3	13	14%
	4	13	14%
	5	33	35%
	6	7	8%
	VERY HIGH	5	5%
	NO ANSWER	3	3%
	Total	93	100%

Q28

Now, please look at another picture from North Crocker Mountain.

**SHOW SIMULATION OF REDINGTON GENERATORS CROCKER BLAC
BLADES- VIEW #7.**

How do you rate the scenic value of this view?

		Count	%
Q28	VERY LOW	10	11%
	2	5	5%
	3	24	26%
	4	13	14%
	5	21	23%
	6	10	11%
	VERY HIGH	8	9%
	NO ANSWER	2	2%
	Total	93	100%

Q29

Now I would like you to look at the view from North Crocker Mountain, but this time in different weather conditions.

**SHOW SIMULATION OF EXISTING CONDITIONS CROCKER CLOUDY-
VIEW #8 .**

How do you rate the scenic value of this view?

		Count	%
Q29	VERY LOW	1	1%
	3	1	1%
	4	2	2%
	5	16	17%
	6	22	24%
	VERY HIGH	49	53%
	NO ANSWER	2	2%
	Total	93	100%

Q30

Here is a second picture of the view from North Crocker Mountain.

SHOW SIMULATION OF REDINGTON GENERATORS CROCKER CLOUDY- VIEW #9.

How do you rate the scenic value of this one?

		Count	%
Q30	VERY LOW	8	9%
	2	7	8%
	3	23	25%
	4	12	13%
	5	28	30%
	6	7	8%
	VERY HIGH	4	4%
	NO ANSWER	4	4%
	Total	93	100%

Q31

Finally, I would like you to look at some views from Sugarloaf Ski area.

SHOW SIMULATION OF EXISTING CONDITIONS SUGARLOAF - VIEW #10.

How do you rate this view?

		Count	%
Q31	VERY LOW	1	1%
	2	1	1%
	3	12	13%
	4	15	16%
	5	26	28%
	6	18	19%
	VERY HIGH	17	18%
	NO ANSWER	3	3%
	Total	93	100%

Q32

Here is a second picture of the view from Sugarloaf Ski area

SHOW SIMULATION OF REDINGTON GENERATORS SUGARLOAF VIE #11.

How do you rate the scenic value of this one?

		Count	%
Q32	VERY LOW	9	10%
	2	10	11%
	3	18	19%
	4	19	20%
	5	27	29%
	6	5	5%
	VERY HIGH	3	3%
	NO ANSWER	2	2%
	Total	93	100%

Q33

As you may be aware, a windfarm has been proposed for the Redington Range, between 4 and 7 miles west of Sugarloaf . The wind farm will consist of about 30 wind generators. The photos you just saw depict the views before the generators are installed, and what it will look like if the wind farm is developed .

Comparing these "before" views with their after counterpart(s), and thinking about the overall visual change that will result, please rate the visual impact of the Redington wind farm where 1 means it will have a very negative visual impact and 7 means a very positive visual impact.

		Count	%
Q33	VERY NEGATIVE	12	13%
	2	14	15%
	3	22	24%
	4	17	18%
	5	15	16%
	6	6	6%
	VERY POSITIVE	3	3%
	NO ANSWER	4	4%
	Total	93	100%

Q34

Now, thinking about the quality of your hiking experience here on the Appalachian Trail, please rate the Redington wind farm on a scale of 1 to 7 where 1 means it will have a very negative impact and 7 means it will have a very positive impact on your hiking experience.

		Count	%
Q34	VERY NEGATIVE	9	10%
	2	9	10%
	3	14	15%
	4	33	35%
	5	11	12%
	6	8	9%
	VERY POSITIVE	5	5%
	NO ANSWER	4	4%
	Total	93	100%

Q35

How will your hiking experience be impacted by the proposed wind farm?

		Count	%
NQ35	Lessen enjoyment of area, less appealing	1	3%
	Need to limit development, human activity	1	3%
	Alter the scenic view	11	35%
	Would hike elsewhere	2	6%
	Disturb solitude	2	6%
	Ruin the natural experience	1	3%
	No real affect, would tolerate	13	42%
	Total	31	100%

Q36

IF RESPONDENTS SAYS IT WILL HAVE A NEGATIVE IMPACT (1-3) ASK
Assuming that the Redington wind farm were built, what would you say could be done to reduce the visual impact?

		Count	%
NQ36	Color match to scenery or sky (green, blue), camouflage	10	31%
	Minimize blade size	1	3%
	Move to another location where not as visible	2	6%
	Paint the blades	1	3%
	Other	3	9%
	Nothing	11	34%
	DK	2	6%
	No Answer	2	6%
	Total	32	100%

Q37

Now thinking specifically about the Redington Wind Farm proposal, how appropriate do you feel it is on a scale where 1 is very INappropriate and 7 is very appropriate.

		Count	%
Q37	VERY INAPPROPRIATE	5	5%
	2	3	3%
	3	10	11%
	4	15	16%
	5	21	23%
	6	16	17%
	VERY APPROPRIATE	14	15%
	NO ANSWER	9	10%
	Total	93	100%

Q38

Now I would like you to think about the possible impact, but factoring in some possible benefits to the Redington wind farm. I am going to read a list of factors, after each please rate how appropriate the Redington Wind Farm would be on this same seven point scale where 1 is very INappropriate and 7 is very appropriate.

The Redington wind farm would generate enough power to supply 33,000 households. Knowing this, how appropriate is the Redington wind farm proposal?

		Count	%
Q38	VERY INAPPROPRIATE	5	5%
	2	2	2%
	3	7	8%
	4	8	9%
	5	16	17%
	6	25	27%
	VERY APPROPRIATE	23	25%
	NO ANSWER	7	8%
	Total	93	100%

Q39

The wind farm would help to reduce pollution since it would provide renewable energy. The Redington wind farm would reduce pollution by 600,000 pounds EVERY DAY since its energy would replace that generated by other sources. This is by the same amount as taking 19,000 cars off the road. Knowing this, how appropriate is the Mount Redington Range wind farm proposal?

		Count	%
Q39	VERY INAPPROPRIATE	1	1%
	2	2	2%
	3	6	6%
	4	6	6%
	5	10	11%
	6	29	31%
	VERY APPROPRIATE	36	39%
	NO ANSWER	3	3%
	Total	93	100%

Q40

The wind farm would help cut the amount of fossil fuels used to generate electricity. The wind farm could save the equivalent of 39,000 gallons of oil EACH DAY, or that carried by 15 heating oil delivery trucks. Knowing this, how appropriate is the Redington wind farm proposal?

		Count	%
Q40	VERY INAPPROPRIATE	1	1%
	2	3	3%
	3	5	5%
	4	6	6%
	5	10	11%
	6	29	31%
	VERY APPROPRIATE	36	39%
	NO ANSWER	3	3%
	Total	93	100%

Q41

Age

		Count	%
AGECAT	18-29	20	22%
	30-39	21	23%
	40-49	24	26%
	50-59	20	22%
	60+	8	9%
	Total	93	100%

Q42
Where do you live?

		Count	%
Q42	Maine	54	58%
	Other New England States	13	14%
	Other States and Countries	25	27%
	No answer	1	1%
	Total	93	100%

Q43
**Are you a member of club that maintains the Appalachian Trail
(such as the Maine Appalachian Trail Club)?**

		Count	%
Q43	YES	15	16%
	NO	77	83%
	NO ANSWER	1	1%
	Total	93	100%

Q44
Are you a member of the Appalachian Trail Conference?

		Count	%
Q44	YES	7	8%
	NO	84	90%
	NO ANSWER	2	2%
	Total	93	100%

Q45
During the past couple of years have you ever hiked in the area around...

The Horn and Saddleback?

		Count	%
Q45	YES	37	40%
	NO	54	58%
	NO ANSWER	2	2%
	Total	93	100%

Q45a

During the past couple of years have you ever hiked in the area around...

Mount Abraham?

		Count	%
Q45A	YES	33	35%
	NO	57	61%
	NO ANSWER	3	3%
	Total	93	100%

Q45b

During the past couple of years have you ever hiked in the area around...

Crocker Mountain?

		Count	%
Q45B	YES	35	38%
	NO	56	60%
	NO ANSWER	2	2%
	Total	93	100%

GEND**Gender**

		Count	%
GEND	Female	31	33%
	Male	62	67%
	Total	93	100%

WEATH**Weather**

		Count	%
WEATH	SUNNY	69	74%
	PARTLY CLOUDY	12	13%
	FULL OVERCAST	5	5%
	RAINY	4	4%
	NO ANSWER	3	3%
	Total	93	100%

VISI
Visibility

		Count	%
VISI	Clear	72	77%
	Limited	12	13%
	Restricted	1	1%
	Very Restricted	5	5%
	NO ANSWER	3	3%
	Total	93	100%

LOCA
Location

		Count	%
LOCA	Crocker	24	26%
	Saddleback	49	53%
	Sugarloaf	20	22%
	Total	93	100%

Appendix 2. Verbatim Responses to Open-ended Items

35. How will your hiking experience be impacted by the proposed wind farm?

30000	Visually it will show more development, which equals less solitude. More visual intrusion.
30001	We wouldn't enjoy, not what we're here for.
30004	The only thing is a access road be minimal.
30005	It really shouldn't be. Construction will intrude on the land and impact the trail, trash, cigarette butts, coffee cups will be left. Road will be built to get equipment to the site-it will change.
30006	Not really effected - It's not a negative, even if they are there, I'd enjoy my hike.
30007	Make it less appealing - less back to nature of what people come back her for!
30008	It will change the view!
30009	It will change the vista!
30010	It will not be the same; it will deter the beauty of the region.
30011	Not really, I'd go to the same places. I'd learn to live with it.
30012	It will be less enjoyable!
30013	Not really changed at all!
30014	It will change somewhat-less scenic.
30015	I realize wind farms are a necessity to preserve the environment. I don't want to see them but better than nuclear power. I'll put up with it but don't necessarily like it.
30016	Very little or no effect.
30017	They won't impact me that much. I'm in favor of alternative energy source like the wind.
30018	It will fundamentally change my view and that of others as well.
30019	Not much at all. Changes the view occasionally but I can live with it.
30020	Not much! Spoils the view but there are a lot of new views. Given our need for alternate energy. It shouldn't make much difference. I can live with it.
30021	They will not effect my experience(wind towers). Transport is another issue.
30022	The view will be changed in a negative way!
30023	Well it's going to decrease the natural quality of the view, there's no way its going to improve the view.
30024	Mainly just by looking at something that's not natural.
30025	I don't think it will impact it at all.
30026	It won't.
30027	Negatively, I like to take photographs, it would interfere with my photos.
30028	Well it's probably just what it does to the view, the higher you go the more you see them, I've seen them in Europe.
30029	Basically I 100% support the concept of wind energy. I just don't like the looks.
30030	It's going to impact my view. The whole purpose of hiking is to see nature. As much as I support renewable energy, the windmills will ruin that for me.
200000	
200001	Still be alright, but not the same natural wonder experience.
200002	The important qualities of avoiding development; keeping wilderness quality.

200003 Less scenic.

200004 Just the scenic value would be lessened.
Toss up. Thinking about renewable energy; but how effective would it be compared to other energy sources, and what kind of impact would it have on the natural environment.

200005

200006 It won't.

200007 It will affect quality of view.

200008 Mixed thing - I would clearly see it but I very much appreciate renewable energy-so weighing it all I would appreciate seeing the windmills.
Those views in photos are distant views, if one were to come up close it would move from visual to visceral impact.

200009

200013 Generally demise of natural view.
It makes no difference as long as I don't see high power lines or nuclear power plants.

200014

200015 I go to see nature, that's not what I want to see there.

200017 I don't think it would be impacted at all.

200018 We would probably go elsewhere.

200023 It won't at all.

200024 No impact on my hiking, just a change in scenery.

200025 Visually it will detract from it.
Maine is such a beautiful state, so rustic, I'd hate to see those on the top of mountains.

200026 Maine is very unique in that the Appalachian Trail in Maine has very little views of development. Installing wind farms would significantly change that.

200027

200028 After hiking to the top of a mountain, the last thing I want to see is something built on the top.
Hiking in Maine is great because of the solitude and aesthetics. I'm all for wind power but not installing it in areas along The Appalachian Trail.

200029

200030 Very little, my thinking won't be affected.

200031 The view will be affected as the objects will be in plain sight.

200032 Just visual distraction.

200033 Nothing

200034 Aesthetically by seeing them.

200035 It would ruin the pristine view seen along the trail.

200036 Nothing I can think of.

200037 I won't enjoy seeing the "smokestacks" up on top of a mountain.

20000 Will have a negative visual impact.

20001 Visual, just seeing them, otherwise no impact.
They would ruin the solitude of the area because of the visual impact they would have.

20002

20003 It won't be affected.
Very little impact. There will still be good views, just another minimal disruption on the landscape like houses, ski trails and roads.

20004

20005 Primarily, the effect it will have on the scenery.

20006 No impact.

20007 The quality of the view would be diminished.

20008 I don't want to see them but I understand the need for alternative energy.

20009 No impact.

20010 Will not be affected at all.

20011 No affect.

20012 No impact.

20013	I'll probably hike in areas further away from where the wind farms are.
20014	No impact.
20015	Not as enjoyable.
20016	It wouldn't have the natural experience anymore. I would avoid those trails from which views of the wind farms could be seen.
20017	
20018	No impact.
20019	It would affect my viewing the countryside.
20020	Feeling of less remoteness.
20021	Very little.
20022	Nothing.
20023	Trails will loose their pristine nature.

36. Assuming that the Redington wind farm were built, what would you say could be done to reduce the visual impact?

- 30000 No idea.
- 30001 Don't put them on the ridge line. Color to match environment.
As long as the construction is minimal and repaired when construction is completed.
- 30005 Use clear plastic - camouflage colors for base.
- 30006 On the trail, I don't want to look at Windmills at all!
- 30010 Blow it up!
- 30011 Find some way to minimize the huge paddles.
- 30012 Find a better place where they could not be seen that clearly.
- 30013 Don't know - make them less noticeable, say green to blend into the scenery or white for winter.
- 30015 Hide them behind large trees.
- 30019 I've seen wind towers in California, they are ugly and very noisy. Nothing can be done to lessen the visual impact!
I'm not really qualified to say that, the only other place I've seen wind farms was in South California, totally different experience because it was desert.
- 30023 I don't know.
- 30024 Not really, I don't think color would really change anything.
- 30025 To put them where the view is least appealing in the 1st place.
- 30029 Maybe paint the blades, the colored blades in the photos weren't as obvious.
If they could be way further back on the horizon. Colors that would be camouflaged somehow on the mountains maybe blue.
- 20000 Try to make it blend in.
- 20003 Coloring - maybe some sort of camouflage or build close to other areas of development, like ski slopes, get an environmental designer.
- 20007 Mostly generators are sharply attuned and hidden in relation to the natural landscape.
- 20012 Fewer propellers.
- 20013 Could they be hidden from trail? One or two is OK but we see a line from the trail.
- 20015 If it is there and we don't see it. If there are trails more remote where it cannot be seen.
- 20018 I don't think you could do anything for that. I'd worry more about birds hitting it then visual impact.
- 20020 I don't think there is anything that can be done. They need to be exposed to the wind.
- 20023 Nothing, if the wind farm is built it must reach high enough to be effective. Since they have to be erected tall to work, I don't know what could be done.
- 20025 I don't think anything could be done.
- 20026 Somehow camouflage them.
- 20027 I don't think anything could be done.
- 20028 Paint them green or another color that doesn't "jump out" at you.
- 20029 Don't construct them on the top if possible, otherwise paint them green.
- 20031 Nothing
- 20032 Paint them green.
- 20033 Build them in developed areas.

200036	Paint them evergreen or better yet plant evergreens around them.
200037	Nothing I can think of.
20000	Camouflage them, perhaps plant trees around them.
20001	Put no lights on them, paint them green.
20002	Nothing.
20003	Nothing
20004	Choosing a color that blends in with the surroundings.
20005	Paint them a color that would reduce the impact.
20006	Paint them green.
20008	Paint them green.
20009	Paint them green.
20010	Paint them green.
20011	Paint them a color to "mask" them somewhat.
20012	Make them look like trees.
20013	Paint them a sky color.
20014	Plant trees around them.
20015	Paint them green.
20016	Nothing.
20017	Changing the colors to blue or green and make them shorter.
20018	Paint them neutral colors.
20019	Nothing.
20020	Nothing.
20021	Color them green or brown.
20022	Install below ridge line.
20023	Install them closer together.

Appendix 3. Survey Questionnaire

Survey No. _____

Group Size _____

Hiker Survey – Mt. Redington Visual Analysis

Good morning (afternoon). My name is _____. I work for Market Decisions, an independent research firm in South Portland Maine. We're conducting a survey of hikers in this part of the state. May I ask you some questions about your hiking experience and a proposed wind energy project? It will take about 12 minutes. Are you hiking today?
(IF NO THANK AND TERMINATE)

1. How many times have you hiked in this area? _____
2. How many times have you hiked sections of the Appalachian Trail? _____
3. Which of the following best characterizes your hiking status?

<input type="checkbox"/>	A day hiker
<input type="checkbox"/>	An overnight backpacker (maximum 4 nights)
<input type="checkbox"/>	A long distance hiker (5 or more nights)
<input type="checkbox"/>	A through hiker who is doing the entire Appalachian trail this year

4. Have you participated in any of the following activities in the Sugarloaf/Carrabassett Valley/ Rangeley area in the past 12 months? READ LIST AND CHECK ALL THAT APPLY

<input type="checkbox"/>	Snowmobiling
<input type="checkbox"/>	Cross-country skiing
<input type="checkbox"/>	Downhill skiing
<input type="checkbox"/>	Hiking
<input type="checkbox"/>	Camping
<input type="checkbox"/>	Canoeing or kayaking
<input type="checkbox"/>	Fishing
<input type="checkbox"/>	Hunting/Trapping
<input type="checkbox"/>	White water rafting
<input type="checkbox"/>	Bicycling/mountain biking
<input type="checkbox"/>	Bird watching

5. How many times in the past 12 months have you participated in these kinds of outdoor activities in this area? _____

Now I'd like you to think about what contributes to the quality of your hiking experience. I'm going to read you a list of factors, and I'd like you to rate how important each factor is to your overall recreation experience as a hiker. Please rate each factor on a scale of 1 to 7 where 1 is not at all important and 7 is very important.

	Very Low						Very High	
6. Long distance views of mountain scenery.	1	2	3	4	5	6	7	
7. Physical challenge	1	2	3	4	5	6	7	
8. Solitude	1	2	3	4	5	6	7	
9. A well-maintained trail footpath	1	2	3	4	5	6	7	
10. Spatial separation from development	1	2	3	4	5	6	7	
11. Meeting other hikers on the trail	1	2	3	4	5	6	7	
12. Hiking to the top of a 4,000 foot peak	1	2	3	4	5	6	7	
13. A remote, backcountry experience	1	2	3	4	5	6	7	
14. Natural sights and sounds	1	2	3	4	5	6	7	

Hikers on the Appalachian Trail and other trails see evidence of human activity. I'm going to read you a list of things hikers may see from the trail. Please rate the impact of each factor on the quality of your hiking experience. Again, we'll use the 1 to 7 scale where 1 means the factor will have a very negative impact and 7 means a very positive impact on your hiking experience.

	Very Negative						Very Positive	
15. Views of large clear cuts	1	2	3	4	5	6	7	
16. Views of ski trails and facilities	1	2	3	4	5	6	7	
17. Views of power lines	1	2	3	4	5	6	7	
18. Views of roads	1	2	3	4	5	6	7	
19. Views of industrial facilities such as a biomass generator, paper mill or landfill	1	2	3	4	5	6	7	
20. Views of developed areas.	1	2	3	4	5	6	7	

21. Now, I would like you think about renewable energy sources. Thinking about wind power development in general, please rate how appropriate it is for Maine on a scale of 1 to 7, where 1 means wind power is generally very INappropriate and 7 means it is generally very appropriate.

Very INappropriate					Very Appropriate		DO NOT READ Don't Know
1	2	3	4	5	6	7	9

Wind power offers Maine the opportunity to develop a cleaner, more sustainable source of energy. However, if wind farms are developed, they will become a visible part of the mountain scenery from some places along the Appalachian Trail and other trails in the western mountains of Maine.

I'd like to have you look at some pictures of views from some locations along the Appalachian Trail and other nearby mountains and get your impressions. I will show you several sets of pictures and ask you to rate the scenic view. This first set of pictures is a view from Saddleback Mountain. Here is the first view.

SHOW SIMULATION OF EXISTING VIEW SADDLEBACK – VIEW #1.

I'd like you to rate the scenic value of the view on a scale of 1 to 7 where 1 means the scenic value is VERY LOW and 7 means the scenic value is VERY HIGH. How do you rate the scenic value of this view? (RECORD BELOW 22)

Here is a second picture of the view from Saddleback Mountain.

SHOW SIMULATION OF REDINGTON GENERATORS- SADDLEBACK – VIEW #2.

How do you rate the scenic value of this one? (RECORD BELOW 23)

Scenic Value	Very Low						Very High
22. First View/Saddleback	1	2	3	4	5	6	7
23. Second View/Saddleback	1	2	3	4	5	6	7

Now I'd like you to look at some views from Mount Abraham, which is not on the Appalachian Trail. Again I'd like you to rate the scenic value of the views on a scale where 1 means the scenic value is very low and 7 means the scenic value is very high.

SHOW THE SIMULATION OF EXISTING CONDITIONS ABRAHAM – VIEW #3.

How do you rate this view? (RECORD BELOW 24)

Here is a second picture of the view.

SHOW SIMULATION AND MOUNT REDINGTON GENERATORS ABRAHAM – VIEW #4.

How do you rate the scenic value of this view on the same scale? (RECORD BELOW 25)

Scenic Value	Very Low						Very High
	24. First View/Abraham	1	2	3	4	5	6
25. Second View/ Abraham	1	2	3	4	5	6	7

Now I'd like you to look at some views from North Crocker Mountain. Again, I'd like you to rate the scenic value of the views on a scale where 1 is very low and 7 is very high.

SHOW SIMULATION OF EXISTING CONDITIONS CROCKER – VIEW #5.

How do you rate the scenic value of this view? (RECORD BELOW 26)

Here is a second picture of the view from North Crocker Mountain.

SHOW SIMULATION OF REDINGTON GENERATORS CROCKER – VIEW #6.

How do you rate the scenic value of this one? (RECORD BELOW 27)

Scenic Value	Very Low						Very High
	26. First View/Crocker	1	2	3	4	5	6
27. Second View/Crocker	1	2	3	4	5	6	7

Now, please look at another picture from North Crocker Mountain.

SHOW SIMULATION OF REDINGTON GENERATORS CROCKER BLACK BLADES–
VIEW #7.

How do you rate the scenic value of this view? (RECORD BELOW 28)

Scenic Value	Very Low Very High						
28. Third View/Crocker	1	2	3	4	5	6	7

Now I would like you to look at the view from North Crocker Mountain, but this time in different weather conditions.

SHOW SIMULATION OF EXISTING CONDITIONS CROCKER CLOUDY– VIEW #8.

How do you rate the scenic value of this view? (RECORD BELOW 29)

Here is a second picture of the view from North Crocker Mountain.

SHOW SIMULATION OF REDINGTON GENERATORS CROCKER CLOUDY– VIEW
#9.

How do you rate the scenic value of this one? (RECORD BELOW 30)

Scenic Value	Very Low Very High						
29. First View/Crocker cloudy	1	2	3	4	5	6	7
30. Second View/Crocker cloudy	1	2	3	4	5	6	7

Finally, I'd like you to look at some views from Sugarloaf Ski area.

SHOW SIMULATION OF EXISTING CONDITIONS SUGARLOAF – VIEW #10.

How do you rate this view? (RECORD BELOW 31)

Here is a second picture of the view from Sugarloaf Ski area

SHOW SIMULATION OF REDINGTON GENERATORS SUGARLOAF VIEW #11.

How do you rate the scenic value of this one? (RECORD BELOW 32)

Scenic Value	Very Low						Very High
31. First View/Sugarloaf	1	2	3	4	5	6	7
32. Second View/Sugarloaf	1	2	3	4	5	6	7

As you may be aware, a windfarm has been proposed for the Redington Range, between 4 and 7 miles west of Sugarloaf . The wind farm will consist of about 30 wind generators. The photos you just saw depict the views before the generators are installed, and what it will look like if the wind farm is developed .

33. Comparing these “before” views with their “after” counterpart(s), and thinking about the overall visual change that will result, please rate the visual impact of the Redington wind farm where 1 means it will have a very negative visual impact and 7 means a very positive visual impact.

Very Negative Impact						Very Positive Impact		DO NOT READ Don't Know
1	2	3	4	5	6	7	9	

34. Now, thinking about the quality of your hiking experience here on the Appalachian Trail, please rate the Redington wind farm on a scale of 1 to 7 where 1 means it will have a very negative impact and 7 means it will have a very positive impact on your hiking experience.

Very Negative Impact						Very Positive Impact		DO NOT READ Don't Know
1	2	3	4	5	6	7	9	

IF RESPONDENT SAYS IT WILL HAVE A SIGNIFICANT IMPACT (1-2 OR 6-7), POSITIVE OR NEGATIVE, ASK Q36 AND RECORD RESPONSE VERBATIM.

35. How will your hiking experience be impacted by the proposed wind farm?

IF RESPONDENTS SAYS IT WILL HAVE A NEGATIVE IMPACT (1-3) ASK

36. Assuming that the Redington wind farm were built, what would you say could be done to reduce the visual impact?

37. Now thinking specifically about the Redington Wind Farm proposal, how appropriate do you feel it is on a scale where 1 is very Inappropriate and 7 is very appropriate.

Very INappropriate					Very Appropriate		DO NOT READ Don't Know
1	2	3	4	5	6	7	9

Now I would like you to think about the possible impact, but factoring in some possible benefits to the Redington wind farm. I am going to read a list of factors, after each please rate how appropriate the Redington Wind Farm would be on this same seven point scale where 1 is very Inappropriate and 7 is very appropriate.

38. The Redington wind farm would generate enough power to supply 33,000 households. Knowing this, how appropriate is the Redington wind farm proposal?

Very INappropriate						Very Appropriate		DO NOT READ Don't Know
1	2	3	4	5	6	7	9	

39. The wind farm would help to reduce pollution since it would provide renewable energy. The Redington wind farm would reduce pollution by 600,000 pounds EVERY DAY since its energy would replace that generated by other sources. This is by the same amount as taking 19,000 cars off the road. Knowing this, how appropriate is the Mount Redington Range wind farm proposal?

Very INappropriate						Very Appropriate		DO NOT READ Don't Know
1	2	3	4	5	6	7	9	

40. The wind farm would help cut the amount of fossil fuels used to generate electricity. The wind farm could save the equivalent of 39,000 gallons of oil EACH DAY, or that carried by 15 heating oil delivery trucks. Knowing this, how appropriate is the Redington wind farm proposal?

Very INappropriate						Very Appropriate		DO NOT READ Don't Know
1	2	3	4	5	6	7	9	

Finally, can I ask you a few questions about yourself for statistical purposes?

41. How old are you? _____

42. Where do you live? _____

43. Are you a member of club that maintains the Appalachian Trail (such as the Maine Appalachian Trail Club)?

IF YES, SPECIFY WHICH ONE.

<input type="checkbox"/>	YES _____
<input type="checkbox"/>	NO

44. Are you a member of the Appalachian Trail Conference?

<input type="checkbox"/>	YES
<input type="checkbox"/>	NO

45. During the past couple of years have you ever hiked in the area around...

	Yes	No
The Horn and Saddleback?	<input type="checkbox"/>	<input type="checkbox"/>
Mount Abraham?	<input type="checkbox"/>	<input type="checkbox"/>
Crocker Mountain?	<input type="checkbox"/>	<input type="checkbox"/>

Thank you for your time. We appreciate your assistance.
END OF SURVEY. INTERVIEWER – RECORD OBSERVATIONS

Gender	<input type="checkbox"/>	Female	<input type="checkbox"/>	Male
---------------	--------------------------	---------------	--------------------------	-------------

Weather	<input type="checkbox"/>	Sunny	<input type="checkbox"/>	Partly Cloudy	<input type="checkbox"/>	Hazy, Foggy	<input type="checkbox"/>	Full Overcast	<input type="checkbox"/>	Rainy
----------------	--------------------------	--------------	--------------------------	----------------------	--------------------------	--------------------	--------------------------	----------------------	--------------------------	--------------

Visibility	<input type="checkbox"/>	Clear	<input type="checkbox"/>	Limited	<input type="checkbox"/>	Restricted	<input type="checkbox"/>	Very Restricted	<input type="checkbox"/>
-------------------	--------------------------	--------------	--------------------------	----------------	--------------------------	-------------------	--------------------------	------------------------	--------------------------

Location	<input type="checkbox"/>	Crocker	<input type="checkbox"/>	Saddleback	<input type="checkbox"/>	Sugarloaf
-----------------	--------------------------	----------------	--------------------------	-------------------	--------------------------	------------------

Date: October _____

Time: _____ AM / PM