



P12-01 Large-scale Wind Turbine Regulations Review

Public Feedback Report

Open House – February 29th, 2012

Open House – March 7th, 2012

Questionnaire Results

INTRODUCTION

In early 2012, Council committed to reviewing its regulations for large-scale wind turbines. As part of this process, the Municipality hosted two public Open Houses and advertised a questionnaire to hear from members of the public about their priorities, desires, and concerns in regard to large-scale wind turbines.

- These initiatives were advertised on the local radio; through a flyer sent to all households in the Municipality of Kings; on the Municipality's website; and in the Kings County Register, Kings County Advertiser, and Greenwood Aurora newspapers.
- A project webpage and mailing list were established to provide updates to interested parties.
- Open Houses were held February 29th and March 7th from 11am to 8pm in White Rock and South Berwick, respectively. These Open Houses included posters, handouts, and snacks. Approximately 250 people attended the White Rock Open House, and approximately 50 people attended the Open House in South Berwick.
- The questionnaire was made available online, and in paper form at the Open Houses and in the Municipal offices. The Municipality received 477 responses to the questionnaire.
- Written submissions were also welcomed.

Readers should note that the public engagement process was not conducted as a scientific poll. Therefore, the results of the process do not necessarily provide an accurate reflection of opinions in Kings County as a whole. However, the public engagement process has resulted in numerous thoughtful comments and highlighted a number of issues to investigate as this process continues. Readers of this document are highly encouraged to take the time to read through all of the comments that are captured here.

SUMMARY OF QUESTIONNAIRE RESULTS

The following section summarizes the results of the questionnaire by discussing common themes and the amount of variability observed. Of course, with 477 responses to the questionnaire, it is impossible to summarize all responses. Readers, therefore, are also highly encouraged to read the detailed results and public comments contained in Appendix A.

1. Area of Residence

Questionnaire respondents were asked to self-report the community they live in.

Questionnaire responses were received from all electoral districts, all three towns, and areas outside of the County. However, the large majority of respondents indicated that they live in the south-eastern portion of Kings County. When compared to the 2011 Census data it is clear that this distribution is not accurately representative of the County population. This, however, is not surprising because proposed large-scale wind turbine projects are located in this area.

2. Respondent Age

Questionnaire respondents were asked to self-report their age.

It is clear from the results of this question that the sample of Kings County residents who completed the survey is weighted to the older generations. When compared to the 2006 Statistics Canada data for Kings County, the data shows an over-representation in ages over 30, and an especially strong over-representation in ages 60+. This analysis confirms that questionnaire results should not be interpreted as a representative sample of the whole population of Kings County.

3. Advertising

The Municipality made significant efforts to advertise the public engagement aspect of this review. Respondents were asked to report how they heard about the questionnaire.

The flyer, radio ads, newspaper ads, and stories in the local newspapers all played an important role in advertising. However, word-of-mouth was the single largest contributor to awareness about the questionnaire. “Other” drivers of awareness included social media, copies of the flyers posted in local businesses, email, meetings, and posters distributed by local community groups.

4. Concerns

The questionnaire asked respondents to rate, on a scale of “no concern” to “extremely concerned”, their level of concern in regard to noise, appearance, safety, shadow flicker, and wildlife impacts. Respondents were also given an opportunity to fill in “other” concerns.

For all potential concerns the results were generally polarized, with responses rarely falling within the middle of the spectrum. The general sentiment about the potential impacts of noise and wildlife impacts can be described as “extremely concerned”. For safety and shadow flicker the sentiment was again “extremely concerned”, but this was somewhat balanced out by a higher number of responses in the “no concern” category. Appearance showed an almost even split between those with extreme concerns and those with no concerns.

In the “other” category frequently listed concerns were primarily health and property values. Sub-concerns within health included infrasound, sonic vibrations, EMF’s (electromagnetic fields), ice throw, and stray voltages. Other concerns that were mentioned include impacts on livestock, cost/economics of turbines, decommissioning, impacts on Waterville Airport operations, interference with satellite and radio signals, fire and lightning strikes, and impacts from the installation process. Some respondents indicated that they had no concerns, that turbines “look cool”, and that turbines are important to our future.

5. Potential Benefits

The questionnaire asked respondents to rate the importance of potential benefits from wind turbines on a scale of “not important” to “extremely important”. Respondents were also given an opportunity to fill in “other” benefits.

In contrast to potential concerns, responses to this question were much more evenly distributed. Respondents generally believed that the potential for reduced reliance on fossil fuels was extremely important. The economic benefit of turbines for land owners was generally seen as not important. Taxes from turbines, a diversified local economy, and a “green” image for Kings County generally elicited a more evenly distributed response, with a slight weighting to the “not important” end of the scale.

Responses to the “other” section generally focused on the opportunity for community investment and ownership through COMFIT, reduced greenhouse gas (GHG) emissions, local economic investment and construction jobs, creation of a stable energy future, and the provision of a forward-thinking and renewable future for later generations of residents. Other common responses to this section were non-belief in any benefits of wind turbines, encouragement to investigate other sources of renewable energy, and point-by-point criticisms or refutations of the potential benefits listed in the question.

6. Development Opportunities Versus Risk

This question asked respondents to consider and select a statement regarding the balance between the potential for wind turbine development versus an acceptable level of risk. Respondents who did not agree with any of the three statements were given an opportunity to write their own statement.

Of the 357 respondents who selected a statement almost two thirds of them believe that the Municipality should take a conservative approach to wind

turbines that “mitigates not only proven risks, but those risks which may be compelling, if not necessarily proven.” Taking a moderate approach to wind turbines was the next most popular option.

Common responses from respondents who wrote their own statement included those which said the Municipality should not allow turbines at all, that turbines should be placed far away from people, or specific suggestions for separation distances (anywhere from 1km to 10km). Other responses suggested a community-based approach, case-by-case evaluations of projects, regulations scaling with turbine size, that the Municipality should look to other jurisdictions for information, and that the Municipality should consider other technologies (solar, vertical-axis turbines). A number of respondents questioned the assumption, present in the question, that there are risks to building and operating turbines, or that higher levels of development opportunity bring higher levels of risk.

7. Appropriate Areas

This question asked which areas, from a cultural and landscape point-of-view, respondents believed were appropriate for turbines in Kings County.

The aggregate of responses showed that the Valley Floor was seen as a very inappropriate location for wind turbines. The Blomidon Peninsula was also, in general, seen by respondents as very inappropriate for turbines, although there was slightly more support shown than for the Valley Floor. Responses for both the North and South Mountains were more evenly split between the “inappropriate” and “appropriate” spectrums, but there was a slight weighting to the “inappropriate” side for both cases.

8. General Comments

Questionnaire respondents were given an opportunity to write any general comments they had. Over 300 comments were received, ranging from single sentences to 700 word essays. The topics addressed in the comments are plentiful and diverse. An attempt has been made here to summarize some of the general themes, but it must be recognized that a summary can in no way fully capture the variety of well-considered and passionate comments that were submitted. Readers are *highly* encouraged to take the time to read through all of the comments captured by the questionnaire.

The general themes that arose from the comments are as follows:

Concerns

Many respondents used the general comments section to reiterate or expand on concerns that were mentioned elsewhere in the questionnaire. As with previous sections, health, noise, infrasound, reduced property values, impacts to wildlife, and loss of rural character or beauty were all major concerns. Structural failure, impacts to livestock, cost, and decommissioning issues were also mentioned. One question that arose occasionally was why local residents should bear the

impacts while wind companies or power users elsewhere benefited from the power generated.

Conversely, a number of individuals suggested that many of the concerns that are commonly discussed are overblown or unfounded.

Support for Large-scale Wind Turbines

A large number of comments focused on the positive aspects and need for wind turbine development. Some respondents believed that renewable energy, including large-scale wind turbines, is the way of the future. Others emphasised that electricity has to come from somewhere and that the impacts of wind turbines should be considered in comparison with current, polluting energy sources, such as coal and oil. Other respondents believed that wind turbines are an excellent means to insulate Nova Scotians from rising fuel prices. A few respondents suggested that wind turbines are no worse than other intensive uses currently permitted in rural areas of Kings County.

A few respondents emphasised the progressive aspects of wind turbine development. Some saw turbines as an opportunity for investment in Kings County, local jobs, and work for local companies. Others believed that having turbines in the County would present a positive, forward-thinking image to visitors and potential residents.

Regulatory Approach

A number of comments discussed desires for different regulatory approaches. In some cases a complete ban on large-scale turbines was suggested, while other respondents expressed a desire to see greater community control over individual projects, or regulations that are project specific. Individuals also took the opportunity to recommend different separation distances, ranging from the status quo (700m) all the way up to 25km.

Wind Turbines Are Good, but Should be Away From People

A very common theme of the comments was that energy from wind turbines is important and should be pursued, but not at the expense of anyone's local environment. In other words, wind turbines should be placed in areas where no one will be impacted. A number of respondents suggested that turbines should be placed on large areas of Crown land, or even suggested specific locations in the province that would be suitable.

A few respondents noted that there are costs to locating turbines away from people. Many of these responses further suggested that if those costs are too high then maybe wind power is not worth it.

Review Process

Respondents commented frequently on the Municipal review process itself. Many of these comments were thankful for the review, or for the opportunity for public

input. Some of the comments were directly thankful for the questionnaire and open houses as opportunities to be candid and to have one-on-one discussions.

Other comments were negative about the review process. Some individuals suggested that the cost of hiring a consultant was unnecessary, or that the review itself was unnecessary in light of the work already done to establish large-scale wind turbine regulations in Kings County.

A few comments were critical of the questionnaire itself. Some believed that the questionnaire was too vague, while others raised concerns over the lack of control over who could fill out a questionnaire and the possibility for multiple entries.

Calls for Caution

Some respondents urged caution. These individuals felt that the full implications of wind turbine development might not be known at this point and/or that the County could afford to take a wait-and-see approach as turbines are developed elsewhere. There were multiple suggestions for the Municipality to fully investigate all implications. Respondents suggested examining other jurisdictions that have extensive experience with turbines and/or talking to individuals who live near turbines.

A few respondents suggested areas of research that the Municipality should investigate. These included impacts on livestock and honey bees.

Emphasis on Other Renewables

Another theme of the comments was a call for the Municipality to investigate and/or promote other forms of renewable energy. Many respondents believed that renewable energy is important, but that large-scale wind turbines are not the most effective means to generate renewable energy. Respondents suggested offshore wind turbines, vertical-axis wind turbines, small-scale wind turbines, tidal, biomass, solar, and energy conservation as more appropriate ways to “green” our energy use.

A few respondents felt that renewable energy altogether is inefficient and eliminates jobs in the province.

APPENDICES

Appendix A – Questionnaire Results **Appendix B – Public Submissions**

Appendix A

Questionnaire Results

Questionnaire Results

The questionnaire was advertised and made available online, at the Municipal Offices, and at the Open Houses. In total, the Municipality received **477 responses**. Some questions received more responses than others.

The questionnaire was designed to help the Municipality gauge community concerns, priorities, and desires in regard to large-scale wind turbines in Kings County. Any interpretation of the questionnaire results should be made in consideration of the following limitations:

- This questionnaire was not a poll or referendum
- This questionnaire was not conducted in a controlled, scientific manner
- No screening or security was in place to ensure that only one response was entered per person, or that age and place of residence were entered truthfully
- The sample of residents who filled out this questionnaire is not representative of the Kings County population as a whole. This is indicated by responses to the questions on age and place of residence

While readers should keep the above limitations in mind, it is also important to recognize the value of this questionnaire. The results of the questionnaire are filled with a diverse range of thoughtful comments, which may not have been forthcoming in settings such as a formal public meeting. The questionnaire also gives valuable insight into concerns and priorities that some residents of Kings County have, and that Council will need to investigate as part of this review.

The following pages contain a compilation of all questionnaire responses and comments. Nearly all comments were copied verbatim from the questionnaire. A few comments, however, were edited in order to protect the privacy of other individuals who were referenced by some respondents. Due to the design of the online questionnaire, some respondents entered general comments in fields meant for more specific responses. In these cases the responses have been moved to the “General Comments” section.

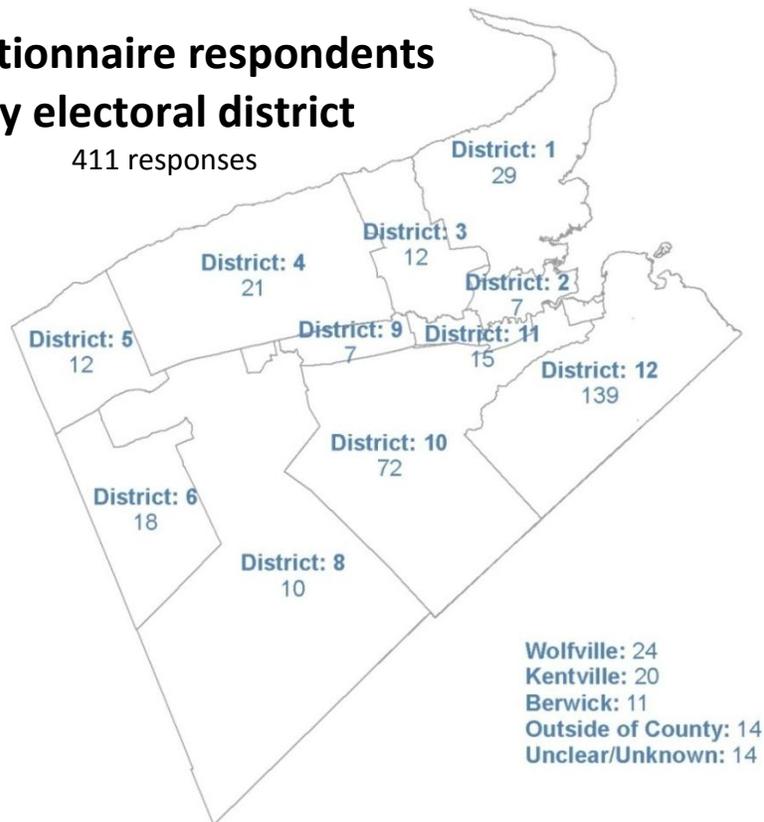
The views expressed in this report represent individual community members, and not the views of the Municipality.

1. Area of Residence

Where do you live (community name)?

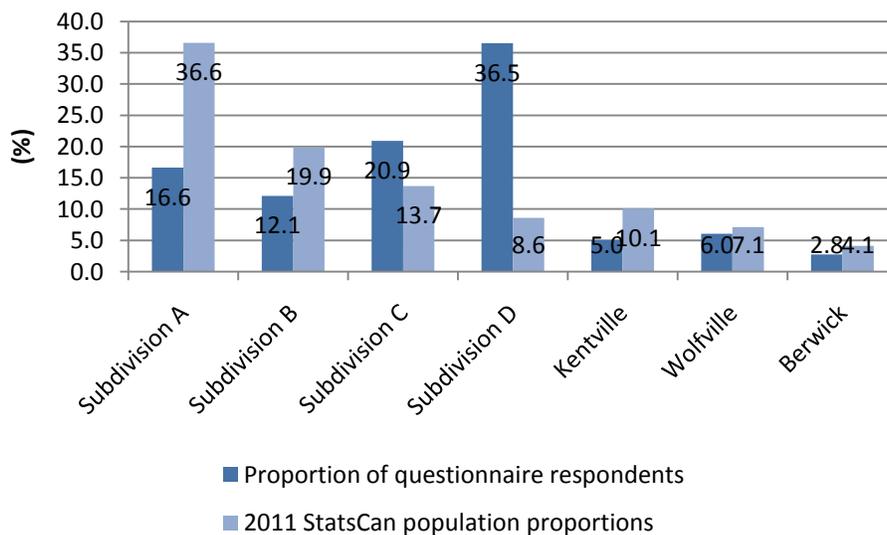
Questionnaire respondents by electoral district

411 responses



Questionnaire respondents by census subdivision

397 responses



Map of census subdivisions

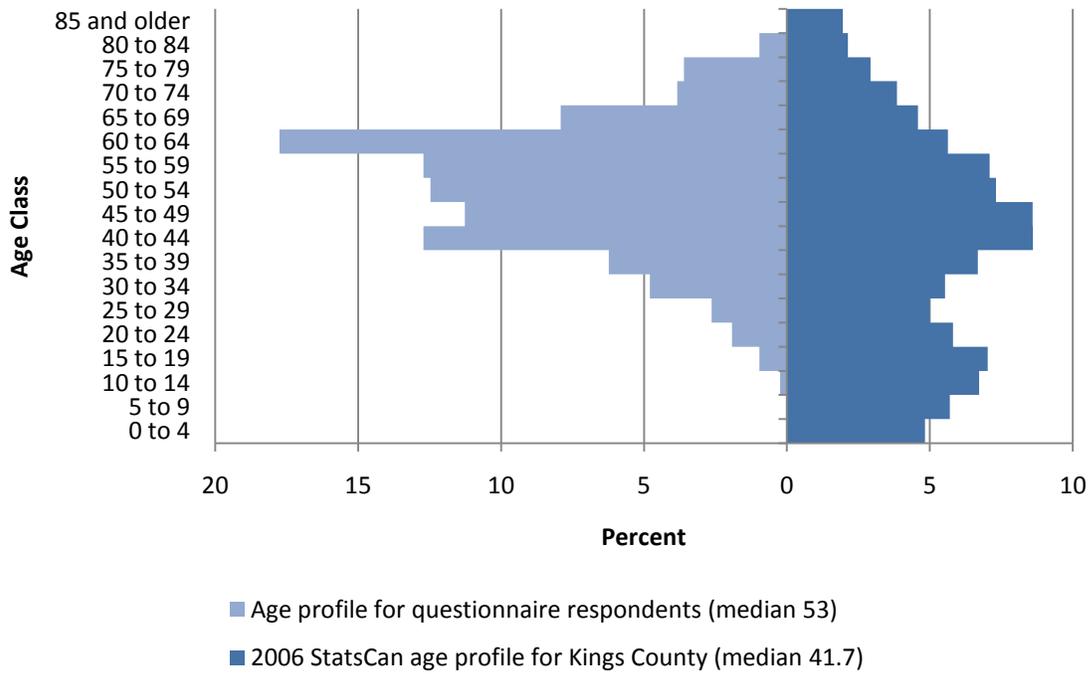


2. Respondent Age

What is your age?

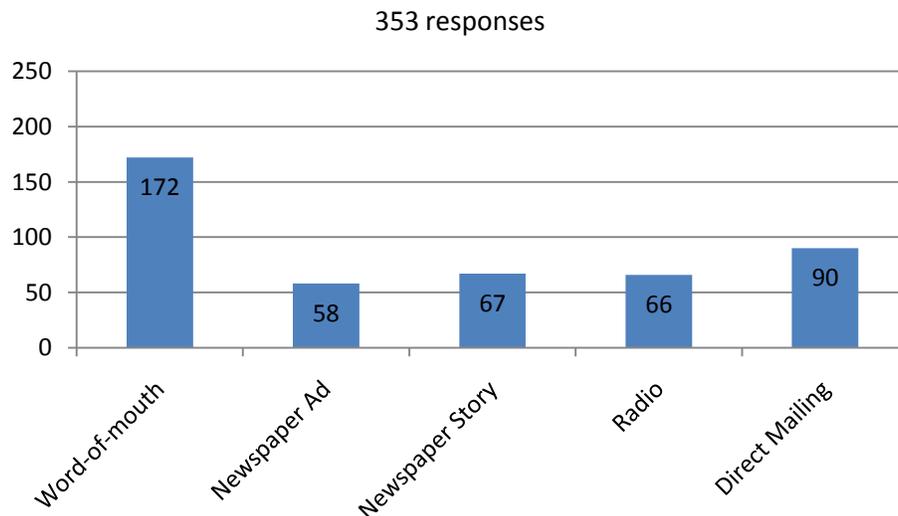
Age profile for questionnaire respondents compared to Kings County profile

417 responses



3. Advertising

How did you hear about this survey?



“Other”

67 responses

- community meeting
- County office
- County office
- Visit at Courthouse Kentville
- Showing of film "Windfall" at Geaspereau School
- A handout at film "Windfall" showing, held at Gaspereau School gym. Feb 18/2012
- Information session, White Rock Hall
- Information session at White Rock Hall
- Mader's Tobacco
- pick up at a store
- Community meetings
- neighbours
- meeting at community hall
- Presented at White Rock open house
- email from [the Municipality]
- meeting
- email
- Local community
- Community meetings and concerns
- council meeting
- poster
- my parents
- Council meeting

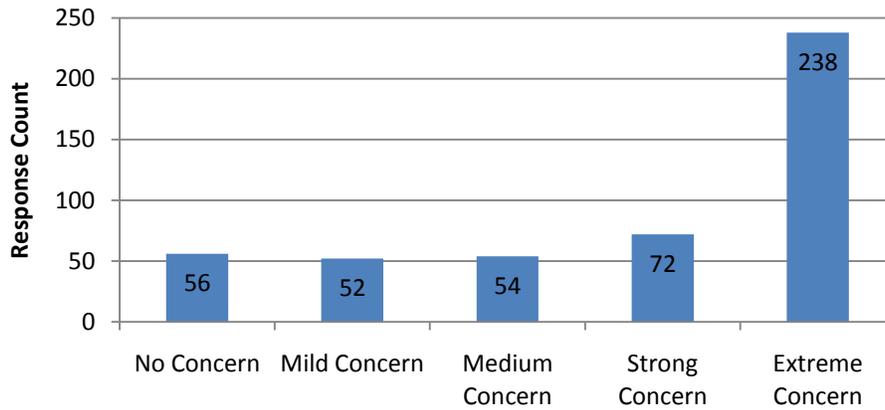
- neighbour
- council and community meetings
- Council Meeting
- Industrial Wind Turbines May Soon Be Your Neighbour' brochure
- Neighbours
- facebook
- Meeting at the White Rock Hall, own property near where the test turbine has been installed and never received notification that it was going to happen.
- Open house
- avr website
- White Rock open houose
- Community meeting
- Nothing specified
- Meeting
- Facebook
- hello - the next page won't come up.
- AVR website
- email from a friend
- facebook
- community meeting
- K Rock online news
- Meeting
- Community meeting
- This affects my parents on South Mountain
- Concerned citizens flyer
- email, social media,
- Community email
- Poster in Post Office
- Twitter
- Meetings
- facebook
- Community member
- email
- [community member name removed]
- Saw it in the lobby of your building
- Twitter
- Patricia Bishop Facebook
- avr news story on their website
- Facebook
- Facebook
- Facebook share by friend
- facebook link
- Facebook
- currently attending meetings windturbines in the Peck Meadow area. Information steadily available.
- group against wind turbines in cannan

4. CONCERNS

Please identify which potential impacts of large-scale wind turbines are of concern to you:

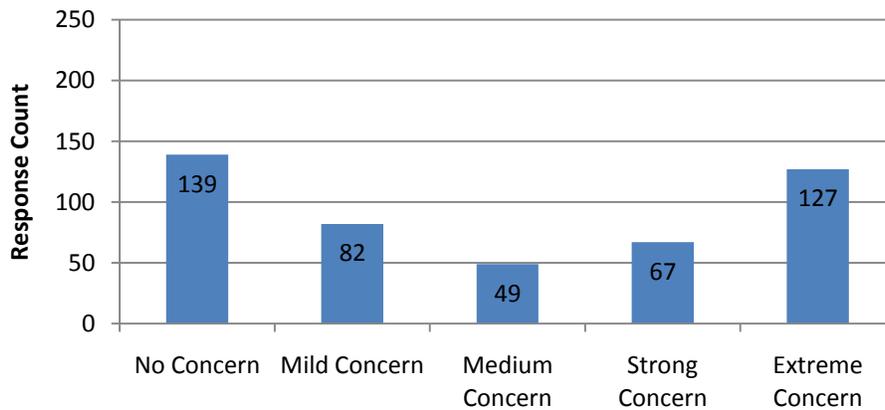
Noise

472 responses



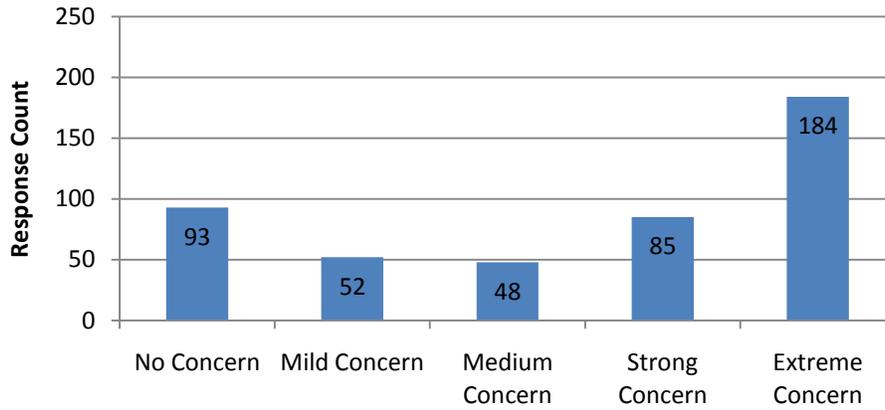
Appearance

464 responses



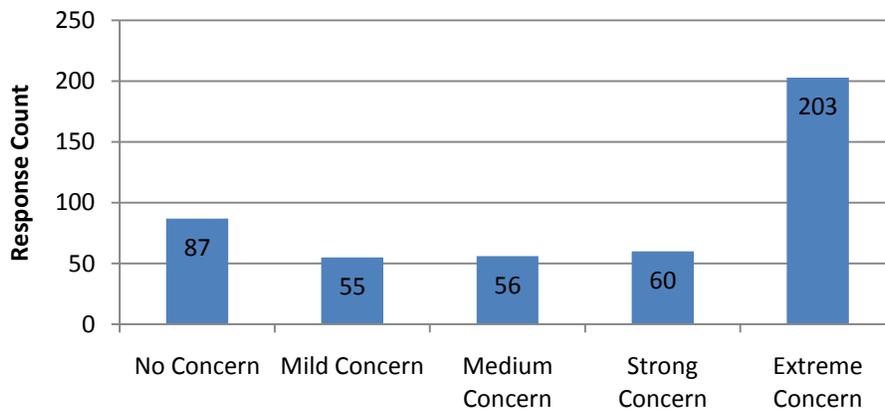
Safety

462 responses



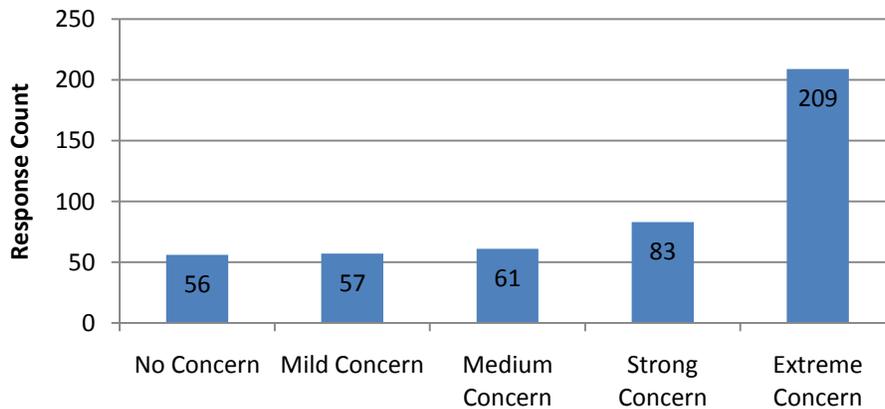
Shadow Flicker

461 responses



Wildlife Impacts

466 responses



“Other”

191 responses

• No Concern	want you to really examin all possible neg. impacts from long time users of this method - here and abroad! re safety for us - set backs from humans important
• No Concern	Human health concerns
• No Concern	I think much of the so called "impacts" of wind turbines are fabricated or imagined by "NIMBYs" and the uninformed public based on hyperbole and mis-information.
• No Concern	My son and I visited the North Cape, PEI wind farm last fall and were amazed at the low level of noise. Health and wildlife concerns have no basis in fact. Please have your people take time to read the scientific literature on this, not the Facebook and Twitter scare-mongering.
• No Concern	Property values
• Medium Concern	ice
• Medium Concern	Farm livestock
• Medium Concern	Distance from residential property of 700 meters is too close, it should be expanded to a minimum of 1500.
• Medium Concern	effect on property values
• Medium Concern	Effective placement for wind power.
• Medium Concern	Land used on
• Strong Concern	Interference with ASR tower (Stronach MTN Road). Pls see attached map [attached map shows Greenwood buffer]
• Strong Concern	Vibration. Location.
• Strong Concern	health
• Strong Concern	[illegible]
• Strong Concern	property value
• Strong Concern	Interference
• Strong Concern	Roads & transmission lines getting rid of old towers
• Strong Concern	infra-sound, vibration, tingle voltage, electromagnetic interference
• Strong Concern	environmental impact on water brooks rivers etc
• Strong Concern	Air vibrations /harmonics
• Strong Concern	market value change of property
• Strong Concern	property value
• Strong Concern	location relative to residential areas
• Strong Concern	Perceptions of fairness and equity
• Strong Concern	horizontal axis turbines are inefficient and soon to be obsolete.has county considered vertical axis turbines?
• Strong Concern	Employing local labor force
• Strong Concern	land values
• Strong Concern	who gets to use the generated power?
• Strong Concern	vibrations/low frequency
• Strong Concern	ice throw off

• Strong Concern	increased set back from forested areas in case of fire from lightning strick to turbine
• Strong Concern	infrastructure - running wires, heavy trucks and machinery
• Strong Concern	Economics and global viability of wind power, given the non-renewable resources it uses (e.g. copper) compared to larger projects with higher output per generator (e.g. hydro, nuclear).
• Strong Concern	Overall health - no idea what flicker is.
• Strong Concern	Turbines should be installed at least 1km from residential buildings.
• Strong Concern	Livability around them and efficiency of design
• Strong Concern	infrsound
• Extreme Concern	decreased property value
• Extreme Concern	Property value
• Extreme Concern	Property value
• Extreme Concern	Property value
• Extreme Concern	Infrasound
• Extreme Concern	Health effects. Destroy beauty of the valley.
• Extreme Concern	Property devalued and health concerns
• Extreme Concern	EMF's/Costs
• Extreme Concern	property values, infrasound, end of life, bankruptsy
• Extreme Concern	property devaluation
• Extreme Concern	quality of life,use and enjoyment of own propret, decreased property values
• Extreme Concern	vibrations/health concerns
• Extreme Concern	700m minimum distance between turbines and dwellings
• Extreme Concern	set backs from residence
• Extreme Concern	property values decreasing health concerns
• Extreme Concern	electrical charge [illegible] effect low frequency vibration
• Extreme Concern	size
• Extreme Concern	net effect os more CO2 worldwide
• Extreme Concern	health reasons
• Extreme Concern	human health
• Extreme Concern	health concerns
• Extreme Concern	health
• Extreme Concern	health
• Extreme Concern	property value
• Extreme Concern	Heath associated problems - heart, hearing, others
• Extreme Concern	Health Concerns - Other countries say minimum 2 KM set back.
• Extreme Concern	Health and Property Values
• Extreme Concern	Health impact, Satellite signal concern, Decommissioning of turbines - no money guaranteed by company, set back distance - too low
• Extreme Concern	cost
• Extreme Concern	health
• Extreme Concern	I think they look really cool. Protecting the future.
• Extreme Concern	Health Impacts

• Extreme Concern	what affect do they have on cattle , farm animals and pets that are know to have far more sensitive hearing than people ?
• Extreme Concern	health!
• Extreme Concern	property value
• Extreme Concern	devaluation of property
• Extreme Concern	Airport operations Waterville
• Extreme Concern	many
• Extreme Concern	Property value depreciation
• Extreme Concern	Habitant destruction building roads and transmission lines
• Extreme Concern	Reduced Property values for surrounding properties
• Extreme Concern	health
• Extreme Concern	Decrease land value value of surrounding area
• Extreme Concern	Human health
• Extreme Concern	Health impacts upon people and animals
• Extreme Concern	Personal health concerns
• Extreme Concern	Health issues - I have found that when I am near wind turbines I feel the vibrations and experience nausea and headaches.
• Extreme Concern	song birds and their migration routes, little brown bats
• Extreme Concern	Health
• Extreme Concern	property values
• Extreme Concern	health impact
• Extreme Concern	Resale value of land & homes, Tax payer on the hook for maintenance, etc., and the cost of power will not be lower!!!!
• Extreme Concern	repell tourism from these areas
• Extreme Concern	health
• Extreme Concern	health
• Extreme Concern	health
• Extreme Concern	decreased property values
• Extreme Concern	Property values
• Extreme Concern	construction
• Extreme Concern	House value
• Extreme Concern	property values
• Extreme Concern	Lower market value on homes & difficult sales
• Extreme Concern	Reduced home value and hard to sell home
• Extreme Concern	Distance from dwelling
• Extreme Concern	total cost, destruction of property, cost of install, high maintainence costs, cost of waste removal as shelf life for these monsters are only a couple years and they have to be replaced.
• Extreme Concern	land & house values, real value of 'green energy', wind & solar are proving of little value in Europe where they have been for long time, keeping folks from moving to area
• Extreme Concern	economic impact - property values, future opportunities
• Extreme Concern	health implications for people/also property values
• Extreme Concern	Cost of the electricity being generated

• Extreme Concern	Property Value
• Extreme Concern	Environmental and local road destruction of setup.
• Extreme Concern	Ice throw, lightning strikes, low frequency noise
• Extreme Concern	I haven't heard one positive thing about wind turbines...
• Extreme Concern	pollution from leakage/GHGs due to construction, maintenance, and hydraulic fuels used (potential for leakage)
• Extreme Concern	distance to dwellings, schools, etc. more than 2100meters
• Extreme Concern	Depreciation of property value!
• Extreme Concern	Concerns: Poor efficiency of units does not warrant cost. Expectancy of use is 19 years...then land owners responsibility to return landscape to original state...costly..would this ever be carried out? Their presence decreases property values for whole communities...isn't this then reflected in assessments and reduces to taxes collected by the county? The Valley is a tourist destination because of its peaceful rural settings and unspoiled beauty...these turbines are hideous and would ruin this tourist draw. Human health is an issue as is danger to wildlife who already are experiencing habitat loss. Locations should only be chosen in areas where these changes would not be an issue at all.
• Extreme Concern	Property value when discovered they are detrimental within a community
• Extreme Concern	property values, right to quiet enjoyment of property
• Extreme Concern	Impact on Tourism and newly emerging wine industry
• Extreme Concern	devaluation of properties & area
• Extreme Concern	sonic vibration
• Extreme Concern	long term health issues and depreciation of our homes
• Extreme Concern	Human and other animal health concerns; Devaluation of property and homes;
• Extreme Concern	Health issues for humans
• Extreme Concern	impact on property value (assessment and resale value)
• Extreme Concern	Why do we have to give up our coveted rural way of life for the capitalist ? We already make more electricity in N. S. by wind power than we use so it is undersold to the USA and we the tax payers are losing, allround. After 20 years of use many large scale wind turbines are discarded and the province will have to clean up white elephant....what ever way one looks at it we become the losers!
• Extreme Concern	That we will not have enough of them
• Extreme Concern	photovoltaics hasn't been considered first
• Extreme Concern	Setback minimum limits
• Extreme Concern	infrasound sound
• Extreme Concern	infrasound sound
• Extreme Concern	Health, Property Values
• Extreme Concern	Impact to Kings County economy
• Extreme Concern	health impact of residents in area
• Extreme Concern	inner ear vibration. Family member has current sensitivities
• Extreme Concern	human & animal health, environmental degradation
• Extreme Concern	Property value
• Extreme Concern	extremely concerned about the negative health effects associated with

	infrasound
• Extreme Concern	Health/Sickness
• Extreme Concern	health concerns
• Extreme Concern	property values
• Extreme Concern	am concerned not just with audible noise but with potential infrasound effects. Am also concerned with who bears the cost of de-commissioning when these not very viable companies go bankrupt and leave their machinery behind.
• Extreme Concern	negative impacts on health
• Extreme Concern	Large scale wind turbines should never be built near people. The noise, stray voltage and required infrastructure all require them to be in remote areas in order to be safe. Experts say no less than 10 kms from homes. The sound measuring done by developers are done with microphones but it is imperative for measurements to be done using seismograph types of equipment to measure the 20 hz and lower subsonic frequencies that also do harm to people living up to a few kms away. These things have been proven with peer reviews from scientists all over the world and are not going to be talked about or offered by the developers that want to sell them. Let's face it, the quality of life of our fellow citizens here in Kings County has no meaning to an outside Wind Developer. You know it and I know it.
• Extreme Concern	Property Value
• Extreme Concern	Value of my property.
• Extreme Concern	Property values and health issues
• Extreme Concern	broken blades flying through the air and hitting someone
• Extreme Concern	Overall health, Industrial intrusion on rural life, Property values
• Extreme Concern	Property values
• Extreme Concern	decrease in property value
• Extreme Concern	impacts on humans and animals from low frequency sound
• Extreme Concern	Negative health effects, decrease in property values, increased power rates to pay for the turbines, decommissioning turbines that have reached their useful life, damage to roads during construction phase, temporary jobs, frightening domestic animals and interruption of breeding of farm animals and milk production in cattle, destruction of scenic views of the Annapolis Valley and North and South Mountain
• Extreme Concern	Health
• Extreme Concern	Infrasound (high-power, low-frequency vibrations)
• Extreme Concern	Health Issues and Property Value are an Extreme Concern
• Extreme Concern	Medical
• Extreme Concern	infrasound, subsonic energy; ice throw; fire
• Extreme Concern	health issue
• Extreme Concern	Property Value Decrease
• Extreme Concern	Effects on health and property value
• Extreme Concern	Probably part of wildlife impact - but what is impact on our eagles
• [Not indicated]	Environmental impact on the land they sit on?
• [Not indicated]	Electromagnetic
• [Not indicated]	What will the impact on use of NS Power be
• [Not indicated]	Vibration

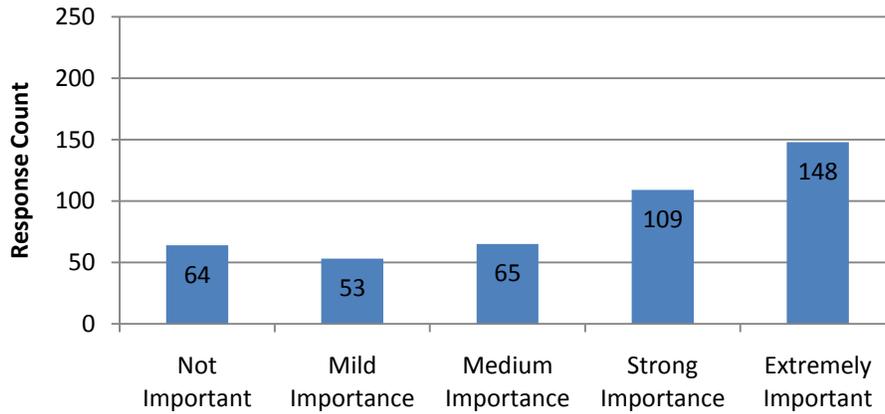
• [Not indicated]	health impact of residents in area
• [Not indicated]	property devaluation
• [Not indicated]	We find them "creepy"
• [Not indicated]	property values
• [Not indicated]	Depreciation of property
• [Not indicated]	devaluation of neighboring properties
• [Not indicated]	Not really as efficient as those who want to sell it say it is.
• [Not indicated]	Where the electricity goes and who profits?
• [Not indicated]	Adverse Health Effects
• [Not indicated]	the fact that wind power cannot supply a base load and is intermittent in nature always requiring a backup system
• [Not indicated]	Upfront costs are high.
• [Not indicated]	The effects on health of humans and animals
• [Not indicated]	The negative impact that windmills WILL have on property values in the region they are placed.
• [Not indicated]	Negative impact on property values of nearby properties
• [Not indicated]	meaningful and ongoing consultation should be a prerequisite
• [Not indicated]	clean-up costs once inactive. No tax dollars, thank you
• [Not indicated]	affect on property value
• [Not indicated]	Health issues
• [Not indicated]	Flight Safety masking navigational aids.
• [Not indicated]	Health and well being of my family and self.
• [Not indicated]	Noise - unable to answer, not enough info. Appearance - 400ft. is too big for my backyard view. Safety - who is liable? Shadow flicker - more info required. Wildlife impacts - Dep't of Env. or wildlife experts need to address this, not me, too serious.
• [Not indicated]	Infrasound, HEALTH - animal & human
• [Not indicated]	I am concerned that NSP will take over turbines and control the market on them and that small scale turbine owners will get pushed out. No commercial turbines!
• [Not indicated]	if you need to move due to health reasons who is going to reimburse you for a home you cannot sell?? e
• [Not indicated]	being allowed to put these so close to dwellings !!!
• [Not indicated]	devalue of property

5. Potential Benefits

Please identify the potential benefits of wind turbines that are important to you:

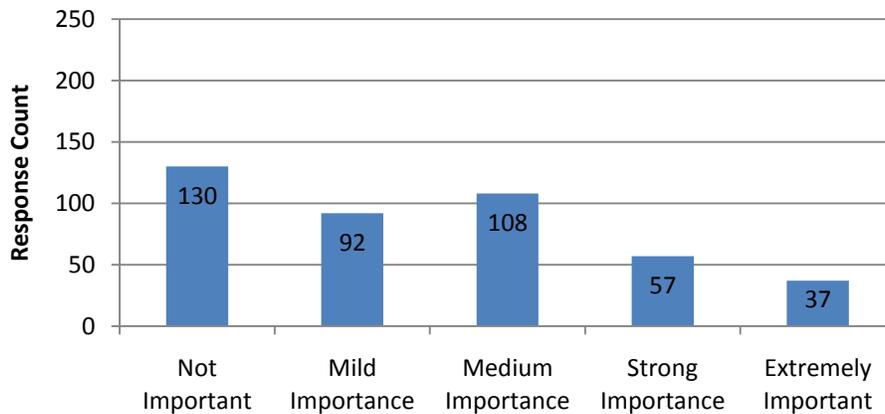
Reduced reliance on fossil fuels

439 responses



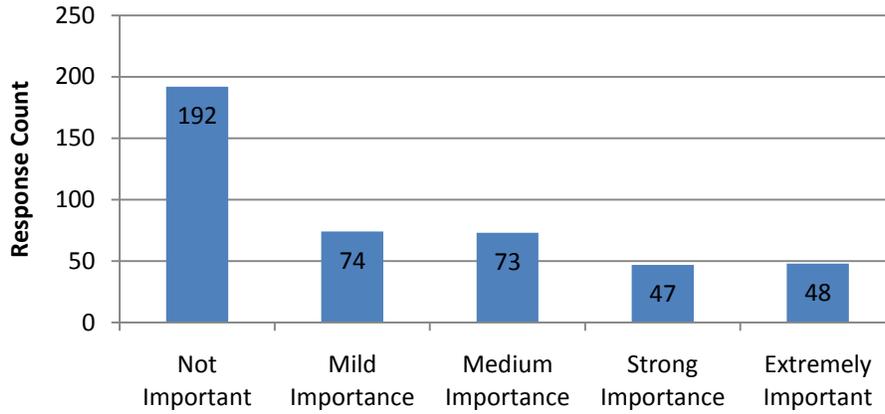
Taxes from turbines

424 responses



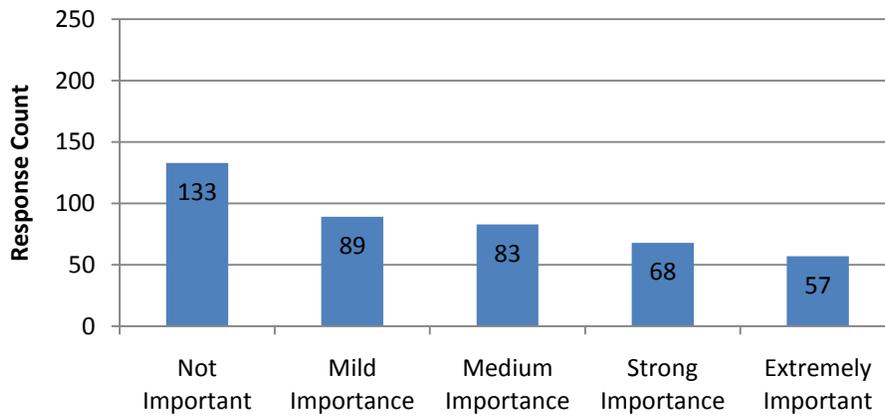
Economic benefit to land owners

434 responses



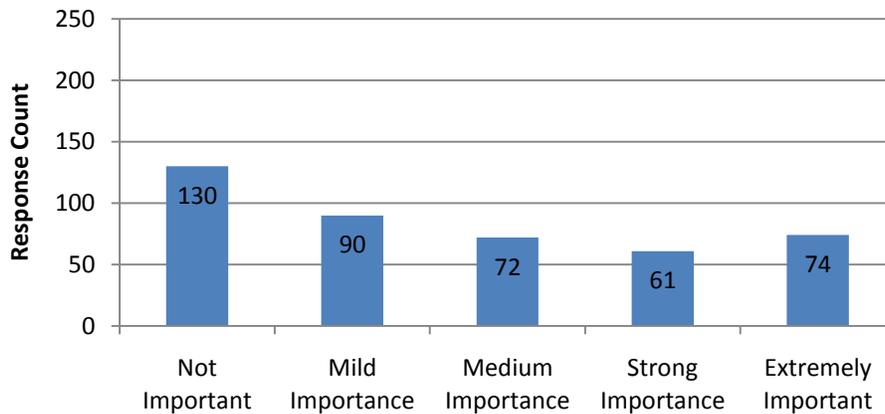
Diversified local economy

430 responses



"Green" image for Kings County

427 responses



“Other”

104 responses

• Not Important	because the coal fires are not shut down ever.
• Not Important	How green is a turbine after it has outlived its usefulness
• Not Important	I believe there is NO benefit from wind turbines - NONE!
• Not Important	I would be more interested in investments and benefits via solar research for energy. Wind has yet still to prove itself as being a wise and viable alternative.
• Not Important	Let's not fool ourselves,there has never been a shut down of a coal fired power plant do to Wind Turbines anywhere on the planet even in countries littered with turbines.
• Not Important	LSWT's don't reduce the use of fossil fuel because of the intermittent nature of wind. Taxes from turbines would be insignificant compared to the loss of peaceful habitat for residents; the decrease in property values, the cost to the health care system, the decommissioning costs of turbines that the county will be responsible for. LSWT's do not diversify a local economy; they serve only to highlight poor regulations that would allow an industrial facility in an area as small as the Annapolis Valley or South or North Mountain. It would be shameful. Green image...\$\$\$\$.... Only for the developers.
• Not Important	None of this is important because NO real facts are coming forth. The government will profit, NS Power will profit, private land owners will profit. A pattern that one can determine is no thought is being placed on potential harmful factors caused as a result of a lot of selfish people
• Not Important	Potential local jobs
• Not Important	put them up where it will not affect people
• Not Important	there are absolutely no fact based benefits to wind turbine. The perceived benefits are entirely propaganda. Individual land owners may benefit from the cash, but that is where it ends.
• Not Important	there have been no proven benefits except to the developers
• Not Important	These benefits only exist as propaganda proposed by big business
• Not Important	We see no potential benefits
• Not Important	Wind is intermittent - therefore does not reduce reliance on fossil fuels, the taxes don't offset the additional costs via power rates and destruction of property values; the landowners leasing land get money - and they also suffer a total loss of their land because it's rendered unusable; diversified local economy>> that doesn't make sense; "green" image for Kings County... No, the only green is \$\$ for those that lease their land and the developers; with technology the way it is, there are no benefits of having LSWT's in Kings County and we definitely do not have the land mass in the valley and north and south mountain to ensure safe separation distances between residences and these industrial facilities. They must be built in remotes areas, and nowhere near people.
• Medium Importance	Rural reliability investment opportunities
• Strong Importance	actual economic benefit to long term
• Strong Importance	chance for citizens to invest in Green investments
• Strong Importance	local workforce for operation , maintenance
• Strong Importance	Lower greenhouse gas emissions from energy production
• Strong Importance	Not a viable way to get green.

• Strong Importance	possible reduction in energy costs for homeowners
• Strong Importance	Property value depreciation
• Strong Importance	reduction of GHGs and improved health benefits over the long term
• Extremely Important	Affordable/stable energy for the future.
• Extremely Important	After researching the information gathered from the already existing wind turbine programs in the world, there is scant evidence, if any at all, of potential benefits of industrial wind turbine technology.
• Extremely Important	Any money spent in Kings County is a great thing
• Extremely Important	Appropriately scaled and sited projects which consider the realities of the community's energy needs and also respect the health and property of all citizens and don't endanger the image of our community as a vibrant rural community with great potential for tourism and for retirement living.
• Extremely Important	Are there benefits when it affects your health. Money is not the object. How is there an economic benefit to landowners - just the people who leased the land.
• Extremely Important	as fossil fuels will still be required there is little value
• Extremely Important	Community ownership is also possible through NS's COMFIT program.
• Extremely Important	creating a renewable energy future for our children
• Extremely Important	Economic spin off normally go to Big Business and rarely the little guy.
• Extremely Important	Encouraging development, progressive
• Extremely Important	forward thinking
• Extremely Important	health
• Extremely Important	I agree with green energy from wind turbines but "location, location, location" is of utmost importance. Not where they place adverse effects on communities and residents.
• Extremely Important	I understand that oil fired generators are constantly in operation, in case of wind failure. This is not a benefit, neither is it green!
• Extremely Important	Industrial turbines are not the answer/less use of electricity would be the better focus; small scale turbines are the better choice. There is a dairy farm outside of Truro that uses them and is now off the grid.
• Extremely Important	industrialised appearance of turbines will negatively affect tourism.
• Extremely Important	Kings residents reap benefits FIRST!
• Extremely Important	Large scale in appropriate location, far from housing to prevent health concerns. If you don't have a healthy community none of the above are of concern and are merely issues which can't change a person's health once these are installed
• Extremely Important	no benefits that I can see
• Extremely Important	No Economic Benefit to land will reduce property values
• Extremely	not against wind turbines but think we should have the choice about having

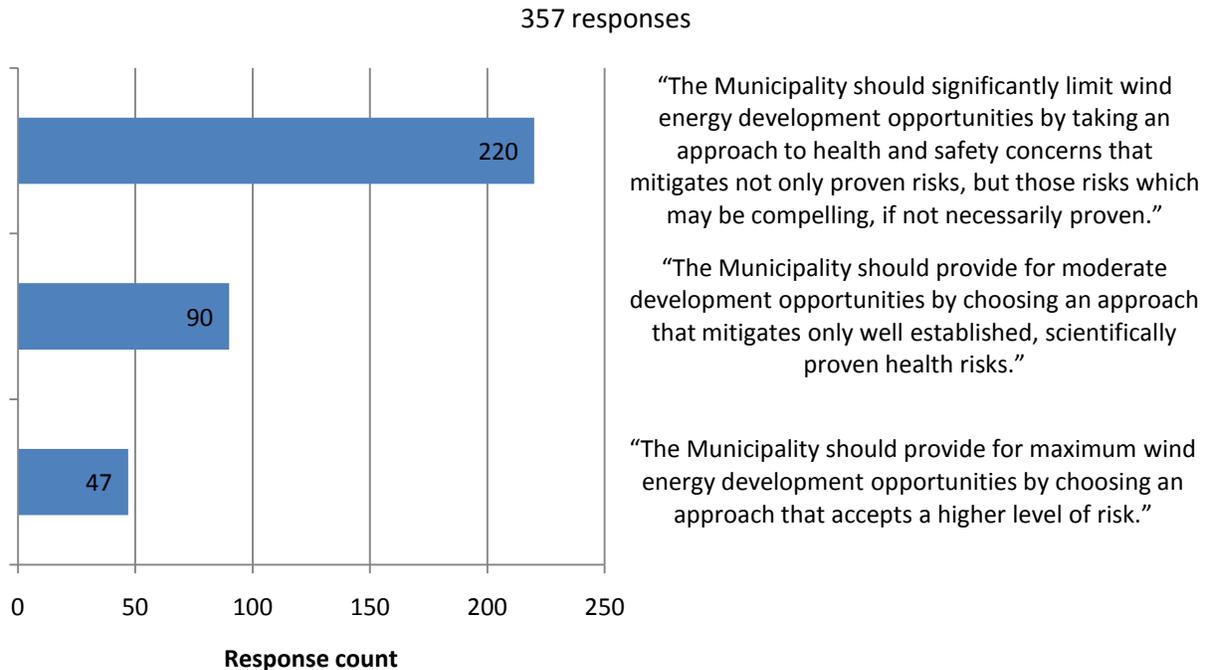
Important	them so close to our homes. If someone should choose to built near them after they are there, then that would be their choice and I think we should have the same option
• Extremely Important	not enough encouragement for small turbines
• Extremely Important	peoples health
• Extremely Important	photovoltaics should have been considered first
• Extremely Important	power price stability and community benefits (jobs, funding...)
• Extremely Important	Private property rights, people should be able to do as they like with their own land; within reason of course.
• Extremely Important	reduced pollution
• Extremely Important	role model for others
• Extremely Important	setting a standard for future generations to follow
• Extremely Important	The beauty of wind farms in general
• Extremely Important	These items above are very misleading. Wind turbines should be located where there are NO dwellings!
• Extremely Important	Tidal power turbines
• Extremely Important	We should not be taxed for wind given free from God
• Extremely Important	Wind & solar have been proved not to be 'green', neighbours will soon be fighting neighbours, you will still need use of fossil fuel for power, industrial turbines are industrial turbines: with major problems (see website of Wind Concerns Ontario) or any UK site opposing wind and you will see why
• Extremely Important	You must have enough land to accommodate a turbine.
• [Not indicated]	[Put "?" for taxes, benefit to landowner, and local economy]
• [Not indicated]	anything taller than 100 ft should be 2000m from base of dwelling
• [Not indicated]	Because in our area we do not need them, not significantly relaint on fossil fuels
• [Not indicated]	Before any of these points are considered each site should undergo a full community participation and an environmental review!
• [Not indicated]	being green is important "image" ? is not
• [Not indicated]	Can devalue properties in proximity.
• [Not indicated]	Do not undestand how & to what extend taxes would be a benefit
• [Not indicated]	Economic benefits do not outweigh the ecological harm
• [Not indicated]	Economic benefits would never outweigh the ecological damage
• [Not indicated]	Energy independence for Kings County (e.g. if NSP goes downhill)
• [Not indicated]	For reduced reliance on Fossil fuels- not convinced that this is the case. Green image for Kings Co. - not convinced they are as green as made out to be.
• [Not indicated]	How does the economy get diversified by the se turbones?/
• [Not indicated]	I am not against wind energy just not in residential areas

• [Not indicated]	I am not convinced that wind turbines provide any benefits!
• [Not indicated]	I question whether it will have much affect
• [Not indicated]	I really think the list of negatives associated with these wind turbines being sited near homes will far outweigh any potential benefits
• [Not indicated]	I will see any benefit for me or my community.
• [Not indicated]	I'd be happy to have a windmill or two on my land, on top of the North Mountain, even without getting paid (although I wouldn't turn down a bit of cash, natch.)
• [Not indicated]	If proven to be green
• [Not indicated]	Increased medical costs offset taxes collected
• [Not indicated]	It's just another pollution for the people that live near them. They should only be put in places where people live kms away...not meters away. I don't live near these sites and I wouldn't want to....either would you. I live near the damn and the vibrations keep me up several nights a month. It's noise pollution and it has the same impact as fuels, etc. What about the birds, bees, wildlife?
• [Not indicated]	killing birds is not green
• [Not indicated]	Must be better ways to go green (solar)
• [Not indicated]	Need more info to be able to respond to taxes...are you refering to lost taxes? Details on how local economy would be diversified , expanded or improved...is there an infa structure already in place to accomplish this or is that more tax payer costly/
• [Not indicated]	No benefits
• [Not indicated]	none of these are important if there is a health risk to people & animals and if it affects property values, views and opposition by those living in the area
• [Not indicated]	none of these benefits outweighs concerns expressed in the previous question.
• [Not indicated]	None of this actually happens do your [illegible]
• [Not indicated]	not convinced there are benefits in industrial scale wind development
• [Not indicated]	not just for looks please!
• [Not indicated]	not sure if any of above are benefits .. off shore with careful planning makes better long term sense
• [Not indicated]	Not sure if there is any potential benefits
• [Not indicated]	NSP will buy back unused energy generated from turbines so the owner benefits by getting a reduced power bill.
• [Not indicated]	other options are available
• [Not indicated]	Reduced reliance - from my understanding there needs to be fossil fuel back-up in place. Taxes - no info on this. Benefit to land owner - will fracture communities, pitting neighbor against neighbor. Local economy - how does the community at large benefit from a turbine site?? "Green" image - we're already very green in Kings Co., this has but a slight chance to enhance.
• [Not indicated]	save fossill fuel for future generations
• [Not indicated]	The environment is my primary concern, although windmills are not the most effecient option. The potential power generation from tidal power in the Bay of Fundy far exceeds that of wind power.
• [Not indicated]	The environment is my primary concern, although windmills are not the most effecient option. The potential power generation from tidal power in the Bay of Fundy far exceeds that of wind power.
• [Not indicated]	The health of residents should be the FIRST and MAJOR concern

- [Not indicated] The impacts far outway the benefits
- [Not indicated] The risks far exceed the benefits.
- [Not indicated] There are no benefits of these turbines ... I have been researching it!
- [Not indicated] There is no reliance on fossil fuels as the power generated could be going somewhere else, not to mention the fact that the power we will be getting is probably coming from somewhere else. The taxes from turbines will not benefit the homeowner, only the county and the tax they get will not make up for the taxes lost by the value of properties. Diversified local economy, ha! ha! Everything could and will probably be contracted out and come from who know where. This does not give a "Green" image for Kings County. GO SOLAR! All big stores should be designed or made to have solar panels installed on roofs, places like Walmart, Zellers Mall, Canadian Tire etc. could do that and any new construction--New Minas recreation department being built now.!!
- [Not indicated] unsure of what is meant by "Taxes from turbines"
- [Not indicated] when you put up these diseasters there is always a loss in quality of life
- [Not indicated] wind power turbine mostly benefit outside investors rather than supporting local communities

6. Development Opportunities Versus Risks

With all new uses of land there is some level of impact. In establishing any land use policy Council must balance an acceptable level of impact with the expected benefit of the new land use. **Please choose a statement that you feel most represents your views:**



"Other"

96 responses

- Should not be anywhere near people!
- Should not be within 2 miles of nearest dwelling.
- Should be 2 miles away from nearest house
- I'm not against wind power but these big towers should NOT be anywhere near HOME.
- Note: all proponents of wind turbine developments should notify CFB Trenton on the location of the proposed turbine so Staff at 8Wg can assess whether the turbine will impact flight safety.
- ...provide for moderate alternative energy development opportunities ... that mitigates not only proven risks, but those risks which may be compelling.
- Make Kings County free of turbines. Benefits are for developers making money. Medical costs will soon if we allow turbines here.
- The Municipality should only provide limited access to industrial wind development after it has been scientifically proven that there are no harmful impacts to health and safety of its residents.
- Go speak to the people of Digby - I did - they say fight to the end
- I believe the value of peoples land and homes needs to be given the utmost consideration with respect to wind turbines. Also, any person that suffers from physical negative effects is not "negligable"
- Set back distance from residence is of utmost importance and should be in the range of 3.5

kilometers

- I strongly believe that if the community does not support wind turbines then the development of wind farms should not be permitted
- I agree with green energy but there needs to be consideration to placing them in safe & healthy locations
- may need to do more honest research - not from people selling/benefitting financially from them but from the people close to such projects
- We would like to be better informed on the exact Municipality development plans before anything is decided to proceed.
- Keep industrial turbines out of Kings County. Any turbine would have to be 10km away from people
- In addition to the above statement (#1) it is essential that the Municipality acts in accordance with the residents who could be most affected
- The Municipality should stop all wind energy development since the turbines are detrimental to human health and safety and animal welfare
- The environmental and economic benefits of wind power development offer an opportunity for Kings County to become more sustainable and to do its part to meet provincial renewable energy goals. However, for development to be considered "sustainable" it must balance environmental, economic and social well-being in a community. An approach to wind development that considers only limited environmental and economic benefits is not sustainable for Kings County. To ensure wind development in the region is consistent with this important principle of sustainability the municipality should adopt an approach to industrial wind energy development that includes the following: 1) Include 0.5 MW turbines in the industrial wind turbine category; 2) Increase setbacks for increased turbine size. The current setback of 700 m should be increased to at least 1000m for 0.5 MW turbines and increase according to size; 3) Establish wind zones for multiple installations. These zones should include setbacks of at least 10km for industrial turbines; 4) Require community consultation. All proposed developments should involve consultation with community residents within a 10 km radius and development should proceed only in cases where consensus has been reached; and 5) Failure to follow the requirements of the Land-Use By-Law should incur a penalty.
- The Municipality should provide for moderate development opportunities by choosing an approach that mitigates established proven health risks and concerns of residents most impacted (those within 5 km range).
- The Municipality should pass on wind energy development opportunities at this time by taking an approach to health and safety concerns that mitigates not only proven risks which are compelling but those that have yet to be proven.
- The Municipality should provide for moderate development opportunities by choosing an approach that allows for maximum wind energy development in areas of low ecological impact. (i.e don't build in areas where birds have migration routes).
- environmental side effects for wildlife. Wind power is good - you can't make an omelet w/o breaking eggs
- Same as one (1) but scale is to me the real issue. Large scale industrial wind turbines need more time to work out the technology; therefore #1
- The Municipality should utilize research and learnings from the experiences on other areas of the world to avoid making mistakes/allowing risks or/and negative community impacts that have been experienced elsewhere
- The Municipality should not enter into wind energy development ...period. The known facts are that it is not an economically viable energy solution nor does it actually contribute towards the reduction of harmful emissions. The unknown factors are frightening. The affect they will have on our wildlife and domestic animals alike could be absolutely devastating and irreparable.
- We should be thinking about the well being of our future generations
- The Municipality should base regulations on value & [illegible] to existing homes and a sound economic scientific principle (easier said than done I know)

- max. development possible with proven risks taken into account
- If turbine are built they should be miles away from the closest dwelling
- Wind turbines are visually destructive to rural communities - municipalities should ensure the protection of these communities - not the destruction
- Should ban wind turbines completely in Kings County no growth and no requirement
- The Municipality should provide moderate development outside habitated communities
- I have been doing research on the impact of human health and I do not like what I have found
- There are large tracts of undeveloped land in Nova Scotia - develop those
- I don't agree with any of these options. Firstly, why would development opportunities be limited based on "compelling but not proven risks"? Also, why does the option that supports development in this survey have "higher level of risk" tacked onto the end of it? I don't think maximizing wind turbine development would have any risk and therefore the answer I would select would be: "The Municipality should provide maximum wind energy development opportunities."
- All of the choices imply that there's a health risk to using wind turbines. Are you people who are suggesting that there are health risks crazy? It's a spinning blade that is pushed by the wind. What possible health risks could this have?
- The Municipality should provide for well-balanced wind energy development opportunities by taking an approach that considers proven risks of any kind (closeness of turbines to homes, agricultural land, roads ...) and choose areas of low-to-no-level of risks for people, animals and plants. Also, the long-term benefits of the accurate use of wind power through turbines should be clearly explained to the public as well as any proven risk that would present itself. (I have grown up around wind turbines in Europe and have not heard of any concerns yet, but usually they stand close to dykes on grass-land where there is not much else but sheep - which did not seem to mind them ...)
- The areas could be in areas of non-residential lands, there is lots of crown land away from homes and communities
- The Municipality should provide for moderate development opportunities by choosing a COMMUNITY BASED approach that mitigates well established scientifically proven risks.
- Should look into other ways to increase energy.- Too many questions unanswered.
- Please explore solar power as well as wind turbines
- The Municipality should explore other proven sources of alternate energy such as solar energy (passive type)
- Listen to the people - the taxpayers
- The municipality should provide for wind energy development opportunities while taking an approach to health and safety concerns that relies on scientifically valid information. The municipality should avoid establishing arbitrary development rules with the intention to placate special interest groups, but encourage project proponents to engage with any special interest groups in a meaningful way.
- the municipality should seek alternative green energy sources that do not have the proven, or compelling, if not necessarily proven, risks.(ie: vertical axis turbines)
- It is hoped the Municipality will look beyond the wind energy studies which say there is no problems with wind energy to the multitude of studies indicating many health problems, economic issues result when turbines are erected close to homes. Other jurisdictions are now recognizing greater constraint is required (eg. State of Victoria, Australia, England). Recently the Ontario Federation of Agriculture (38.000 members)asked for a moratorium on wind farms pending worthwhile studies. They recognize the health issues and the socio-economic issues seen far too often in rural Ontario.
- These above options are based on a false premise: that there are high levels of risk involved in developing wind power. This is simply not true. Please do your homework!
- "The Municipality should regulate sustainable energy development opportunities by taking an intelligent approach to health and safety concerns that mitigates proven risks, as well as risks

which are compelling, although not necessarily proven. This statement would relate to both human, as well as all other animals' health & safety concerns. The Municipality also needs to be sensitive to people's economic concerns when it comes to housing; existing residents should not be forced to relocate due to any incompatibility." I realize this is a bit long of a 'statement', but there was no consideration of housing/economics in any of the statements above, nor any relation to other species than humans.

- None of the above. Health is not the only issue.
- None of the above represents my view. I do not believe large scale Turbines present any true benefit to anyone other than the shareholders of the company selling them and NS Power. The amount of promoted "green" energy produced is not enough to warrant the irrevocable damage their presence has on the quality of life and wildlife not to mention the loss of personal home equity for surrounding properties - for most this is their sole equity holding. The true solution is in small turbines owned by groups of local residents that does not disturb wildlife (bats & birds), is not intrusive, unsightly, or create flicker, and directly benefits the residents involved outside of a classic corporate structure. Large Turbines are an attempt to fit a fashionable "Green" product into a corporate profit structure without any meaningful benefit to the environment or quality of life.
- The Municipality should provide for moderate development opportunities by taking an approach that limits negative impacts, both proven and those still being studied, on wildlife (bats, birds) and people (health, property value). Further, the Municipality should provide for local development opportunities by maximizing the amount of energy used locally by the production of the wind mills, and the number of local investors. A cooperative wind mill approach would not add more value-added benefits, provide more economic diversity, and secure local interest are always put first in all decisions related to the development of wind mills, their long-term maintenance and their eventual de-construction.
- The Municipality is going in the right direction...embracing renewable energy....but should not exclusively focus on wind energy, as it appears to be doing at present. Solar, specifically photovoltaics, should be taken into account. A photovoltaic panel generates electricity at 6.6 cents per kilowatt-hour when operating in Nova Scotia, and is clean, silent, and doesn't even flicker. A comparison between wind & solar energy should take place before placing all this focus on building wind turbines.
- is there provincial land in undeveloped areas of the county that can be used?
- The Municipality should significantly limit large scale wind development which has the potential to harm the population it is developed in and will in the end destroy any other growth and development in that community. People will leave the area and young couples thinking of moving and building there will go elsewhere; regardless of the renovation (very costly) of the local school.
- There have been wind farms around the world for years (even in this province). The data is there, so the "risks" are known. Perhaps the people that are worried about "noise" or other such idiotic things would be more happy with a nuclear or coal fired plant instead.
- Should not be close to homes! What is the effect on livestock
- Municipalities should also take in consideration Tourism. NS relies on the monies tourists spend and the sight of turbines on the hills may not be considered a beautiful thing.
- No, insufficient land mass on the Valley Floor, on North and South Mountains and Blomidon Peninsula due to population density for safe integration of Large scale wind turbines.
- With the dense population on the North and South Mountains, Blomidon and the Valley floor there is insufficient land mass to integrate large scale wind turbines.
- I can't pick a statement because I do not know what the health risks are. They can't be any more risks than living near a Hydro line, or breathing the smoke from people's fireplaces, or breathing the stink from someone's car when they go past. I was driving into Bridgton one winter morning, a supposed to be clear, crisp, winter day and they had this awful brown cloud over the town. It was from their wood burning furnaces and fireplaces. I was shocked because I thought you only saw that in Las Vegas, or big cities, which I did. I do not see what the problem could be with having some of the wind turbines on the mountains away from populated

areas. You are not supposed to put them in the middle of town or a subdivisions. I have been near some of them and they do not make that much noise. The wind is not a danger to anyone's health. If they are worried about the landscape view they better start cleaning up the oil that is floating in the small creeks and the dirty rivers.

- The Municipality needs to get ALL the facts before making any life changing decision to a community and its dwelling members. We all work hard, and we are not against sustainable energy. We are against the "you scratch my back and I will scratch yours" approach. How wonderful it would be for any government official to make a decision based on fact, and not just looking out for themselves. Go beyond and ask the tough questions if you do not feel they have been asked or answered! I want my children to be able to enjoy the community they grew up in, as well as other communities they would have friends living in... to chase everyone away because of selfish, greedy, uninformed decisions is shameful!
- The Municipality should ensure that wind energy development takes place in a location where there are no human dwellings.
- Building codes may restrict turbine installation. Wind turbines make noise and some people (possibly your neighbors) find them to be ugly. Turbines typically operate at only 30 percent capacity (but to put that in perspective - solar panels operate at only 15 percent efficiency). Blades have been known to kill birds. Turbines can be damaged in lightning storms. And who will continue to pay the taxpayer!
- need to take a holistic evaluation of each project so that all health, safety, economic, environmental, and visual effects are considered.
- I would like to know how many representatives of the government would feel comfortable with one or more of these monsters in their back yard . . . I bet none of them would allow it.
- Power generation through alternate sources such as the power station that is owned by the Berwick Electric Comm should be explored. If by building windmills we are investing in NSP (emira's) infrastructure, we must reconsider. I would like to replay a conversation for you which I had with a man who represented- I think Energy Nova Scotia. I cannot recall his name, but I clearly remember the conversation. This man's slick approach and greasy way still sticks with me. This conversation took place at a public meeting held in Canning, NS. I approached this man attempting to engage him in conversation. His immediate response was to take our conversation outside. Hmmm, I thought. I asked him who would own the power generated. He said that it would be sold to Emira. I replied that the benefit from the power would be lost, as it would simply be sold to the New England states. He replied very defensively, that "Oh no," that wouldn't happen. I said "You know what I would like to have?" He said, "What's that?" I answered, "Natural gas." He stated with a big smile, "Oh yes I would too." I replied, "Too bad they sold that to New England." At this point the shyster knew I wasn't buying what he was selling, and left.
- The municipality should provide for maximum wind energy development opportunities by choosing an approach that mitigates only well established, scientifically proven health risks.
- The Municipality should significantly limit wind energy development opportunities by taking an approach to provide the maximum priority to protect the environment, specifically trees and wildlife. As well, the approach to human health and safety concerns should apply to established, scientifically proven health risks.
- Please, show PROOF turbine energy decreases reliance on polluting energy sources such as coal, factoring in all variables in this proof. For example, wind is unreliable. Can the energy during wind be stored for use when no wind. What is the cost in carbon emissions of such storage. That's right, GIVE the COMPLETE picture in any proof turbine energy lessens fossil fuel pollution.
- turbines are the part of the future for our increasing energy needs. Yes there need to be safety guide lines and a reasonable distance from homes. There are plenty of areas that are available. The southern edge of North Mountain for example.
- The municipality should investigate photovoltaics as a renewable energy source, before jumping whole-hog into the wind-turbine industry. There are already over a dozen clean photovoltaic installations in Kings County, but few people ever hear about these because there

are never complaints about noise, etc. The municipal officials must now investigate this photovoltaic technology which is growing right under their noses, before jumping blindly into wind-turbines.

- municipality should not allow these monsters to exist in the municipality
- The Municipality should provide for maximum wind energy development opportunities that balances energy requirements provided in a green matter with respecting human space for living.
- The Municipality should NOT allow any wind energy development and pursue other energy options such as wave energy in the Bay of Fundy.
- They should only be placed in places where people don't live. Maybe Kings County is too populated for this occur. It needs to be a few kms away from people. But then we are not considering wildlife and the importance they play in our lives. Wind turbines are relatively new in research. The truth is now coming out on how they are impacting people's lives around the world. Ask yourself one question..."would you want this next door to your home, or your child/grandchild's home?" I wouldn't! Who's going to pay to take these down in years to come when they break down? Imagine how rusty and ugly they will become littering our land, as new ones go up and old ones sit there. I don't live near these sites, but feel for the people that do. They bought properties to be away from pollution and live simple lives...put them in the middle of towns where people use the most energy. Not possible? Then...move on and look at solar power. We have tons of buildings that have a roof...wouldn't this make more sense? Halifax is starting programs where people can have solar added to their home and then you pay it off over 5 years. I am interested! Take some time to watch the many YouTube videos of how these turbines really sound next to homes. Plus the shadow flickering...
- The Municipality should support wind energy development, but within reasonable limits. Concern belongs with claims of infrasonic sound (inaudible) and impact on residents. In investigating claims, the specifics can matter. Not every airplane or motorcycle makes the same noise, and it is likely true to different makes of wind turbines. The investigation should be detailed and deep and not skip over details which can help us arrive at a good compromise. If we are wise, perhaps we can avoid buying the Harleys. The Municipality should not give too much faith that wind power is the magic bullet for our energy needs. Currently all of the world is facing the same need to move off fossil fuels for electricity generation. However, with that migration, we may repeat the global problem of too much demand for a non-renewable resource depleting that resource. The price for copper has climbed since 2003/4, partly due to a large global increase in wind power projects. According to a materials engineer Michael F. Ashby, a typical 2MW wind turbine requires 3000kg of copper in generator windings and transformer. The ratio of copper consumption to MW power produced is very high when compared to larger scale power generation (hydro, nuclear, coal). To explain the problem in the simplest of terms, it could replace an oil crisis with a copper crisis. We need a view to manage all of the resources which are inputs to power generation.
- The municipality should provide for reasonable development opportunities by choosing an approach that not only mitigates residents' health risks (already known info, noise, vibration, distance from dwellings, etc), but also seek out newly developed scientific research on this subject.
- Should be everywhere in wind farm however the distance from home owner that would effect now should be compensated. And homes purchased if wind farms are located within 1 km of homes. However if someone builds once the farms are indicated that would no longer be the concern of the wind farms and individuals would not get any monies for these issues .
- Health and safety really should be of paramount importance, and not just 'Scientifically Proven' affects - science takes decades and millions of dollars to achieve that - and even then is always changing. Strongly feel present wildlife kills (especially birds) and other detrimental effects must be addressed and given equal weight to human effects.
- The municipality should actively pursue opportunities to encourage energy generation where it will have minor environmental impact. For example: a wind turbine on land zoned agricultural if it has little impact on the cultivation of that land.

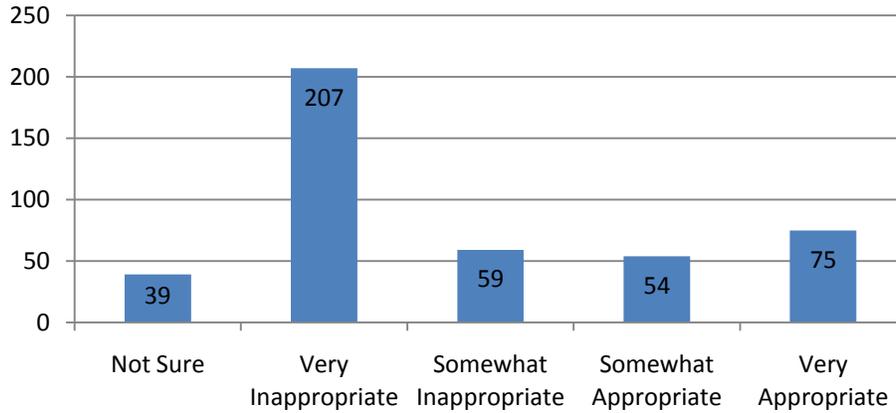
- we nor visitors want to see these towering eyesores.tourists come to see our beauty.
- #1: Too many words to make this choice understandable. Probably the best one however. "MITIGATE" is not a well-used word.
- make it clear that the municipality will protect the health and wellness of county residents by creating policy that will ensure these industrial wind turbines will not be placed near homes. A distance of 2 miles from any home should be considered a minimum. Look at the demographics of the county - how many residents are aging or elderly and already have serious health issues. To put a wind turbine near one of these people when there even a question of risk is completely irresponsible and unnecessary.
- MCK should assess requests for wind energy development on a case-by-case basis since criteria which can adversely affect residents by this land use can vary widely depending on the location of the proposed development.
- the county of kings is a small Geographic area due to a high concentration of people we can not take the chance of adverse side effects from these wind turbines as seen in many places around the world. the sight of them will ruin our beautiful landscape and the sound will take away our peaceful surroundings not to mention the known impact against birds and wildlife.
- Burning coal causes hundreds of deaths per year from lung diseases. We should put things in perspective and be willing to accept some inconvenience in order to reduce the damage caused by our present practices.
- Blomidon, North Mountain, South Mountain and the Valley are way too small for these BIG turbines! Put them out where NO ONE LIVES! The turbines proposed for Kings County are much larger than the 1.5 mega watt turbines in Digby Neck, PLEASE don't allow this to happen.
- While I don't know the science of how far windmills should be from residents, we need to rely on the best information available to make that decision. Yes I am sure some birds be killed by windmills, how does that compare to the death and destruction of all creatures by various energy sources over the last century? I have been to Kingston Ontario and looked across the lake at the 80+ windwills on Wolfe Island which to me represents a society with vision looking out for the future. I have also stood at the base of one of those windmills and did not notice any amount of noise. If people pretend the problems of energy they can't see or that isn't produced here don't exist they need to look at the real issues of energy supply.
- The municipality should rely on the population to determine actions. Anywhere the public can reduce government and control things privately it will be done more efficiently.
- There are lots of places in nova scotia to place a large wind turbine that have no people living in that area. most of nova sciotia is not populated. place them out in the clear cuttings the land is already stripted of its natural reasources
- I believe that the first option "...should significantly limit...by taking an approach to health and safety concerns...". If there are potential health safety risks, I believe that it is better to err on the side of caution rather than forge ahead and live with the consequences later. However, I would change the statement to state 'large-scale wind turbines' and not just "wind energy" in general. There seems to be a big difference between the health affects of a large-scale industrial turbine and a back-yard windmill.
- I strongly suggest We take a cautious approach as many good ideas become not so useful , as the effects become apparent over time. I support wind power but not at the expense of the health of the near by land owners/residents . I very much appreciate the municipalities efforts to engage the population in this important matter.

7. Appropriate Areas

How appropriate, from a cultural and landscape point-of-view, are the following areas for wind turbine development?

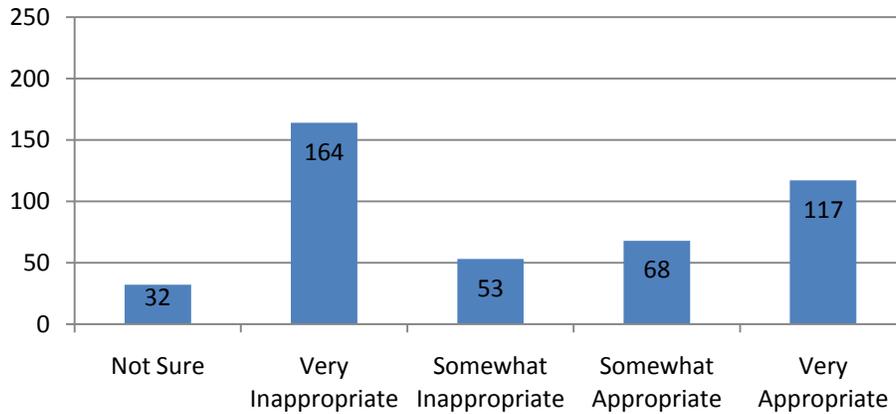
Blomidon Peninsula

434 responses



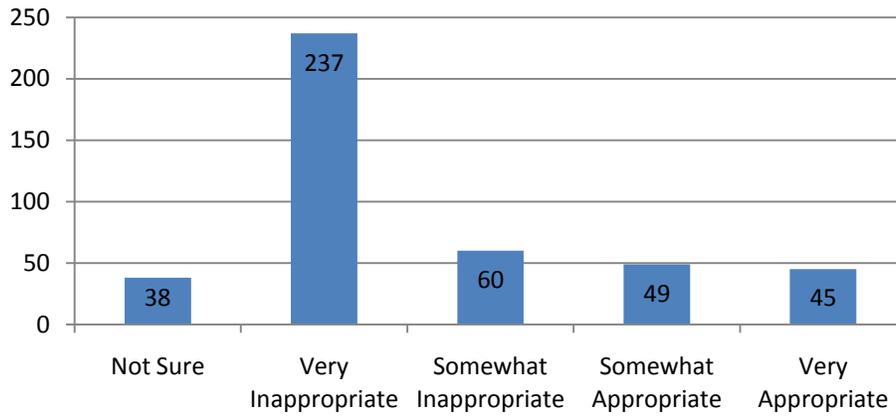
North Mountain

434 responses



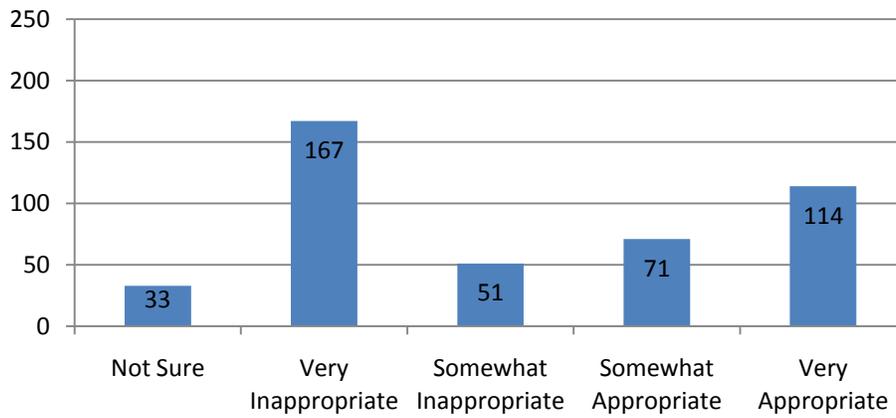
Valley Floor

429 responses



South Mountain

436 responses



8. General Comments

General comments (attach other sheets if necessary):

301 responses

- It saddens me that this is even an issue. I do not think we should be spending \$25k just to find out about health concerns for wind farms. The research has ALREADY been done. The article I linked at the bottom is one that clarifies all of the myths about wind turbines and has the supporting research provided; and this is just first I've found. Wind turbines have the least environmental impact than any other energy source currently used in Canada. What about the plethora of dams throughout NS which drastically change the landscape from rivers and streams into huge lakes? What about the effect on the water table from "fracing" for natural gas? The air pollution and giant mines from coal production? The absolute devastation from mining oils sands? (seriously... Google "Fort McMurray oil sands"). Wind turbines have little to no effect on the environment except they reduce carbon emissions and lower the need for other harmful energy methods. Nova Scotia needs this. The country needs this! If we are going to last into the future we are going to need to start finding greener ways to produce our energy and wind turbines are a terrific way to start. Look at the success other provinces have had (Ontario) as well as other countries (Germany, Spain, Denmark). Wind turbines benefit everybody - from the landowners to the people employed to build them. Real evidence (peer review empirical research) is out there and we don't need a \$25,000 team to tell us a wind turbine can't make our heads explode. http://www.whywind.org/pb/wp_a1b4e1bf/wp_a1b4e1bf.html
- It is an outrage to me that the public is given the right to spout off uneducated doubts about social concerns and wind turbine safety. These technologies have been implemented safely in highly developed countries like Germany with huge success. The public has much trouble accepting a new energy strategy, and Nova Scotians' recent criticism of NS power is not helping. NS power must work to regain that trust and at the same time, point out the numerous benefits that wind power will bring to Nova Scotia and all of us Nova Scotians. Show Nova Scotians why these technologies are beneficial, and firmly close the door on any non-scientific discussion of unproven theories. Show facts. And show them to Nova Scotians' advantage. They speak for themselves.
- I have to say, I am extremely disappointed to hear that citizens of Kings County think there is any legitimate basis for citing "Health Concerns." Wind energy is simple; it's a turbine that's being propelled by the wind, and converting circular motion into electricity, the exact same way any other generator does. Stop this voodoo nonsense. If we're ever going to get out of our gas guzzling valley, we really need to step up and start providing green energy alternatives. Let's set a positive precedent here, as so many other towns, provinces and countries have done so far. This is a waste of \$25,000. We already know from countless other peer-reviewed studies that wind energy is clean and safe. If citizens are concerned that their property values may decrease, that's a legitimate concern, but don't waste everyone's time and money by pretending that you're worried about your health. It's not even giving off radio signals or anything, IT'S JUST A SPINNING PIECE OF METAL IN THE AIR. Stop resisting clean energy and start thinking for yourselves. If I were buying a new house and saw a whole bunch of windmills behind it on a mountain, I would be overwhelmed with pride and seriously consider moving to that area. Knowing that a municipality is interested in promoting green energy would literally boost my interest in your property value. Let's stop this America-driven idea that wind turbines are bad, and start thinking for ourselves.
- Due to health concerns this is not good for me or anyone.
- Due to health concerns
- Due to health concerns
- I have contact info for section at 8Wg CFB Trenton for proponents to notify.
- Rather than give incentives to "prospecting companies" the municipality and governments should support small-scale initiatives by individual property owners -- solar panels and small turbines.

- >We also need to develop solar and geothermal energy options.
>I feel strongly that a 700m setback from residences is inadequate. I would support a setback of 1500m from dwellings.
- I am not against wind energy but feel it needs to be implemented correctly and safely away from residential communities.
- I agree that we need green energy but feel there are better places to put wind turbines other than next to or near children, families, and peoples investments. The cost of keeping turbines further away from existing houses is worth it and will pay for itself over time.
- Wind generation is the 2nd most inefficient way to generate power solar is number 1
- Should be extreme study & thought should be done before installing wind turbines.
- Please look into this a lot before proceeding!
- We, as an informed community, do NOT want windmills in our community, near our homes, affecting our health and property values. Canada is huge, there is NO NEED for them to be built anywhere near people's homes.
- To think that one landowner can leave his land to such a project that would have ill effects on the rest of the community is [illegible], is a dictatorship. I was not [illegible] in Canada to be under such a blatant way of life. This leads to mental cruelty and we all have been through enough life experiences that we don't & shouldn't be forced to anymore mental cruelty or have something forced on us for the rest of our lives. There is NO excuse why crown land away from dwellings cannot be used. We have the land out to Methals and the Mine's Mts. which is highly accessible & has power lines. I agree to utilize the wind for power but only in these circumstances such as using common sense in using crown lands. If we are building these to [illegible] for our future use then these sites are the only way to go. They can accomodate major wind farms for the future. It's only common sense. If we are serious about doing this and it will be cheaper in the future, then [illegible] and sprawling acres of crown land is the only way to not affect our daily lives & land value in a negative way.
- The people who have allowed wind turbines to be built on their land have done so for the money but with no concern for the effects these turbines will have on the people in the area.
- It isn't worth the risk of turning people off from moving here. How could one even think of dotting the skyline with turbines and then have tourism decline and developers and government ruin our beautiful county. [Following written in "Benefits" area:] Please listen to your community and do not use wind turbines in Kings County. Not near schools, university, senior's homes or residential areas. Motels, tourist destinations. NOT anywhere.
- Any other product that created such havoc on humans, wildlife and environment would have been pulled from the market a long time ago. In the governments effort to meet their "green" energy targets they have become blind & deaf to problems [unknown] from this process. The wind turbine & electrical/power companies are laughing all the way to the bank.
- Thank-you!
- As a person who owns shares in companies involved in wind energy generation and other forms of generating power I do not BELIEVE the right questions are being asked by proponents + antagonists on this subject. Too much linear thinking, no lateral thought.
- I do not feel the small economic benifit to the landowner outweighs the potential negative outcomes of a large scale project. Decreased property values could be greater than any increase in revenues for the county so it is of little economic benifit to the county. As well it does nothing for local employment other than the few construction jobs at the beginning which are often not sourced locally anyway. The turbines themselves are often built offshore. Encourage small scale projects that would use local labour. Until the health effects are better understood it is not worth taking the risk especially when neighbours have so little say in the approval of a project. Setbacks should be increased to at least 5km and the land owner should have to have approval from all neighbours within that distance. As well if a project is approved the developer should have to post a bond, held by the county, for the full cost of decomissioning of a turbine incase they go bankrupt or are sold off to another company. This could also be used to remove a turbine that a local community is unhappy with. When the turbine is removed at the end of it's life the bond can be returned to the developer and its investors. If a developer

is unhappy with this they can graciously go find another county that is willing to take the risk. Please do not risk this until we understand them better.

- Kings County is not the first municipality to deal with a decision regarding industrial wind turbines. If we as a county proceed without careful examination of new information from Ontario, US and UK we run the risk of repeating the same greed driven developer mistakes. We have the wealth of knowledge from other municipalities mistakes, lets not make them again. We must broaden our search for fossil fuel alternatives and not rely on industrial wind turbines in rural communities as the only alternative.
- March 16, 2012 Questionnaire General Comments -Large-Scale Wind Turbine Policy and Regulations I know that one industrial sized wind turbine can adversely affect a household that is 3.2km from it. More than one turbine increases the noise/vibration levels even more(Harrison 2011) and thus setbacks should be even further than that stated for one. I am for renewable resources, wind included, it is just that the scale needs to smaller. Putting an industrial size wind turbine amongst homes is wrong. The risks are too great and the benefits are questionable. The valley has done very well with the Valley Waste Resource Management (VWRM) and its recycling program. I think the county could go one step better by encouraging its residents to decrease its consumption of fossil fuels. One of the most helpful things we can and should do is decrease our levels of fossil fuel use in the home. VWRM has shown that education and guidelines have been effective in changing the attitude and behaviour of valley residents. The same can be done with electricity/oil use in the home- encourage people to use electricity during off peak hours, encourage household net metering (wind, solar etc.). Allot how much power a household or community can use and increase the rate after that allotment has been used. There are lots of possibilities. I feel residents/communities want to be part of the solution of decreasing our dependence on fossil fuels. We have smart and creative people in Kings County that can come up with solutions that truly fit in with our respective communities. Please do not leave it to big business wind developers to determine our fate, we can come up with our own solutions. Respectfully, Dawn Miner Wind Turbine Noise <http://bst.sagepub.com/content/31/4/256> The online version of this article can be found at: DOI: 10.1177/0270467611412549 Bulletin of Science Technology & Society 2011 31: 256 John P. Harrison
- Very interested that NS invests in renewable energy, but health & environmental concerns have to be addressed. Kings County is more densely populated than other areas within the province. It might be more difficult there to establish large scale turbines if a minimum distance of (lets say 1000m) is established. But I hope we can find space for a few in this county.
- The core issue for Canadians & Nova Scotians is over excessive & [illegible] consumption of fossil fuels, which are jeopardizing our environment & wondering the [illegible] of future generations. Wind turbines are not a solution to the renewable energy challenge, except on this [illegible].
- These have no right to be in peopl's backyards. There is alot of crown land that could be used. I don't want "my" life nor my neighbors lives to be turned upside down. Read what is happening in the world - look up Denmark.
- I'm sure some people live near turbines successfully, however, if one or two (acceptable by most standards) suffer, this to me, is unacceptable. Also, again I don't think it is right that land owners that don't live in the community have the right to negatively impact sooo many local people negatively. I wnat to preserve my health, my families health, the value of my land and my home. I'm not sure what the acceptable set backs are but my gut & mind tell me it's a long, long way from people!
- My concerns with wind power are it's affect on wildlife and being too close to dwellings. I feel 700m (less than 1.2 mile) is too close and feel the distance from the turbine to dwelling should be increased.
- I am not against wind power as such, turbines are not suited for areas of residential populations, they have too many ill effects along with devaluation of property, thus affecting the county tax base.
- Large scale wind turbines are industrial sized equipment which is too large for rural communities. We should be looking too the past. Places like New York and Ontario where their

have been numerous cases of severe health problems to people, livestock and wildlife. Instead we should be investing in small wind turbines (100 or less) far less environmental impact, more astedically pleasing more sustainable.

- Why are we not considering vacant land klms away from homes ie along the 101 between Sackville & Winsor. The wind there is strong, there is a power gride running along the highway they can tap into. Less than 1km from homes is unacceptable. I watched the Land & Sea documentary which points out how this impacts health & well being.
- I am wholly in support of using "natural" methods of energy - just don't want the long term effects to be worse than what we're using now. We need to preserve the EARTH NOW! Be very cautious where you put them PLEASE - err on the side of caution!!! Thank you. Penny Johnson.
- Wind turbines of the 2-2.5mw size are industrial, in my opion they should not be scattered among the residential areas of our country. The company that I work for has been associated with "typical" industrial applications of the 25-30 wind turbines in remote areas, I never thought that being intermixed among residential areas was part of the aplication for turbines. It appears that one of the subsidies and programs come out, so do all the :small guys" to make a profit; how this helps our community and county in any significant degree is difficult for me to see or understand.
- This questionnaire was quite vague. I expected more questions & more of an information session to make a decision of this magniture. Hopefully the Municipality is taking this issue as serious as the Kings Co. residents are.
- Before deciding on infrastructure and impacts the basic question of WHY has not been addressed. Unless it is proven that the need is there, why go into this at all. Ridiculous! And by the way, where are the councillors in this little exercise? [Please Note: In the section "Please identify the potential benefits..." this person wrote:] - not applicable in this area - Paradise to St. Croix - ah-ha! here's the real issue - not really - oh please - image? That is a consideration??
- We have enoromous opportunities in the Bay of Fundy taht are currently being explored by a newly establoished institute. We do not need these wind turbines here!
- I am in favour of increased "green" energy being produced, but am not convinced that wind power is the optimum source. If wind farms are concluded to be the most efficient, and publically desirable generating system, then it is essential that they be isolated from populations, perhaps 10kn or so.
- Over 90% of the Peck Meadow Rd community is against the production of wind turbines. Why should a land owner not residing in the area get to say what happens? Why are the citizens voices not heard? I found that the citizens did not recieve the proper information and this was an unethicall approach. The citizens deserve to be kept up to date on imporntat decisions that impact their lives.
- Seperation distances should be increased even further to 5000m.
- I would like Kings COunty to have a green image but not with the use of wind turbines.
- I feel the Municipality of Kings should stop all development of wind turbines until further research of the consequences is attained and an educated decision can be reached. After completing research on the Internet I discovered most communities that have implemented wind turbines experience trouble. The quality of life for people who live close to the turbines has decreased due to flicker effects and noise. Wind turbines pose a risk to wildlife in the area such as birds, bats, and deer. I believe we need to move in a greener direction for electricity. A better option for our area, which is known for its beautiful farms, would be cellulosic biomass. Cellulosic biomass uses left over stalks from crops such as corn and straw and converts them into a pellet form. These pellets can be burnt at high temperatures to generate electricity using the facilities now used for coal and oil burning. This would solve the problem of farmers not being able to sell their land for development. Their land could be used for crops for power production and they could sell their land for a higher price or rent it out. The benefits to the local economy would be more wide spread than with wind turbines because of the yearly growing of crops, pellet making, compost and fertilizer production, farm hands, farmers, machinery sales and mechanics. This method would help Kings County thrive for years to come and treat all of its citizens with respect not only those who live in the populated areas that are safe from the

detrimental effects of wind turbines.

- I feel there is enough land in the province that there should be a place where turbines can be placed to not affect any communities or people.
- Not sure why they are continuing to put up turbines when they are not supported by locals.
- I believe in green but the green factor of wind turbines is nullified by the carbon footprint it takes to manufacture, transport and construct these huge wind turbines. Along with the environmental, health and safety concerns we should rethink using wind turbines.
- I feel large scale wind turbines are not appropriate for our communities. They should at least 3-5 kilometres away from homes.
- I moved to the rural area to get away from the noise associated with a university town. I am hard pressed to imagine that having the sun rise or set through the blades of a towering turbine or listening to the rhythmic noise is a fair trade off. (I am not anti turbines just not close at hand)
- Setback is our most concern. Setback should be more than 7-8 miles.
- I think the way approval of windmills should be as follows; take the safest distance (out of sound range) and look for appropriate place and work in from there identifying and publicizing risk. The power generated should be used where the windmill is located. Advantage - most optimum yield - (not lost in moving power to remote locations far away and if there is a pay-off in the area, will get a stronger commitment to the cause.
- Stop thinking about money kick backs before the health of the communities involved. There are other things that money. if you start having associated health issues, then the cost of you health care increases. There are already prolonged wait times, lack of family doctors etc. This will just add to this.
- health concerns
- health concerns set back 2000m from residences would be best
- This survey is general in my opinion and can easily confuse the individual submitting results. When completing the author left out "health concerns" on the main page. It is interesting to note that there was not a separate section on this survey related to potential health issues that are coming to light as a result of these massive turbines. These include but are not limited to the following: -sleep disturbance -headaches -ringing or buzzing in the ears (tinnitus) -ear pressure -dizziness, vertigo -nausea -visual blurring -racing heartbeat (tachycardia) -cardiac problems -irritability -problems with concentration and memory -panic episodes with sensations of internal pulsation or quivering which arise while awake or asleep No one is against green energy, as long as it does not impact the environment or people's health. Personally, setbacks should be significant from any residence, not 750 meters. The WHO is recommending at least 10km in one report I read. Many Governments on a National level are calling for health reviews on turbine use, (these have already been constructed and the damage has already been done.) Council is so protective of their agricultural land, yet when it comes to something like this, use a minimum setback for development to ensure they have lots of potential for building sites. I think they fail to realize is the impact these will make when you use forestry zoned land that is currently being used for growing crops etc. There are greater things than the almighty dollar, if you as a council approve these to be built, where will it stop? Is the \$\$ kickback to the county worth people's health? Where I live there will be one of these in my back yard, the way the sun moves, and the amount the wind blows etc, will all impact myself and those around me. Would any of you gladly live with in the minimum setback zone? If I had problems, or my neighbors, would you gladly trade your house for mine? I encourage you to look at the NB and NS border along the 104HWY. We knew they were big, but not that big. Minimum doesn't mean acceptable, You can increase these setbacks significantly, just like a building code has minimums, we know from past experiences that minimums are not the best. Please use common sense when it comes to this decision because the decision you make affects us all long after you are in office. Some websites for reference:
<http://www.cbc.ca/news/health/story/2011/09/21/wind-turbines.html>
http://www.ctv.ca/CTVNews/TopStories/20090422/wind_farms_090422/
<http://www.independent.co.uk/environment/green-living/are-wind-farms-a-health-risk-us-scientist-identifies-wind-turbine-syndrome-1766254.html>

<http://www.goulburnpost.com.au/news/local/news/general/federal-mps-call-for-turbine-study/2487825.aspx> <http://www.wind-watch.org/ww-noise-health.php>

- I think wind energy development is very important and good opportunity for Kings County. I sat on the NS Renewable Energy Committee that drafted the recommendations for 25% renewable energy development by 2015. Our most recommended scenario included heavy investment in wind. But with this also came significant recommendations related to public engagement and consensus building---an a public education campaign. These are big changes and those most impacted will be in the rural areas like Greenfield, Caanan, etc. But as you know, folks in these areas are well educated and skilled and address their concerns effectively. While this may prove too long a process but really in order to get 'buy-in' the county should really consider doing some community mapping with residents keeping in mind some of the constraints in terms of transmission to the grid etc. in other words you can't locate these things too far off the beaten track without huge investments in other infrastructure that the county is in no position to address. Thanks for this opportunity.
- I ask that Kings County Council take a cautious approach to wind energy development. In other parts of Canada (i.e. Ontario) and around the world (i.e. Australia), where wind energy is much more established, there have been calls for moratoriums on wind development and increased set backs from homes of up to 10,000 metres. Let's learn from their mistakes, not repeat them. I found this survey very difficult to complete, and it would appear that I am in opposition of wind energy. This is not necessarily the case. However, no matter what positive impact wind energy may have (environmental, financial, etc.), it cannot be at the expense of residents' health and property value. Separation distances between large scale wind turbines and houses need to be at LEAST 2,000 metres. I understand that an external consultant has been retained to research the possible negative health effects of wind turbines. I hope that this research will include actual feedback from people living in close proximity of wind turbines, and not just be another simple literature review. In my own research on this topic, over and over again, I have come across statements stating that, "There is insufficient data to suggest that there are negative health effects...." This simply means that the research has not been done! Let's not pay a consultant \$25,000 to tell us that not enough research has been done to prove (or disprove) that there are negative health effects associated with living too close to large scale wind turbines! I have also come across research that has stated that the noise generated by wind turbines is just merely "annoying" for people living in close proximity to them. To that, I ask, at what point does an annoying sound, heard 24 hours a day, become a negative health effect? On a more personal note: I live in very close proximity to the potential site of two 2.0 MW wind turbines. Should these turbines be erected, we WILL leave our home. We have two small children, and we will not just simply WAIT to see if the turbines have a negative impact on their health. If we cannot sell our house, we will simply walk away from it and lose everything (like others have had to do right here in Nova Scotia and around the world). I implore you to please take a cautious approach to wind energy development in Kings County to protect the residents, whom you represent.
- I am pleased that Council has decided to review the bye-law it passed in 2011 regarding Commercial Wind Turbines. However I am very disappointed with the bye law as it stands. 1. To have a set back of only 700 meters is unreasonable to me, especially when the World Health Organisation recommends 10 kilometres to lessen health impacts. 2. I am all for Green policies, but how Green is it, when the coal fired power stations will still be used as back up. Two wrongs do not make a right. Europe is realising the mistakes they made on Commercial Wind Turbines, please let's listen to their concerns. I believe Norway is putting all new Turbines out to sea. 3. No consideration has been made for people who will lose their TV and Internet signals, in the rural areas we rely on satellite signals. Commercial Wind turbines are known to block these signals. In the UK companies putting up these turbines are obliged to make sure all home still receive a signal. Why do we not have this protection? 4. What happens when these turbines are to be de-commissioned? At the moment there is no way of securing the money will be there when these turbines come to the end of their life. Companies have been known to go bankrupt. 5. Council has not given themselves any way to refuse a Commercial Wind Turbine, if they do not approve of the application, should the Company placing the application have conformed with all the legal necessities. 6. Our already fragile rural roads may suffer

tremendous damage putting these Wind farms in place, the taxpayer will be liable for cost of repairs to roads, not the company causing the damage.

- The industrial wind turbines popping up worldwide on the global landscape simply do not work. There are hundreds of thousands of reports documenting the overwhelming horrific impact of these machines on human beings-our health and quality of life, animals, property values, tourism and the environment written by the most brilliant of scientific minds to the family forced to move from their home because they cannot tolerate the shadow flickering or noise generated by their new neighbour. And these reports are coming from where ever turbines have been built-the USA, Canada, Australia, Japan, Denmark, the Netherlands, the United Kingdom. They will not reduce our carbon footprint. It is documented that CO2 emissions and pollutants have increased with the use of wind turbine technology due to the backup problem. This is happening virtually everywhere including both Texas and Colorado to name two locations specifically. All of this and the total energy generated each day by wind has yet to reach half a percent worldwide. They are obscenely expensive, their development fuelled by government hysteria and their need to appear "green" to the rest of the world and their own constituents. In fact if these wind turbine projects - worldwide - were not funded by the tax payer, they would not be sustainable. The winners are the manufacturers, the operators, the landlords and the financiers-not us or our precious environment. This obscene fiscal expense of wind turbine technology coupled with their gross inefficiency to do what their developers say they are supposed to do could potentially add up to what could be a global disaster rather than the savior we are being told it is. Even erecting these turbines a distance of 1500m from where people live is woefully inadequate. Those who are so unfortunate to be living with these turbines now are screaming at the rest of us to halt their construction. We need to listen.
- Most concerns would have been reduced by decreasing the risk. In order to do that increase distance please. The present regulations should have a moratorium until further study on anything higher than 100 feet.
- I believe 700m setback is appropriate, I suggest baseline testing for noise, shadow, wildlife impact be taken & recorded at county as part of application process. This may assist any property owner affected by development & as science improves impact
- My main concern is the impact on wildlife/habitant distruction. Loss of rare or endangered/threatened species is of concern to me and many of the areas highlighted on the maps shown are areas that contain [illegible] species. However, if environmental impact assessments indicate that these species should not be impated by the turbines (detrimentally) than I am pro-turbines!
- Too soon to know & undersdtand health risks. Lots of examples of technologies that were thought to be safe but aren't. We need to take "compelling risks" seriously. Too little real research to be able to discount anything easily.
- I believe wind turbines should be at least 3km from any residence. Lets fund a survey of people who live within 10km of wind turbines in a effort to establish a safe health distance.
- Probably significantly less environmental impact than Annapolis Royal tidal power
- Puth them all up at the Cobequid Pass area. No housing there.
- For something to have "potential" benefit it must be clearly established by existing turbine/windfarms that benefit has or can be achieved.
- Where are the councilors at this meeting
- It is very important to insist on good science & not political expedience when making decisions around this and similar issues. Perhaps European experiences along with New Zealand should be examined. Also, perhaps setbacks could be a multiple of the height instead of single values.
- I think it is a great idea if I can help in any way please call or email me Wallace Berrey 670-9257
- This is a step in the right direction to creating a future that is not as reliant on coal and fossill fuels.
- We need to ensure that property values & health of residents are not negatively impacted by wind turbines placement seperation from dwellings should be as far as possible from existing dwellings. More qualified scientific studies need to be available to educate stake holders before

planning is implemented

- Work with federal & provincial gov'ts to give incentive to incorporate renewable energy on a personal level ie/ solar small turbines and set a rate for increased value of property and gain tax money through property tax revenues, and keep those giants away please.
- No location is appropriate unless the setbacks are appropriate to minimize the impact on rural communities
- I'm glad you're doing more study on this before permission to build is granted
- What happens after the "25 years of life" or whatever the life span is with these turbines.. Who's responsibility do they become then?
- Set backs for turbines should be at least 1.5km min. No one wants this in their backyard.
- Proceed with caution, it will be difficult to undo a bad decision
- Wind Turbines should be placed offshore, not within 2 km of any dwelling or school.
- There is a wealth of information out there for all to see that clearly indicates that these wind turbines are absolutely not something we should be considering in our beautiful Kings County. Denmark is probably the best example of what a complete and utter failure these turbines actually are. I would strongly recommend that the people who will ultimately make the decision on this do their research before doing so. The unknowns are as scary as the knowns. The harm to our wildlife and farm animals will be devastating. The only people who will benefit from wind turbines are those that manufacture ,sell and install them .The only positive reports you will see on turbines come from those same people.....except maybe the people who sell the land to put them on....then move away. We should not go down this terrible road. Thanks for the opportunity to express my feelings .
- People investing actual \$\$ in these projects are miss informed buy the Wind Turbine companies with regards to how they can tract there initial investments. Yes they will get there Provincial and federal tax credits in the beginning but it will cost them a minimum of \$250.00 a year to book there private shares within any plan with any investment firm as well as lawyer fees each year to confirm the share prices as non of these Turbine companies trade on any stock exchange. There is also an annual fee charged to monitor private share investments. I don't think the average investor is aware of these issues, and non of these issues have been brought up any any of the public meeting I've attended. The coast of wind turbines within a small community will force people out of this community (I for one will not live next to a wind turbine) and young people will not build in a community that has turbines popping anywhere. There is a place for these but not where you want population growth.
- I believe that the development of alternative sources of energy is of great importance. I also believe that more community education is necessary as well as taking community members opinions seriously.
- In a democracy, if the people don't want something they shouldn't have it forced upon them. If the people in the immediate vicinity of a turbine don't want one, then there shouldn't be one. If 50% + was enough of a vote to break up a country (sovereignty referendum) then it should be enough for a windmill vote. The "community" must be within the vicinity of the turbine e.g. Wolfville should not vote on a turbine in Greenfield.
- There should be more studies done on the windmills. Most of the people who are interested in leasing or selling their land for these proposed windmills do not live in the areas.
- 700 meters too close to houses, try 2 miles. No subsidies.
- I'm very concerned about wildlife & whether or not it affects them. Also health issues for us - cancer/migraines etc...
- It is very important to insist on good science & not political expedience when making decisions around this and similar issues. Perhaps European experiences along with New Zealand should be examined. Also, perhaps setbacks could be a multiple of the height instead of single values.
- [In the section - how appropriate:] ... all OK areas except in parks
- Do not want them in any area
- wind turbines should be very very far away from where people live

- Turbines are not as "green" as we are led to believe when you take into account the energies used from mining of metals to construct them to instalation of final product. They also use energy to run them when wind is not blowing fast enough. Who has to pay to have turbine dismantled, What do we do with useless tons' of concrete left behind
- I'm all for wind turbines, just not being able to put them so close to dwellings
- I'm glad you're getting public input
- As an alternative to burning coal - wind power is needed. Mitigate the impacts, but don't mind those who exaggerate them!
- This is a chance to lead the way in development and the future. I hope we can establish many wind farms.
- Valuable addition to our renewable energy system
- I am worries about setback and hope that they will adopt the 1000 meter model.
- There is a need to find a way to see the development of large scale wind farms, while respecting nearby properties/landowners.
- I think a turbine should not be closer than 1 square mile to any home. Cecil Connolly 392 Pleasant Valley Rd. Somerset
- sooner the better
- I know this technology is in use in other countries. I expect our municipality would diligently explore studies done in these places & have all the facts before proceeding with this initiative!!
- These turbines should face no further restriction than industrial style agriculture ie mink barns
- The benefits of having ALTERNATIVE power will enhance the economy as well as keeping the county up to date with the times. I've seen towns die where there is no progress (Shelburne). We don't want that here.
- Large wind turbines may be suitable for industrial locations but are not suitable for areas where people live. Consider smaller turbines or solar alternatives.
- Setback should be 10 times height of tip of top mast blade position
- We may have this one chance to set a policy that could affect many people. We need to take the time to do what's right for health and safety issues so we don't live to regret any short term thinking. AT the same time, wind energy is a good thing - so many of our futre may require this energy.
- The County is better suited to small-scale wind turbines with an emphasis on individual and farm self-sufficiency.
- If turbines are placed in Kings County they can and should be situated in remote areas where homeowners are not impacted by their detrimental effects(noise, wildlife impact, reduced property values, light flicker). The owner/ operators can create corridors to carry the energy produced to the grid. Local communities should not subsidize this component of the capital costs by living with the above negative effects and a compromised quality of life. Those who will profit by these turbines should bear these costs. I also suggest that this "pressure" or "push" to create these proposed wind farms is made stronger by the provincial government's legislated mandate for Nova Scotia to have 25% of its required energy be from renewable sources by 2015. This aggressive path is to be applauded however it seems as though the rush to implement is being done on the backs of local property owners and also the tax base of N.S. through the available grants and subsidies to the wind farm operators.
- The seperation distance from occupied homes must be at least 3km. From an aesthec and health & well being point of view this is an absolute. If we are to have a wind farm, nearby residents must be kept informed and happy about Council's decisions.
- Wind power is an excellent source of green energy but the turbines need to be in remote areas without residential populations nearby. It is unfair to subject nearby homeowners to possible health risks, and reduction in property values so that the wind turbine companies can prosper. These companies should have to incur those extra costs to establish turbines in a more remote location.
- Any consideration should require a minimum setback of 5000 meters; why should the public

suffer from these abominations simply for quick buck promoters to save money on using existing infrastructure at the expense of the local citizens

- If wind mills are to be installed they should have a set back of at least 1 mile.
- Living across the street from a proposed site greatly concerns me, for health reasons as well as property value concern. If we do suffer health problems due to the turbine...who will buy our home. I have two children to worry about, and having someone else make the decision about our future for me, concerns me.
- We are not very happy with what may take place here. How can "you" decide what is best for us who have lived here all of our lives!!!
- I don't want them. There extremely bad for my health.
- As per my comment above, I am very concerned about the impact on human health and I do not want to see these turbines in our area.
- Has there ever been a successful class action suit rewarding property owners for reduced property value? What are implications for property values and lost equity? Any recourse if that results? The approach of the developers to date - suspicion and mistrust.
- I hope Kings County Council will take a courageous stand in alternative energy planning. I realize it must be difficult when dealing with only one piece of a total energy plan. And one where there seem to be lots of pressures for adoption of industrial wind turbines. Because, after all, we've assumed that windmills are a good thing--harmless, benign--providing free energy. But of course none of this is true. And Ontario is now being pulled apart by the rural/urban conflict. What is happening in Ontario is horrible. I hope it doesn't happen here. At least here the local councils still have a voice. And I urge you to use this voice to speak on behalf of all current and future citizens in Kings County.
- I am strongly opposed to the installation of large scale wind turbines anywhere in the County of Kings. I think a large turbine would negatively impact residents no matter where it was sited. It's not fair to thrust upon anyone the noise, flicker or visual blight that these massive turbines cause.
- I personally do not feel that any wind turbines should be erected that are within a 25 km radius of any personal dwelling. I have read all the information that is available on the wind turbines to date and I do not see where they are a benefit to anyone, other than those who may financially gain from these towers. There is not enough proven documentation to show how they will truly benefit our economy but could harm people living in the areas that these turbines are erected and decrease our property values. Are you willing to decrease our taxes by 30% if our property values decrease by that amount if wind turbines are erected on the South Mountain. I would also like to know if each one of the Kings County Councillors and the Warden are willing to erect a tower within 700 ft of their properties...or even 2 kms of their personal dwellings...my bet is the answer would be no but they are willing to approve them going elsewhere in the Valley. I think your information mailed out to homes should also highlight more where wind turbines could be located in proximity to their community - asking how we feel about supporting a green initiative is much different than if we would support a wind turbine within 700ft of our house. I think you would have more discussion from other communities in the Valley if individuals living in these communities understood more about where you would approve a wind turbine to be erected. My guess is that you actually had fewer individuals from the Berwick/west end of the Valley attend the information session than in the east end as towers being erected here is now known by a lot more individuals. I would strongly recommend that you continue to send mailings out to every household in Kings County about what is occurring concerning wind turbines as not everyone listens to the local radio, reads the local/provincial newspaper and putting a flyer in with a regular tax bill for example will not appropriately inform everyone of what our council is planning to do on this project.
- there should be interviews done of residents who currently live near wind turbines to hear about their experiences-- from research it shows that 2 km is the best setback from wind turbines to habitable dwellings noise is a very significant problem at distances such as 700 metres or less from a turbine.
- If wind turbines are to proceed in the county, then they should be erected well away - not just a

few hundred metres - but well away, from residential areas. As the interior of the province is least populated, and probably least prone to growth due to lack of resources and infrastructure, if any areas were to be explored, I would think it should be in the interior. Additionally, I am gravely concerned about the impact of wind turbines on the environment, particularly for birds, human health and property values (given that the economy in Nova Scotia is always at risk, it makes little sense to me to further risk what investments people do have here - in many cases, property. I would love to see Nova Scotia and Kings County particularly be a leader in green energy, and go solar. In this region we have more days with sun than in other parts of eastern Canada. Solar is way less of an eye sore, has way less impact on the landscape and sky-scape, and has more public relations value over all. In 20 years our kids will all be asking why we didn't do it sooner, so let's not wait - say no to wind turbines, and yes to solar. Let's be a part of the future for once, and not the past.

- We believe that the more electricity produced the more we sell to the USA, therefore our domestic electricity is still being produced by the burning of fossil fuels, or we use our wind generated electricity and continue to use fossil fuels in order to hold our profit line by selling to the USA.
- Recognize the importance of wind energy but there is more important things to consider - such as our health + safety and that of the wildlife & birds in our community. There is a vast amount of unused land in N.S. that could be used for wind farms without effecting the population. My children & grandchildren don't need these in our backyards!
- Good luck!
- min 8km from dwellings
- not against wind power. Government owns enough crown land away from homes in the woods. Need to spend a little "government money" and put them away from people's homes.
- I think that placing wind turbines a minimum of 700m away from dwellings is too close for the residents. It should be moved to a distance of at least 1000m.
- I would like to see a set back of 2000 metres
- 1. land devaluation is a major concern 2. would like to see set backs at 3000m 3. I do believe in reduced fossil fuels just not in my backyard
- Unless there is compensation for adverse health effects, property values decline, by moving at their expense to an area not affected by wind turbines.
- As residence of these areas we don't want them anywhere near us. Think of the future. What will it be then for the younger generations - who will have enough problems without this problem.
- I feel the community was not informed and feel we are now fighting against something that is a done deal.
- I feel the current set back of 700m is not enough 1500m seems more appropriate. Would like an opportunity to visit the Digby site and see them from different setbacks.
- Kings Co policies and regulations were the last county to come into effect on Jan 19, 2012. if they are continuously under review interested wind developers will be forced to take there projects elsewhere and kings co. will be left with no wind power
- The General Public should make sure they keep well informed about the progress of Wind Turbine projects. We need to reduce our reliance on fossil fuels but not without proper investigation.
- The impacts of this technology on neighbouring communities are so great that the decision to install turbines should not be at the sole discretion of a single land owner. The surrounding communities MUST be part of the decision too.
- More information and more studies need to be done .The one important thing is the 700 m distance is WAY TO CLOSE to houses in our area.Also the wildlife would suffer!
- a good idea when directed in the right land areas, especially good for farmers.
- providing the survey and open houses for public input are good practice leading up to further criteria for selection of sites .

- - Based on this information session I feel current setbacks should be adjusted to at least 1500m's. - Also "as a right" needs to be removed from the by-law. Public consultation is required on these types of matters. Thanks.
- Think they should consider building a wind farm in an unpopulated area instead of scattering our countryside with unsightly huge turbines. Takes away the beauty from our county.
- Very concerned about potential health problems
- Do not put them within 2000m of people's houses! Where they won't affect anyone
- - check with other communities in Canada that have established wind farms. Get feedback from Alberta (for example). 6600' should be the only consideration!
- 700m is too close to family dwellings! One family effected in a negative way, is one family too many! for example health issues, loss of property value, noise, shadow flickering etc etc etc
- Would rather see solar power used Windmills would be very unappealing for our beautiful valley
- It is my understanding these wind turbines are being taken down and being replaced with solar power in some of the European countries. If you have any info to add please feel free to email me. Thanks for the info session.
- Wind turbines are fine, just not in people's back yards!
- The Municipality is taking the right approach by consulting in this fashion with the public. The main concern for me is the fundamental right of citizens to be able to enjoy their properties and residences. The protection of this right is important to me and many other residents.
- I think setback from homes is very important. Sound and vibration flight patterns of migratory birds is very important. Real benefits to surrounding communities need to be weighed carefully prior to any construction.
- There is just not enough research data processed to date. We can't risk health - driving health care costs up. I live in Canada for the beauty, peacefulness, wildlife and love of the land. Why should the majority of a community suffer from ill health, decrease home values, lose our wildlife. We shouldn't.
- Not fair to people living near by. This is a beautiful area. Please don't ruin it! What happens to the turbines when they are finished with them or if they go bankrupt?
- Should be much more than 700 feet from dwellings. Home values, and ability to sell at all are major concerns.
- Should be erected much further than 700. 700 feet is not nearly enough distance from dwellings.
- Setback 1 mile away to any property line.
- I would like to see the infrastructure (wind turbine) far from populated areas away from the view.
- Health and safety issues are very important. The economic impact on neighbours is also important. I support the development of wind energy when it is responsibly and sensitively done.
- Industrial turbines are too big to put less than 1500-2000m from a home, school or health facility. Several young families have thought about moving to Gaspereau area but are now unsure and may choose not to build here.
- I believe our communities need to do everything possible to reduce the dependence on fossil fuels and GHG emissions. Wind is certainly one option to help achieve this goal, and possibly one of the few and significant renewable energy opportunities that the residents of the Valley will have to participate in. To limit or dis-allow larger scale wind turbines would be wrong, as a large opportunity to help achieve this goal would be lost, as would any opportunity for our communities to participate in the ownership and revenues from wind turbines via the NS COMFIT program. I would also caution local politicians and municipal staff to better educate themselves and make rational, informed decisions, and not simply listen to the pandering of local "NIMBYs" and "Google Surfers" who will no doubt attempt to de-rail these efforts using arguments which have never been proven scientifically by peer reviewed science.
- The people that call these wind turbines "green energy" must be the same people that believe the world is going to end in 2012. The projects in Pictou and Colchester Co. have gone ahead

with no respect for the local forests and waterways. They resemble the "martians" from Orsen Wells's story, the war of the worlds. With their night time strobe lights that blind drivers miles away and keep locals awake to the deafening noise levels I see no advantage of these ugly eye sores. Nova Scotia is too small and relies on tourism too heavily to just throw all this beauty away because someone believes this is "green power" I call BULL and no one believes it for a minute. Why not build a couple thousand of these things in Labrador and send the power to nova scotia on the same grid the hydro dam will be using????? I can see it now when a survey is done asking american tourists about what they think of Nova Scotia. " OH< thats the place with all the UGLY WIND MILLS placed all over the place, willy nilly wherever they can suck some stupid land owners to put them.... Rick MOSHER

- there is a possibility to serve the residents and the environment. please consider vertical axis turbines. they do not have the issues that horizontal axis turbines have. specifically, no flicker, noise (buffeting) bird strike, etc. in addition they look like modern sculpture, i recently discovered a company that can permanently imbed an image in the structure so the turbines could be beautiful. also they produce 50% more energy than traditional turbines of comparable size (sweep). i would vigorously oppose horizontal axis turbines but not vertical axis turbines. there are videos on-line where you can see/hear the vertical axis turbines and the difference is HUGE.
- We need to get reliable info on any health effects - but then we need to compare those effects to the effects of continuing to burn coal for our power.
- The province and/or counties should be more deeply involved in tidal generation of electricity. The wind turbine bylaws as they stand now do not protect the interests of the residents of an area. The distance from residential homes (700 meters) is far too close given the height of these units. A distance of a minimum of 1500 meters if not farther should be considered. There is enough wilderness land in the county to place the turbines in remote locations that will have limited or no impact on residents. I see no gain in the generation of electricity by wind as the cost for electricity will remain the same or increase to cover the cost of installation.
- It is my opinion that too much media hype has been created over the health and safety aspects of wind turbines. Properly sited with sufficient set-back from habitable buildings, wind turbines do not pose a significant health or safety hazard to humans. The issue of turbine noise has been overstated and even the Sierra Club states so in its 2011 report.
- In summary: 1 - I don't mind the sight of wind turbines 2 - Wind turbines should be allowed only where they don't disturb people with shadow-flicker and noise. 3 - Minimum distance from dwellings should not be a fixed distance for all generators, but one dependent on their height (both for safety and shadow-flicker), their location with respect to the sun and the dwelling (to do with shadow-flicker), and the amount of noise they produce. As on the noise guidelines from the Ministry of the Environment of Ontario, distance should also depend on the number of turbines (according to wikipedia article mentioned further down). 4 - There are ways to decrease the noise from wind turbines. If companies use them, distance from nearest dwelling could be minimized, provided that it is far enough to avoid shadow-flicker and safety concerns of falling ice, falling tower or falling blades. I am very much in favour of "green energy" and think that both Nova Scotia and Canada should be doing a lot more about reducing greenhouse gas emissions and about reducing our dependency on foreign fuel and energy sources. That said, I have a number of comments about allowing large wind turbines in Kings County. I've read that some people complain about "shadow flicker" caused by rotating turbine blades. Because of this, I think, that turbines should be placed far enough from any residence so that the turbine tower and the blades do not cause any shadows on the residence. There are also a lot of reports of the noise being bothersome. All kinds of noise bother me greatly; even just the fridge noise, a car parking or idling next door, or the beep of someone locking or unlocking a car door electronically affect me. I think that wind turbine noise near my home would bother me. Wind turbines should have to be far enough from any residence so that the sound is not audible. The wikipedia article http://en.wikipedia.org/wiki/Environmental_effects_of_wind_power states that: "Research by Stefan Oerlemans for the University of Twente and the Dutch National Aerospace Laboratory suggests that noise from existing wind turbines may be reducible by up to half by adding "saw teeth" to the trailing edges of the blades, although research is not complete." I also wonder

whether anti-noise (active noise control) devices could cancel turbine noise; it seems to me that it might make sense to have such machines on the turbine blades, to cancel the noise where it is produced. The county (or the province), should also have regulations similar to those by the Ministry of the Environment of the Province of Ontario, mentioned in section "Noise" in the same wikipedia article. Better yet, someone should study the regulations about noise and distances from every province, state, and country that has them, and the strictest should be chosen for this county. As for aesthetics, in my opinion, wind turbines look beautiful and elegant. I remember, as a child in Portugal, spending the time on a long car trip looking for windmills and pointing them out to my siblings; those windmills have been discontinued, being replaced by more efficient methods of grinding grain into flour. Perhaps future children will spend their traveling time counting wind turbines. Awaiting the sight of wind turbines, Mary Jo Graça

- This is a VERY contentious issue. It should go to a plebiscite. More effort should be put into harnessing solar power, but if we go to wind power it should be owned, operated, and maintained by a government authority not by the private sector.
- Unfortunately big government is usually in bed with big business. Here in Ontario there was a huge backlash in recent provincial election. Our Green Energy Act being the big bone of contention. It is top down dictatorship removing all local input. Liberal government has been in bed with Samsung. Someone other than the folks on ground are making money. Property values have plummeted. Health problems are rampant for those living near turbines. Well documented on various websites but you need to educate yourself. Make a bold stance and keep turbines out. Europe is already dismantling theirs which have been up for quite a long time. They produced very little electricity, and gasfired plants must be built to offset non wind times. Look to other green solutions because this isn't it. Your survey shows me that you have already bought into wind as 'green', you have bought the lines of wind companies and that is unfortunate.
- I have seen and lived by "Wind Farms" all over the world. From the many wind farms in Europe to the Large wind turbine farms in the California desert near Palm Springs. The story always seems to be the same. Loud objections and fear mongering by special interest groups that need to justify their existence at every opportunity, such as some environmentalists groups. If the project proceeds and the wind turbines are put up the objections and complaints cease and the many numerous benefits start and last for decades. Many find after they are erected they actually enhance the topography .Some areas experience the bonus benefit of increased tourism. In my book it is a case of many many benefits and few if any real downsides. Electricity produced without the pollution that causes sickness and disease.....Electricity produced without blocking the sunlight with its dark smelly lung choking cloudsElectricity produced without killing the fish population of our rivers, streams and ocean shores. Electricity produced without the fear of killing thousands or possibly millions of people because of a mistake that leads to a meltdown and the destruction of an area for a thousand years due to the nuclear ruin of that area. What a concept !! Build those farms and save our children from many of the problems we have faced in the name of producing energy.
- Thank You
- We need wind turbines to produce clean green power!... People need to get over the whole "not in my backyard" view of this. If I could afford to put up one I would be right on it.
- We need to take a "precautionary'approach in terms of locating large wind towers.It seems to me by definition they should be located as far as possible from areas where people live.If this requires an extra investment in the electrical grid to reach isolated ares with adequate wind potential. I think the fact that wind towers have become so tall in relativly recent years is a concern in that the aspects of how they may affect human health are a major concern.On that basis we need to make sure we follow a very conservative path in locating them.Ideally they should be a minimum of 10 km from human habitation.I believe this is the WHO standard at this time.
- People health should take preference over being green
- I would urge Council to promote and support wind power projects, especially on North and South Mountain, where it's windy. You can start with my place. Please don't let alarmists block

these projects with “information” that is not based on fact. We have got to move away from fossil fuels! Why is it that people are so afraid of change? And why is a visitor like Anne Murray allowed to broadcast her NIMBY vote? I would think it great to play golf among the windmills (except that I don't play golf). I'd love to garden there, for sure, and as we saw on PEI, the noise is not significant. In my opinion, 700-1000 meter setbacks are more than ample.

- Before Kings Co does anything they should investigate what happened to the Daniel d'Entremont family of Pubnico Point NS at Wind Turbine Syndrome at www.windturbinesyndrome.com
- I have been involved with Power-Cable installations on Wind Turbine Projects in the past. It is my opinion that this type of technology should be further developed to encourage manufacturing of all components here in Eastern Canada and procurement of sites for future Turbine locations prior to "Urban Sprawl" being an issue. Best of Luck, Bob Neily
- I have visited Holland last year, they have large turbines EVERYWHERE!! Why do we need more study? They work, and they are not harmful! I also lived near a community in Manitoba for six years that had lots of them, and they are good for the area!! T H.
- People need to get with the times!! With everyone crying we need to "Go Green" on the one hand (which is the way of the future); and yet, on the other hand, complaining with the refrain "Not in My Back Yard!"...you just can't please them all! It would be impossible for everyone to be happy, the world just doesn't work like that. It's like everything else in this world -- it's coming whether we like it or not, it's a most viable option to be had, so why not embrace change instead of fighting it every step of the way? My two cents...
- The previous pages about 'appropriateness' have little in the way of information/consideration about size of turbines, as to appropriate locations. The Valley floor, or even the mountains need to be developed with appropriate sizes in mind, not just a large industrialized swath of turbines to maximize return on investment. This 'industrial-sized' development continues to impact our environments negatively, be it about sustainable energy, aquaculture, agriculture, high-rise buildings (in urban areas) and so on. Community originated, sustainable development, that has local investment and payoffs is what is needed for consideration. For a 25 to 100 kW turbine on a farm or rural residence could be appropriate, depending on the setback from neighbours ... or likely a variety of considerations. I also know there are many people who are not interested in seeing these behemoths in their site line. Putting wind turbines on the Blomidon/Cape Split Peninsula would fall under this category for me. (This would also be true of the tidal power turbines sticking out of the Minas Channel, but that's another discussion.) It also seems that some people are more negatively impacted by wind turbines than others. I am not sure why this is, but there is compelling evidence that speaks to this and needs to be considered in any development plan.
- I think that some of the concerns raised (i.e. noise) are valid, and need to be examined closely. But I do feel that the concerns about esthetics (how they look) are a bit over the top. We need to expand our use of renewable energy sources, and reduce our impact on the Earth's climate. Our reliance on fossil fuels has put our world in serious jeopardy, and we need to look at alternatives, like wind power. And I think the wind turbines are much prettier than a world where our environment has been ruined.
- This would ruin our community with no real benefit other than profits for someone.
- I am totally against this mad rush to impose large scale wind farms in this community. It will devalue every property that has a sight of it. It is not as efficient a source of power as promoted and the imposition of the structures would have a negative irreversible impact that out-weighs the benefits to both the community and the environment.
- Please see what is happening in Cumberland County, Pugwash area to understand the type of concerns local citizens have about wind mill farms. The municipality will want to reconsider it 700m distance limit from dwellings. From multiple discussion with other groups in the Maritimes, and still ongoing research, this distance is not sufficient when we are considering wind mill farms. Small to medium size individuals wind mills may be within 700m or at that distance. Fear of the still unknown impacts reflect that people are not comfortable with wind mill farms within 1 to 2 km of dwellings. Yes, it is true people can adjust, like they do with airports, highways, and nuclear power plants. However, there are still impacts unknown, and at this early

development stage it may be best to be cautious, and after several years of exploiting wind energy in the valley, then we will have the expertise to try smaller distances, or different approaches. There should be NO EXPROPRIATION of any resident and NO INTIMIDATION of any resident in the name of developing wind mill farms. The Municipality must see to the protection of its residents' rights through the process, encourage debate, information sharing from ALL POINTS OF VIEW, and safe public hearing environments. Thank you.

- I have lived in many places where these have been and never been bothered by them - You actually get use to them being there and notice if one isn't up to par and can report it. People will always fight change - but this one is a win / win to all involved. I personally would have them on our farm if I could afford to have them. Thanks for caring about the future!!!

- When you see gas prices of \$1.37 per litre, and read of the unrest in the middle east, you know the gas mogels will not let those gas prices come down anytime soon. We have to realize that alternate sources of energy are a MUST for us in NS. In Eastern Canada, and especially the "trainless" Annapolis Valley, we do not have the luxury of using Alberta's energy sources or our own off shore natural gas. Developing these wind farms will take time and during that time we will still be paying hefty prices for energy. In rural Kings Co. we don't have public transportation and few people these days can use the very inconvenient and poorly scheduled, Kings Transit, to go to and from work to save on fuel costs. Our wage scales in NS are lower but costs of everything are higher. Many small businesses will not be able to absorb the extra energy costs as well as the extra minimum wage costs and they will close, putting lots of people out of work. Budgets will be stretched to the max and beyond. Maybe it's time the "bleeding hearts" coughed up extra cash to help the working poor, low income seniors and struggling small businesses in our county heat their homes and businesses. Maybe then, they would realize that some sacrifices have to be made! This is not a perfect world. For sure the "bleeding hearts" will be the first in line to complain about higher property taxes and costs of food and energy. Holland has wind energy and has had it for generations. It is clean, renewable and hopefully cheap. I do worry about the cost of the turbines and how long it will take to recoup those costs and see a decrease in our energy costs. I am also concerned that Kings Co. will set up wind farms, but the energy will be sold off to other areas first, leaving us with the "uglies" AND still paying high prices for our energy use. Is there a way that "our" wind energy can be used by us first at low cost and the remainder then sold? I would imagine it will be several years yet before anything becomes available. It's time to tighten the belts, AGAIN. Council, you were elected to represent us ALL, don't let a dozen or so vocal wet blankets misdirect you from helping us achieve lower energy costs in the future! Thanks for your efforts on our behalf. I'll be going to the meetings and look forward to more information from you. Cheers. Marg D.

- Turbines were given the go ahead on Digby Neck by our Municipal Council 2 years before the residents knew about it. They ARE causing health problems, noise is unbearable, they are absolutely not pretty to look at, and other countries are now saying they are not as efficient as they were publicized to be. It is just a greedy money making scheme for certain companies and should not be allowed in residential areas.

- if we can do anything to stop rising electric i think we should be doing it.

- wind technology should be encouraged but keep in mind it does not provide a "baseload supply" required by the industry. Why is there no informed discussion on nuclear energy. The only source that meets all our needs

- It is very important that the Municipality moves forward to embrace renewable energy technology. This must be done with public involvement, therefore I congratulate you on your decision to carry out this survey. Wind generators should be kept small, and be placed away from our \$billion scenic views, and as far away from present human habitation. A wind turbine can be quite beautiful in appearance, if placed in the proper spot. I have seen them, ideally placed, where they reminded me of giant dancers slowly performing a graceful and elegant ballet. No decisions should be made concerning wind turbines, before photovoltaic technology is also weighed in to the process. Modern photovoltaics can provide clean (& silent!) electrical power at 6.6 cents per kilowatt-hour in Nova Scotia.

- They should be kept well back from houses until they are proven 100% safe, and not before this.

- I firmly believe that wind turbines will be detrimental to my community. Where the current test turbine sits is less than 1 km away from my house. Through many hours spent researching this topic I have found that by placing large scale turbines in this area I stand to potentially lose many things (health, a property that I have worked hard for, community) It is often people who do not have invested interest in communities that choose to make these decisions. The proposed location of the turbine is on land that is not owned by someone who resides in the community but is rather looking for use of his land when it did not sell. It is purely for monetary gain and not for the benefit of the community. I do my part to be green but there are many other ways to look after the environment that prevent my community from being impacted.
- I think that the wind turbines are an excellent "green" resource and they should not be discouraged.
- We took a lead role in recycling and now we need to get on the ball when it comes to sustainable energy creation. Anyone who uses a "property value" argument against wind turbines is just showing that they don't give a damn about the environment or others.
- I am looking forward to going to the open house/meeting in South Berwick. I am very interested to see what kind of a policy we can develop re: Wind Turbines. Taking into consideration the many factors in play here... There has to be some kind of a balance... We need to reduce our dependency on fossil fuels.... but at what price?? We have to ensure that the policy that ends up from this process is fair/open and benefits all the residents. I don't believe a "blanket" policy will work... each case has to be judged on its own merits....
- Wind turbines might give the green movement a warm touchy feeling but they cannot replace fossil fuel as they will always require a fossil fuel generated backup system. Europe is retreating away from solar and wind generated energy systems as fast as they can - look at Germany and Spain for example. The subsidy cost is horrendous and we are already seeing it in this province as our power billings go up continually as we are forced to pay for this mistake. On the other hand, if it is intended as a make work project the optics become worse as, once up, these horrors employ almost no one.
- If any of these projects go ahead - how are the components of the turbines going to be delivered? I understand that each section of the tower is 100ft long. How long of a truck would be required to haul that? Can such a long truck turn the corners around here? Will these heavy loads further tear up our already damaged roads?
- Re: noise concern: Without being exposed to these turbines how would one have any concern. I have personally stood directly under a large turbine and would never know the blades were turning. Technology is becoming more efficient as far as noise is concerned. Shadow flicker would only be of concern if turbine was erected in your back yard.
- I have great concerns about Wind Turbines. Mostly location. I have read numerous articles on the health concerns with the Turbines being set up too close to communities. I don't understand why this is happening when there are ideal places away from residential areas. If this is a decision that must be made through the Municipality, I would think it would be a no-brainer. Put them far, far away from residential areas!
- Power lines are ugly too, and there are documented health risks to the infrastructure around power transmission. Coal mines, hydro-electric and nuclear are all ugly and dangerous. Apply the same standard to wind power. Concerns about ruining the view and sight-scapes are selfish and short-sighted. Our society can't survive on tourism alone. People are always afraid of things they perceive as new. Seek advice of experts; public opinion is after all, only "opinion".
- Practice Due Diligence and I know that this is part of what this exercise is about. I realize that you cannot keep 100% of the people happy but from the current experiences and the reported issues that have come forth from other North American installations --learn from these lessons. Once these things are understood then go the next step by going an extra mile and embellishing those issues and concerns such as the distance for both noise and the safety concerns. What effects that it has with the surrounding community - you do not want to lower the value of someone's hard earned built equity. Concerns like the strobe-light affect how to best deal with that and not ignore it. Study and explore animal activity in the area are there endangered species or important flight paths or could water environments be affected, do the necessary

field research. Be proactive and keep the community informed. Above all, do not let greed be the driving force and others want to see some care and thought given to our local and global environment and collective conscience of people do need to be part of this development. Thanks for listening to me on my soapbox. I realize that I am overstating the obvious. These and other concerns that come forward will require the same consideration. I do welcome a safe and clean power alternative but not at the risk of disturbing an important food belt area. Respectfully Submitted. David Morris

- Peck Meadow Road in Greenfield has been my home for forty -seven years. I'm having a wonderful life here. I take great pride for being able to provide myself and family with the food we eat ,the water we drink and the heat we use,all come off our land. I'm an avid gardener and love outdoor activities, all four seasons of the year. I live in harmony with nature. I live a quiet and peaceful life with my family .I know all of my neighbours and we are in close proximity of each other. When I saw the met tower from my home I was shocked.I investigated to why it was there and was extremely upset to find out the reason . The land owner nor the developer live in this community, so they will not be effected by the possible negative impact it could have on this community. We were never informed anything about this project before the test tower went up,without a permit I might add. I relate this to catching a fish or shooting a deer without a licence.If I got caught I know I would be charged and fined. When the petition, from the community, was sent into Comfit ,we were told by Krystal Therien administrator of Comfit ,that was all it would take to stop the Greenfield project because the lack of community support.Now she is saying they are making policy to deal with this.They keep moving the goal posts. We need the separation distance at least 2-3 kms from our homes. There should be community consultation and a bond for the decommissioning required by council before construction begins. The Municipal council have been supplied with enough documented studies to know the possible ramifications if wind turbines are to close to our homes. . I'm so afraid that if the proposed Greenfield site becomes reality and I am effected by the noise and flicker and etc I would not have the option to move .If I couldn't sell my home and have no money ,what would I do but suffer, for the rest of my life. Put yourself in my shoes. I am in the twilight years of my life.I pray that I will be able to spend it in the peace and quiet that I have known for the 47 years of my life that I've lived here.. Thank you council for reviewing the present bylaws,I am extremely grateful and pray that we will be able to live with the decision that you make on our behalf. The separation distance from our homes is the key to resolving this issue.
- I have lived on Peck Meadow Road in Greenfield all of my 77years.I was born in the house where I live today. My father, grandfather and I have raised our families in this house. I am proud to say that I live off of this land, by growing fruit and vegetables,hunting and fishing and my wood lot supplies my heat.I have peace and contentment here.What more could one ask for in life. I take pride in the appearance of my property. My neighbours live close by and choose to live quiet rural life in harmony with nature. The beauty in this rural community is an individual thing. We all see beauty in different ways.Personnally when I can go for a long hike through the woods and hear birds singing, squirrels scampering about,here partridge drumming, white tail deer protecting their young, a gaggle of geese flying over head honking their message,this is priceless to me. I can look out my windows in any direction ,as far as the eye can see,without any obstructions.There are no high rise buildings ,no noise pollution from industrial sites.Sometimes I can hear the sound of a power saw in the distance,someone preparing for the coming winter or clearing a piece of land to build their dream home.This is why I live where I do. There is absolutely no place on this Peck Meadow Road or any other road in Greenfield for a 400 foot+ size industrial size wind turbine.The close proximity of the houses to the site, in question, makes it unexceptable for industrial development. The almost certainty of noise pollution, shadow flicker and many health concerns make this site unexceptable. The land owner and the developer has never .lived in this community and probably never will. I am asking the our Municipal Government to amend our current LSWT bylaw from a 700 m setback to at least 2 -3 km separation from inhabital buildings. I'm also asking for a decommissioning bond to be in place upon application to the County and an environmental assessment regardless of the size of the turbine. I would like to thank you for reviewing the bylaw and I am praying ,everyday, that you will make wise decisions ,that I can live with for the

rest of life, on my behalf. Thank you

- I think that they are a great idea, They are one of the cleanest, greenest forms of electricity there is so far. I have never heard of the wind hurting anyone, and if the towers are maintained properly so that they do not fly apart when in use they will make lots of electricity. The people in the Valley do not want progress. I have heard that out of their own mouths. Look at the 101 Hwy. It is still not twined through to Yarmouth. It has taken decades to get to where it is now. NS needs to keep up with the times and the turbines are a good step forward. Forget the past and look to the future.
- I hope you get a large number of filled questionnaires and attendance at meetings. I appreciate the opportunity for input. I like how the meeting times allow for more 1on1 .input. not just an open forum where people are not willing to open up. Many have good info, concerns and opinions. I trust these will be considered and the municipality will not be solely influenced by big \$ players. Thank you.
- Please take a moment to sit down and consider the affects on all. Whether you happen to live in a community where these monsters are possibly going up, or you know of someone who is opposed because of the lack of factual information. There isn't concrete evidence that can make me feel that having these wind turbines close to any community is a good decision! Don't just think of the financial benefit, think of the life long, no going back because your communities are dead - you have chased everyone and everything away. This will have a HUGE impact on everyone, more than we know. Please consider ALL sides of this heated subject, and do not make a rash decision until you feel 100% informed about a decision that is being made, that will ultimately affect many.
- Given the negative impacts associated with wind turbines, the use of this energy type should not be considered anywhere near populated areas or in areas of a WATERSHED where wildlife, particularly salmonids, are vulnerable to disruption in reproduction and life patterns. It is also very disturbing that a test turbine was erected in Greenfield without the prior knowledge of the community, including the STAKEHOLDERS living outside the immediate community. I have to wonder how council, particularly planning, allowed the erection of the turbine without community hearings or environmental and social economic impact assessment. In view of the huge impact these turbines produce within the community, there should be a proper series of steps required prior to granting approval for erection and implementation of turbine energy. Kings council needs to take responsibility and show a proactive engagement in planning for alternate energy and it is my hope and believe that this issue will become a major issue leading into the next election of council. The citizens of Kings need to be considered and represented properly and this has not happened, in regards this particular issue.
- We have many locations in Kings County, mainly on the North Mountain. Nova Scotia must get off oil and coal. We must protect the future.
- I have researched this on the internet. There are other types of wind turbines which are in the shape of a very large cylinders which do not have the awful side-effects of 400 foot wind turbines. These cylinders have several cupped fan blades which lay horizontally and which are encased in mesh. There is very little noise and there is no danger to birds. They can sit atop of built structures so that the massive infrastructure required for the conventional turbines is not required. I also think that small scale wind-mills, like were used and became a symbol of Holland, say, are a much more human-scale option. Big business stands to gain too much from these large turbines through Government grants and tax depreciations. These turbines are dangerous to health, to communities, to neighbourhoods and to the environment. Their presence will ruin our beautiful valley.
- Our reliance on fossil fuels must end Our current electrical needs are controlled by investors far away and they show no concern for the financial health of the Nova Scotia economy or for the financial stability of its citizens. If wind turbines provide cost benefits to the customers, such as reduced electric bills, I believe we will have more jobs due to a more inviting business investment environment. Nova Scotians are increasingly cutting their personal budgets for the higher costs of services such as petroleum and electricity and food. Let's seriously consider this alternative.
- My personal findings show that there is a grain of truth in both the pros and the cons of wind

power. The North Mountain maybe more ideal for a Tidal energy project with clean energy production. Tidal energy is one of the oldest forms of energy used by society. What are good areas for exploiting tidal energy in Kings County - Black Rock, Canada Creek, Chipman Brook, Halls Harbour area, Harbourville etc. But, I would not exclude wind power for personal property but, a large scale project No!. I donot support the idea of supporting Emera with anymore tax incentives with the injection of taxpayers money. I feel we may have more Wind Energy Cons than pros in Kings County. Europe has been producing energy from wind for years, especially Germany, Spain, Denmark and France but, Kings County is not Europe. I read the same tea leaves as did Councillor Wayne Atwater and I don't think Kings County residents want wind turbines. Respectfully Submitted; Jason Langille Black Rock

- Why not put them near the water where there is plenty of wind and most people dont live on the water on the Noth shore.
- I don't think providing a few temporary jobs is worth defacing one of the most beautiful areas of this province. Through experience and extensive travel I would go so far as to this area rates one of the most beautiful on this planet! These turbines are ugly and to cut just one tree to be replaced by a turbine would be a crime against nature. Will some people make big bucks? Yes, and we know who! Will our power bills be reduced? We all know the answer to that - NO!
- All projects need to involve input from the local citizens who are within visual and noise distances from the turbines. Locals should be encouraged to investor in these projects.
- I hope that cooler heads and proven facts prevail on all sides. I do not want to see this important issue become a major community battle. Providing an opportunity for community financial involvement in projects would help with the general level of acceptance.
- I know one of our neighbours has a tower on his land to measure the wind capacity and gather other data, to see if the area is viable (physically) for the wind turbines. He probably thinks it's a great idea since the government is paying him for it, but if this goes ahead, let's see what happens to his health and that of his family, and neighbours . . . then he'll see how great they are, and wish he hadn't allowed this initial step. I have been doing my research and I do not want any of these wind turbines in our community, as I know the effects that they can have on human health.
- Should a windmill negatively effect the value of my property, who is liable? Do I sue the municipality, the land owner(s), or Emira for damages? Restitution should be a financial consideration of the municipality of the County of King's before further investment is made. With the almost limitless potential to generate power from the Bay of Fundy, windmills seem like nothing short of a waste of time and tax payer's money. I cannot understand why power could not be generated from the multiple tributaries that also flow into the Bay of Fundy. Coastal inlets and harbours are very numerous in our county and provide incredible potential for pwr generation through the daming of the water. These tributaries typically flow to the Bay of Fundy through a vault formation thus further facilitating the generation of pwr. I do believe in green pwr, I just do not believe that windmills are the way. I am a young man with hopefully many more years ahead of me, and I don't want a future where we are all saddled with only windmills, and regrets. As a voter, tax payer, and property owner I thank you for giving me this forum to express my views, I can only hope that you heed my advice. Thank you very much, Bobby R. Foley ps. If you wish to discuss further any of my thoughts or ideas, please do not hesitate to call. :)
- I think renewal energy and especially wind turbines are a way to go in the future.
- Wind turbines are an absolute blot on the landscape. They create significant noise and vibration which has been proven to adversely impact on health. They have been known to catch light and explode. The benefits are absolutely minimal, when considering the cost and energy involved in erecting and maintaining them. Check out the popularity and benefits experienced in European countries. This is a beautiful part of Canada and should not be ruined. Tidal power seems to be far more beneficial for so many reasons.
- I am pleased you are giving me a chance to comment on this.
- The set back from residents is clearly not enough. Instead of 700 meters, it should be 3 to 5 km. Don't build them if that cant happen..the county really should be looking at solar!

- It is incumbent on the County to use best (worldwide) practice for determining minimum setbacks and in instructing developers in requisite consultation. The Visual impact is less critical than the noise and health concerns. Best practice MUST be pursued. Surely there is no need for Kings to repeat the mistakes of other jurisdictions.
- First, I DO NOT support wind turbines to make someone money. I DO support wind turbines only if their use decreases consumption of fossil fuels for energy generation. Second, location of wind machines requires MUCH consideration. The windiest location is very important, but impact on established communities, even one family, is very important. These towering things devalue all property from which the thing can be seen, inside a two-3 mile radius, some radius. A flock of these things seen at 20 miles is a harmless spectacle, maybe. Still, weird. Third, I am intensely concerned about bird mortality. I would halt all further erections of towers till a solution to protect birds was found. The only reason such protection does not exist, humans have not valued birds enough to make such protection a priority. No one has ever tried to find a solution.
- I have concerns about the future not only for us but my children and grandchildren. I have heard nothing that makes me believe there will be none. Even the company themselves must not be completely sure because why would land owners need to sign gag orders. I think a few miles distance between the turbines and homes shouldn't make that much difference to the companies except maybe costs them more for roads and lines but that's a small price to someone's health.
- I am appalled at even the possibility of a large-scale wind turbine farm in Kings County - especially since the ones that are currently in progress are so close to local residential properties and to working animal farms!! Human health concerns and risks, as well as potential risks to wildlife - either perceived or real - should be considered BEFORE allowing any kind of industrial enterprise such as this to be set up. As a scientist (I am a biologist and teacher), I am well aware of the necessity for scientific evidence to ascertain the actual risks of any new technology. However, as a citizen, I am sick and tired of industry using this scientific aspect of new technologies having no "proof" of causing any detriment to human health and wildlife. It takes years to gather evidence and prove any aspect of a scientific undertaking (science actually disproves a hypothesis). Err on the side of caution and DO NOT allow large-scale wind turbines in Kings County until the evidence is in. One does not need to be a "rocket scientist" to understand that the risks in these ventures outweigh the overall benefits - either way, the taxpayer, pays, one way or another - first by subsidizing this industry on a massive scale, and secondly by suffering serious and debilitating health consequences (which taxpayers also fund in the treatment of illnesses, as well as economically by the decrease in productivity at work and lost work days), as well as serious property devaluation, and even property abandonment. I am also sick and tired of funding industry with my taxpayer dollars, especially when the enterprise at hand is so obviously economically flawed from the outset. If it was not flawed, you can be sure that the developers would be putting in their own money to fund such enterprises, and then reap any rewards. As it is with these large-scale wind turbine projects, they are not economically viable, they are not environmentally viable, and they are not human-health viable. When will government, at all levels, actually listen to the people that put them in office - government is supposed to represent its citizens - please listen to what we want, and to what we do not want. The argument that most citizens do not oppose large-scale wind turbines is misleading - you have absolutely no idea if people oppose or not, unless those people stand up and tell you. Not receiving any opposition does not imply acceptance. I am telling you that I oppose the installation, operation and maintenance of large-scale wind turbines in Kings County. I, absolutely, DO NOT SUPPORT large-scale wind turbines in Kings County. As a concerned citizen, productive member of society, and as a taxpayer, I expect my comments to be read and my voice to be heard. Sincerely Jane Bailey Resident of Sunken Lake, Kings County
- The expense of good consultation would be very costly to get these turbines to the [unknown]. Large wind turbines on the south and north side of the valley floor would in my opinion would be unhealthy and unsightly. Please think about the effects these large turbines would have on the Valley during snow storms, ice storms. To have the large turbines installed far enough distance from the population as to have no effects on health, I can't imagine where they could be installed. Please take the stand and don't allow wind turbines in Kings County at all. Please

think about the beauty valley offers tourists.

- The proposed site of the wind turbine is across from our house. We will be greatly effected by this, both and most importantly, in our health and well being, and by decreased property value. The shadow alone coming in our windows is great cause of concern. The noise from this will drive us crazy. The whole community is at risk. Although I am not against the construction of wind turbines, I believe they need to be constructed where there are no residential properties. You must realize that with the amount of outcry from community members, there has got to be cause for concern. At the very least, more study has to be done on the effects on humans. On our health and well being, as well as that of wild life. Please vote against the construction of the wind turbines in any residential area. Thank you.
- I am from the Annapolis Valley but currently work on Wind Turbines as well as live by them in Summerside PEI. I have experienced no negative affects from living in close proximity to them. There are some things that may annoy people about them like flicker, a problem which can easily be avoided by shutting the machines down for 20 minutes in the morning and 20 minutes in the late evening. Birds aren't really an issue if proper siting is used, house cats kill more birds than turbines, and bats are only a problem in Alberta certain times of the year where the machines are shut down during the bat migration to avoid the bats exploding from barotrauma. Blade icing can be avoided if the operator shuts the machine down during certain weather conditions. Wind Turbine Syndrome has no scientific backing, the root of the problem lies in people not liking the appearance of the turbines believing it takes away from property value or it is just older people scared of change. If we were to give into this we would still be using whale oil. There are ways around all of the issues at hand if the proper siting and operation is practiced. I work on these machines on PEI and I know them fairly well, they are a great way to generate power and ween off of the depleting supply of fossil fuels. I would love to see them in the Annapolis Valley as I would someday like to return to the Annapolis Valley to work on them. It would create jobs for people like me who had to leave to make a decent living.
- I have a concern about the soil and/or bedrock which contain uranium deposits being disturbed for the base of the wind turbine structure. We don't need our well water contaminated with uranium run off from a wind turbine site. Some areas of North and/or South Mountain can have uranium deposits in the soil or bedrock.
- Lets slow down and think of future generations. Will the be a Garden of Eden for our unborn generations ? As far as the developer goes: "If you had six yauchts you could only sail on one at a time!
- I am curious about whether the county has any way at all of determining whether this online survey has been submitted more than once by the same person. For example, I submitted my survey last night. Today I am submitting the form on a different computer. Can you identify that this is a duplicate submission? If not, then how do you plan to deal with the possibility that a less-than-scrupulous individual could complete the form many times, with minor variations, giving the impression that one point of view was far more common than it actually is? I would appreciate a response to this question. Sincerely Hugh Chipman hugh.chipman@gmail.com
- I feel that these developements should be strongly regulated by feds to provide minimum national standards that are then refined provincially and municipally to accomodate local needs. We are gambling by allowing private enterprise to lead the way. N.S. in particular should be looking long term at offshore developement of such proposals and yes it will cost more up front in investment ...but good well thought out planning is needed and we should bite the bullet in terms of costs bit by bit and do this job properly ...it will pay off in the long run and avoid many unseen pitfalls that will arise from the present rush to develop and "profit" from least cost alternatives. Bill Crowson P.Eng. (retd)
- It is important to study and learn from the wind experience in Europe. Industrial parks should be considered for locations.
- I have a number of concerns about large-scale wind power. Although it seems like an effective form of alternative energy, I am concerned about setbacks, and also the total, long-term cost of such very large scale projects. I wonder whether the county will have the authority to stop such projects if they later don't work out well. Is the county doing enough to encourage smaller-scale projects? Or other forms of green energy? I hope that the county will proceed with caution in

encouraging these projects.

- It is ever-so important that we work together to wean our society off fossil-fuels. Energy conservation is key, as is how we produce (source) our energy. We very much need to look at transportation as an energy concern, and should stop asking the province for more highway expansion (i.e. stop 'twinning') and look at more public transportation. As far as electrical production, giant industrial wind turbines may be part of our future, provided that these units are placed where no harm is caused (i.e. offshore). Instead of giant wind-turbines, Kings County should relax its laws which limit the use of small wind-generators. The most important change of future planning, however, should be in the acceptance of photovoltaics (electricity-producing panels). This technology can now produce electrical power at 6.5 cents/ kilowatt-hour. We need to take this into our future planning.
- use of crown land if available
- Communities should have the right to prevent wind turbine construction within their communities - no other community or body should be able to override the wishes of any other community. There is lots of vacant & remote, crown-owned, land which could be used. Setbacks should be a minimum 1500 meters from the property line of any dissenting landowner, not just from a habitable dwelling. For this reason, ALL areas are potentially inappropriate.
- I feel that wind energy projects created by private enterprise will create an economic boom for our province. If brought to its full potential this industry will create thousands of badly needed long term jobs for rural N.S. Maybe then the trend of outmigration & the potential implosion of our villages & towns can be both reversed & avoided. It should also be noted that the monopoly NSP has in this province must be eliminated. This situation continues to hamper the growth of what should be one of Nova Scotia's largest industries. The export of power from this province can realise prosperity for many Nova Scotians & our government's coffers if done properly!.
- We do not want any wind turbines in our community. It has been proven that wind turbines affect the health of the people and animals even up to 10 km away. We moved to the country to enjoy the peace and quiet of country living and to enjoy the nature and animal life here. It will all be destroyed and our health will be affected if wind turbines come to this area. We are not against green energy. But put these turbines in remote areas, not in or near communities.
- I feel it is absolutely necessary that all communities start investigating Wind (as well as Solar) as a viable source of energy in the future. We should also be trying to diversify energy generation and get away from having to rely on one Power Company (i.e NS Power) for generating and distributing power. I believe that Germany has done this and anyone there can generate power and feed it back into the power grid for general consumption. From what I understand the German approach would be ideal for a country like Canada and especially appropriate for a sparsely populated province like N.S.
- I don't believe for a minute that the people should be sacrificed for business interests that are out to make a dollar. I believe there has to be a moratorium on any development near to residences where people live. The stories are there from across the country and from around the world. Be informed from a global perspective and thoroughly investigate your primary sources. I believe there are more questions than answers at this time. What would be the comprehensive long term plans of the County to deal with these machines from the time they are installed until the time they are decommissioned? Even before these questions, is the one main question of why in the world would anyone want to construct these machines near to residences where there are serious concerns about human health? The well being of the people must be the top priority of Kings County. It's okay to say NO to the provincial government's agenda for this and to private business who will ultimately make huge financial gains on this. I don't believe for a minute that money will come back to the ordinary citizens of Kings County. Our power bills won't be decreasing because of it. But maybe our health will suffer because of the pollution from these machines. Very thoughtful consideration and investigation must be done before any of these machines are built. We should be able to learn from others' experiences to do a better job for our people and for our beautiful environment here in Kings County.

- The use of any green technology to make the energy required for today's living should be used to its utmost to help us get off the dirtier, more politically charged oil.
- I feel the wind turbines should have a set back from houses of 1,400M - let's not have another Pubnico incident!!
- Find a place where no people or animals live! Maybe not possible. If not, we will have no birds and bees and no food!
- Great idea !!!!!!! We need to make a better form of energy and become the green big brother for all of Nova Scotia. If you need help or have a need for volunteers please call me 670-9257 my name is Wallace Berrey thank you
- Thank you for taking the time to get community input. It isn't an easy job to navigate through this issue, but it is an important task to do for our future.
- I'm pro green energy but feel I don't know enough about the potential risks and would like us to err on the side of reduced risks and increased setbacks until we become more educated. This survey is a great step but note that I heard about it via a friend from the municipality even though I hear it was publicized in numerous ways. I think right now obviously the residents in and around greenfield are the ones that need to be reached out to for discussion because of the direct current concern. Any dialogue that is mutually respectful of pros and cons and balance is welcomed.
- It may also be an appropriate time to change the bylaw that disallows private residents to have their own small tower and generator. With the rising cost of electricity, the private owner has to start looking after themselves.
- wind turbines are not cost effective for generating energy at this time.
- We visited a large wind turbine installation in New Brunswick. We stood under the turbines, there was very little noise, in strong winds perhaps a soft "swish sound". The "flicker" effect would be non-desirable for people living close to, (in the shadow of) the turbines.
- Wind Turbines have been operating for decades in Europe without significant health risk. Most Farmers each have one for their farms. Unless complaints of risks can be proven or have significant scientific research to substantiate their claim they should be recognised for what they are; another example of Not In My Back Yard. I would much rather have a turbine in my yard than a sulfur-spewing electric plant. If we want electricity we have to be prepared to have the equipment which provides it. Would we rather build another coal plant like NS Power ruin our beautiful Annapolis Valley? I am all for them.
- I am greatly concerned that the Municipality of the County of Kings is considering allowing wind turbines to be installed. My concern is threefold: 1. Negative effects on health. It is documented that the health of people and animals living near a wind turbine is negatively affected by sound, vibration and shadow flickering. 2. Aesthetics - I am concerned at the "look" that turbines create. The Annapolis Valley is one of the most beautiful locations in all of Nova Scotia! Many tourists come to this area for the pure beauty of the place. After visiting a wind turbine farm last year - in a previously beautiful spot in Nova Scotia - I was dismayed at how the landscape has been forever altered by these overwhelming (what I consider to be ugly) structures that can be seen many miles away. 3. Lastly, I do not want to pay taxes to install and upkeep these structures. My little dollar is already stretched WAY to thin!! Thank you.
- The little research I have done on wind turbines seems to turn up 3 main sticking points: 1) The distance that the turbine is located from a dwelling. From accounts of people with health problems I conclude that the 700 metre zone is definitely inadequate. The decibel readings are supposed to be below 40. That is considerable if you are a rural resident used to zero decibels. When the wind is blowing and the 40 is constant, that may be unacceptable. Are there enough medically based studies authenticating turbine safety? 2) The savings in greenhouse gases, etc is not conclusive. 3) The increase in taxes, etc doesn't appear to be there.
- Generating efficiency can and will go up; a new generation of designs is arriving, and the problematic effects are being taken into consideration - big blades do not seem to be the best way to go; vulnerability to storms, mechanical issues and especially noise are very large problems. Apply stringent standards - if the viability is there, the standards will be met - up front, not fighting the usual rearguard battle, often fruitlessly - only to end up dealing with the

damage and lawsuits and finding out (once again) to taxpayers' liability 10 years later that damage is always MUCH more costly than prevention. Consider this, please - noise generated represents energy lost. If you reduce the noise, you automatically become more efficient. Win-Win. Thank you for the opportunity;kudos for yor efforts at engagement.

- I am a strong proponent of wind energy--however, there is significant concern around noise levels and health iussues regarding wind turbines. A sufficient distance from turbines to residences must be established, and 700m seems too close in my opinion. Perhaps a ratio of turbine size to distance to residence needs to be established.
- What I heard on the radio said the present "standoff" was some number of "square" feet from dwellings. Square feet?? How about linear feet! I was over to the wind farm on P.E.I. a while back. And I think the "standoff" should be absolutely no less than 3/4 of a mile from any dwellings! Hilton Langille Kingston 765-4100
- Due diligence is order WRT location. There could be a significant impact to flight safety with 14 Wing Greenwood airfield in the middle of the valley. I am all for green power but all the homework has to be done here!
- Very interested in the prospects of alternative energy sources for the Valley area.
- do not let decvelopment until a lot more is known of the affects on people,animals,land.
- I am opposited to any wind farms in residential areas as the health risks associated with Low Frequency Sound, Infrasound and Vibration is unknown.
- This questionnaire is totally the wrong way to find truth regarding this extremely volatile and potentially lethal proposition. "INDUSTRIAL" should never be in the same room as "RURAL" - there is no happy connection.
- The crafting of this survey may have been well meant but it will do nothing to glean pertinent information from the community. Put efforts into direct communication with concerned residents instead - we are informed and intelligent.
- There is no science provided for respondents in these questions. Why are respondents allowed to remain anonymous? Stuff the box?
- I think windmills have there place but the setback distance regarding a dwelling needs to be increased. These things are huge and an l soar.
- I think the real issue about wind turbines is about the debate over infrasound. Proponents of the projects will say there is no direct causal link between wind turbines, infrasound and negative health effects. Those who object to the siting of turbines near homes say the body of knowledge about infrasound and wind turbines is rapidly developing and increasingly suggesting we should err on the side of caution. I live about a mile up the road from the proposed Greenfield site. I would estimate that more than half of the people on this road have very serious existing health issues. They are trying to deal with heart attacks, serious migrains, cancer and other health problems. To site an industrial wind turbine near these people when we are learning the units can contribute to serious sleep loss issues, vertigo, stress etc. is unfair and irresponsible. Once the towers are up we will have to deal with the results for the next 20 or 30 years. If I were a councillor I cannot imagine making a decision that could cause harm to these rural residents when the same amount of power can be generated by siting the windfarms well away from homes. Kings County council has made a courageous decision by reviewing the current bylaw. I hope Coucil will place the health and wellness of rural residents as its top priority by changing the bylaw and getting these wind turbines at least 2 miles away from any home.
- I think that the general public needs to be reminded regularly that in comparison to fossil fuel produced energy, the risks associated with wind turbines is much lower impact. Wind certainly comes out on top when you compare sound issues with burning coal emissions! The core of the issue is that we don't have the luxury of making a choice: we MUST get off of our reliance on fossil fuels & dangerous nuclear technology. It is clear to me what the lesser of the evils is. I think Council and staff should expand to include wave generated energy turbines as well!
- Wind turbines have a place, just not in peoples back yards so certain land owners and developers can reep the rewards!!
- Kings County Councilors Regarding the call for "feedback" on the formally formed large scale

wind turbines (LSWT's) policy I feel (no, I know!) that: we already had public information and input sessions on this issue (maybe you forgot or didn't come??? I know who didn't because I was there and it is in public record.) The record of meetings held is attached FYI. This was written and recorded by County Staff. If you have not read it maybe you should! a comprehensive policy was forged through this process over a period of many months this cost thousands of taxpayer dollars the meetings were well advertised and attended as a result a bylaw was created that governed the establishment of LSWT's in Kings County. This was voted into law by Kings County Council. this was done fairly and democratically in an open forum (I may mention that if persons who now have objections did not care to attend then they should have the same voice as those who did not vote in an election, NONE) LSWT companies, contractors and landowners moved forward with the security of a publicly developed bylaw as their guide they invested large amounts of money landowners were contracted by LSWT developers all was in legal, lawful, order according to Kings County Council Now our elected officials, County Council (In case you have forgotten about being actually elected!) of whom at least a few, oversaw the democratic process, want to unravel (I suggest illegally!) the publicly formed law because of an ill informed petition. Council's actions are despicable and a profound insult to true democratic process. You, as elected officials, should be deeply ashamed. What is the point of public process and input if it is to be ignored at the point of a paper gun, IE: a petition? I have lost all respect for our "council", as any self respecting person/voter/taxpayer in the county should. Oh but you have bigger fish to fry. Like building a \$15,000,000.00 castle to celebrate your great leadership and gleefully creating redundant jobs for former councilorsDisgusting and dreadful! Sincerely David Lacey PS: please consider this to be my formal input in the LSWT "review" process David Lacey 11 Cove Rd. Centreville RR3 Kings County Nova Scotia Canada B0P 1J0

- governments are saying wind turbines are a move towards green energy and a cleaner environment. i believe they may be if constructed in a smaller way away from communities of which we need to study the long term effects against humans and other wildlife and geography before proceeding.even if it takes 10 years', we want to ensure our children and the next generation live in the same safe and healthy place.
- The question, How appropriate, from cultural and landscape point-of -view, are the following areas for wind turbine development is a unfair question. The looks of turbines is not an issue for me but knowing where the turbines would be placed in a community is the most important of all. Meaning set backs and separation distance. Peoples homes and health should always be first for all those concerned.
- I think before the county allows wind turbines in rural settings (like Canaan) they should seek a vote of the community residents in favor of and against. Anything that could impact health of residents should come before green energy.
- I feel that it is important to be green,that we have to think of the future.I also feel that the turbines should be put in an area that is not going to affect the people ,animals around it.Why can't they put them up away from the peoples homes.I think it's because of the fact it will cost the big companys too much money and therefor they will pull out and the countys will miss out on the money. The people who have agreed to this can't be thinking long term ,because they tie up their property for future generations,nothing can be done with the property because of it. I do not want them this close because of health issues(ourselves,animals)property values,noise,ice ,wildlife,shadow flicker.The only good thing is the green power,but who benefits the most--The company who owns the Turbines.So put them a safe distance away.
- Wind turbines negatively impact people and wildlife in the surrounding areas. We need to think about the people that these will effect rather than the profit that would be made buy the cooperations. They May seem like a positive thing at first but when you do any amount of research or ask anyone that lives near these things, they are a huge burdon on everyday life. If these things are put up, it will cause people to want to leave the area because they are unsightly and noisey.
- We are approaching a time when petroleum will be scarce and much more expensive. Nova Scotia generates 85% of its electricity by burning coal and oil. It is very important that we find alternatives soon. Wind power is a crucial opportunity to become a little more independent. We

need to demonstrate flexibility in our policy towards wind generators. We need to welcome wind farms, because down the road, when it becomes evident that we need them, there will be more competition from other parts of Nova Scotia for the establishment of these wind farms, and we will have missed an opportunity. I have seen a long row of twenty or more turbines along the coast of Holland at Neeltje Jans. They are beautiful, majestic and breath-taking. They would be a great asset to our landscape. Pierre Clouthier

- It's hard to designate areas as "appropriate" for development from a cultural/landscape perspective with respect to wind turbines without knowing the type of development that is planned. I have no problem with small scale development i.e. less than 1 megawatt output in many areas that are loosely populated. I have more difficulty with the mega schemes that are being proposed near people and sensitive environmental areas. I'd really love to know who approved the site near Amherst where the waterfowl park is. That just seems totally indicative to me of development that is not remotely interested in long term outcome. There can't be a more sensitive migratory bird staging area, can there?
- I believe it is important to reduce our reliance on fossil fuels and to promote "green energy" but not at the sacrifice of impacting people's homes and communities. There are widespread reports of negative health impacts on folks who have wind turbines situated close to their homes, even when the minimum distance is observed. Imagine dreaming and saving your whole life to buy/build a home and then have a wind turbine erected nearby and suffer negative health impacts. Myself, I am very sensitive to noise. I specifically moved to a quiet area to avoid such things and I can absolutely say I will fight nails and teeth to prevent one being erected in my neighborhood. I don't think anyone else should have to endure that, either. I believe more study is needed. I would suggest that if wind turbines are erected, that the minimum distance from residences is vastly increased. Ideally they would be located in an area where there are NO residences. But even remote areas have wildlife. Our wildlife doesn't have a voice of their own, so I think it's up to us to consider lifeforms other than our own when making decisions that can impact them. Remember the old adage "look before you leap"? Please research this very carefully before choosing to make decisions that could have very negative impacts on members of our community and our wildlife.
- I've got to tell you all that this is the worst thing to ever come my way! I've worked hard all my life to have a peaceful place to live. I work in the urban area of the Valley under the hustle and bustle of it all and at the end of the day I drive 30 minutes to my Rural home on the North Mountain to unwind in piece and quiet. I've worked my whole life to pay off my home. Our home is surrounded by land that has been clear cut for many acres that is owned by someone that does not live in the province. Can you imagine our concern that all this has brought to us? In the summer of 2011 my wife and I started to develop another property to build a new home on, it's on Peck Meadow Rd on the South Mountain. This is to be our dream home where we intend to retire someday, again this is another area that suits us with it's scenic country beauty and pristine quiet especially at night. We have put in a road and have gone through all the permits necessary to apply for our building permit, we worked hard on clearing the land and quite often marveled about the fact that there was normally only about 10 cars go by per day, That all came crashing down on us the day I noticed a test tower that was erected just 1 km to the west. Now we don't know what to do! Can we build? Should we continue with our plans? Who knows? it's all in the hands of the Municipality now. We must get a much greater separation distance than the existing 700 meters, this is totally not acceptable. Now I'm finding out that banks won't even give out mortgages for people that close to wind farms due to the fact that they won't get their money back if people default on their payments because property values drop to unsalable levels. How can all this be happening? I'm sure by now you have read plenty of the many peer-reviewed documents on the negative side effects that people endure living within a few kms of industrial turbines. Anyone willing to make a decision on this MUST do their research based on the transcripts from people already living close by large scale industrial turbines in other areas. It would be JUST WRONG to listen to what the developers have to say about their product, after all they have to come up with the best sales pitch to win over people that make the decisions at the municipalities. PLEASE make the right decision and keep these away from where people live. YOU MUST make the right decision based on looking after u, the people that live here in rural Kings County, don't be BLIND SIDED by the sales tactics of BIG

WIND DEVELOPERS. They do not live here, they're only concern is the profits! When I speak to people about this issue I often hear that people are already suggesting that in the likelihood that these come in and ruin our property values they plan on taking legal action to recover what they will lose. The way I see it is the Developers won't take responsibility and the Government will say they didn't hold a gun to the municipalities head so I believe desperate people will turn on the very people that made it all happen in Kings County, the Municipality. There is the loss of property values, negative health effects, and lets also remember the decommissioning of the turbines in 20 years ; now that's interesting, whose lap will that fall on? I think it will also end up on the Municipality, no one else will take them down. The Valley floor is not very wide, what effects the North and South Mountain will have an effect on the Valley as well so please do the right thing. As far as I know the people that make up the Municipality have all been hired and payed for by the tax payers of Kings County, hopefully you all realize who you are working for. Thanks for your time.

- It seems that council continues to talk about separation distances when in fact the population of the South Mountain are more concerned with setback distances. I am sure if Wind turbines were 10 km's from homes this would not be an issue. There is a substancial amount of land this could turn useful.
- I am most concerned about health risks ...in particular with flicker and infrasound. Until there are difinitive,scientific answers to these risks I would be against any large scale wind turbine (above 0.5mw for personal use). We may have to wait a while to to get these answers but the wait could be a positive for green energy in Kings County. If there is little or no risk the Kings county sites may be even more valuable in the future as the number of good regional sites diminishes and turbine technology improves. They will probably still be there years from now. On the other hand if there are serious risks we will have done a good job for Kings County(and perhaps beyond) by avoiding them. I did not answer all the "potential benefits" question as I don't know much about the taxes situation and concerning our "green " image it could be extremely important if it turns out there are serious health issues (and not very important if there are no health problems) Hugh Davidson
- We're building a house this spring in Canaan,we are concerned about how close they can put these to a dwelling, I'm all for wind turbines but not if they are put in my back yard or another persons back yard !!! I'm very concerned what the side affects are to our health and wildlife, we would never have bought the land if we new about this before. Patricia Acker
- I do believe Nova Scotia is a good location for wind turbines. I have seen these turbines up close. The noise level is very low. The look of a turbine is eye pleasing. That is as far as the looks & sound is concerned. The most important thing is that it would get us off of fossil fuels. This would make for a greener way to produce electricity, while making it more cost efficient.
- I would love to see wind turbines in the valley!!!~
- Although I strongly support green energy there has to be priority given to health risks. I am only just learning about wind turbines and the information that I have heard so far makes me concerned whether there are appropriate areas in Nova Scotia, away from residents, that would make this viable. I am assuming that it is not financially feasible to be putting such turbines in more isolated areas.
- My general concern with 'large-scale' wind turbines are health-related (including flicker, noise, etc.). I do not believe that there is a large economic pay back for the communities where these wind turbines are being proposed - except for a few executives who don't live next to them and for the land owner. In my view, that is not a good economic incentive to put people in harm's way. Personally, I chose to build and live in Kings County for the rural lifestyle - the land, the beauty, the quiet nights, etc., etc. If I'd wanted to live next to industry (24/7) I would have moved to Dartmouth! From a health perspective, like bio-solids and other potential health risks, I tend to think it's better to err on the side of caution. It's not as if you can change you're mind once you know more in 5 or 10 years. These things are here for the long-run and are not easily reversed. I would also like to make clear that my concern is not with all wind power - just these large-scale wind productions. I would be disappointed to see that someone could not use some small-scale wind generation for personal use.

- Thanks for the opportunity to complete this survey. I do not feel Large-scale wind turbines would be beneficial to the residents of Kings County. There would be a select few land owners who would benefit and the remaining residents would suffer in multiple ways.
- Most people are not well educated on industrial scale turbines. They only hear the negatives and not the pros. People say they are loud (38 db) isn't very loud and these are the same people that run lawn mowers, tractors, chainsaws, leaf blowers etc. all are over the recommended noise constraints for human hearing. I think more needs to be done to educate people about the positives of turbines. Maybe a video or sound clip from one of the wind farms will enlighten them. They will notice you hear the wind more than the turbine itself. Though I am all for wind farms I believe that they must have some buffers from the surrounding areas. We have a lot of vacant land that is located in windy areas that are not located close to homes, so these should be where we are placing them. Turbines have gotten a bad rap over the years due to the lack of setbacks and gov't's/Turbine developers rushing through the process. Also maybe instead of developing large scale farms in one location maybe scatter them so you don't have a concentrated noise/flicker in one area. There are a lot of places we could put one or two and people wouldn't even realize they are there except for seeing them. I say please go through with installing turbines they are a great benefit to the environment and economy. Just use precaution when proceeding. I have a small turbine and my neighbours have no complaints and actually compliment it.
- The wind turbine industry must move a head . If King,s County does not work with the industry it will move elsewhere . We need delvopment to move a head with firm policymaking .
- Very important that Kings County developes a by-law that takes into account all areas of the county. The by-law should represent the views of the citizens and put to an end the adverse effects the development of wind farms has on health, wild life, noise and property values. The adverse effects of the wind turbines that are placed in areas that disrupt community life greatly out weighs any benefits that those residents receive from wind turbine power. There are many areas in the Province where these developments could take place that would not disrupt quality of life. It should not be the responsibility of the residents in Kings County, or any other area of the Province to have to interrupt their daily routine to protect their community from adverse development of wind turbines.
- There is a simple solution to this issue. Impose safe separation distances, not less than 10 kms to human habitation. Problem solved. Everyone wins. Thank you for providing citizens with this process, this shows good faith on the part of Kings County Council, and you should be commended for being so forward thinking as to initiate change in a woefully inadequate bylaw. No good will come of a law that is driven by industry when the consequences are as serious as they are for people if this is done carelessly. The county has the most up to date scientific information available at its fingertips, please use it wisely and thoughtfully. Thank you
- I believe it is important to engage 'the precautionary principle' on any decisions regarding wind energy projects, Kings County or the Province as a whole, may choose to engage in. With so many projects up and running in other jurisdictions worldwide we in NS have an opportunity to learn about the pros and cons. Hopefully there is a way to make use of our geographic location/proximity to the ocean's winds to reduce our dependence on fossil fuels WITHOUT creating other problems.Negative sequelae such as health issues arising from living in too close proximity to large scale wind turbines will impact NS health care costs (already too high). Let us all - Councillors, staff planners, MLAs, and citizens - become informed in order to foster thoughtfully made decisions.
- I would just like to say that there are spots for these turbines but not in residential areas. I think the company building these should not try to cut costs (by placing them in residential areas) and should be made to place them far out in the woods. They are going to put our power bill up anyway so they should take that money and use it for building the roads to get to the turbines.
- Wind development shouldn't be rushed. The wind will still be there next year. It is important to do the development carefully so that we don't disturb large numbers of residents with flicker, noise, and infrasound. We also need to site carefully near bird and bat habitat so that we don't harm them too much. If done well, everyone will love the immunity from rising oil prices that the wind will bring. If done badly the residents will hate wind and that will set back environmental

sustainability by a generation.

- It is important to develop the resources available to us in our rural areas, preferably with the benefits being enjoyed by the local community and the wider community of the County of Kings.
- I live close to a potential large wind turbine site. I feel I am knowledgeable about the subject and am opposed to the development of wind turbines in communities in general. I Own my home and I have lived at the same location for 20 years, grew up in the area. I have many friends and family that live here and they are also very much opposed. The impact on my life and family is huge...and cannot stress enough the importance that council consider the implications that this will have on our communities. If this moves forward it is just another reason for me and my family to leave Nova Scotia. Take Windturbines out of our communities...thank you.
- Sound and infrasound can cause illness due to physical effects (subsonic energy and vibration) and psychological effects. This harms citizens and puts more strain on medical services. Wind turbines will seriously damage tourism, especially when sited near B&Bs etc. Wind turbines will seriously damage property values of residences within two Km of sites, destroying the economic security of families and reducing taxes. The costs of decommissioning wind turbines (at present about \$100,000 per turbine) have the potential of ruining land-owners with leases and placing extreme financial burdens on the Municipality when those responsible cannot or will not pay for the decommissioning.
- I would feel much, much more secure living in a community that puts peoples health and well being ahead of profit.
- The North Mountain maybe more ideal for a Tidal energy project with clean energy production. Tidal energy is one of the oldest forms of energy used by society.
- I am moving to Nova Scotia and do not want to live near industrial wind turbines and think your economy of entire province will seriously be spiralling downward if huge scale development takes place. You definitely will lose tax base as folks will leave, property values will decline. Look at Wolf Island, Ontario. Big turbine companies will make money but you as small government won't.
- Comments - potential impacts Health Canada revised a previous statement in 2009 to read the following: "Health Canada advises that this statement be revised to indicate that there are peer reviewed scientific articles indicating that wind turbines may have an adverse impact on human health". Also in 2009, the AWEA-CanWEA expert panel review revealed the following: "wind turbine sound/noise may cause annoyance, sleep disturbance, stress [sleep disturbance, headache, tinnitus, ear pressure, vertigo, nausea, visual blurring, tachycardia, irritability, concentration, memory, panic attacks, internal pulsation, and quivering = well known stress effects of exposure to noise". From the 4th annual wind turbine noise conference 2011 (Rome, Italy) post conference report: "the main effect of daytime wind turbine noise is annoyance. The night time effect is sleep disturbance. These may lead to stress related illness is some people". The WHO (World Health Organization) [guidelines for community noise]: "in all cases, noise should be reduced to the lowest level achievable in a particular situation. Where there is a reasonable possibility that public health will be damaged, action should be taken to protect public health without awaiting full scientific proof". Of major concern are the well documented negative health effects caused to some people living near turbines. Also of concern is decreased property values which are generally in the 25-40% range, and in some cases the loss of property value is 100% due to abandonment of the home; therefore the economic and social effects are substantial and negative. This type of social injustice should not be put upon the residents of Kings County. Also of concern are the rising electricity rates to pay for these turbine projects... There is nothing in this for citizens and communities, absolutely nothing. If you're not sure, take a trip to Digby. Look at the quality of their road since the construction of the turbines, ask the locals about the noise, the shadow flicker and the jobs that went to the locals (not one job!) Look at the massive infrastructure to transmit power out of that field. Do we want that here in our beautiful Kings County? No we don't. Large scale wind turbines should be sited in remote areas, no less than 10 kms from human habitation, without exception, as recommended from the national wind farm conference, Scotland, November 11, 2011. An impact statement from a child whose family abandoned their home: " i am forced to sit back and

say nothing as my own teachers teaches my classmates and peers that wind energy is flawless... I am forced to live away from home with my grandmother. I can never go home". The solution is very simple. With proper citing guidelines, residents can enjoy quality of life , and the developers can enjoy the opportunity to develop their projects safely and without resistance.

- 1) One of our better attractions are 1) eagles, esp. Sheffield Mills + chimney swifts, Wolfville. We must preserve them & their range.
2) Also think should be far enough from roads that shadow flicker doesn't present driving hazards.
3) Wonder if dif. design of wind blades might make for less environ. Impact - would favor bigger blades which were slower & less danger to birds even at say 50% less power production.

Appendix B

Public Submissions

Hello Ian:

Here I reiterate my comments from the wind generation open house at South Berwick Community Centre, and add a few more. I hope this e-mail is still in time to be passed on to the consultants who are investigating the potential impacts of large-scale wind turbines for the Municipality.

- The Blomidon Peninsula is the County's most scenic place. It should not be spoiled by wind turbines. The County should be promoting Cape Split and Blomidon Beach for tourism. Everyone has seen numerous photos of "The Rocks" from New Brunswick. We could promote the view of Cape Split the way New Brunswick has promoted Hopewell Rocks. Bus service should also be provided to those places in the summer for those without cars, or those trying to drive less. Have guided walks to Cape Split, to promote tourism, education (biology, geology) and exercise-for-health, but have them when buses are running long enough to take people there, let them do the whole trail with time for a picnic, and take people back all the way to their communities.

- Every article I've read about wind farms mentions adverse effects on humans, but never mentions effects on farm animals nor on crops. Kings County being farm country, it is advisable to contact farms near where large-scale wind turbines have been running for several years and inquire about any ill effects on farm animals and crops: illness, lower rates of fattening, decreased production of milk or eggs, higher mortality rates or lower procreation rates, decreased yield, lower rates of pollination, and such. Please don't forget to inquire about effects on bees, since we have so many apple orchards and strawberry farms that depend on them. I suspect that there haven't been many ill effects on farm animals, or they would have been publicized, but I've just "googled" it and here's one link that does mention such:

http://www.bccrwe.com/index.php?option=com_content&view=article&id=61:letter-on-health-effects-of-industrial-wind-turbines&catid=42:health-and-wellness&Itemid=54

Not being a farmer, I leave it for the municipality and farmers to check on that.

- Kings County Municipal Planning Strategy, by-law # 56, section 5.5.1 Large-Scale Wind Turbine Objectives, paragraph 5.5.1.1 states, "**To promote** the development of **large-scale** wind turbines in an effort to reduce the Municipality's dependence on non-renewable energy."

It is my opinion that the Planning Strategy should **also** have an "Objective" "**To promote** the development of **small-scale** wind turbines in an effort to reduce the Municipality's dependence on non-renewable energy." If the intention is to reduce the Municipality's dependence on non-renewable energy, every bit should help. Small-scale turbines might be less likely to affect Greenwood's radar; if so, they could be placed in more places. By being shorter, they should require smaller footings, be less visible, be more acceptable to the public in terms of aesthetics. Being smaller and lighter, they might produce power when the wind is not strong enough to power large-scale turbines. By being less powerful, their effects might be less noticeable, less dire. A string of small turbines along the coast (where the wind is strong, although not on Blomidon Peninsula, or at least not on its most scenic places) might be able to provide most or all the electricity needed by the residences along those roads. If so, the local communities, or Kings County Municipality, or Berwick Electric Commission could form their own electric company with their own windmills, similar to Berwick Electric Commission but perhaps

producing a larger percentage of their power. This company might, or might not, choose to buy the power poles and power lines from Nova Scotia Power.

- I don't know how much Kings County Municipality cares about availability of game. I'm not a hunter, so I don't care. If the Municipality endorses hunting, one should also check with places which have had large-scale wind turbines as to the effects on game. Does game which once was abundant suddenly disappear or become significantly less abundant?

- The Town of Berwick has had problems with crows, to the point of spending money on noise machines trying to discourage them from this neighbourhood. There are also more reports of coyotes, and one of the community columns on the local newspaper mentioned a bear last year. What is the impact of large-scale wind turbines (or even small-scale ones) on wildlife? Will nuisance wildlife (crows, seagulls, deer) and dangerous wildlife (coyotes, bears) start avoiding regions with turbines and, thus, become more frequent in more densely populated regions, where there are no wind turbines? This would affect safety of people, farm animals and pets and might be rather adverse to crops. This should be investigated.

- The hotel just outside Copenhagen that has a windmill on the parking lot is the Bella Sky Comwell Hotel and Bella Center Congress Center. The Esperanto Congress I went to last year took place at the Bella Center. The hotel has a very odd shape and won the "Best Architecture in Europe" award in 2012. This You Tube is not great, but it is short and shows the wind turbine at the Bella Center: <http://www.youtube.com/watch?v=GzwqVkuqlm8>. According to <http://www.visitdenmark.dk/uk/en-gb/menu/presse/press-info/business-events/tivoli-gardens-and-bella-center-agree.htm>, this wind turbine is 75 metres tall, made by Vestas. Neither Google Maps nor Yahoo Maps are up to date enough to show either the Bella Sky Hotel nor the windmill, although they do show the Bella Center. Google Maps does, however, show both the windmill and the hotel on street view. I estimate that the windmill is within 150 m from both the Bella Center and the Bella Sky, and about 400 m [corrected to 620m in a later email] from a dense residential area, although the houses might be sheltered from the noise by Bella Centre and other industrial buildings in between.

- The eco-village I visited in Denmark which had a windmill was Dyssekilde. According to their website, it is a 450 KW wind turbine. I commented to our guide how quiet they were and she replied that they are noisier when it gets windier. Looking at Google Maps, it seems to be located about 400 metres from the centre of the village (230 m or less from the nearest house). You can read their website using Google Translate: <http://translate.google.com/translate?u=http%3A%2F%2Fwww.dyssekilde.dk%2F&sl=da&tl=en&hl=en&ie=UTF-8>. The size of the village is 12 hectares (a bit less than 30 acres).

If wind turbines are O.K. for the Danish, they should be O.K. for us also, provided there aren't bad consequences to agriculture.

Sorry for the long e-mail.

Mary Jo Graça

I oppose wind energy because it is not green. It sounds green but is actually the opposite. The economics of greenhouse gasses are complex. Wind energy produces less CO₂ at the point of generation. If that was as far as it went things would be simple. Things are not simple. Wind energy costs more. Nova Scotians know that jobs are lost when the price of energy increases. Wind energy costs jobs. Where those jobs go has environmental consequences.

According to The Economist, Canada generates 364 grams of CO₂ per GDP \$. China generates 1.29 kg and India generates 1.21 kg. Their economically weighted average is 1.27 kg per GDP \$ (Canadian dollars at the February 1st exchange rates). What happens when electricity costs increase so much that we lose another Canadian job? According to Stats Canada, the Canadian economy generates \$88,000 per full time job. Every \$ which is transferred from our economy to China or India puts another 900 grams of CO₂ in the air. The transferred economic activity from one lost job thus adds almost 80 tonnes of CO₂. The unintended economic effect of wind energy is that dirty economies grow while clean ones shrink. In short, CO₂ “mitigation” with wind does more harm than good.

I am willing to pay more to help the planet. I am not willing to pay more to put Nova Scotians out of work and accelerate global warming.

Rick Sparkman

With regard to the Municipality of Kings County Questionnaire
“Large Scale Wind Turbine Policy and Regulations”

Please find attached 12 completed *questionnaires*, each one filled in with a different colored ink. The question should be asked :

“Did 12 individuals complete this questionnaire, each provided with a colored pen ?”

OR

“Did one individual complete all 12 forms ?”

Because you will never know the answer to the above query, I stand as one who has grave misgivings about the *efficacy* of this exercise.

Might it have been a better idea to *poll* residents of Kings County ? This could have been achieved by securing names from the Voters’ Registry, ensuring that everyone polled exercised their right to one completed questionnaire.

As I see it, the process by which the information is being gleaned is no better than the final voting procedure for American Idol, where it all comes down to the one who receives the most votes wins. Because of this flaw in the procedure (where I can print off as many copies as I desire), I see absolutely no *validity* in the final results.

Over the past month, it has been my privilege to witness the wheels of *democracy* in motion and have applauded the efforts of many residents of Kings County, rural homeowners as well as elected representatives in Municipal Council. I have been encouraged by, but at the same time, plagued by the amount of time and energy required to defend one’s *democratic* rights.

The decision to re-visit the policy regarding the Large Scale Wind Turbine Industrial Site Policy is commendable. Because of the *passion* that has been created over this issue, I feel, as a rural resident, that there must be serious consideration to the procedures put in place to guarantee the best, fairest and truest results. This Questionnaire is definitely not an adequate product to gather such truths.

Please note: the *italicized words* are defined on the attached page, as found in Websters New World Dictionary.

Nancy Denton,
A *Passionate* Resident
Black River Road

As Found In Websters New World Dictionary

Questionnaire : a written or printed form used in gathering information on some subject or subjects, consisting of a list of questions to be submitted to one or more persons.

Efficacy : power to produce effects or intended results; effectiveness

Poll: 1) a counting, listing or register of persons, especially voters. 2) a voting or expression of opinion by individuals 3) the amount of a voting; number of votes recorded. 4) a canvassing of a selected group of people in an attempt to discover public opinion on some question

Validity : the state, quality, or fact of being *valid* in law or in argument, proof, authority, etc.; (legal) *soundness*

Valid refers to that which can not be objected to because it conforms to law, logic, the facts, etc.

Sound refers to that which is firmly grounded on facts, evidence, logic, etc. And is therefore free from error or superficiality

Democracy: 1) government by the people, either directly or through elected representatives 2) the acceptance and practice of the principle of equality of rights, opportunity, and treatment; lack of snobbery 3) the common people

Democratic: 1) belonging to or upholding democracy 2) of or for all the people 3) considering and treating others as one's equal; not snobbish

Passion: 1) the state or power of receiving or being affected by outside influences; 2) condition of being acted upon; opposed to *action*; 3) extreme. Compelling emotion ; intense emotional drive or excitement

Passionate: having or showing strong feelings

[Transcribed verbatim from a handwritten letter]

March 2, 2012

Dear Ian Watson,

I am writing to you regarding the wind turbines. We live in this beautiful, quiet place where we enjoy a robust tourist season that is based entirely on the scenic beauty of the Annapolis Valley. If the turbines come, that will most certainly change. Running a small B&B in a rural area has it's challenges. High gas prices and competing [illegible] in more populated areas are factors that weigh against us. If the County allows these ugly machines with all of their noise to invade our countryside, those of us who operate small local businesses that depend on tourism can almost certainly say goodbye.

These companies seem to want to take advantage of areas that are already struggling. It is our most heartfelt request to ask you to keep this invasion of rural life from happening.

Sincerely,
E. Lorquist

Attention: Mr Ian Watson
Municipality of the County of Kings

Attachment to Questionnaire “Large Scale Wind Turbines Policy and Regulations”

My name is Cheri Davison. My husband, Blake, and I currently reside on White Rock Road, Kentville. We have lived at our present address for approximately 6 years and have also own the lot next to us where my in-laws reside. I am concerned about the information circulating in the community about large and small scale wind turbines.

Information session

Back in the summer I attended a session at the Canaan Hall about a proposed instalment of 1 turbine in the Canaan area. This session was put on within a short time (less than 1 week) of the bylaw amendment by the county. Two things upset me about this.

Firstly is that I was unaware of the proposed change in the bylaw. I understand after the fact that there was information posted in the Advertiser. In my opinion this is probably not the way to communicate changes to bylaws. I am suggesting that only a small fraction of the public read this publication. I think there should be alternatives in addition to the Advertiser to communicate. I think all information should be mailed out in an appropriate time frame. You could give community members the opportunity to “be green” and sign up for a email newsletter or notifications instead especially since we are in the age of technology

Secondly I felt that the information shared at the above information session was more about how one could invest in a project; they were not able to give any concise information about concerns that were expressed by the community. Concerns were expressed by all present about health, and real estate values and setbacks. All the engineers would share is that “there is no impact” This is not good for community relations. The information circulated about this meeting was from a letter in the Mailbox. Most people chucked it out with their flyers as they did not feel it was credible. There needs to be a formal invitation to the community and it should be sent through the Municipality. The Municipality has the addresses for everyone in the impacted area. I think people would understand the importance of the information to be shared and would be more likely to engage in a process for discussion.

Wind turbine development

My concerns are twofold. I am concerned about the health of my family. Unlike others in the community, I have reviewed the literature objectively on the internet. There was a document commissioned by the Chief of Health in Ontario in 2010. This helped alleviate some of my concerns about short term exposures, made recommendation for setbacks as well addressed that there are gaps. There was no long term data ie 15-20 years from areas (ie Europe) that have had turbines longer than we have in Canada. I would like to see someone from Department of Health give an unbiased assessment of the data and perhaps they could access some of the European data. I do believe we need to look to renewable energy sources by doing our “due diligence” . I would like to make an informed decision based on unbiased data review

Secondly real estate value and setbacks. I have seen some data that suggests home values decline within a 1km radius of turbine construction. I think setting “generous” setbacks are important and that if someone is applying for permits for wind monitoring equipment or turbine construction then a notice should be sent out to those within a certain distance from the property to notify them. There should be a time to file concerns or complaints, especially given the “strong reaction” we are currently having in our community. I envision that it could be similar to when someone wants to apply for a variance in land use. For example, we owned a property in New Minas and a local veterinary business wanted to expand. It was outside of the property zoning/bylaws. By engaging in the process from the beginning I was less resistant to the change. I felt like council cared and valued my input; even though they make the final decision either way. I would really like to know if there are any Atlantic Canadian studies on property values and hope you can share any information you may have.

Thank you in advance for your consideration
Cheri Davison
427 White Rock Road
Kentville, N.S.
(902) 678-2822

[Transcribed verbatim from a handwritten letter]

Feb 29\12

Wind Turbines/Wind Farms

Responsible wind development is more than just business. It is about building relationships within the community. It is positive that Kings County residents have been invited to take an active part in the process for such a project. Green energy may be great, but only if located in the right place! Turbines can't be in communities or even in close proximity to communities as residents lose. "Wind-site rules" need to be developed and used when locations are being decided.

Research needs to be shared to fully answer questions such as:

Is the technology good enough? Does the generating capacity ample to justify the cost? Is provincial land to be used or private land? Who actually gets the benefit of power produced? Does it stay and provide power bill reductions to Kings Co. or is it yet another resource given away to NS Power, Maine or others?? What impact do weather conditions play? The blades throw snow & ice, another reason to select locations with care. What is the life expectancy of a wind turbine? How often are they maintained or serviced and at what cost? Who pays for maintenance & repairs? If removed who is responsible for putting the land back to previous state? Have studies really addressed the truth about infrasonic and low frequency noise emissions. Just how loud is 45 decibels, what is too loud, what is acceptable for healthy lives and sleep patterns? What is the impact on livestock, migratory birds etc? How closely have medical consequences of living close to wind turbines been studied? Is thought given to the implication of devalued properties as a result of locating turbines near residences? How far away is far enough? Will the peacefulness & beauty of the Valley which attracts tourists be negatively impacted? Is greed vs quality of life a factor?

There is a great deal of material to study on this subject! Please be thorough in your due diligence!

Thank you,
Lynn Campbell