

Name: Douglas Jack

Date: October 11, 2017

Subject: Every city as an energy exporter just cleaning up concentrations in the built environment.
Submission on Site C Dam

Dear British Columbia Utilities Commission,

I am writing to urge you to recommend that the Site C Dam be rejected. The project has serious financial and environmental problems, and runs counter to the goal of seeking reconciliation with Indigenous peoples.

The financial costs of continuing with construction are just too high. According to a report prepared for your commission by Deloitte, there is a growing chance that the project will go significantly over-budget. Rather than spend so much money on a dam we don't need, the lowest cost option is to just cancel the dam.

There are better alternatives. BC can meet all its energy needs through building retrofits, energy efficiency, and investing in renewable energy. The BC NDP's own Power BC plan lays out how we can create more jobs and better value.

The environmental impacts are not justified. The project's environmental assessment concluded that the dam would "cause significant adverse effects on fish and fish habitat...birds and bats...rare plants, and sensitive ecosystems." Given that there are alternatives, these impacts can not be justified.

The project does not have the consent of the Treaty 8 First Nations. This project will have a devastating impact on the treaty and Aboriginal rights of Treaty 8 First Nations. The project will eliminate these First Nations' ability to continue their way of life and will severely curtail their treaty-protected constitutional rights to hunt, fish, trap, harvest and carry out their practices on their land.

The Site C Dam is clearly not in the public interest. Please recommend to the BC Government that this project be canceled.

EVERY CITY AS CLEAN-ENERGY EXPORTERS

In the built urban environment are concentrations of renewable energy sources which are presently causing damage to human health, buildings & the environment. Diverse renewables representing both combustible & electric sources can be fed into gas or electric grids eliminating the need for storage are more available at less cost than foreign or rural extractive sources:

1st capturing the methane, ethanol & fertilizer available from massive volumes of fecal, urine & plant (vegetable/fruit) refuse can supply 25% of every population's energy needs. Fecal, urine & plant material are the smell & health hazard in sewage & garbage which keep waters & materials from reuse, recycling. Such natural gas capture can provide all internal combustion transport needs.

<https://sites.google.com/site/indigenecommunity/design/5-bio-digestion-toilet>

2nd capturing wind on building wind-shear surfaces with linear-axis helical wind blades. Shear winds concentrate 12-15 times ambient force presently causing extensive building damage as well as making

street spaces uninhabitable. Shear winds turbines can provide 20% of urban electric energy needs. 3rd capturing 'kinetic' (non-dammed flows) water concentrations on bridge pylons. Bridge pylons can hold both kinetic linear-axis helical water turbines below & wind turbines above the water line. Pylon mounted turbines can deliver 20% of urban electric energy needs. Flow concentrations cause damage to fish, crustacean, bird river travel as well as erosion to sediments.

4th capturing solar energy through passive windows, photo-voltaic panels & solar-hot-water-heating mounted on the south side of buildings with porch overhangs to let in winter sun & keep out summer sun. Uncaptured solar energy causes billions of dollars of damage to buildings. Solar can provide 20% of urban heating, cooling & electric energy needs. <https://sites.google.com/site/indigenecommunity/design/9-Complementary-energy> not only can prevent a trillion dollars loss per year of energy concentrations to our infrastructure, but as well capture this same trillion dollars in sustainable renewable energy use. With these 4 & other sources each city can be exporters of renewable energy for permanent operating income.

Sincerely,
Douglas1 Jack

