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Three Summers of Field Work on methane, Montney Play, NE BC.

Notes taken from the audio of the presentation.

'Addressing methane emissions from the oil and gas sector.' Unprepared comments.
Presentation 5 of 5 at Webinar on Methane, Clim. Action Network, 4-5 May 2017

This work was sponsored by the David Suzuki Foundation, and involved 3 summers, 2-3 weeks each summer, in the Montney Play (Ft. St. John) driving lots and taking measures and observations.

Marshall mentioned 60% Alta, 250% BC. Why different? One of reasons, Werring surveyed all of the upstream industry leakages:

- compressor facilities
- batteries
- well sites
- surface casings

...whereas Alta primarily did pneumatic devices.

After field survey with truck, did some ground work. Found that pneumatics are a significant part of the unreported emissions. Particularly in Montney because the well sites are so isolated from electrical grid, they run all pneumatic devices on CH₄ (from wells). That material should be included.

Emissions much higher than reported, not required to report upstream emissions in any substantive way. Not required to repair anything. So if have a surface casing vent flow, only if extreme is it reported, but no idea of the volume loss and if minor or extreme.

CAPP 1970's. They know leaks are happening, they know how to fix them, but they are not required to fix them. They need to get out there and do something! I can tell you that after 3 summers in the Montney, driving lots, I have never seen any crew or group of people out there doing any kind of well inspection or repair. I think this is really critical.

Some of the highest emissions we saw were compressor stations or batteries usually behind gates. We couldn't determine whether or not, and to what degree, they were emitting. Direct measures we were able to make were pneumatic devices. They could do in almost every site. Industry argued they were waiting for electrification, possibly Site C to supply. He didn't think this will ever happen. He thinks renewable energy, like solar panels, wind and batteries, to supply electricity could be very important to supply electricity and reduce emissions! [Then why not use solar and wind to begin with, forgetting about the gas?]

We have to realize emissions are much higher, regulations have not taken care of them, both Fed and Prov governments need to step up and introduce regulations that require that these emissions are captured. If there is faulty equipment or infrastructure, it should be repaired ASAP.