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Forecasting human health impacts of reservoir creation and food consumption advisories: an integra

Abstract Number: 10641

Session: SS062: Socio-ecological Complexity in Regulated Aquatic Ecosys: Transforming potential conflicts

Session Type: Oral Presentation

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Room: Esquimalt

: Hydroelectric power accounts for 59% of total electric generation in Canada and 85% of renewable generat 2050. Flooding associated with reservoir creation produces a pulse of bioaccumulative, neurotoxic methylme reduce human exposures. In Canada, roughly half of hydroelectric capacity is installed within indigenous tre: relatively large quantities of fish, birds and other aquatic species that bioaccumulate MeHg but supply a disp levels using reservoir design and soil parameters. We screen proposed hydroelectric projects and show that produce less MeHg following flooding. Using the case study of Muskrat Falls, Labrador, Canada, and three dc development on MeHg exposures and of food consumption advisories on nutritional sufficiency. Model scer following completion of the reservoir flooding. However, replacing traditional foods with plausible alternativ 70%. This substitution may pose greater cardiovascular and cancer risks but lower neurological risks than th risks to indigenous health from MeHg could be minimized by site selection and design features of new facilit nutrient traditional foods from the marine environment would maximize health benefits associated with tra

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