

**From:** [Allan Patton](#)  
**To:** [Site C Submissions BCUC:EX](#)  
**Cc:** [Allan Patton](#)  
**Subject:** Future Power Needs  
**Date:** Sunday, September 10, 2017 8:08:55 AM

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September 9, 2017

To: BCUC

Re: Site C Submission

There are many areas of concern when considering the construction of Site C, as in: impact to Agriculture, increase in carbon emissions and decrease in carbon sequestration land, costs to rate payers, Indigenous Rights, impact on wildlife and wilderness areas, short term unsustainable jobs, etc. None of these issues are part of the narrow mandate required for this submission so I will keep my remarks focused on only the "future power needs" aspect.

It has already been determined that historical data and trends show conclusively that power derived from this dam will not be needed for many decades to come, especially when considering traditional consumption uses.

The real debate comes from the new untraditional uses of power. No doubt, converting all personal vehicles to electric will be the next big push and the next big excuse for building these electric producing energy mega-projects. However, when considering climate change, the primary question becomes "will electric vehicles reduce overall carbon emissions thus slowing climate change?" The only way electric vehicles could reduce carbon emissions is if the vehicles can pick up the electricity, from the road as they drive, like trains in Europe or buses in Vancouver with overhead wires or underneath like SkyTrain. If vehicles have built-in rechargeable battery packs there is virtually no reduction to carbon emissions.

Presently, on average, half of all carbon emissions in transportation are derived from the construction and demolition of vehicles; the other half derived from the fuel to drive the vehicle. With battery packs in every individual vehicle the carbon emissions of just the vehicle would rise to 75-85% from 50%. The carbon emissions from electric fuel would be 15-25% of transportation taking into account the emissions derived from the construction of the dam, the burying of carbon sequestering lands under water, and the transport of the electric energy to the vehicle from the dam. This results in a net gain of carbon emission reduction of zero or possibly worse.

Still the only real solution for reducing carbon emissions is public transportation, a system far beyond what we see today.

Therefore, even with the advent of electric vehicles, carbon emissions would not improve, so building energy mega projects like Site C are unnecessary and add huge financial and environmental costs to consumers for little or no discernable gain, to say nothing of ignoring the rights of Indigenous Peoples.

Thank you for your attention to this very important matter,

Allan Patton

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Past: BC Fruit Growers Association Executive - 5 years  
Electoral Area C RD Okanagan Similkameen Director - 3 terms