

Written Submission for the Pre-Budget  
Consultations in Advance of the  
2021 Federal Budget  
By: Jim Loney

Recommendation 1: That the government provides funding in the amount of \$ 400,000,000 for the construction of the Ocean Falls Year-round Greenhouse, Hovercrafts, and personnel.

Recommendation 2: That the government provide funding in the amount of \$ 5,000,000,000 to facilitate the goals that are found under the heading Electrical generation and storage opportunities.

Recommendation 3: That the government provides funding in the amount of \$ 20,000,000,000 for the construction of the system described under the heading Transporting shipping containers without using freighters.

## Ocean Falls Year-round Greenhouse

To restart the Canadian economy, the government of Canada needs to invest in the infrastructure within Canada that is already in place. There is a partially abandoned town called Ocean Falls that “has a population of 70 people.”<sup>1</sup> It is located north of Vancouver on the west coast of Canada. The people who live there would like to see the town grow. As Toni Ziganash stated "It needs more people, we have an aging population," she said. "We would really like to see people come in and stay year round. Especially with people who have some energy."<sup>2</sup> Ocean falls has a independent dam that generates power<sup>3</sup> and the BC government is installing high-speed internet.<sup>4</sup> It is also worth noting that Ocean Falls has an annual normal precip (mm) of 4173,<sup>5</sup> which would help the town support an over 200 acre massive greenhouse that operated all year long.<sup>6</sup> While there is a little bit of land that is already cleared, the best place to build a massive greenhouse operation is on Link Lake at latitude 52.3436111, and longitude -127.668611. The water can be pumped off the lake using power from the dam.

The town already has an area cleared from when Ocean Falls was a company town, which would enable some accommodation to be built for the greenhouse workers and their families.

The only problem is the town can only be accessed by ferry and seaplane. However, a hovercraft could make the trip from Ocean Falls to Vancouver while transporting all the produce that the greenhouses would grow.<sup>7</sup> Then the hovercraft could bring supplies back to Ocean Falls.<sup>8</sup> The cost for one hovercraft is \$25,733,334.00.<sup>9</sup>

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- 1 Ugc, “Ocean Falls,” Atlas Obscura (Atlas Obscura, October 7, 2011), <https://www.atlasobscura.com/places/ocean-falls>.
  - 2 Matthew McFarlane, “Not Dead Yet: The Wet Beauty of Ocean Falls, B.C. | CBC News,” CBCnews (CBC/Radio Canada, June 16, 2019), <https://www.cbc.ca/news/canada/british-columbia/ocean-falls-government-25-people-town-british-columbia-canada-remote-1.5177001>.
  - 3 “Canadian Ghost Town Ocean Falls In British Columbia To Be Revived For Crypto Mining,” XBT.net (XBT Network, September 6, 2018), <https://xbt.net/blog/canadian-ghost-town-ocean-falls-in-british-columbia-to-be-revived-for-crypto-mining/>.
  - 4 Katya Slepian, “154 Remote B.C. Communities to Get High-Speed Internet,” The Free Press (The Free Press, January 17, 2018), <https://www.thefreepress.ca/news/154-remote-b-c-communities-to-get-high-speed-internet/>.
  - 5 Elana Shepert, “This Unique B.C. Place Receives the Most Rainfall in All of North America,” Vancouver Is Awesome (Vancouver Is Awesome, July 10, 2020), <https://www.vancouverisawesome.com/travel/henderson-lake-rainfall-north-america-1942496>.
  - 6 Debbie Lord, Theresa Seiger, and Michelle Ewing, “Construction Starts on \$250M Greenhouse Project,” WHIO (WHIO TV7, May 11, 2016), <https://www.whio.com/news/construction-starts-250m-greenhouse-project/cwoYJr95GaHGtnME1vcLJJ/>.
  - 7 Dan Petty, “Navy.mil Home Page,” January 17, 2019, [shorturl.at/prGP3](http://shorturl.at/prGP3).
  - 8 “United States Fact File,” October 10, 2007, [https://web.archive.org/web/20071221152137/http://www.navy.mil/navydata/fact\\_display.asp?cid=4200&tid=1500&ct=4](https://web.archive.org/web/20071221152137/http://www.navy.mil/navydata/fact_display.asp?cid=4200&tid=1500&ct=4).
  - 9 Xavier Vavasseur, “Textron Gets \$386 Million U.S. Navy Contract for 15 SSC Ship-to-Shore Connectors,” April 17, 2020, <https://www.navalnews.com/naval-news/2020/04/textron-gets-386-million-u-s-navy-contract-for-15-ssc-ship-to-shore-connectors/>.

## Electrical generation and storage opportunities

To restart the Canadian economy the government of Canada needs to invest in electrical infrastructure that will enable Canada to transition away from a petroleum-based economy at a faster rate since a robust and efficient cross-country interconnected electrical grid is being adopted. Doing the previous will allow new and diverse electrical enterprises, such as hyperloop transportation systems,<sup>10</sup> and electric vehicles<sup>11</sup> to be empowered and embraced as more of those enterprises interact with the electrical infrastructure created to support them. Canada interconnecting electrical grids from one end of the country to the other, as well as adopting the transmission of emissions-free or net-zero power into electrical storage systems, will move and store clean electricity throughout Canada. Doing so will not only help the environment; it will allow for new employment opportunities to be embraced as innovation is explored. New electrical generation and storage grids will enable individuals to contribute excess power, above what they need, to the network. That will allow and entice individuals to explore new ideas that will translate into new business ventures. Solar panels, concentrating solar power, Stirling engines, small hydro turbines, and tidal power are all examples of power generation technologies<sup>12</sup> that already exist and support emissions-free or net-zero power creation. Numerous electricity storage systems exist already, such as pumped hydroelectric storage systems, compressed air energy storage, molten salt thermal storage, redox flow batteries, conventional rechargeable batteries, non-lithium batteries, lithium batteries, thermal storage, and flywheels.<sup>13</sup>

To restart the Canadian economy the government needs to fund research, and support the creation of an interconnected national power grid strategy, which will facilitate additional electrical creation and storage projects. The government also needs to embrace carbon-free electrical power generation, power storage, and power transportation systems, which will allow Canada to reduce greenhouse gas significantly. This will translate into new technologies that will be able to be exported as new international markets are explored.

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10 “Technology,” HyperloopTT (HyperloopTT, July 25, 2020), <https://www.hyperlooptt.com/technology/>.

11 “Electric Vehicles Are Not Just the Wave of the Future, They Are Saving Lives Today,” Earthjustice (Earthjustice, June 25, 2020), [https://earthjustice.org/features/electric-vehicles-explainer?gclid=CjwKCAjw1K75BRAEEiwAd41h1PiC3192xhLraqr16zMLdQEdWNQvwafqjL3Qr\\_9sOLixbQRENRSdKxoCJ1MQAvD\\_BwE](https://earthjustice.org/features/electric-vehicles-explainer?gclid=CjwKCAjw1K75BRAEEiwAd41h1PiC3192xhLraqr16zMLdQEdWNQvwafqjL3Qr_9sOLixbQRENRSdKxoCJ1MQAvD_BwE).

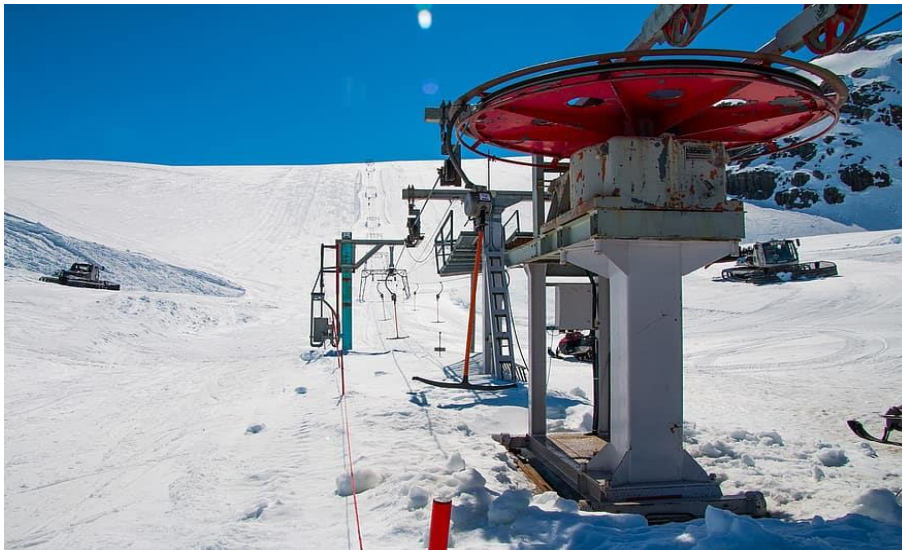
12 “Electric Power Generation, Monthly Generation by Type of Electricity,” Statistics Canada: Canada's national statistical agency / Statistique Canada : Organisme statistique national du Canada (Statistics Canada, June 8, 2020), <https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=2510001501>.

13 “Electricity Storage,” EPA (Environmental Protection Agency, April 3, 2018), <https://www.epa.gov/energy/electricity-storage>.

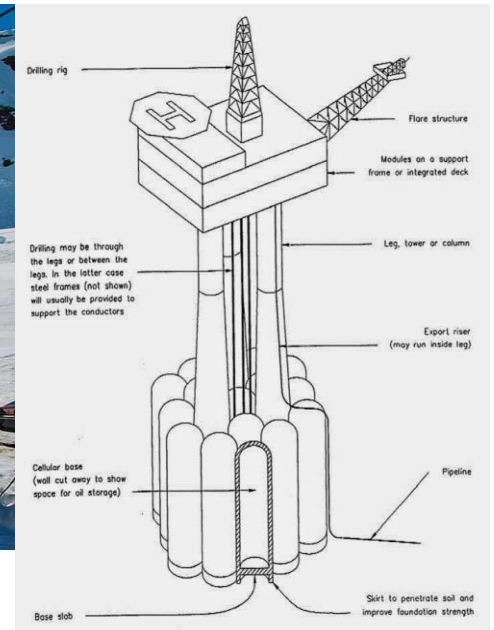
## Transporting shipping containers without using freighters

To restart the Canadian economy, the government of Canada needs to invest in technologies that save shipping companies that use freighters to transport shipping containers money as well as help reduce pollution. Currently, freighters and tankers are sailing from one port to another, all the while dumping vast amounts of pollution into the environment.<sup>14</sup> However, Canada could change the way cargo containers are delivered to different ports around the world. Instead of a freighter traveling to a bunch of different ports, it would sail to one port, offload containers on to barges that were going to the correct ports. The barge would be moved into position via tugboats. Once in place, the barge would connect to a cable that was traveling down the coast to another port. Once the barge reached its destination, the barge would release from the cable, and tugboats from the destination port would move the barge into a position so that it could have the containers unloaded.

The system would be like a combination of a much more substantial ski lift rotating mechanism / cable and a deep sea oil rig.<sup>15</sup>



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Canada could start by installing the system down the east and west coast of the United States, Mexico, and Central and South America. The system would be powered by electricity, which would add employment opportunities for Canadians who are trained in that trade. Canada would sell International shipping companies a license that would enable them to use the system. That would increase the employment opportunities for Canadians who were hired to build and maintain the system. The

14 "Shipmap.org," Ship Map (kiln.digital, 2016), <https://www.shipmap.org/>.

15 Nick Lioudis, "How Do Average Costs Compare Among Various Oil Drilling Rigs?," Investopedia (Investopedia, February 11, 2020), <https://www.investopedia.com/ask/answers/061115/how-do-average-costs-compare-different-types-oil-drilling-rigs.asp>.

16 <https://p0.pikist.com/photos/433/200/ski-lift-t-bar-lift-skiing.jpg>

17 [https://2.bp.blogspot.com/-vosbwvI3Wwk/VFtVF5co3hI/AAAAAAAAA7U/\\_ana53bObLg/s1600/Concrete%2BGravity%2BBase.jpg](https://2.bp.blogspot.com/-vosbwvI3Wwk/VFtVF5co3hI/AAAAAAAAA7U/_ana53bObLg/s1600/Concrete%2BGravity%2BBase.jpg)

International shipping companies would benefit from the system as they would save on the cost of fuel as well as on the maintenance of their shipping fleet.