

**MINISTRY OF ENERGY, MINES AND LOW CARBON INNOVATION
ENERGY INNOVATION BRANCH
INFORMATION BRIEFING NOTE**

PURPOSE: For INFORMATION for David Eby, KC, Premier

For INFORMATION for Shannon Salter, Deputy Minister, Cabinet
Secretary and Head of the Public Service

ISSUE:

Premier's participation at Townhall event with New Economy Canada (NEC) is an opportunity to highlight the Province's clean energy leadership and hear feedback from low-carbon economy leaders.

Event: Townhall in Victoria, Empress Hotel, November 23, 2023, 11:30 am -12:30 pm

SUMMARY:

- NEC is a mostly energy-focused coalition of Canadian businesses, labour organizations, Indigenous leaders and sectoral experts focused on positioning Canada and British Columbia (B.C.) to take advantage of the economic opportunities represented by the low-carbon economic transition.
- NEC is significant because it includes a diverse membership across existing sectors (e.g., mining, cement, energy) and growing sectors (e.g., indigenous clean energy).
- NEC shares the Province's goals of a strong, low-carbon economy; it is also advocating for supportive policies provincially and federally.

BACKGROUND:

In May 2023, NEC coordinated a federal lobbying event to engage politicians and policymakers in a discussion about what is needed to position Canada for success in a clean economy, including: collaboration across industries; Indigenous inclusion; clear market signals to industry; and helping Canadians access new careers.

November 22-23 are dates that NEC has arranged numerous meeting with ministers and staff in EMLI, ENV and IIT.

B.C is a leader in energy decarbonization with many recent examples of initiatives the Premier can speak to, including:

- **Clean Energy and Major Projects Office** to fast-track clean energy and technology and create good, sustainable jobs in the transition to a cleaner economy.
- **New Energy Action Framework** to ensure oil and gas sector projects fit within B.C.'s climate commitments and create new opportunities for people in clean energy and technology. This includes a regulatory emissions cap for the oil and gas sector.

- **Climate Aligned Energy Framework** to maximize the province's production of clean energy to use for home and export. This will support initiative such as the 450km **North Coast Transmission Line** from Prince George to Terrace which will provide clean electricity for ports, mining and clean fuel production.
- **BC Hydro Task Force** to work with First Nations, clean-energy companies and BC Hydro to design BC Hydro's call for power in Spring 2024 and accelerate the delivery of infrastructure to support a decarbonized energy system.
- **Indigenous Clean Energy Opportunity Process** to collaborate directly with First Nation right holders to identify clean energy economic development opportunities, including in generation of clean electricity. This includes \$140 million announced in June 2023 to support smaller Indigenous-led power projects that is proceeding in parallel with BC Hydro's call for power from larger utility-scale projects in Spring 2024.
- **EMLI Minister Mandate Letter commitment to Review the role of the BC Utilities Commission to better support BC's clean energy transition**, in alignment with the Province's climate goals and affordability objectives.

The Province has also made numerous recent announcements:

- On November 14, 2023 the Province announced a \$1.05-billion partnership between E-One Moli and the governments of B.C. and Canada that will bring lithium-ion battery cell production to Maple Ridge. The Province is contributing \$80-million to this partnership.
- McLeod Lake Indian Band and the Province recently signed agreements outlining co-management and stewardship of the land and natural resources including a revenue-sharing agreement as well a restoration fund to heal the land. This supports the groundwork for a Mitsubishi Power and McLeod Lake Indian Band partnership to create the **Tse'khene energy hub**, a \$7 billion project to produce low-carbon energy, create jobs and advance Indigenous economic reconciliation.
- Tidewater Renewable's \$380-million renewable diesel refinery built in Prince George with the support of the Province's Low Carbon Fuel Standard under a Part 3 agreement. The facility is **Canada's first renewable diesel and renewable hydrogen complex**.
- In partnership with the Government of Canada, the Province and BC Hydro announced in January 2021 a new CleanBC industrial electrification rate that offers a discount on BC Hydro's standard industrial rates to new clean industries setting up or expanding operations in BC, including hydrogen and biofuels.

Economy-wide energy decarbonization in BC is also heavily affected by the global context. To reach net zero emissions by 2050, annual clean energy investment worldwide will need to more than triple by 2030 to approximately \$4 trillion. Jurisdictions recognize this economic opportunity, and the United States (U.S.) has taken the lead to attract investment through the Inflation Reduction Act, which includes clean energy and fuel production credits. ^{s.13}

s.13

The Federal government has announced a range of tax credits in Budget 2023 to address part of this incentive gap. The Federal government also announced that it would be introducing a mechanism to provide certainty of future carbon credit prices (Carbon-Contracts-for-Difference) but the details have not yet been announced. [Note: the Federal Fall Economic Statement is scheduled for November 21, which may provide further information on supporting federal initiatives.]

Economy-wide energy decarbonization will be supported by, and benefit the environmental and cleantech (ECT) sector which is a major economic contributor in BC:

s.13; s.17

DISCUSSION:

It is expected that New Economy Canada will use this event as an opportunity to introduce their initiatives and seek support for future discussions with Federal officials. They will likely highlight the economic opportunity that the global energy transition presents, and the need for domestic policymakers to facilitate relationships between industry and policymakers. s.13; s.16

s.13; s.16

Key Messages:

s.16

- Through CleanBC, the government is working with industry, indigenous organizations and innovators to create new opportunities for clean, low-carbon growth that are globally competitive and build on B.C.'s clean energy and clean tech advantages.
- The Province is committed to energy decarbonization with many examples of strong leadership such as the CleanBC Roadmap to 2030, with commitments for a 100% clean electricity standard and a doubling of made-in-BC renewable fuels.
- Earlier this November the Province signed a statement of co-operation with Newfoundland and Labrador, agreeing to work together to advance clean-energy solutions such as hydrogen and to support the export of clean energy technologies and energy.
- On November 14, 2023, the Province announced A \$1.05-billion partnership between E-One Moli and the governments of B.C. and Canada will bring lithium-ion battery cell production to Maple Ridge and create 450 high-quality, permanent jobs that are key to growing the province's clean economy. The Province is contributing \$80-million to this partnership.
- The Province is encouraged to see groups such as New Economy Canada advocating for a strong commitment to energy decarbonization Canada-wide.

INDIGENOUS PEOPLES CONSIDERATIONS:

The transition to a low carbon economy presents a real opportunity for economic reconciliation for Indigenous Peoples in BC. This is why the Province established the Indigenous Clean Energy Opportunities Initiative, and why there is Indigenous engagement in the BC Hydro Task Force and Climate Aligned Energy Framework initiatives (including \$140 million to support Indigenous clean power project participation).

GBA+ OR DIVERSITY AND INCLUSION IMPLICATIONS:

Clean technology and energy sectors have greater representation of men in the work force so support for this sector may reinforce existing gender equity imbalances.

OTHER MINISTRIES IMPACTED/CONSULTED:

- ENV, JEDI, EMLI have all provided materials and reviewed this note.

Prepared by:

Kym Thrift
Director, Innovative Clean Energy Fund
EMLI
778-698-4014

Approved by:

Les MacLaren ✓
ADM, Electricity and Utility Regulation Div.
EMLI
778-698-7183

Attachments:

Appendix 1 - Townhall Participant List (follows)

Appendix 2 – BC Government Clean Energy and Technology Support Program (follows)

Appendix 1: Townhall Participant List*

**Participant list subject change.*

| <u>Company Name</u> | <u>First Name</u> | <u>Last Name</u> | <u>Position</u> |
|-------------------------------------------------|--------------------------|-------------------------|----------------------------------------------------|
| Innergex | Colleen | Giroux Schmidt | VP |
| Teck | Stephanie | Tan | Manager, Government and Regulatory Affairs |
| Siemens Energy | Chris | Smillie | Head, Government Affairs Canada |
| First Nations Major Projects Coalition | Niilo | Edwards | CEO |
| First Nations Major Projects Coalition | Suzanne | von der Porten | External Consultant |
| International Brotherhood of Electrical Workers | Matt | Wayland | Director of Government Relations |
| Cement Association of Canada | Adam | Auer | President & CEO |
| BluEarth Renewables | Rosyln | McMann | Director, Market Development |
| GE Canada | Mayaz | Allam | Energy Transition Market Development Director |
| Evolugen | Simon | Laroche | Vice President, Trading and Marketing |
| E-One Moli Energy | Frank | So | Executive Vice President |
| Hydra Energy Corporation | Jessica | Verhagen | CEO |
| MoveUP | Graeme | Hutchinson | President |
| Electric Mobility Canada | Daniel | Breton | President and CEO |
| Clean Energy Canada | Mark | Zacharias | Executive Director |
| Pembina Institute | Chris | Severson-Baker | Executive Director |
| Clean Energy BC | Cole | Sayers | Executive Director |
| FPAC | Derek | Nighbor | President and CEO |
| Canadian Colleges for Resilient Recovery | TBC | TBC | |
| Council of Forest Industries (BC) | Linda | Coady | President & CEO |
| Nexii Buildings Solutions (PENDING) | Gregor | Robertson | Executive Vice President, Strategy and Partnership |
| Vancouver International Airport (PENDING) | Tamara | Vrooman | President & CEO |

Appendix 2: BC Government Clean Energy and Technology Support Programs

The B.C. Government has many programs that financially support clean energy, technology and energy decarbonization, including:

- Advanced Research and Commercialization Program (ARC) – ARC is a fundamental part of the Province's CleanBC Go Electric Program, designed to support the development of companies operating in the zero-emission vehicle (ZEV) sector, and to encourage international investment in the ZEV sector in B.C.
- CleanBC Industry Fund (CIF) - CleanBC Industry Fund (CIF) is a key program to support large emitters (>10,000 tonnes of carbon dioxide equivalent emitted annually) to reduce emissions. The strategic design of the program won an international award at the United Nations Conference of Parties in 2021 (COP 26) and it includes three streams: Emissions Performance stream funds immediate emissions reduction projects utilizing commercially available technology; Innovation Accelerator stream targets projects utilizing pre-commercial technologies with the potential to reduce future emissions; and Feasibility Studies stream supports industry to identify, scope, and develop projects that would be eligible under the IA or EP stream.
- Commercial Vehicle Innovation Challenge (CVIC) – CVIC launched under CleanBC Go Electric's Advanced Research and Commercialization (ARC) program, is a funding initiative with a vision to address technology gaps in the commercial vehicle sector, support growth in B.C.'s zero-emission vehicles (ZEV) industry and create jobs through B.C. innovation.
- Guidelines, support, and standards in CleanBC Roadmap – The CleanBC Roadmap to 2030 is our plan to achieve 100% of our emissions target while building a cleaner economy that benefits everyone. It includes a range of accelerated and expanded actions across eight pathways: Low Carbon Energy; Transportation; Buildings; Communities; Industry, including Oil and Gas; Forest Bioeconomy; Agriculture, Aquaculture and Fisheries; Negative Emissions Technologies.
- Indigenous Clean Energy Opportunities (ICEO) – A collaboration between the First Nations Leadership Council, BC First Nations Energy and Mining Council and the Ministry of Energy, Mines and Low Carbon Innovation.
- Innovative Clean Energy (ICE) Fund – The ICE Fund is a Special Account, funded through a levy on certain energy sales, designed to support the Province's energy, economic, environmental and greenhouse gas reduction priorities, and to advance B.C.'s clean energy sector.
- Integrated Marketplace (IM) – The IM is a key action of the StrongerBC Economic Plan. It aims to increase innovation and technology adoption by linking strategic industry buyers with local innovation suppliers to implement, scale, and ultimately export B.C. clean-tech solutions.

From: Prince, Jessica PREM:EX(Jessica.Prince@gov.bc.ca)
To: Smith, Matt PREM:EX (Matt.Smith@gov.bc.ca)
To: Salter, Shannon PREM:EX (Shannon.Salter@gov.bc.ca); Caul, Doug D PREM:EX (Doug.Caul@gov.bc.ca)
Subject: Fwd: TB questions
Sent: 06/26/2023 22:32:13

Hi Matt - per your question about these items at our Agendas meeting (E One,^{s.12} and AbCellera), see the email below from Tiffany that sets out what is required on each item.

Jess

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From: Ma, Tiffany J FIN:EX <Tiffany.Ma@gov.bc.ca>
Sent: Monday, June 26, 2023, 3:05 p.m.
To: Prince, Jessica PREM:EX <Jessica.Prince@gov.bc.ca>
Subject: RE: TB questions

E-One Moli:

- TB approval for negotiating mandate provided
- Requires TB approval for final agreement s.17
- s.17
- s.12

s.12

Ab Cellera

- TB approval for negotiating mandate provided
- TB approval for final agreement
- s.12 s.17 s.12
- s.12

From: Prince, Jessica PREM:EX <Jessica.Prince@gov.bc.ca>
Sent: Monday, June 26, 2023 2:36 PM
To: Ma, Tiffany J FIN:EX <Tiffany.Ma@gov.bc.ca>
Subject: TB questions

Hi Tiffany – at this morning's agendas meeting,^{s.12}
s.12

Thanks,
Jess

Jessica Prince (she/her)

Assistant Deputy Minister, Strategic Issues

Office of the Premier

Phone:^{s.17}

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From: Salter, Shannon PREM:EX(Shannon.Salter@gov.bc.ca)
To: Wood, Heather FIN:EX (Heather.Wood@gov.bc.ca)
Subject: FW: E-One Moli TB Sub
Sent: 04/19/2023 20:07:33
Attachments: s.12; s.13

As discussed.

From: Prince, Jessica PREM:EX <Jessica.Prince@gov.bc.ca>
Sent: Tuesday, April 18, 2023 7:37 AM
To: Salter, Shannon PREM:EX <Shannon.Salter@gov.bc.ca>
Cc: Caul, Doug D PREM:EX <Doug.Caul@gov.bc.ca>
Subject: Fwd: s.12; s.13

Hi Shannon - s.13 You'll recall that E-One Moli came
through his office a few weeks ago now to meet him and talked about their plan to re-establish a
manufacuring presence in BC.

s.12; s.13

Jess

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From: Pawlowski, Paul JEDI:EX <Paul.Pawlowski@gov.bc.ca>
Sent: Monday, April 17, 2023 9:30:19 PM
To: Prince, Jessica PREM:EX <Jessica.Prince@gov.bc.ca>
Cc: Mihlar, Fazil JEDI:EX <Fazil.Mihlar@gov.bc.ca>; Jang, Monica JEDI:EX <Monica.Jang@gov.bc.ca>
Subject: FW:s.12; s.13

Hi Jess –s.12; s.13
s.12; s.13
s.12; s.13

Best Regards,



Paul Pawlowski, P.Eng, MBA
Assistant Deputy Minister – Investment Division

Ministry of Jobs, Economic Development & Innovation
Government of British Columbia
Suite 730-999 Canada Place, Vancouver, BC V6C3E1
☎ 778-873-7037 | ✉ Paul.Pawlowski@gov.bc.ca

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From: Prince, Jessica PREM:EX(Jessica.Prince@gov.bc.ca)
To: s.15; s.17
Smith, Matt PREM:EX (Matt.Smith@gov.bc.ca); Salter, Shannon PREM:EX (Shannon.Salter@gov.bc.ca); Caul, Doug D PREM:EX (Doug.Caul@gov.bc.ca); Bain, Don PREM:EX (Don.Bain@gov.bc.ca); Machell, Aileen PREM:EX (Aileen.Machell@gov.bc.ca)
Subject: FW: E-One Moli TB Sub
Sent: 04/18/2023 16:12:40
Attachments: s.12; s.13

s.12; s.13; s.17

Jess

Jessica Prince (she/her)
Assistant Deputy Minister, Strategic Issues
Office of the Premier
Phone: s.17

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From: Caul, Doug D PREM:EX(Doug.Caul@gov.bc.ca)
To: Prince, Jessica PREM:EX (Jessica.Prince@gov.bc.ca)
Subject: JEDI
Sent: 05/05/2023 00:18:47

Hi Jess – from my call with Fazil. You may be aware o fall of this.

- s.12; s.13
- s.12; s.13
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DC

Regards,

Doug Caul
Deputy Minister, Policy and Coordination
Office of the Premier

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From: Bain, Don PREM:EX(Don.Bain@gov.bc.ca)
To: Caul, Doug D PREM:EX (Doug.Caul@gov.bc.ca)
Subject: as a model? Cedar
Sent: 10/31/2023 23:07:39

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MEETING NOTE

Cliff #: 163625

Date: November 14, 2023

PREPARED FOR: Honourable David Eby, Premier

MEETING WITH: E-One Moli and Government of Canada representatives

DATE AND TIME OF MEETING: November 14, 2023, time TBC

LOCATION: E-One Moli Site in Maple Ridge

ATTENDEES:

- Prime Minister Justin Trudeau
- François-Philippe Champagne, Minister of Innovation, Science and Industry
- TBD - E-One/TCC reps
- TBD – BC Ministers

ISSUE(S): Announce \$80M of B.C. support for E-One Moli Manufacturing Facility

KEY POINTS:

- Province investing \$80M alongside \$204M from Canada to anchor high performance battery cell manufacturing facility in Maple Ridge.
- B.C.'s investment leverages over \$950M in federal and private sector dollars towards the \$1.1B facility.
- Creates 450 new jobs, supporting growth of B.C.'s clean economy.
- Strengthens critical mineral supply and value chain as demand rises for clean energy solutions, including lithium-ion battery components.

BACKGROUND:

B.C. is investing \$80M in E-One Moli's new high-performance lithium-ion (li-ion) battery cell manufacturing facility planned for Maple Ridge. The \$1B+ facility is being financed primarily by E-One Moli, its parent company (Taiwan Cement Corporation, TCC) and investors, with the Government of Canada investing \$204 M under its Strategic Innovation Fund.

Construction of the 200,000 sq. ft. facility is expected to begin in 2024, creating ~400 construction jobs over 3.5 years. Once fully operational in 2027, the project is expected to create 450 new jobs. The facility's products will be used in a variety of applications, including high performance power tools, s.21 The company already produces similar li-ion battery cells, in similar sized facilities, in Taiwan; this is E-One Moli's only overseas operation.

At present, the company undertakes R&D work at the existing Maple Ridge site, employing ~75 people, including E-One's senior Canadian management team. The Premier and JEDI Minister met with the company's Maple Ridge-based Executive Vice President (Frank So) in spring 2023.

Among anticipated benefits for B.C. from the project: the anchoring of a large-scale advanced manufacturer of clean tech products; creation of hundreds of new jobs, supporting a more diversified, knowledge-based provincial economy; manufacturing of products at higher levels of the critical mineral value chain and, in turn, supporting a more resilient domestic supply chain, while also generating export opportunities.

DISCUSSION:

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E-One's new facility will focus on speciality high performance,^{s.21} lithium-ion battery cells for non-electric vehicle (EV) products, differentiating it from a series of recent federal, Ontario and Quebec investments in EV battery development.

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SUGGESTED RESPONSE/KEY MESSAGING:

- B.C. is excited to partner with the federal government to anchor a major clean technology manufacturer, and create hundreds of clean jobs, in our province.
- Having people from Maple Ridge, Pitt Meadows, the Tri-Cities and beyond, build the battery cells inside the vacuums and power tools we all use, elevates B.C.'s role in the critical mineral value chain.
- Building an economy that benefits everyone is at the heart of StrongerBC -- E-One Moli's decision to invest over \$1B in British Columbia demonstrates that B.C. has a strong and competitive investment climate

ATTACHMENTS: Appendix 1: Funding Flow Summary
Appendix 2: Q&As

ADM Contact: Paul Pawlowski, 778-873-7037

Prepared by: Marc Black, Executive Project Director, Investment Division

| Reviewed by | | | |
|-------------|--------|---------|-----|
| Dir: MB | ED: SD | ADM: PP | DM: |

APPENDIX 1: Funding Flow Summary:

- The Province has committed up to \$80M in support of E-One Moli's project.
Contributions are only disbursed once progress is shown on project milestones.

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including ESG criteria and a thorough plan for continued environmental sustainability.

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