From: Annalyse Keller annalyse@jdaflpartners.com
Date: Thursday, September 21, 2023 at 4:52 PM
To: bill@realclearpolicy.com bill@realclearpolicy.com
Subject: Op-Ed for Consideration: Through Clean Hydrogen Production, Alberta, Canada is Leading the Way to a Decarbonized Energy Future

Hi Bill –

Hope all is well! Checking with you first to see if Real Clear Energy has interest in running an exclusive op-ed from Alberta's senior representative to the United States, James Rajotte, regarding Alberta's clean hydrogen production, the role of the province in a lower carbon energy future, and ways in which Alberta and the United States can work together to achieve energy security and independence for North America.

This op-ed is extremely timely given the ongoing NYC Climate Week.

Please let me know if you have any questions or if you have interest in running this piece.

Thank you so much for your consideration.
Annalyse

Best,

Annalyse Keller
Managing Director
JDA Frontline Partners

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Through Clean Hydrogen Production, Alberta, Canada is Leading the Way to a Decarbonized Energy Future

During New York Climate Week, Alberta's Senior representative to the U.S. highlights the role the province's hydrogen production can play in a lower carbon energy future

By: James Rajotte
Word Count: 757

Every year in New York City, business leaders, policymakers and members of the climate industry from around the world coalesce for Climate Week, a multi-day event hosted by the international non-profit Climate Group in partnership with the United Nations General Assembly. This is an opportunity for us to connect, synthesize our ideas and share our successes to determine how we can best work together to achieve a decarbonized energy future. As Alberta's Senior Representative to the United States, I was honoured to attend and share all that our province has accomplished to secure a lower carbon energy future.

You may not know that Alberta, one of ten provinces in Canada, is the top foreign supplier of energy products to the United States. Alberta has been a global leader in responsible energy production for decades and was the first jurisdiction in North America to apply a price to industrial carbon emissions. We were among the first and earliest adopters of carbon capture utilization and storage, our companies have invested billions of dollars in green tech to reduce their environmental footprint, and we have proven our unwavering commitment to reducing the emissions of our energy production, including the oil sands. We are proud of our vibrant and diversified energy sector which feeds increasingly into low carbon emitting products.

Our nations are neighbours, allies and essential trading partners, and while we have accomplished much together, there is more we can do to advance a sustainable, low-carbon economy, while supporting North American energy independence and security. One of the ways we will do that is through hydrogen.

Hydrogen will play a vital role in a lower-carbon energy future for decades to come. Combusted hydrogen primarily emits water vapor, produces no greenhouse gas emissions at point of consumption and according to the International Energy Agency, hydrogen fuel needs to account for 12–13 precent of the global energy mix by 2050 to reach net zero. Understanding its potential for responsible energy production, the U.S. and countries around the world are taking swift action to deploy hydrogen domestically and secure imports of supply from international markets.

In fact, earlier this summer the Biden-Harris administration released their U.S. National Clean Hydrogen Strategy and Roadmap, which outlines the current state of U.S. hydrogen production and use and sets forth an all-of-government approach to clean hydrogen. Paired with $9.5 billion in federal funding from the Infrastructure Investment and Jobs Act of 2021 and substantial tax credit opportunities in the Inflation Reduction Act, hydrogen is well-positioned in the United States for broader research, development and deployment.

Further, America's growing hydrogen economy has the potential to add 100,000 net new direct and indirect jobs by 2030. As the U.S. works to harness the potential of hydrogen, it can strengthen its energy security and contribute to the expansion of clean energy by sourcing this clean fuel from allies like Alberta. That's because, in Alberta, we have the production capacity to satisfy local demand while providing significant quantities to other Canadian provinces and international markets – especially the United States. Alberta is already Canada's largest producer of hydrogen and hydrogen carriers, such as ammonia and methanol. And the province produced approximately 2.5 million tons of hydrogen in 2021, representing an increase of about four percent from 2020, according to the Alberta Energy Regulator.

Alberta also has extensive carbon capture, utilisation and storage experience and a hub system for carbon sequestration, which, in partnership with its low-cost and extensive natural gas reserves, has generated investor interest across the value chain. Alberta's clean hydrogen will be low-cost, enabling the market in the

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U.S. to develop and reduce emissions on a shorter timeframe than waiting for expensive green hydrogen to come down in value.

And the investments are well underway. Alberta is the site of one of the first natural gas fed net-zero hydrogen production facilities, being constructed by Air Products. It will feature extensive carbon capture technology alongside hydrogen-based power generation to produce some of the cleanest hydrogen in North America.

Alberta also has extensive experience and technical capacity in producing, handling and using hydrogen at industrial scale. Combined with the necessary skilled labour that pioneered Canada's energy industry, these skills and information sharing will be vital to realizing a net-zero future for our countries.

The bottom line: Alberta has the resources and technical experience to support the United States in its mission to develop clean hydrogen as an effective decarbonization tool. And we look forward to working together to achieve energy security and independence for North America.

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