

DOCKETED	
Docket Number:	20-IEPR-02
Project Title:	Transportation
TN #:	243287
Document Title:	Prometheus Fuels Comments - Regarding the Draft 2020 IEPR Update
Description:	N/A
Filer:	System
Organization:	Prometheus Fuels
Submitter Role:	Public
Submission Date:	5/25/2022 1:15:12 PM
Docketed Date:	5/25/2022

*Comment Received From: Prometheus Fuels
Submitted On: 5/25/2022
Docket Number: 20-IEPR-02*

Regarding the Draft 2020 IEPR Update

Additional submitted attachment is included below.

From: [Denis Lahaie](#)
To: [Energy - Docket Optical System](#)
Subject: Docket No.: 20-IEPR-02 _ Prometheus Fuels comments regarding the Draft 2020 IEPR Update
Date: Wednesday, May 25, 2022 12:42:46 PM

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----- Forwarded message -----

From: Denis Lahaie <denis.lahaie@gmail.com>
Date: Wed, May 25, 2022 at 3:25 PM
Subject: Tjuvholmen Gruppen/Prometheus venture in Canada _ Are you tired of seeing a petro-dictator (Putin) invading a burgeoning democracy (Ukraine)?
To: rob@prometheusfuels.com <rob@prometheusfuels.com>, <info@tjuvholmen.org>, <firmapost@autotjuvholmen.no>, <mr@autotjuvholmen.no>, <emb.ottawa@mfa.no>, Rob McGinnis <rob@mattershift.com>

Are you tired of seeing a petro-dictator (Putin) invading a burgeoning democracy (Ukraine)?

I am...

So right here in Gatineau, Québec, Canada, we can make a difference.

We produce electricity for our Resolute Forest Products paper mill (https://www.resolutefp.com/installation_site.aspx?siteid=166&langtype=4105) at such a good efficiency that we can even profit by selling our excess power to Hydro Québec, the utility with the lowest electricity rates in North America. How? By burning biomass, bark, paper machine sludge.

So here is the PLAN:

- 1_ Install one Prometheus module at our main boiler No 12 to produce ethanol, with its oxygen and hydrogen as by-products.
- 2_ Use the ethanol to sell to the Montréal airport to power planes, and to power our fleet of trucks. Alternately use some to power our stand by boiler No 7 (instead of using natural gas) when our main boiler No 12 is out of service.
- 3_ Feed the hydrogen to our main boiler No 12 or alternatively send it to the natural gas grid as green hydrogen (green natural gas can be made up of 20% hydrogen and 80% fossil fuel natural gas - not the best but it's a step in the right direction).
- 4_ Feed the oxygen in our water treatment plant. This could be the world's first green oxygen water treatment plant.
- 5_ Grow duckweed as an alternate biomass (one of the fastest growing plants) in our nearby Ottawa river, based on research work made at Rutgers University, town of New Brunswick, New Jersey, USA. See <http://rutgerslamlab.weebly.com/duckweed-research.html>. This is basically trying to create a man made Azolla event, see https://www.wikiwand.com/en/Azolla_event, to use atmospheric CO2.

Cheers,

Denis Lahaie
1-613-402-3701

<https://www.linkedin.com/in/dlahaie/>

On Tue, Mar 29, 2022 at 11:00 PM Denis Lahaie <denis.lahaie@gmail.com> wrote:

Hi Rob, can you imagine producing ethanol for our trucks, and we use the oxygen byproduct to deal with our waste water (having less oxygen to buy) and feed the hydrogen into our bark fired boiler to produce more electricity.

Pennies for your thoughts,

Denis
1-613-402-3701

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From: **Denis Lahaie** <denis.lahaie@gmail.com>

Date: Mon, Nov 22, 2021 at 1:18 PM

Subject: Tjuvholmen Gruppen/Prometheus venture in Canada

To: <info@tjuvholmen.org>, <firmapost@autotjuvholmen.no>, <mr@autotjuvholmen.no>, <emb.ottawa@mfa.no>

Attention: Mr Mats Røil
Daglig Leder CEO
Tjuvholmen Gruppen

I would like to commend Tjuvholmen Ventures for the investment made in the USA based company Prometheus, reference <http://www.tjuvholmventures.no/portfolio/>, and their plan to develop ethanol producing units using renewable electricity, reference https://www.wikiwand.com/en/Prometheus_Fuels. Prometheus strategy to use diluted bicarbonate (HCO₃), and not atmospheric carbon dioxide (CO₂), make their process more energy efficient. On our side, we can use: 1) the process byproduct hydrogen to boost our boiler efficiencies and 2) the process byproduct oxygen for our water treatment plant. Therefore, all process chemicals produced, ethanol + hydrogen + oxygen, could potentially be utilised.

I would like to link up with Prometheus' Rob McGinnis. Cheapest electricity rates in North America? Right here in Québec, and my employer Gatineau-Quebec based Resolute Forest Product mill sells to the provincial utility Hydro Quebec biomass produced electricity from our 14MW steam turbines, please check https://www.resolutefp.com/installation_site.aspx?siteid=166&langtype=4105

How about making jet fuel for the Montreal airport, and fuel for our trucks carrying wood chips/bark?

Rob has the business plan to create ethanol producing units of one million gallons/yr each, more or less the equivalent of one gas station. We would be interested in troubleshooting the

beta operation of his standard size unit, then perhaps move on to bigger/multiple units.

We are located nearby Ottawa, so a representative of the Norwegian embassy could easily help liaise with Tjuvholmen Gruppen.

With best regards,

Denis Lahaie

Project Manager

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