

NUCLEAR

Nuclear is getting a second look as a source of low-emission, high density energy. Because of its high density, nuclear requires only a fraction of the mining, processing and infrastructure compared to every other source of energy including renewables.

- The IEA says that over the past 50 years, global nuclear energy has reduced GHG emissions by 60 Gt (2 years worth of global energy-related emissions).
- To meet climate goals, the IEA says that clean sources of electricity must expand from 36% of the current electricity mix to 85% by 2040. It recommends carbon capture and expanded production of nuclear electricity by 80% by 2040.
- The Canadian nuclear industry currently supports 76,000 direct and indirect jobs, the vast majority highly skilled.
- The nuclear supply chain is 95% Canadian, considerably higher than, for example, wind and solar installations.
- Canadian nuclear also produces the majority of the world's Cobalt-60, used to sterilize 40% of the world's single-use medical devices.
- Wind and solar have a place in the overall mix, but they are low-density and intermittent. The supply chain is almost entirely outside Canada; installations last only 20-25 years, after which the materials are discarded as waste. The IEA views nuclear as a backstop to a renewables mix.
- The development of Small Modular Reactors (SMRs) will make this technology more affordable and versatile especially for industry and remote communities.
- Canada is a global leader in nuclear technology. SMR technology exports could be worth \$150 B/yr by 2030.
- New technologies and practices allow some waste to be recycled, and ensure automatic ("passive") shut-downs.

ALBERTA INITIATIVES

The Government of Alberta is introducing initiatives to help Alberta diversify its mix of energy products. A responsible federal government would support - even applaud - these initiatives. They will not only expand Alberta's economy, but will drive Canada's economic recovery and need for revenue, and contribute to global efforts to reduce carbon emissions. Some of those initiatives include:

- Alberta's methane reduction program will cut methane emissions by 45% from 2014 levels by 2025.
- Investments in emissions control technologies will cut 13 million tonnes by 2030 (equivalent to 4 million cars off the road) and create 5,000 skilled jobs.
- Investments in the petrochemicals industry will diversify Alberta's economy while using Alberta's abundant supply of natural gas. The target is to grow the sector by \$30 billion by 2030 while creating 90,000 jobs and generating \$10 billion in tax revenue from value-added petroleum products.
- Legislation will lay the groundwork for new geothermal energy projects.
- Alberta will promote the use of natural gas to extract clean hydrogen fuel. Hydrogen produces only water, no CO2; by 2050 it is estimated it will generate \$US 2.5 Trillion and 30 million jobs worldwide.
- Alberta will promote a plastics "circular economy" using petrochemicals to create plastics products, with enhanced recycling technologies to reuse the waste for new products.



GREG McLEAN
MEMBER OF PARLIAMENT
CALGARY CENTRE

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Dear Constituents,

In September I was named the Conservative Party's Shadow Minister for Natural Resources. This is a very important portfolio for the constituents of Calgary Centre. So many of us make our living either directly, or in many cases indirectly, from the health of a robust natural resources industry.

The Liberals wear ideological blinkers when it comes to Alberta's economy. If they would remove those blinkers, they would see the many responsible ways that Alberta produces energy for the world, and the many new ways we can continue to meet that demand in a world increasingly conscious of global carbon emissions.

We don't need virtual signalling or empty symbolism. We need real solutions, and they do exist. The solutions are in front of us, if the Liberal government would open its mind and take a look.

My job includes, in part, talking to my colleagues of all parties from across the country to help them understand the many ways that Alberta responsibly produces the energy that they use every day, and the many more opportunities that are currently available.

In this newsletter, I focus on some of those opportunities. I welcome your feedback on a return postcard, or you can answer the questions on my website.

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Greg McLean, MP

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RAISING ENERGY ISSUES IN PARLIAMENT

I frequently speak about energy issues in the House of Commons. Here are some examples of holding the government to account from this session of Parliament. See the video (and others not featured here) on my website (GregMcLeanMP.ca/News) or on YouTube ([GregMcLean](https://www.youtube.com/channel/UCGmMcLean)).



Nov 6: Defending my Private Members Bill on Qualifying Environmental Trusts

I have submitted a Private Members Bill (Bill C-214) on Qualifying Environmental Trusts. The

Liberals are pulling out all of the stops to attempt to throw this bill out. I am standing my ground. Here I am defending why the House should consider this Bill.

The Income Tax Act provides for a Qualifying Environmental Trust which is a special kind of trust for setting aside reclamation costs for mining sites, waste disposal and quarry sites, as well as pipelines.

My Bill C-214 would amend the Income Tax Act to include trusts that are maintained for the sole purpose of funding the reclamation of an oil or gas well.

At a time when this Government has intervened with an emergency \$1.7 Billion to address the historical problem created by excluding oil and gas remediation from being classified as Qualifying Environmental Trusts, why is the Government attempting to disallow a measure that will bring some overdue equity in the treatment of our oil and gas industry?



Nov 2: Seconding Bill C-229 to Repeal the Canadian Oil Tanker Ban.

On November 2 I rose in Parliament to second Bill C-229, introduced by my colleague from Edmonton Centre, MP James Cumming, which would repeal the Canadian Oil Tanker Ban on BC's north coast.

This Liberal government implemented a ban on Canadian oil tanker traffic on the northern BC coast, but not on US oil tanker traffic which continues to sail down our west coast, not on tankers carrying products other than Alberta oil, and not on tankers operating on Canada's east coast or St. Lawrence River that bring oil to eastern provinces. It has been yet another obstacle to Canada's prosperity and our appeal as a location to invest, because it effectively blocks any oil pipelines through northern BC, including those proposed and supported by Canada's First Nations. This is my speech in support of that bill



Oct 29: Statement in Support of Canada's Oil and Gas Workers

On the day following the 40th Anniversary of the Trudeau Liberals' National Energy Program - introduced on October 28, 1980

under Pierre Elliott Trudeau - I addressed the House about this government's ongoing antagonism to the industry and disrespect for the hard working people who make their living in that industry, from coast to coast to coast. They too often forget how many families rely on a robust oil and gas industry to keep food on the table. Where is their oft-professed support for middle-class Canadians?



Oct 8: Asking Why the Federal Government is Blocking Alberta's Plastics Strategy

The Government of Alberta announced a petrochemicals diversification plan to develop environmentally friendly plastics and a world class plastics recycling industry. The very next day, at a hastily called press conference, the Liberals announced regulations that will give serious concerns to potential investors in this diversification initiative. Why are the federal Liberals so determined to block any new jobs in Alberta, even when those jobs are environmentally responsible?



Sept 30: Reply to the Speech From the Throne

My speech touched on several economic issues and made recommendations.

For example, I told the government they must remove the structural impediments to those industries that have been hit unusually hard and may take years to recover.

I also noted that the government feels it needs to retrain Canada's accomplished scientists, engineers and technicians, while claiming to "follow the science". We already have people well trained in following the science, who are global leaders in Canada's sustainable and accountable natural resource industries, industries that produce much of the wealth this government is planning to reallocate.

THE EVOLVING ENERGY SECTOR

Climate change is a global issue. Canada's contribution in actual emissions is very small (about 1.6%) but we can punch above our weight by helping other countries bring their levels down. Technology and innovation are reasonable and responsible ways that our small country can make a big impact on a global issue, which includes exporting environmentally responsible oil and gas.

LIQUID NATURAL GAS

The International Energy Agency (IEA) cites conversion from coal to LNG as a key element in reducing global emissions and cites it as a "quick win" as it is swifter than developing non-renewable sources or reducing demand. If major emitting countries switched from coal to existing gas-fired plants, the IEA says there would be an instant benefit because switching from coal to gas reduces emissions by about 50%.

Canada was slow to take advantage of this global opportunity, allowing the US and Australia to get ahead of us in exporting LNG. There is still market share available: the IEA projects a 36% increase in demand by 2040 - but leaders must remove the blinders that insist all fossil fuels must be phased out.

CARBON CAPTURE

I visited the Alberta Carbon Conversion Technology Centre near Calgary. The ACCTC tests carbon dioxide capture and conversion technologies that assist in GHG reductions by converting CO² into commercially viable, value-added products. The centre offers innovators the facility to test and refine technologies using flue gas emissions from the adjacent natural gas-fired power plant. Potential products include alternative building products, bioplastics and chemicals used to manufacture industrial and consumer goods.



MINING

Canada has the opportunity to supply rare earth and other metals required for electric vehicle and power storage batteries, but the government needs a plan - and soon - because other countries like China are pressing forward. Our federal government is keen on electric vehicles, but seems complacent about the opportunity to supply necessary inputs. Aluminum, copper, cobalt and nickel will be required in large quantity; Alberta has critical lithium abundant in the oil sands. Canada's reputation for investment in big projects, however, is that we are slow and cumbersome. We can take 5 to 7 years to approve projects, by which time China will be busy exporting.

RESPONSIBLE OIL & GAS

Half the oil used in eastern Canada is imported at an annual cost of about \$19 Billion. We should not import oil from countries like Saudi Arabia, Russia and Nigeria. Much of it is not environmentally responsible; using it contributes to higher global CO², methane emissions damage to land and water.

Canadian oil is more environmentally responsible compared to these countries, but if we refuse to export our oil, the world will not use less oil. It will simply buy it from these and other countries with poor environmental and human rights practices.

Since 1990, Canadian emissions from oil production have dropped 32% per barrel, and Canada is a leader in reducing fugitive methane emissions (methane being much more toxic than CO²). We should supply our own country if we are serious about environmental responsibility.

QUESTIONNAIRE

1. Canada should aggressively pursue nuclear energy as a low emissions alternative for use here at home and export abroad:
 Yes No Not sure
2. Canada should immediately repeal the Canadian Oil Tanker Ban on BC's coast to facilitate export of Canadian products:
 Yes No Not sure
3. Capturing carbon to make useful products is a good initiative worth investing tax seed money to get up and running:
 Yes No Not sure

Comments or Questions:

I would like to receive Greg's e-newsletter. My email: