

Questions submitted to all candidates:

- **Question 1:** in the summer of 2019 the District of North Vancouver and West Vancouver declared climate emergencies, following The City of North Vancouver that has adopted the bold target of reducing emission by 80 % by 2040, and net zero emissions by 2050. What do you think these statements and targets mean for the area? and - if elected - what will they mean to your role as an MLA?
- **Question 2:** when you think about the intimidating target of needing to half global emissions by 2030 to have a shot at remaining under a 2degree rise in temperature, and then you zoom in to North Vancouver, what are the most challenging projects you plan to take on, to meet the local, national and global targets?
- **Question 3:** what comes to mind for you when you think about the climate crisis and our responsibility to create a safe and sustainable future for our kids, who will live with the consequences of our actions, but are unable to vote yet?

| North Vancouver, Lonsdale    |   |  |  |
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| Candidates                   | Question 1  | Question 2   | Question 3   |
| <b>Bowinn Ma,<br/>BC NDP</b> | <p>Some of the most important work we need to do is build sustainable, complete communities. These are communities that provide people with what they need in a small geographic area, thereby reducing the need to travel. Local governments are often best positioned to create sustainable communities and provincial governments need to help enable and encourage good decisions about the building of complete communities.</p> <p>As a party, we are already requiring new buildings and retrofits to be more energy efficient and cleaner – every new building constructed in BC must be net-zero ready by 2032, but we will further accelerate energy efficiency retrofits for both residential and commercial buildings. Some municipalities have already been trying to ban single use plastics for a while, but were told</p> | <p>John Horgan has promised that a re-elected BC NDP government would further add to our CleanBC targets of 40% by 2030; 60% by 2040; 80% by 2050 by legislating a new net-zero emissions target. A rapid transition away from fossil fuel reliance is necessary to reach these targets.</p> <p>I'd be remiss if I also didn't note the importance of transportation. I've been working on transportation as an MLA and I'm passionate about it, so I must also point out that 35% of BC's emissions come from transportation. We need to electrify our transportation system and enable and encourage more environmental and responsible modes of transportation such as transit, biking, walking, and rolling.</p> | <p>We do not inherit the earth from our ancestors; we borrow it from our children.</p> |

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|   | <p>by the courts that they needed help from the province. We answered the call and gave permission to municipalities to implement bylaws to address this issue, and in addition, a John Horgan NDP government will begin the phase-out of single use plastics province-wide.</p>   |   |   |
| <p><b>Christopher Hakes, BC Green Party</b></p> | <p>This is an important step for municipalities, and our regional leaders are joining hundreds of other cities across the country and thousands around the world in making this declaration. It's always important to set targets and these help to create a framework under which we can plan a strategy which an MLA must understand and lead. Cities are a key piece of the puzzle as we transition to a low-carbon economy.</p> <p>Municipalities are however, limited in what they can accomplish independently. Fundamentally, we must keep pushing at the Provincial and Federal levels of government to set prices on emissions, policy around energy, and mechanisms on emissions reductions. The MLA has to be a champion for these initiatives and work collaboratively with their municipal and federal counterparts. There is no need to reinvent the wheel here - and we don't require any further studies. We can follow the lead of individual cities that are already out in front of this, and look to support from agencies such as C40 cities and LC3.</p> | <p>Emissions targets and goals can best be achieved through collaboration with various levels of government, civil society, and business. The important thing is to focus on those elements over which one has control.</p> <p>We can use readily available tools like the business, energy, and emissions profile (BEEP - <a href="http://city-of-north-vancouver.beep.eco/">http://city-of-north-vancouver.beep.eco/</a>) produced by Climate Smart to target specific sectors to make the largest and easiest reductions first. From this tool, we can glean that the top 3 sectors that we should focus on are: construction, accommodation and food services, and waste management.</p> <p>While impacting locally is important, we can also use our influence on supply chains with key infrastructure based on our shores. By this I'm referencing our terminals that are still used for coal and oil.</p> | <p>When considered alongside the profound equity challenges in human society and the collapse in biodiversity, we are facing an existential crisis. I am deeply concerned about a sustainable future for both humans and non-humans alike. I'm not a parent and I don't know the best way to make children aware, but I do believe that young people need to be engaged in this process - not to create panic, but so they can be made aware of the science and the choices being made on their behalf.</p> |
| <p><b>Lyn Anglin, BC Liberal Party</b></p>      | <p>These are very ambitious and challenging targets. Meeting these targets will require very drastic changes in the way that we produce and use energy. Most of our families still drive gasoline-powered vehicles, most of our buses are diesel-powered, most of the ships and trains that move</p>   | <p>Climate change is truly a global issue. To meet global emission targets, I think we need to think and act globally, as well as locally. One of the biggest emitters of carbon dioxide, and still growing their emissions, is China. Many developing</p>  | <p>What comes to my mind when I think about addressing climate change is the importance of more research. Our solar and wind technologies are good, but they could be better. Our geothermal energy is under-</p>   |

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|  | <p>goods in and out of our ports still operate on oil-based engine technology, as do the trucks and airplanes that deliver all of our Amazon purchases. Many of our homes are still heated with natural gas, and our barbecues burn propane.</p> <p>As MLA, the challenge will be to find ways to reduce our consumption of energy, by doing more to conserve energy in the home, to build more energy efficient vehicles, and especially to invest in the research needed to develop more alternative and clean energy technologies that can provide the power necessary to keep our economy operating.</p> | <p>countries in Asia, like China, are still burning very carbon-rich fuels, like coal, wood and even dung. These fuels are terribly inefficient and contribute to very poor air quality.</p> <p>Here in B.C., we have an ample supply of relatively clean-burning natural gas. If B.C. could export our natural gas to China and encourage the Chinese to convert their coal-fired power plants to natural gas, we could dramatically reduce their CO2 emissions, and therefore make a significant difference to the global CO2 budget.</p> <p>Provincially, B.C. is very well-positioned with clean renewable hydroelectric energy. As an MLA, I would advocate for more independent power projects, especially small hydroelectric projects and particularly those that serve remote and rural communities and involve First Nations as partners. These projects can be very effective at furthering BC's clean energy system.</p> <p>Locally, here in North Vancouver, we have the Lonsdale Energy Corporation district energy project.</p> <p><a href="https://www.cnv.org/city-services/lonsdale-energy">https://www.cnv.org/city-services/lonsdale-energy</a> : "The Lonsdale Energy Corp currently has six miniplants located throughout the City of North Vancouver, serving customers in the Lower Lonsdale, Central Lonsdale, and Marine Harbourside areas. LEC's mini plants use a combination of high efficiency natural gas boilers, ground source heat pumps, heat recovery from</p> | <p>developed. We should also look at the feasibility of more micro-hydro and run off river hydro projects, especially for communities that are outside of our large urban areas. There are many other energy technologies that should be investigated, like hydrogen, tidal, offshore wind, fusion and others. But many of these technologies require a significant investment in research before they can be applied. I want to see British Columbia transition away from fossil fuels, but we need an economically viable plan that will meet our growing energy needs while promoting cleaner and greener alternatives. In addition, we should continue to invest in research on making all of our existing hydrocarbon-based technologies more efficient, and more ways to conserve energy, especially in our own homes.</p> |
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|  |  | <p>building cooling, and solar thermal panels to heat hot water. The hot water is circulated through a series of underground insulated pipes, providing energy for heating and hot water to residences and businesses within the supply areas. The now-used water is recirculated back into the mini-plants, where the process of re-heating and circulating begins again.”</p> <p>As and MLA, I would encourage other BC communities to consider district energy projects. As the LEC says on their website: “By heating our community naturally, we can significantly reduce the demand for energy and support global and local climate action efforts.”</p> |  |
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**West Vancouver - Capilano**

| <b>Candidates</b>                                 | <b>Question 1</b>  | <b>Question 2</b>  | <b>Question 3</b>  |
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| <p><b>Karin Kirkpatrick, BC Liberal Party</b></p> | <p>We are in a climate emergency and we need to take bold action. On the North Shore this means three key things. We need to change the way we construct buildings; we need to change the way we commute, and we need to change the way we consume.</p> <p>The City of North Vancouver has committed to the same emissions target as Canada; net zero by 2050. Setting aggressive zero emissions targets is the right thing to do. But setting unrealistic targets has potential dangers. Some of the actions required for the City of North Vancouver to meet its net zero goal depends on the actions of other communities and levels of government.</p> | <p>A significant contributor to CO2 emissions is cars. The only way to get people out of their cars is by providing a clean mass transit option. The provincial government recently released a study which reviewed the potential of various Skytrain options to the North shore. However, it seems to have ended there as they have not provided funding for the second phase of feasibility. It leaves this as only a ‘potential consideration’ for the province. Without clean transportation to and from the North Shore, meeting any kind of emission target will be a challenge.</p> | <p>As we watch the fires ravage our forests and our oceans fill with plastic, we collectively know we must do something. I constantly think about what my daughter’s future will look like.</p> <p>Six years ago, I decided to learn more about what and how something can be done. I did my Master of Laws with a focus on climate change law, renewable energy and trade law. Building an economy around transitioning to green energy is absolutely key to making a safe future</p> |

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|   | <p>Unless a net-zero commitment involves multiple stakeholders at all levels of government, it will be difficult to execute on.</p> <p>It is my role as a mother, and as an MLA, I will work to support the climate change targets set by the municipalities on the North Shore by working collaboratively with all levels of government to ensure we have accountability.</p> | <p>I commit to advocating for a fixed link rapid transit solution for the North Shore – and one that will happen in the shorter-term.</p> <p>A hesitation to change density in single-family communities is a concern for residents of the North Shore. Thoughtful and well-planned additional densification can add life to a community and help to provide additional housing. The province and the municipalities can work cooperatively, amending building codes and rezoning, to encourage more diverse communities.</p> <p>I will advocate for building codes that encourage and incentivize the use the green building standards towards passive housing and to introduce smart planning to increase density.</p> | <p>for our children and planet. We can do this by continuing to use economic levers to change behavior – such as the Carbon Tax brought in by the BC Liberals which resulted in verifiable CO2 reductions.</p> <p>I have not visited a gas station (other than for a car wash) for five years. My family drives electric cars and we power them from solar panels on our house. Let's make these lifestyle changes accessible to more people by providing real economic motivation for consumers and industries.</p>  |
| <p><b>Rasoul Naramati, BC Green Party</b></p> | <p>Net Zero emissions means that we need to stop using natural gas which is widely used in the area. We also should invest more in public transportation to reduce carbon emissions. In addition, we need to adopt electric buses, and motivate people to use e-bikes and electric cars by reducing PST.</p>   | <p>I would like to create a gas-free zone for the North Shore area. This project would have different stages. At the beginning we could start with the Edgemont Village area to be a gas-free zone. This phase could take up to ten years. At the end of this phase, not only would all the residents of the area have switched to electric cars, but all the vehicles that need to have access to that area, such as Canada Post trucks, would have adopted electric vehicles. Following this, gas-free zones could be expanded to other areas.</p>   | <p>Our activities over the last few decades have caused climate change and we are one hundred percent responsible for it. We have to take action and show our youth that we care about their future. We have to educate our generation, especially those who want to invest in the oil and gas industry.</p> <p>The Green party is the only party that acts based on evidence, and that is why this party is more popular among the younger generations. We have shown our commitment to a safe and sustainable future.</p> <p>I am an advocate for renewable energies. British Columbia has a huge</p> |

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|                                       |   |  | <p>potential for geothermal, wind, solar energy, and agriculture. We have to make sure in our education system our kids learn about these concepts. This is what I have been doing in my K-12 science workshops and I have been amazed by how much kids love these concepts.</p> <p>A sustainability road map starts with government investment. Our universities should be equipped to train our future generations for sustainable jobs. It takes time to build up that culture but I believe it is practical.</p> <p>If California has done it, we can do it as well. We don't want to follow Alberta and get stuck in the oil and gas industry.</p> |
| <p><b>Amelia Hill,<br/>BC NDP</b></p> | <p>I hope that the statement holds the municipalities and the constituents accountable for their part in reaching this goal. Though this goal is ambitious it does not mean we should not all try our hardest to achieve it. This means education and innovation. We cannot maintain the same way we are used to. If elected this goes for myself and the government as well. I am pleased to see how the NDP intends to push alternative transportation. How they have set their own emission goals. As an elected I would push for collaboration between all levels of government to make sure that WVC keeps its beautiful forests and its gorgeous coast line. I would push for greater investments in green alternatives. I would require safety reviews on current infrastructure. Everyone wants our planet to survive for future generations. Now it's time for</p> | <p>I already spoke to this somewhat but I would advocate for greater protection of the ocean and our shore lines in regard to commercial ships and pollution. I would push for the retraining of individuals in dying industries towards green industries. I would advocate for alternative transport including improved transit. I would also advocate for alternative and innovative energy. I will push for protection of our forests. Finally, I believe to make a clean future accessible to all we need to continue to push education and understanding.</p> | <p>I believe my generation is seeing the terrors of our climate emergency first hand. So many of my friends are not even sure if they want children due to fear of what world they will be left with. That is why we need to act now as hope is fleeting, however good intentions are not.</p>  |

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| <b>Anton Shendryk, Independent</b>       | <i>No contact information</i>   |   |  |
| <b>North Vancouver, Seymour</b>          |   |   |  |
| <b>Candidates</b>                        | <b>Question 1</b>   | <b>Question 2</b>   | <b>Question 3</b>  |
| <b>Jane Thornthwaite<br/>BC Liberals</b> | The bold targets set by the District and City of North Vancouver will mean a lot of changes needed, but it is up to all of us to reduce emissions. The BC Liberals are committed to re-establishing B.C. as a global climate leader, and making sure people have clean and green choices for transportation, buildings and public services. | In addition to focusing on ensuring British Columbians have access to clean and green options for transportation, buildings and public services, the BC Liberals are committed to creating jobs and reducing energy costs by encouraging the retrofitting of homes and businesses. Also improve the provincial building code to maximize energy-efficiency in a way that respects communities' unique geography and avoids imposing one-size-fits-all costs with minimal environmental benefit. For me however, my personal focus is ensuring investment into rapid transit to the North Shore. We need to ensure that residents have access to transit that works and encourages more to choose transit instead of cars. | For me, I think it's critical we set a good example for our kids, I personally think a lot about my impact and how I live my day to day life in terms of how I can reduce my footprint on the planet. I drive an electric car, an electric bike and try to use transit as much as possible. I am a huge advocate for rapid transit to the North Shore and improving cycling safety on our roads and trails. I buy from local producers and retailers, ensuring the purchases that I make reduces the impact on the environment and has a low carbon impact. By making everyday choices to choose sustainability now, we not only limit our immediate impacts on the environment, but we teach future generations to make better choices and value the impact we have on the environment. |
| <b>Harrison Johnston,<br/>Green</b>      | Declaring a climate emergency is the first step towards climate action, but it is a really crucial one. As an organizer and mentor with the   | Transportation is absolutely key, especially on the North Shore. We need to be making big investments into fully electric, public   | I have been one of the lead organizers of the climate strikes in Metro Vancouver, including bringing more  |

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|  | <p>Sustainability, I have worked to pressure municipalities across Metro Vancouver to declare climate emergencies. When it comes to acting on these declarations, support from the provincial government is absolutely crucial. One of the main obstacles for municipalities wanting to take climate action is lack of funding. If I am elected, I will work closely with municipal governments to ensure that they are empowered and have the budget needed to take action.</p>   | <p>transit and walking/biking infrastructure. We also need to make sure that these are affordable options for people. Public transit should be free for low income people and youth 18 and under. We also need to help people afford the costs of e-bikes as an alternative to cars.</p> <p>We need to end the use of fracked gas in heating buildings by 2030, though ideally much sooner and we need to be investing in ensuring that people can afford the costs of the retrofits that are needed to make that happen. We also need to be working to build North Vancouver into a denser community. People should be able to easily walk, bike or bus all across the North Shore.</p>  | <p>than 100,000 people to the streets in September 2019 and welcoming Greta Thunberg to Vancouver in October 2019. While I have been old enough to vote for about three years now, many of my fellow youth organizers are not, including a number who are volunteering on my campaign. It has been incredible to see how motivated these young people are to fight for their futures and I wish that our politicians would show similar commitment. We need to lower the voting age to 16 to ensure that these people have a voice in the decisions that are being made about their futures.</p>   |
| <p><b>Clayton Welwood, Libertarian</b></p> | <p>Regarding the climate, declaring a state of emergency is not called for at this point, and introduces more risks than it mitigates. As we are now seeing with the provincial government's ongoing state of emergency to deal with Covid-19, the harms due to the restrictions are mounting: unemployment, depression, substance abuse, suicides, domestic violence, overdoses, the loss of small businesses, and seniors suffering in isolation and dying without loved ones nearby. This is tragic, but it is what happens when governments think they can use their power to control a global phenomenon, like a pandemic. Climate change is similar in its global nature, and the fact is that whatever BC or North Vancouver does to reduce emissions will not make a noticeable difference on global GHG concentrations.</p> <p>If elected as an MLA, I will follow the Hippocratic oath (first, do no harm) to the best of my ability</p> | <p>It's not that the target is intimidating, it's that it's unachievable. The only way it is conceivably possible to cut global emission in half is by taking away the only reliable energy source (fossil fuels) that is currently available to billions of people, and replacing it with nothing, or sources of energy that are not reliable. This would be very cruel to people who are struggling just to put food on the table. What we can do in North Vancouver is develop technologies that can reduce GHG concentrations. BC firms have been at the forefront of the development of alternative power sources like the hydrogen fuel cell, and CO2 capture technology.</p> <p>Government can set the conditions for firms like this to thrive in BC and potentially produce affordable technologies that can help mitigate climate change across the</p> | <p>Intergenerational theft comes to mind. By that I mean schemes that politicians come up with to buy votes (including climate plans like Clean BC) which they do not have the money to fund from current tax revenues. Therefore, they must be funded through borrowing, which means taxing the future earnings of our citizens who are not yet old enough to vote, or are not born yet. If the current escalation in borrowing continues, high taxes will not be the only burden of future generations; they'll also pay for the profligate spending of their parents and grandparents with diminished economic opportunities and lower standards of living.</p> |

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|                                      | and avoid coercive restrictions such as bans on gas-powered vehicles or grand plans to push the economy in a direction it is not yet ready to go. | globe. |  |
| <b>Susie Chant,</b><br><b>BC NDP</b> | <i>Did not respond</i>  |        |  |