



## MUNICIPAL DISTRICT OF GREENVIEW No. 16

### GREENVIEW INDUSTRIAL GATEWAY COMMITTEE MEETING AGENDA

Monday, January 10, 2022

1:00 PM

Administration Building  
Valleyview, AB

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#1	CALL TO ORDER		
#2	ADOPTION OF AGENDA		
#3	MINUTES	3.1 Greenview Industrial Gateway Committee Meeting Minutes held Monday, November 8, 2021.	2
#4	DELEGATION	4.1 Alberta No. 1 Geothermal	6
#5	BUSINESS	5.1 Advisory Committee	30
		5.2 Public Engagement Sessions	34
		5.3 Water Supply Report for the Greenview Industrial Gateway	36
		5.4 Canadian Hydrogen Convention	40
		5.5 Greenview Industrial Gateway Land Purchase	48
#6	CLOSED SESSION		
#7	ADJOURNMENT		

Minutes of a  
**GREENVIEW INDUSTRIAL GATEWAY COMMITTEE MEETING**  
**MUNICIPAL DISTRICT OF GREENVIEW NO. 16**

Greenview Administration Building,  
Valleyview, Alberta on Tuesday, November 8, 2021

**#1**  
**CALL TO ORDER**

Chair Winston Delorme called the meeting to order at 9:00 a.m.

**PRESENT**

Ward 9	Reeve Tyler Olsen
Ward 8	Deputy Reeve Bill Smith (virtual)
Ward 1	Councillor Winston Delorme
Ward 2	Councillor Ryan Ratzlaff
Ward 3	Councillor Sally Rosson
Ward 4	Councillor Dave Berry
Ward 5	Councillor Dale Smith
Ward 6	Councillor Tom Burton
Ward 7	Councillor Jennifer Scott
Ward 8	Councillor Christine Schlieff
Ward 9	Councillor Duane Didow

**ATTENDING**

Chief Administrative Officer	Stacey Wabick
Director, Community Services	Dennis Mueller
Executive Director, Industrial Development	Kyle Reiling
Manager Communications and Marketing	Stacey Sevilla
Recording Secretary	Wendy Holscher

**ABSENT**

**#2**  
**AGENDA**

MOTION: 21.11.30 Moved by Reeve Tyler Olsen  
That the Greenview Industrial Gateway Committee adopt the November 8,  
2021, Greenview Industrial Gateway Committee Meeting Agenda as  
presented.

CARRIED

**#3 MINUTES**

**3.0 MINUTES**

MOTION: 21.11.31 Moved by Councillor Tom Burton  
That the Greenview Industrial Gateway Committee adopt the October 13  
2021, Greenview Industrial Gateway meeting minutes as amended.  
- Remove Interim from CAO

CARRIED

BUSINESS ARISING

**#4 DELEGATIONS**

**4.0 DELEGATIONS**

**#5 NEW BUSINESS**

**5.0 NEW BUSINESS**

**5.1 GREENVIEW INDUSTRIAL GATEWAY ORIENTATION**

**GIG ORIENTATION**

MOTION: 21.11.32 Moved by: COUNCILLOR DALE SMITH

That the Greenview Industrial Gateway Committee accept the Greenview Industrial Gateway Orientation for information, as presented.

CARRIED

**6.0 CLOSED SESSION**

**CLOSED SESSION**

MOTION: 21.11.33 Moved by: COUNCILLOR TOM BURTON

That the meeting go to Closed Session, at 10:10 a.m. pursuant to Section 197 of the Municipal Government Act, 2000, Chapter M-26 and amendments thereto, and Division 2 of Part 1 of the Freedom of Information and Protection Act, Revised Statutes of Alberta 2000, Chapter F-25 and amendments thereto, to discuss Privileged Information with regards to the Closed Session.

CARRIED

**6.1 DISCLOSURE HARMFUL TO BUSINESS INTERESTS OF A THIRD PARTY**

**6.2 DISCLOSURE HARMFUL TO BUSINESS INTERESTS OF A THIRD PARTY**

**OPEN SESSION**

**OPEN SESSION**

MOTION: 21.11.34 Moved by: REEVE TYLER OLSEN

That, in compliance with Section 197(2) of the Municipal Government Act, this meeting come into Open Session at 11:05 a.m.

CARRIED

**LAND SALES PRICE FOR  
NPC**

MOTION: 21.11.35 Moved by: COUNCILLOR DALE SMITH

That the Greenview Industrial Gateway Committee recommend Council establish a land sales price for Northern Petrochemical Corporation in the amount of \$10,000.00 per acre, subject to the appraised land value of \$5,820.00 or less, whereby, if the appraised land value is higher, the land sales price shall be increased on a dollar-to-dollar basis.

CARRIED

**DRAFT SALES  
AGREEMENT**

MOTION: 21.11.36 Moved by: COUNCILLOR DUANE DIDOW  
That the Greenview Industrial Gateway Committee accept the draft sales agreement for information, as presented.

CARRIED

**PURCHASE SALES  
AGREEMENT - NPC**

MOTION: 21.11.37 Moved by: COUNCILLOR DALE SMITH  
That the Greenview Industrial Gateway Committee recommend Council authorize Administration to enter into a purchase sales agreement with Northern Petrochemical Corporation for the purchase of approximately 295 acres of land in the amount of \$10,000.00 per acre, subject to the appraised land value of \$5,820.00 or less, whereby, if the appraised land value is higher, the land sales price shall be increased on a dollar-to-dollar basis.

CARRIED

Chair Winston Delorme recessed the meeting at 11:09 a.m.

Chair Winston Delorme reconvened the meeting at 11:18 a.m.

**5.2 ALBERTA TRANSPORTATION – HIGHWAY 40 TRANSPORTATION  
NETWORK REVIEW STUDY**

**GIG TRANSPORTATION  
REPORT – CASTLEGLENN  
CONSULTANTS INC.**

MOTION: 21.11.38 Moved by: COUNCILLOR RYAN RATZLAFF  
That the Greenview Industrial Gateway Committee accept the Greenview Industrial Gateway Transportation report from CastleGlenn Consultants Inc. for information, as presented.

CARRIED

**5.3 LAND SURVEY PLAN – GIG**

**LAND SURVEY**

MOTION: 21.11.39 Moved by: COUNCILLOR SALLY ROSSON  
That the Greenview Industrial Gateway Committee recommend to Council to award the surveying contract to Meridian Surveys Ltd., Grande Prairie, Alberta in the amount of \$28,550.00 plus GST.

CARRIED

**5.4 GREENVIEW INDUSTRIAL GATEWAY EVENT**

**GIG EVENT**

MOTION: 21.11.40 Moved by: COUNCILLOR DUANE DIDOW  
That the Greenview Industrial Gateway Committee accept the Greenview Industrial Gateway Event update for information, as presented.

CARRIED

**#7  
ADJOURNMENT**

**7.0 ADJOURNMENT**

MOTION: 21.11.41 Moved by: COUNCILLOR CHRISTINE SCHLIEF  
That the Committee adjourn this Greenview Industrial Gateway Meeting  
at 11:52 a.m.

CARRIED

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CHIEF ADMINISTRATIVE OFFICER

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CHAIR



# REQUEST FOR DECISION

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SUBJECT:	<b>Alberta No. 1 Geothermal Project</b>		
SUBMISSION TO:	Greenview Industrial Gateway Committee Meeting	REVIEWED AND APPROVED FOR SUBMISSION	
MEETING DATE:	January 10, 2022	CAO: SW	MANAGER:
DEPARTMENT:	CAO SERVICES	GM:	PRESENTER:
STRATEGIC PLAN:	Development	LEG:	

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## RELEVANT LEGISLATION:

**Provincial** (cite) – N/A

**Council Bylaw/Policy** (cite) – N/A

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## RECOMMENDED ACTION:

**MOTION: That the Greenview Industrial Gateway Committee accept the Alberta No. 1 Geothermal Project Report for information, as presented.**

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## BACKGROUND/PROPOSAL:

Alberta No. 1 representative will be in attendance to provide an update on the developments within the Greenview Industrial Gateway.

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## BENEFITS OF THE RECOMMENDED ACTION:

1. The benefit of the recommended motion is that the Committee will receive an update on the developments within the Greenview Industrial Gateway.

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## DISADVANTAGES OF THE RECOMMENDED ACTION:

1. There are no disadvantages to the recommended motion.

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## ALTERNATIVES CONSIDERED:

**Alternative #1:** N/A

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## FINANCIAL IMPLICATION:

There are no financial implications for the recommended motion.

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## STAFFING IMPLICATION:

There are no staffing implications to the recommended motion.

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## PUBLIC ENGAGEMENT LEVEL:

Greenview has adopted the IAP2 Framework for public consultation.

**INCREASING LEVEL OF PUBLIC IMPACT**

Inform

**PUBLIC PARTICIPATION GOAL**

Inform - To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.

**PROMISE TO THE PUBLIC**

Inform - We will keep you informed.

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**FOLLOW UP ACTIONS:**

N/A

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**ATTACHMENT(S):**

- Alberta No. 1 Letter
- Alberta No. 1 Geothermal Presentation

January 3, 2022

Reeve Tyler Olson  
Municipal District of Greenview No. 16 (MDGV)  
4802 – 36 Avenue Valleyview,  
Alberta T0H 3N0

Dear Mr. Olson:

Thank you for the opportunity to speak to Council, January 10. We feel that there is an excellent opportunity to continue to work collaboratively with the Municipal District of Greenview (MDGV) as we move our geothermal project forward within your jurisdiction. The project, Alberta No. 1, is a heat and power project located in close proximity to the Greenview Industrial Gateway (GIG). In fact, its co-location within the GIG was by design, not accident. When the project was first conceived in 2017 and the application for federal funding made in 2018, it was the intention of MDGV to use the project as a way to “green” the GIG heavy industrial site making it easier for companies to raise capital on international markets and as a transition to a more sustainable economy. In fact, there is an MOU signed between ABNo1 and MDGV to purchase the power for resale.

We at ABNo1, continue to value the collaboration from those early project days and strongly believe that there is an opportunity to work *with the MD*, not just within the MD. We would like to once again propose a collaborative project that we believe will further the ambitions of the MDGV, the GIG, as well as set the foundation for a conventional geothermal industry in Alberta. As you know, I have been promulgating the concept of “holistic” geothermal development, using all the assets and attributes of the subsurface to create a commercially viable, carbon negative, sustainable development. Downstream hydrocarbon extractive industries that will be situated in the GIG will require carbon sequestration, carbon credits and access to green renewable energy in order to finance their projects. ABNo1 can provide all those attributes for the GIG.

ABNo1 is currently on-track to drill at a site within the GIG in Q3 of 2022. Our site targets the pinnacle reef within the Woodbend Formation, coincident with the “Permit #1” area as outlined on the map on page 7 of the Expression of Interest to become a carbon sequestration hub submitted by the GIG. We also have a collaborative agreement in place with the University of Alberta (UofA) and Natural Resources Canada’s CANMet laboratory to assess the carbon sequestration potential of this area, and the integration of carbon sequestration with geothermal energy production. Work is currently underway by both groups. Dr. Rick Chalaturnyk (UofA) is the lead investigator for the project and brings his world-renowned team and global leadership role in carbon sequestration to the project. The results of this work will further not only the GIG’s carbon sequestration goals but also provide additional opportunities for baseload renewable energy located in the GIG.

We would like to propose that ABNo1 and the MDGV enter into discussions on how to fund our first two wells at the site within the GIG. This might be through direct investment in ABNo1, seeking provincial funding to augment our Federal grant, loan guarantees or other financial instruments. ABNo1 is hopeful that this “made in Alberta” solution for development of the GIG as an eco-industrial center will be of tremendous benefit to the people of the MDGV and the province as we all strive to produce more green electrical power and carbon credits for industry. I look forward to further discussions.

Sincerely,



Dr. Catherine Hickson P. Geo, CEO, GENERAL PARTNER, 1212843 B.C LTD.





# The Greenview Industrial Gateway - An Eco-Industrial Development through incorporation of **Alberta's First Geothermal Heat and Power Facility**

A Project By No. 1 Geothermal Limited Partnership

# Geothermal as the foundation for Eco-Industrial Development

***Why does the GLG need geothermal?***



# Greenview Industrial Gateway

## NEEDS A "GREEN" MARKETING IMAGE

- Industrial development in a world starting to be more focused on GHG reductions will require concrete evidence of carbon reduction strategies.
- Recent climate disasters (fires, floods, hurricane's etc.) are bringing climate change into the homes of more and more people – it is here, it is real and we have to do something about it.
- Environmental – Societal – Governance Credits (EGS) are now seen as critical to raising international funds for development.

## NEEDS CARBON CREDITS

- Raising international funds will require companies to show that they are garnering carbon credits to be "carbon neutral"
- Geothermal provides direct carbon credits to industry through power and heat offtakes
- Technology is not new, but builds on the lessons of the oil and gas industry. Albertan's no how to do this

## NEEDS CARBON SEQUESTRATION

- In addition to carbon credits and green attributes, geothermal projects can be carbon negative by incorporating carbon sequestration into their injection strategies.
- The technology exists, and Alberta No. 1 is working with the University of Alberta to prove sequestration is not only commercially feasible, but will provide a significant financial lift for geothermal projects.

## Greenest of the Green Renewable Energy Options

# Geothermal Energy *IS* the Solution.



**Baseload** (24/7 – 365) capabilities and available on demand (dispatchable) and lasts more than 40 years.



Most prevalent baseload renewable resource (heat & electricity) in many jurisdictions and **excellent Environmental, Societal, Governance (ESG) values.**



Most effective renewable for **Green House Gas (GHG) reductions & lowest environmental footprint of all renewables.**



**Dual commodity value** (heat & electricity) plus “add-ons” such mineral extraction and CO<sub>2</sub> sequestration. **Earns the most Carbon Credits.**



In areas with existing hydrocarbon industry, geothermal **utilizes oil and gas assets, expertise and data.**

## Greenest of the Green Renewable Energy Options

### Three times green.



**Baseload** (24/7 – 365 days a year). Does not require backup peaking capacity as a carrying cost, as is required in systems with a significant intermittent renewable load in order to ensure resiliency of the grid.



**Battery storage is not required.** Intermittent renewables require battery storage on many grids in order to be stable. Current pricing for intermittent renewables with battery back-up is around 30-40 cent/kWhr. Typically, the battery backup is only capable of storage of a few hours of energy. Battery storage is significantly more costly per kWhr than the intermittent renewables. Batteries also add another level of complexity to the grid.

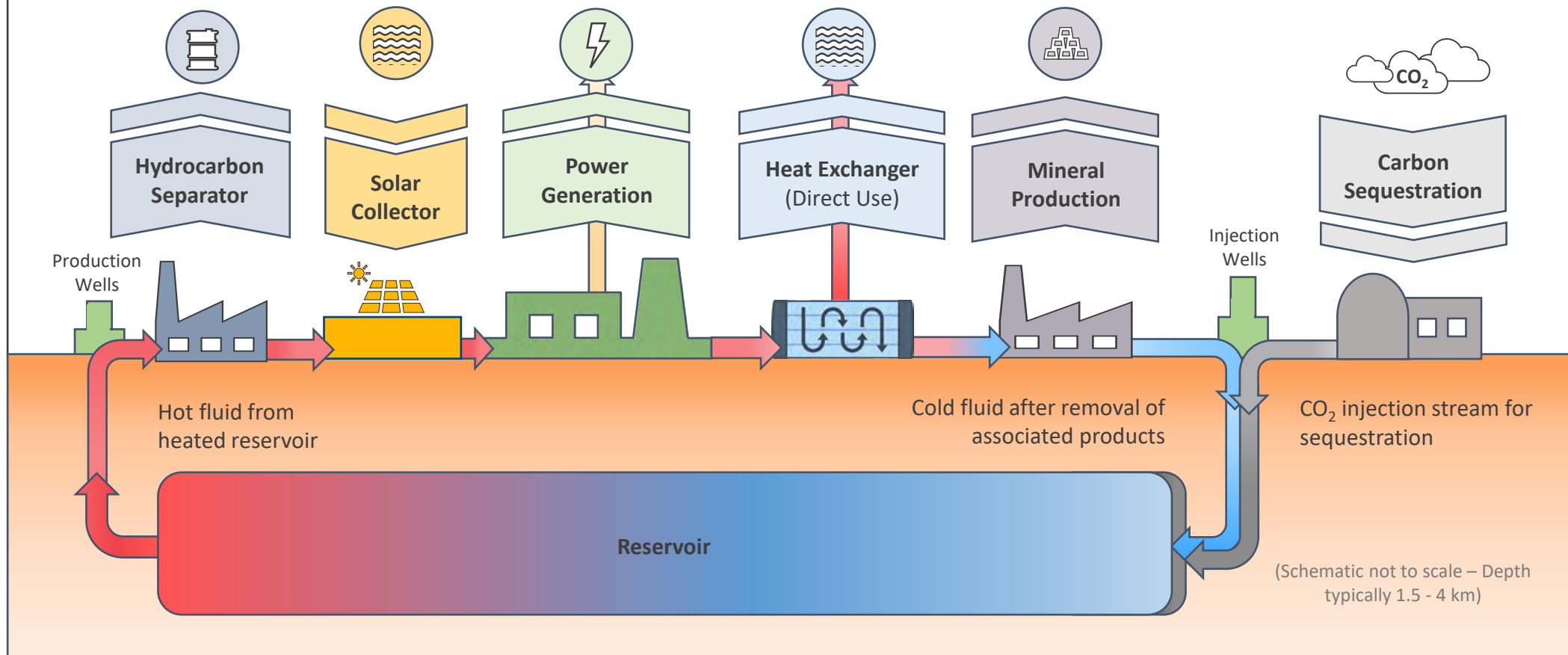


**Multi-commodity value.** Developments can produce heat & electricity, supporting both nearby industry (food security for example) as well as more distant industries through grid transmission. Additionally, there is an option for “add-ons” such mineral extraction and CO<sub>2</sub> sequestration depending on local geological conditions that would not have been commercially feasible without the geothermal development. Has the potential to be significantly carbon negative.

## Utilizing all the intrinsic value of the produced brine and injection capacity.

### Conventional Geothermal Commodity Value Chain\*

+ \$ Carbon Credits



(\*Depending on local geological conditions)

# Environmental Benefits of a Partnership

How phase one of Alberta no. 1 can help companies located within the GIG to achieve their environmental goals



## Clean Power Generation

Base case for Alberta No. 1 will generate more than **80,000 MWhr** of emission-free electricity available via a local grid to GIG based industry



## Carbon Offset Creation

**41,000 tCO<sub>2</sub>e** offsets from electrical sales

**55,000 tCO<sub>2</sub>e** offsets from heat sales

Total: **96,000 tCO<sub>2</sub>e** at full production carbon offsets

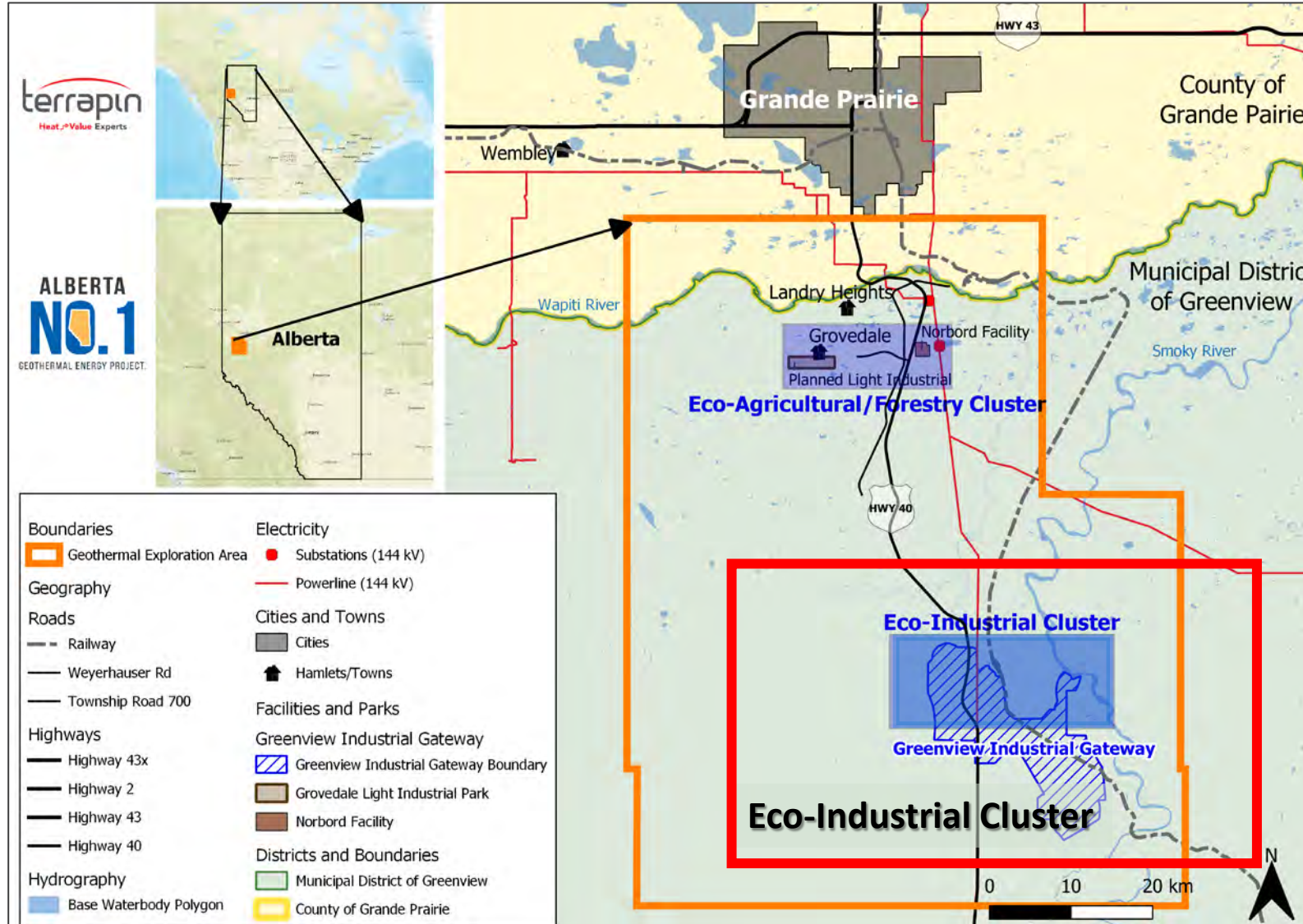
***NOT INCLUDING SEQUESTRATION***



## Minimal Land Impact

**Air-Cooled** 10 MW baseload plant requires 8 acres (~3 hectares) and no on-going industrial water requirements.

# Project Location M.D. of Greenview No. 16



## Industrial Setting

- Proximity to "CanMex" transportation routes
  - International Railway link
  - Grand Prairie Airport national hub & Class "E" airspace
  - Paved highways 40 & 43 national connections and Waterways F. (minor target)
- Grovedale and Greenview Industrial Gateway industrial parks.
- Existing industry – forestry, agriculture, and hydrocarbon.



# Project Location M.D. of Greenview No. 16

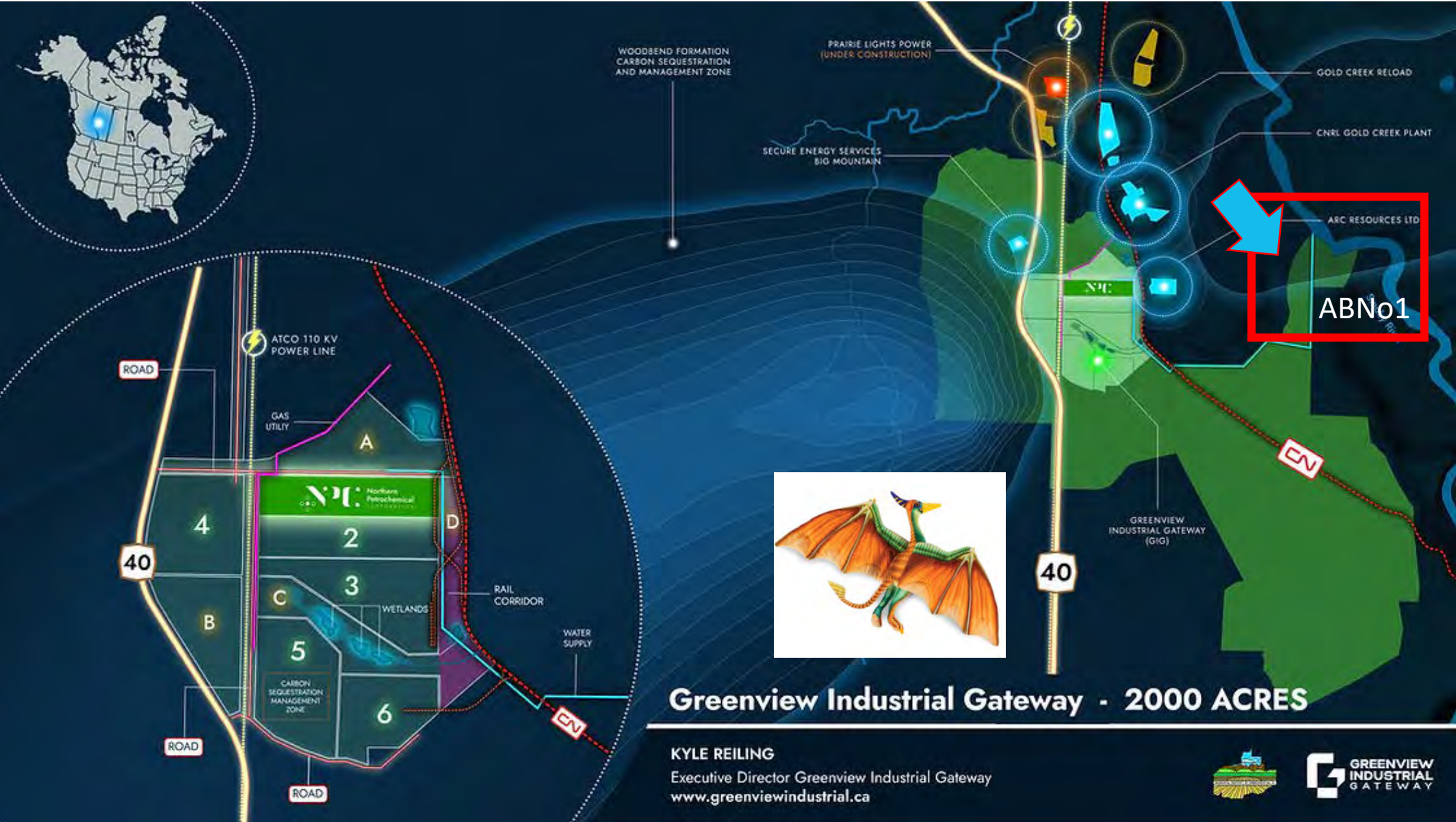


## 2000 Acres Heavy Industrial Development

Larger maps are viewable on our [Location](#) page.



# Project Location Greenview Industrial Gateway





# Carbon Sequestration Making Geothermal Even Greener

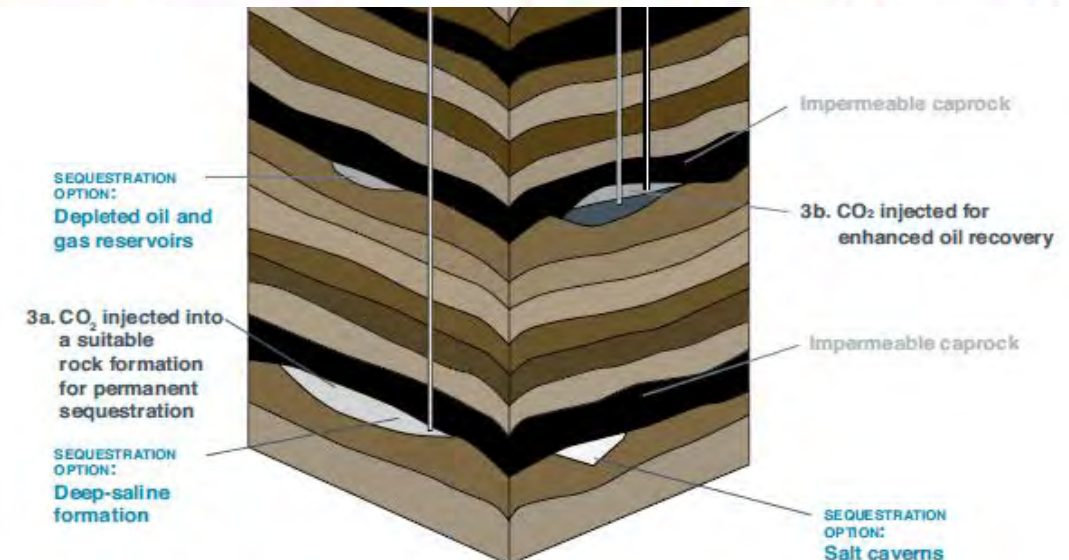
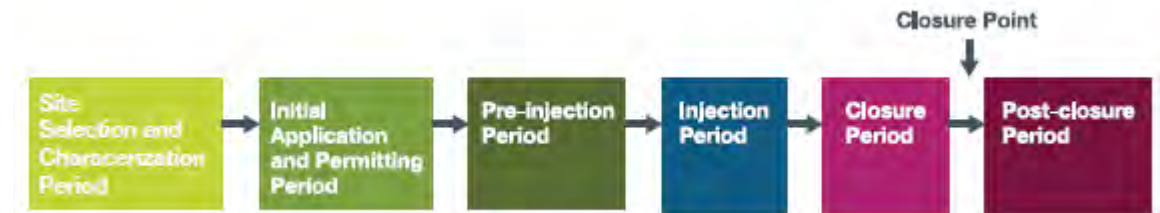
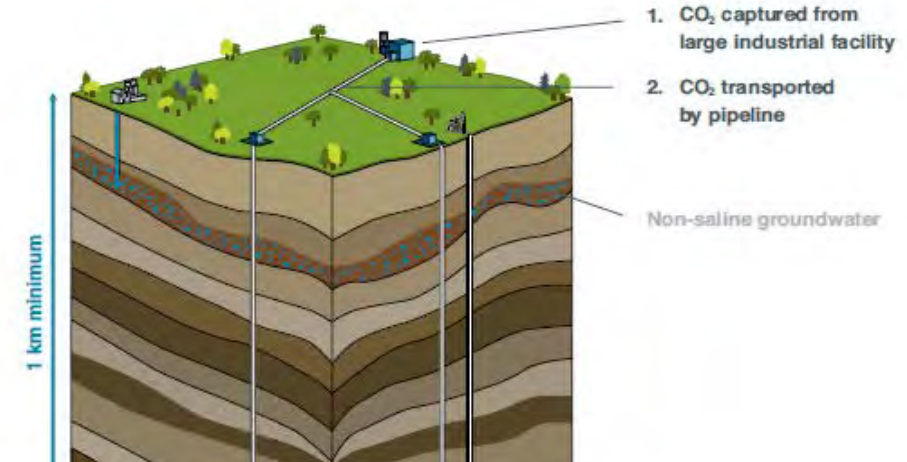
Research collaboration project with one of Canada's national laboratories, CanmetENERGY and University of Alberta researchers who have been heavily involved in Alberta's existing carbon sequestration projects, such as Quest. Research has covered:

- Injection for enhanced oil recovery.
- Sequestration into salt caverns
- Injection into rock formations

**Rick Chalaturnyk PhD**



**Professor, Civil and Environmental Engineering**  
**Principal Investigator, GeoREF**  
**Foundation CMG Chair in Reservoir Geomechanics**

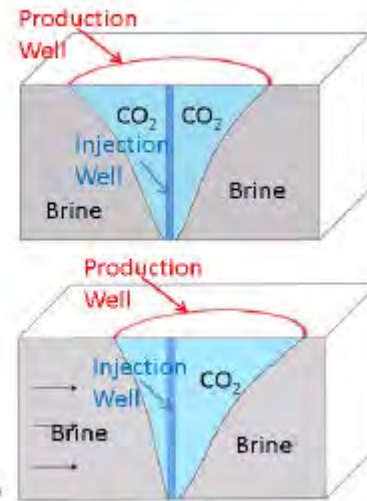
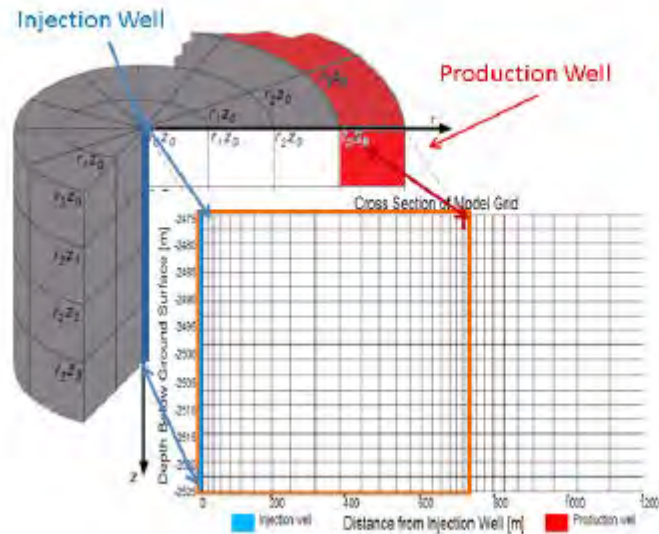


# Carbon Sequestration Making Geothermal Even Greener

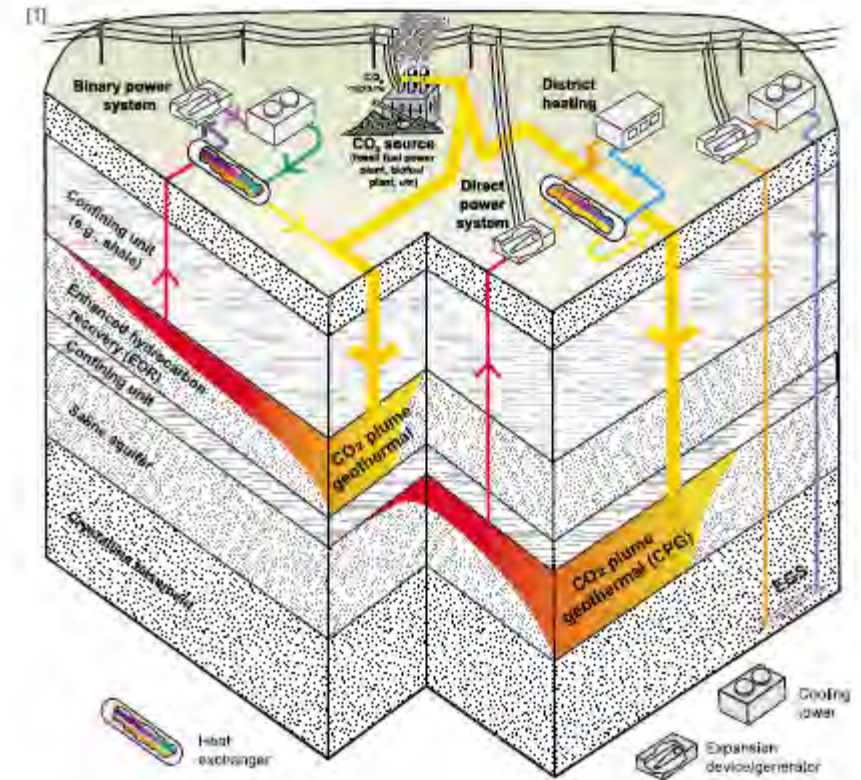
## Significant research has already taken place

- “WAG – water assisted gravity technology already demonstrated in Alberta
- Multiple well completions to inject into different formations from a single well bore.
- CO<sub>2</sub> “flood” sweeping heat rather than hydrocarbons.
- Use an underperforming well for sequestration.

Garapati, Randolph and Saar



RANDOLPH AND SAAR: GEOTHERMAL ENERGY WITH CO<sub>2</sub> SEQUESTRATION





# Carbon Sequestration Making Geothermal Even Greener

## Significant research has already taken place

- ABNo1 Financial costs of sequestration still need to be worked out but could be as low as \$25/tCO<sub>2</sub>e
- Significant financial upside as carbon prices escalate.
- Need to work out partnership arrangements with companies requiring sequestration and/or carbon credits.

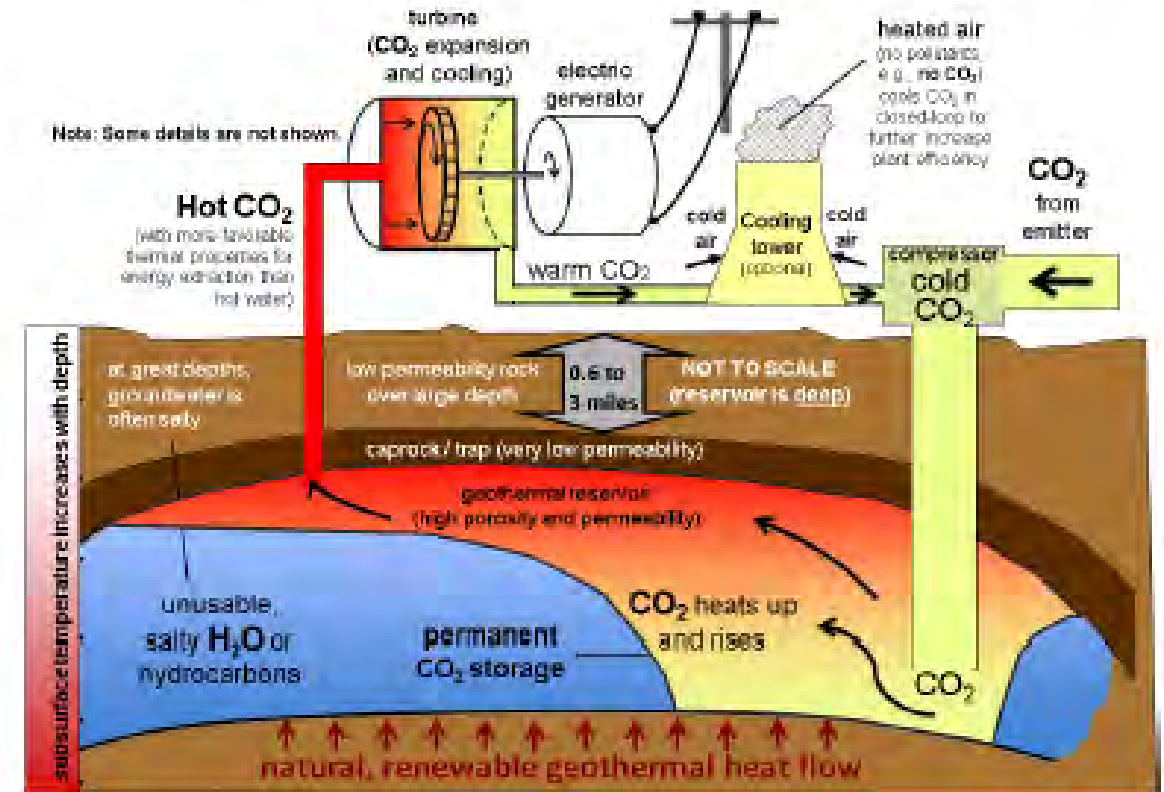


Figure 1. Simplified schematic of one possible implementation of a CPG system, established in a deep saline aquifer.

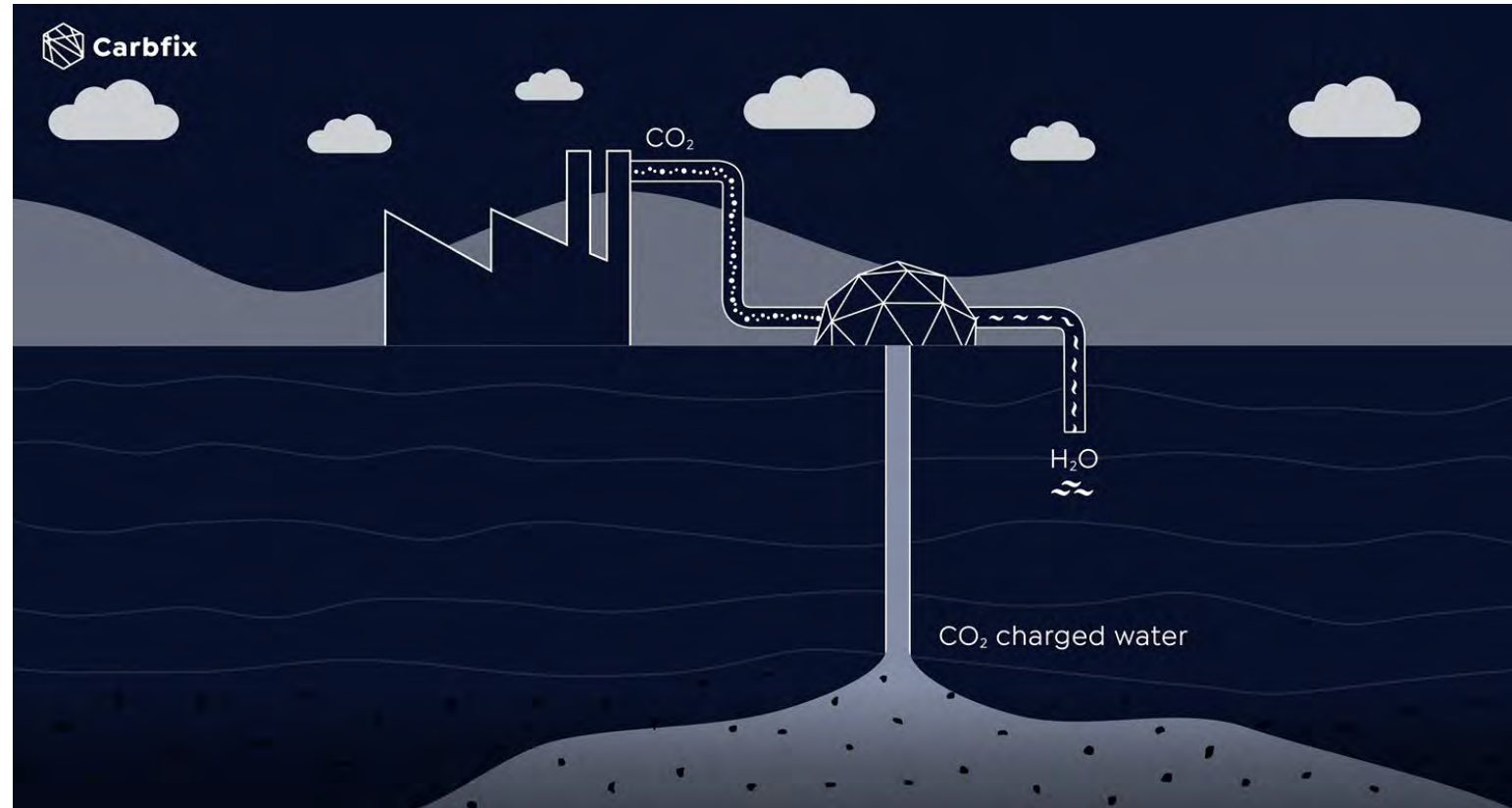
# Carbon Sequestration Making Geothermal Even Greener

## CarbFix, Iceland

- ABNo1 Financial costs of sequestration still need to be worked out but could be as low as \$25/tCO<sub>2</sub>e
- Significant financial upside as carbon prices escalate.
- Need to work out partnership arrangements with companies requiring sequestration and/or carbon credits.

## We turn CO<sub>2</sub> into stone

Carbfix provides a natural and permanent storage solution by turning CO<sub>2</sub> into stone underground in less than two years.





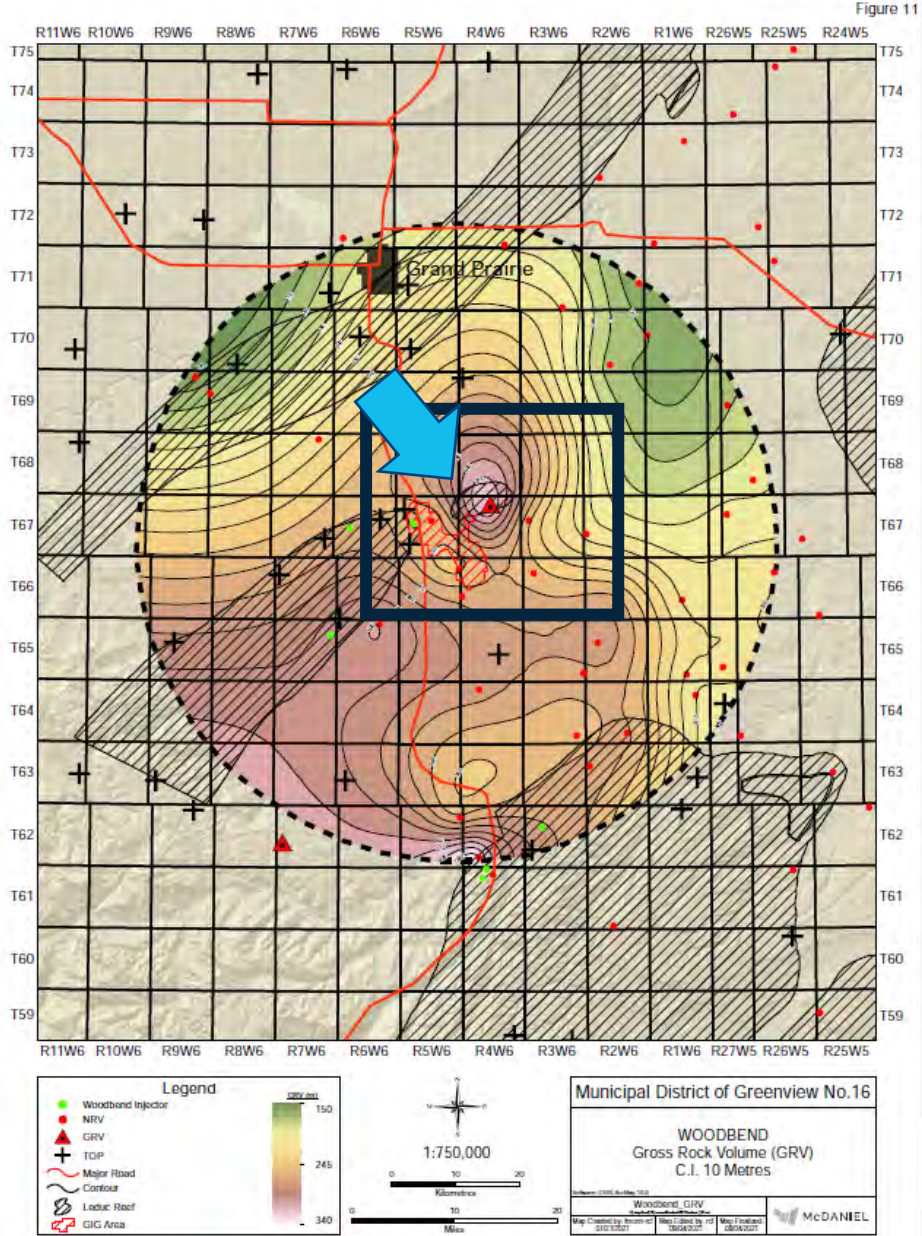
# Carbon Sequestration Making Geothermal Even Greener

## Expression of Interest and GIG



McDaniel’s report “Expression of Interest (EOI) Carbon Disposal in Saline Aquifers” prepared for the MDGV, 2021

McDaniel’s report “Carbon Sequestration Site Screening and Selection” prepared for the MDGV, August 2021

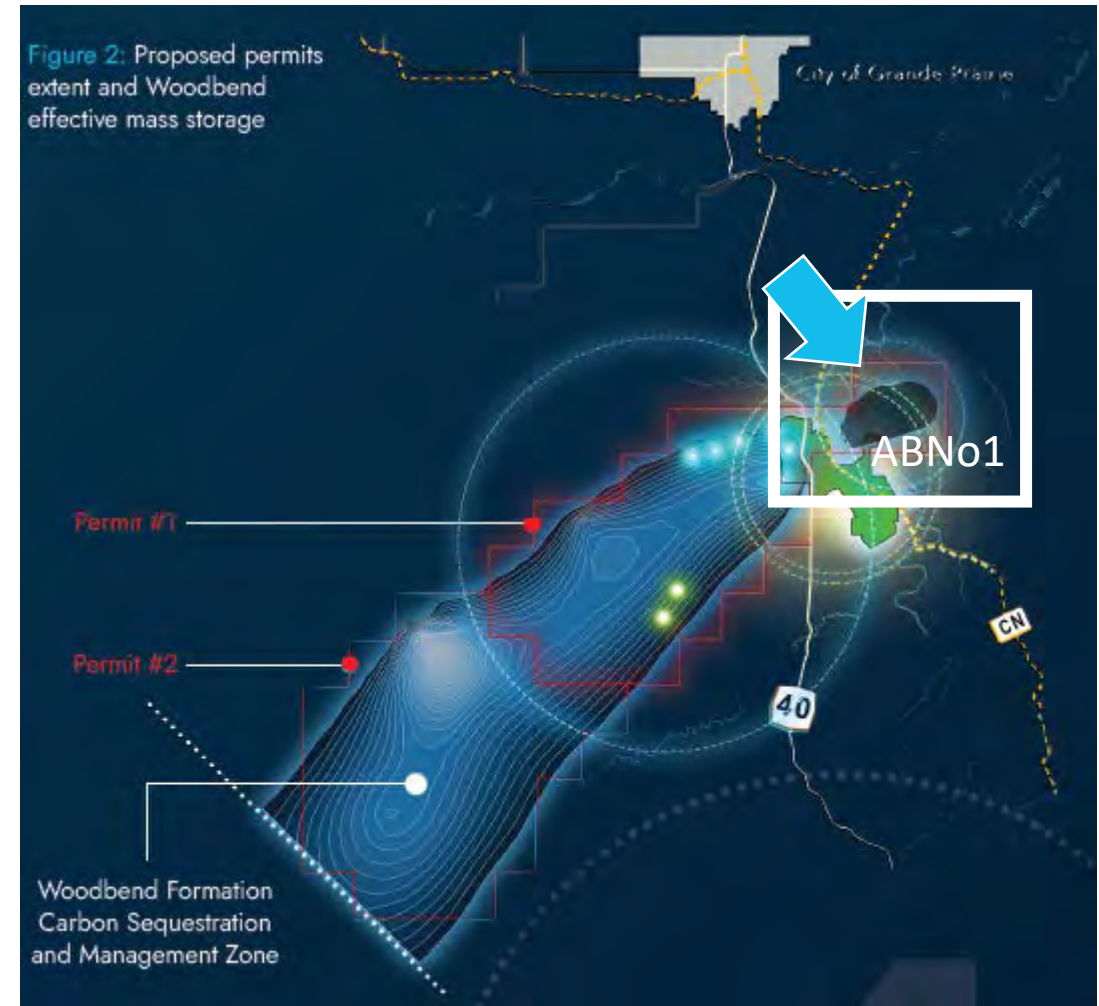


# Carbon Sequestration Making Geothermal Even Greener



McDaniel's report "Expression of Interest (EOI) Carbon Disposal in Saline Aquifers" prepared for the MDGV, 2021

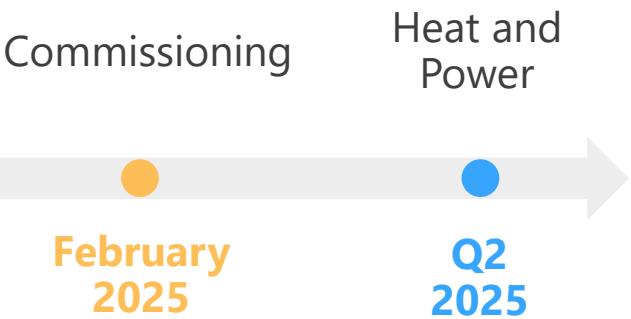
- ABNo1 is poised to test the eastern aquifer.
- One geothermal project can't provide the amount of sequestration that is going to be needed.





# Returns for 10 MW Generation\*

**Electrical Output:**  
10 MW net



## ***Without Carbon Sequestration***

Capital Cost	\$95M CAD
NRCan Grant	\$25.42M CAD
<hr/>	
Net Capital Requirement	<b>\$69.58M CAD</b>
Annual Earnings	<b>\$13M CAD</b>
Lifetime Earnings	<b>\$520M CAD</b>
Project IRR	<b>16.0%</b>

\*Phase One projection; output of project may increase based on confirmed resources. Does not include additional carbon credits through sequestration for all phases.

# Grant Received from NRCan



Partially Funded by  
Natural Resources  
Canada

Financé partiellement par  
Ressources naturelles  
Canada

Canada

Alberta No. 1 received \$25.4 million CAD of spend and reimburse funding support from Natural Resources Canada (NRCan) as part of their Emerging Renewable Power Program (ERPP). Grant\* is payable quarterly based on approved expenditures.

***Project needs \$13 Million dollars for next phase of development***

\*The grant is paid at 35%; a 15% holdback is payable at the end of project.

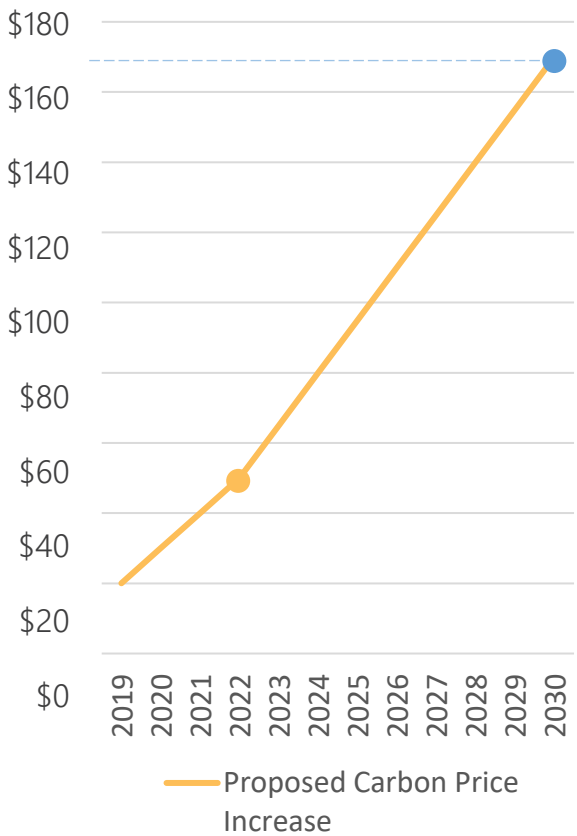
# Upside Opportunities

*Increase in Carbon Pricing*

**Canada's carbon price will provide even greater value for investors and help "green" the GIG project.**

	Upside Case (\$170/tCO <sub>2</sub> )	Base Case (\$50/tCO <sub>2</sub> )
Project IRR	22.6%	16.0%
Equity IRR (if held in perpetuity)	30.0%	20.0%
Operating EBITDA	\$17,223 in 2025	\$13,384 in 2025
EV Increase	\$38,390	

(All monetary values are in \$CAD)



# The Proposal

- 1. Support ABNo1 in the drilling of the first two wells to test the pinnacle reef noted in the McDaniel report. (loan guarantee, provincial grant funds, capital investment, or other financial instrument)**
- 2. MDGV (?) seeks a development partner to develop the Carbon Hub (e.g. Secure Energy) that ABNo1 can work cooperatively with.**
- 3. ABNo1 plays a role in the Carbon Hub by providing sequestration services and expands the geothermal development to locations to the west of the GIG.**
- 4. ABNo1 provides Green electricity to GIG facilities. The goal would be to develop 100 MWe in proximity to the GIG.**
- 5. ABNo1 strives to attract additional industry that can utilize the heat through direct use applications (e.g. carbon capture facilities)**

# ***First out of gate for carbon sequestration and production of green energy.***



**Shovel-Ready  
Project**



**Globally Experienced  
Team**



**Dominant Market  
Position**





# REQUEST FOR DECISION

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SUBJECT:	<b>Greenview Industrial Gateway – Terms of Reference Advisory Committee</b>		
SUBMISSION TO:	Greenview Industrial Gateway Committee Meeting	REVIEWED AND APPROVED FOR SUBMISSION	
MEETING DATE:	January 10, 2022	CAO: SW	MANAGER:
DEPARTMENT:	CAO SERVICES	GM:	PRESENTER: KR
STRATEGIC PLAN:	Development	LEG:	

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## RELEVANT LEGISLATION:

**Provincial** (cite) – N/A

**Council Bylaw/Policy** (cite) – N/A

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## RECOMMENDED ACTION:

**MOTION: That the Greenview Industrial Gateway Committee recommend Council to approve the Terms of Reference for the Greenview Industrial Gateway Advisory Committee.**

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## BACKGROUND/PROPOSAL:

Council has previously adopted the Greenview Industrial Gateway (GIG) 2021 Strategic Business Plan, whereby, one of the strategies was to establish an Advisory Board comprised of elected officials and industry stakeholders. Administration is recommending that a nine-member board be established, made up of the following:

- Two Greenview elected officials
- Two major gas and oilfield industry members
- Two members of gas and oil related industries
- Three members-at-large

The Committee will act as an advisory and advocacy group to the Greenview Industrial Gateway Committee on all matters related to the development of the GIG as well as the Grande Prairie Region, water carbon, rail and electrical production are examples of related topics.

Administration has determined that this group could be a valuable asset in bringing various stakeholders within the gas and oilfield industry together and produce dialogue which will be of benefit to the Greenview Industrial Gateway. It should be noted, that the Committee will require budget funds in the future, Administration will bring forward a tentative budget for Council's consideration once the Committee has been established.

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**BENEFITS OF THE RECOMMENDED ACTION:**

1. The benefit of the recommended motion is that the Committee will approve the creation of the Greenview Industrial Gateway Advisory Committee through Council's adoption of the associated Terms of Reference.

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**DISADVANTAGES OF THE RECOMMENDED ACTION:**

1. There are no disadvantages to the recommended motion.

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**ALTERNATIVES CONSIDERED:**

**Alternative #1:** The Committee has the alternative to alter or deny the recommended motion.

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**FINANCIAL IMPLICATION:**

There are no financial implications for the recommended motion.

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**STAFFING IMPLICATION:**

There are no staffing implications to the recommended motion.

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**PUBLIC ENGAGEMENT LEVEL:**

Greenview has adopted the IAP2 Framework for public consultation.

**INCREASING LEVEL OF PUBLIC IMPACT**

Inform

**PUBLIC PARTICIPATION GOAL**

Inform - To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.

**PROMISE TO THE PUBLIC**

Inform - We will keep you informed.

---

**FOLLOW UP ACTIONS:**

Administration will follow up with submitting a Request for Decision to Council for adopting the Terms of Reference for the Advisory Committee if the recommendation is approved as presented.

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**ATTACHMENT(S):**

- Greenview Industrial Gateway Advisory Committee Terms of Reference Draft

## **Greenview Industrial Gateway Advisory Committee Terms of Reference**

**WHEREAS** the Municipal District of Greenview No. 16 (Greenview) wish to establish a world class industrial development area (Greenview Industrial Gateway) within the Municipal District of Greenview,

**and,**

Greenview wishes to establish an advisory committee (the Committee) to guide development.

**NOW THEREFORE** the Committee is established as per the following:

### **1. Composition**

- 1.1. The Committee shall be comprised of the following:
  - a) two (2) Greenview elected officials.
  - b) two (2) major gas and oilfield industry members.
  - c) two (2) members of gas and oil related industries.
  - d) three (3) members-at-large.
- 1.2. The Committee shall be comprised of the following non-voting members:
  - a) The Greenview Industrial Development Executive Director; and,
  - b) Other administrative support such as a recording secretary, as required.
- 1.3. The Chairman shall be elected by the Committee members.
- 1.4. Quorum of the Committee shall be designated as the majority of the Committee Members.

### **2. Duties**

- 2.1 The Committee shall have the following duties:
  - a) Act as an advisory Committee to Council on matters relating to the Greenview Industrial Gateway project.
  - b) Recommend an annual operating budget for Council's consideration.
  - c) Ensure that an annual report on the Advisory Committee's activities is presented to Council.
  - d) Ensure that the adopted philosophies of Council are adhered to in all matters related to the Greenview Industrial Gateway Committee.
  - e) The Chairman and/or designate will act as the official spokesperson for the Committee.
  - f) Committee members will serve as positive ambassadors in all matters relating to the Greenview Industrial Gateway project.



### **3. Principles**

3.1 The Committee will operate and incorporate the following principles:

- a) The Committee members will act as ambassadors to promote the growth and industrial development in an environmentally sustainable manner.
- b) The Committee members will be required to actively participate in the Committee's approved activities.

### **4. Conduct**

- 4.1 Official Minutes of all meetings will be recorded.
- 4.2 Committee meetings will be held at the call of the Chairman.
- 4.3 The Committee will be governed by the governance procedures as outlined in Greenview's Procedural Bylaw No. 21-876.

### **5. Miscellaneous**

- 5.1 Terms of Reference may be amended upon the consent of Greenview Council.



# REQUEST FOR DECISION

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SUBJECT:	<b>Public Engagement Sessions – Grovedale and Grande Cache</b>		
SUBMISSION TO:	Greenview Industrial Gateway Committee Meeting	REVIEWED AND APPROVED FOR SUBMISSION	
MEETING DATE:	January 10, 2022	CAO: SW	MANAGER:
DEPARTMENT:	CAO SERVICES	GM:	PRESENTER: KR
STRATEGIC PLAN:	Development	LEG:	

---

## RELEVANT LEGISLATION:

**Provincial (cite) – N/A**

**Council Bylaw/Policy (cite) – N/A**

---

## RECOMMENDED ACTION:

**MOTION: That the Greenview Industrial Gateway Committee recommend Council authorize Administration to host public engagement sessions in Grovedale and Grande Cache, pending COVID restrictions.**

---

## BACKGROUND/PROPOSAL:

With the recent Greenview Industrial Gateway announcement, Administration has been inundated with inquiries from not only potential stakeholders but the local business and the public-at-large. Administration is suggesting that public engagement sessions be hosted within Grovedale and Grande Cache as to provide information on the Greenview Industrial Gateway area. The public engagement will provide opportunities to engage with potential stakeholders, local business and the public-at-large within Grovedale and Grande Cache to help educate and filter the rhetoric pertaining to the development of GIG and Northern Petrochemical Corporation. Administration is recommending that the sessions coincide with Council's scheduled Committee of the Whole meetings (potential dates: April 19<sup>th</sup> Grande Cache and June 21<sup>st</sup> Grovedale) in the respective areas, pending COVID restrictions.

---

## BENEFITS OF THE RECOMMENDED ACTION:

1. The benefit of the recommended motion is that the Committee will be recommending the hosting of public engagement sessions in Grovedale and Grande Cache to inform the stakeholders and public-at-large regarding the neighboring proposed Greenview Industrial Gateway project.

---

## DISADVANTAGES OF THE RECOMMENDED ACTION:

1. There are no disadvantages to the recommended motion.

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## ALTERNATIVES CONSIDERED:

**Alternative #1:** The Committee has the alternative to alter or deny the recommended motion.

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**FINANCIAL IMPLICATION:**

There are no financial implications for the recommended motion.

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**STAFFING IMPLICATION:**

There are no staffing implications to the recommended motion.

---

**PUBLIC ENGAGEMENT LEVEL:**

Greenview has adopted the IAP2 Framework for public consultation.

**INCREASING LEVEL OF PUBLIC IMPACT**

Inform

**PUBLIC PARTICIPATION GOAL**

Inform - To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.

**PROMISE TO THE PUBLIC**

Inform - We will keep you informed.

---

**FOLLOW UP ACTIONS:**

Administration will prepare a Request for Decision for Council with regard to the recommendation by the Committee, if applicable, for Greenview to host public engagement sessions in Grovedale and Grande Cache regarding the Greenview Industrial Gateway project.

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**ATTACHMENT(S):**

- N/A



# REQUEST FOR DECISION

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SUBJECT:	<b>Water Supply Report for the Greenview Industrial Gateway</b>		
SUBMISSION TO:	Greenview Industrial Gateway	REVIEWED AND APPROVED FOR SUBMISSION	
	Committee Meeting		
MEETING DATE:	January 10, 2022	CAO: SW	MANAGER:
DEPARTMENT:	CAO SERVICES	GM:	PRESENTER: KR
STRATEGIC PLAN:	Development	LEG:	

---

## RELEVANT LEGISLATION:

**Provincial** (cite) – N/A

**Council Bylaw/Policy** (cite) – N/A

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## RECOMMENDED ACTION:

**MOTION: That the Greenview Industrial Gateway Committee accept the Water Supply Report for the Greenview Industrial Gateway for information as presented.**

---

## BACKGROUND/PROPOSAL:

The Greenview Industrial Gateway requires a water supply in which to service the various industries within the industrial area. A firm specializing in water systems will need to be engaged as to engineer and design a water system in consultation with Alberta Environment that will service the industry. The study will be required to advance approvals to obtain a master water license to withdrawal a significant volume of water from the Smoky River. To-date Greenview has engaged Watersmart Solutions, Calgary, Alberta to provide some basic water consultation services. Administration has scheduled a meeting with local stakeholders as to review the Request for Proposal requirements prior to its issuance. Administration would draft the Request for Proposal and present the outcomes to Council for ratification.

---

## BENEFITS OF THE RECOMMENDED ACTION:

1. The benefit of the recommended motion is that the Committee will be advised of Administration issuing an RFP for the water supply of the Greenview Industrial Gateway project.

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## DISADVANTAGES OF THE RECOMMENDED ACTION:

1. There are no disadvantages to the recommended motion.

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## ALTERNATIVES CONSIDERED:

**Alternative #1:** The Committee has the alternative to alter or deny the recommended motion.

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## FINANCIAL IMPLICATION:

There are no financial implications for the recommended motion.

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STAFFING IMPLICATION:

There are no staffing implications to the recommended motion.

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PUBLIC ENGAGEMENT LEVEL:

Greenview has adopted the IAP2 Framework for public consultation.

**INCREASING LEVEL OF PUBLIC IMPACT**

Inform

**PUBLIC PARTICIPATION GOAL**

Inform - To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.

**PROMISE TO THE PUBLIC**

Inform - We will keep you informed.

---

FOLLOW UP ACTIONS:

If the recommended motion is approved as presented, Administration will submit a request for decision to Council regarding the request for proposal to acquire engineering services for the Greenview Industrial Gateway water supply.

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ATTACHMENT(S):

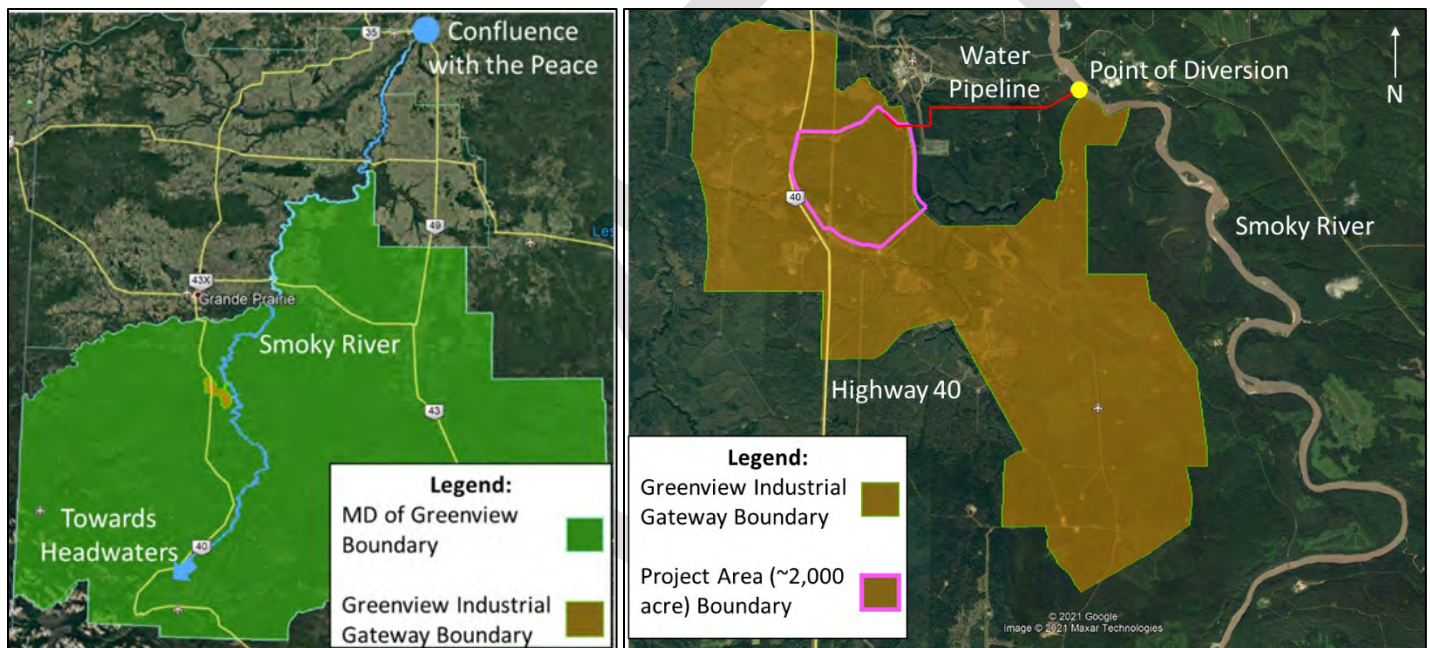
- Water Communications Brochure

# Greenview Industrial Gateway Water Application

## Project Background

The Municipal District of Greenview (Greenview) is creating an industrial development zone, known as the Greenview Industrial Gateway (GIG), located south of the City of Grande Prairie along Highway 40. The GIG will promote value-added industrial growth in the natural resources supply chain which will leverage the GIG's co-location with oil and gas production from the Montney formation. Within the GIG, an area of approximately 2,000 acres has been selected for the first stage of development, which will accommodate several new industrial facilities (i.e. the Project). The Project's facilities will be constructed over a period of several years, with operations of the first facility planned to start in 2026.

Developing the Project requires access to a secure and reliable water supply which will support long-term operations and growth. Greenview has applied to Alberta Environment and Parks (AEP) for a licence under the *Water Act* to divert 24 million cubic metres of water annually from the Smoky River to support Project development. As facilities are proposed for construction within the Project, they will undergo independent regulatory review to assess environmental impacts.



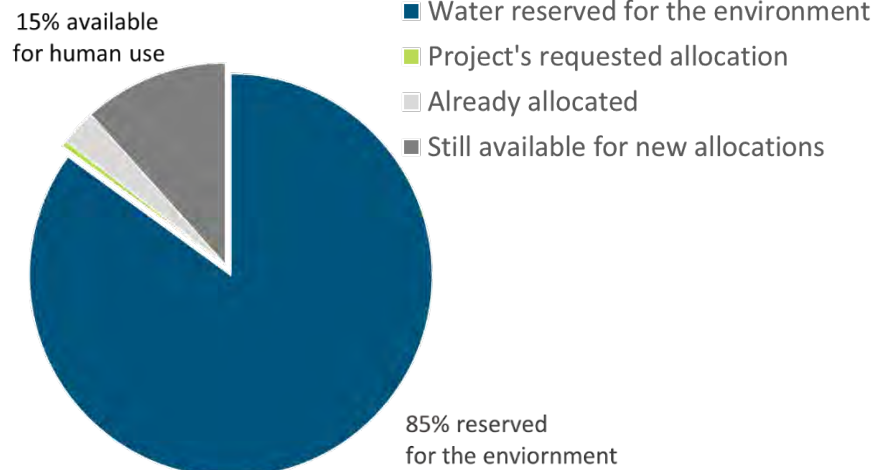
**Figure 1** View of the GIG within a regional context (left) and the Project Area within the broader GIG boundary (right)

## Benefits of the Project

The Project will promote orderly, staged industrial development in the region, while increasing the value-added processing of Northwestern Alberta's natural resources. Greenview will act as an industrial water utility for the facilities within the Project, which will simplify permitting for water access and reduce the cumulative environmental impacts of development.

## Water Licencing Plan

The Smoky River, which begins in the Rocky Mountains and flows through Greenview to the Peace River, has high water flows relative to withdrawals for municipal and industrial purposes. Greenview has requested a licence for the Project under the *Water Act* to divert 24 million cubic metres of water annually to support the operations of several new industrial facilities. This request equates to less than 0.5% of the total flow in the Smoky River in a typical year, leaving abundant water for environmental health and human use.



## Managing Impacts on the Smoky River

Greenview is committed developing the GIG responsibly, which includes appropriately managing the Project's impacts on the Smoky River. Greenview has undertaken a detailed hydrological analysis to ensure the Project's requested diversion can be supported by the Smoky River while leaving ample water in place for the environment and other human uses now and in the future.

The water intake structure will be designed to meet strict engineering and regulatory standards, and the design will be informed by extensive technical analysis and impact mitigation planning, including for fish and fish habitat, erosion and silt deposition, and long-term river morphology. In addition, the intake structure will be designed and operated to minimize impacts to recreational users of the Smoky River.

The requested diversion will support full build-out and operations of the Project over the next several decades, and Greenview will construct a single water intake structure on the Smoky River to enable this future development. This means the Smoky River will only be disturbed once for construction over the life of the Project, which significantly reduces cumulative impacts on the watercourse compared to each individual facility within the Project building their own intake structure.

## Monitoring and reporting

Monitoring and reporting water use will be required throughout the life of the Project. This public reporting, which will include volumes diverted from the Smoky River, will improve public access to water use information and demonstrate Greenview's ongoing commitment to effective management of water licensing requirements for the Project.

## Our Vision

The Greenview Industrial Gateway was established by the M.D. of Greenview in conjunction and with the support of the Alberta Government through extensive consultation and collaboration to develop a world class heavy industrial development focused on value added petrochemical development linked to the Montney's abundant natural gas deposit.

## Contact Us

Municipality of Greenview  
Valleyview Administration Building  
4806 - 36 avenue, P.O Box 1079,  
Valleyview, Alberta Canada T0H 3N0  
Kyle Reiling  
780-558-9039 or via email at  
[kyle.reiling@mdgreenview.ab.ca](mailto:kyle.reiling@mdgreenview.ab.ca).



# REQUEST FOR DECISION

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SUBJECT:	<b>Canadian Hydrogen Convention – Sponsorship</b>		
SUBMISSION TO:	Greenview Industrial Gateway Committee Meeting	REVIEWED AND APPROVED FOR SUBMISSION	
MEETING DATE:	January 10, 2022	CAO:	MANAGER:
DEPARTMENT:	CAO SERVICES	GM:	PRESENTER: KR
STRATEGIC PLAN:	Development	LEG:	

---

## RELEVANT LEGISLATION:

**Provincial (cite) – N/A**

**Council Bylaw/Policy (cite) – N/A**

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## RECOMMENDED ACTION:

**MOTION: That the Greenview Industrial Gateway Committee recommend Council approve sponsorship in the amount of \$22,374.00 plus GST for the Canadian Hydrogen Convention, April 26 – 28<sup>th</sup>, 2022 in Edmonton, Alberta, with funds to come from the Greenview Industrial Gateway.**

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## BACKGROUND/PROPOSAL:

Canada is playing a critical role in the development of the global hydrogen economy with innovators in production processes and pioneers in fuel cell technology. An inaugural Canadian Hydrogen Convention is scheduled to demonstrate Canada's leadership in hydrogen, April 26 – 28<sup>th</sup>, 2022 in Edmonton with approximately 500 delegates expected to be in attendance.

As the world pushes to decarbonize and countries navigate through the energy transition, traditional carbon emitting energy sources will soon electrify with low carbon fuels expected to provide up to 60 per cent of the world's energy needs. As the largest event in Canada showcasing hydrogen as a key enabler to reach net-zero emissions by 2050, the Canadian Hydrogen Convention will position Canada as a global hydrogen superpower.

A proposal has been presented for Greenview to be an Associate Sponsor at the Canadian Hydrogen Convention. The following is the exhibition and sponsorship investment summary:

- CHC 2022 Exhibition Space:
  - 10'x20' (200 sf) Indoor space – placement near TC Energy.
  - Reserved meeting room space for further meetings, discussions, and hosting.
- CHC 2022 Sponsorship Activation: Associate Level
  - Brochure Seat Drop
  - Day 2 Speaking Opportunity – **15 Minute Announcement Slot on the Main Stage: Overview of Greenview Industrial Gateway**



- o Branding & Networking: Associate Level
  - Includes 2 Delegate Passes, Collateral Branding, Digital Branding, Onsite Branding
- o First right of refusal for Canadian Hydrogen Convention 2023. Exhibition space is obligatory for CHC sponsors.

Administration recommends Greenview's participation in this conference as it will provide an opportunity to showcase the Greenview Industrial Gateway project.

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**BENEFITS OF THE RECOMMENDED ACTION:**

1. The benefit of the recommended motion is that the Committee will be recommending to Council sponsorship which will result in participation and showcasing of the Greenview Industrial Gateway project at an important pivotal world-class event.

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**DISADVANTAGES OF THE RECOMMENDED ACTION:**

1. There are no disadvantages to the recommended motion.

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**ALTERNATIVES CONSIDERED:**

**Alternative #1:** The Committee has the alternative to alter or deny the recommended motion.

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**FINANCIAL IMPLICATION:**

\$22,000.00 + \$195 Marketing Fee + \$179 Insurance = \$22,374.00 plus GST from the Greenview Industrial Gateway.

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**STAFFING IMPLICATION:**

There are no staffing implications to the recommended motion.

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**PUBLIC ENGAGEMENT LEVEL:**

Greenview has adopted the IAP2 Framework for public consultation.

**INCREASING LEVEL OF PUBLIC IMPACT**

Inform

**PUBLIC PARTICIPATION GOAL**

Inform - To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.

**PROMISE TO THE PUBLIC**

Inform - We will keep you informed.

---

**FOLLOW UP ACTIONS:**

Administration will prepare a Request for Decision for Council to review the sponsorship request upon the Committee's approval of the recommended motion.

---

ATTACHMENT(S):

- Event Proposal



# Canadian Hydrogen Convention

## Proposal prepared for



Municipal District of  
**GREENVIEW**

**Canadian Hydrogen Convention 2022**  
**April 26-28, 2022**  
**Edmonton, Alberta**  
**Edmonton Convention Centre**



Canadian Hydrogen Convention



Municipal District of  
**GREENVIEW**

## **INTRODUCTION**

Canada is playing a critical role in the development of the global hydrogen economy with innovators in production processes and pioneers in fuel cell technology. To demonstrate Canada's leadership in hydrogen, the Canadian Hydrogen Convention will launch its inaugural event in April 2022 in Edmonton, Alberta.

As the world pushes to decarbonize and countries navigate through the energy transition, traditional carbon-emitting energy sources will soon electrify - with low-carbon fuels expected to provide up to 60 per cent of the world's energy needs. As the largest event in Canada showcasing hydrogen as a key enabler to reach net-zero emissions by 2050, the Canadian Hydrogen Convention will position Canada as a global hydrogen superpower.

At Canadian Hydrogen Convention we are committed to recognize innovation as part of the overall conversation to creating a sustainable energy future for generations to come.

This proposal will designate the Municipal District of Greenview as an Associate Sponsor at the Canadian Hydrogen Convention.

# Exhibition & Sponsorship Investment

## Exhibition & Sponsorship Investment Summary

- CHC 2022 Exhibition Space:
  - 10'x20' (200 sf) Indoor space (\$44.00 CDN/sq.ft) - Value of **\$8,800\***
  - Space only.
  
- CHC 2022 Sponsorship Activation: Associate Level
  - Brochure Seat Drop
  - Day 2 Speaking Opportunity – 15 minute Announcement slot
  
- Branding & Networking: Associate Level
  - Includes Delegate Passes, Collateral Branding, Digital Branding, Onsite Branding
  
- **First right of refusal for Canadian Hydrogen Convention 2023.**
- **Exhibition space is obligatory for CHC sponsors.**

If bought individually: \$23,800.00 CDN\*

Extended offer: **\$22,00.00 CDN**

\*Price does not include applicable Event Marketing Fee (\$195), Insurance (\$179) & taxes (5%)

## 1) CHC 2022: Exhibition Space

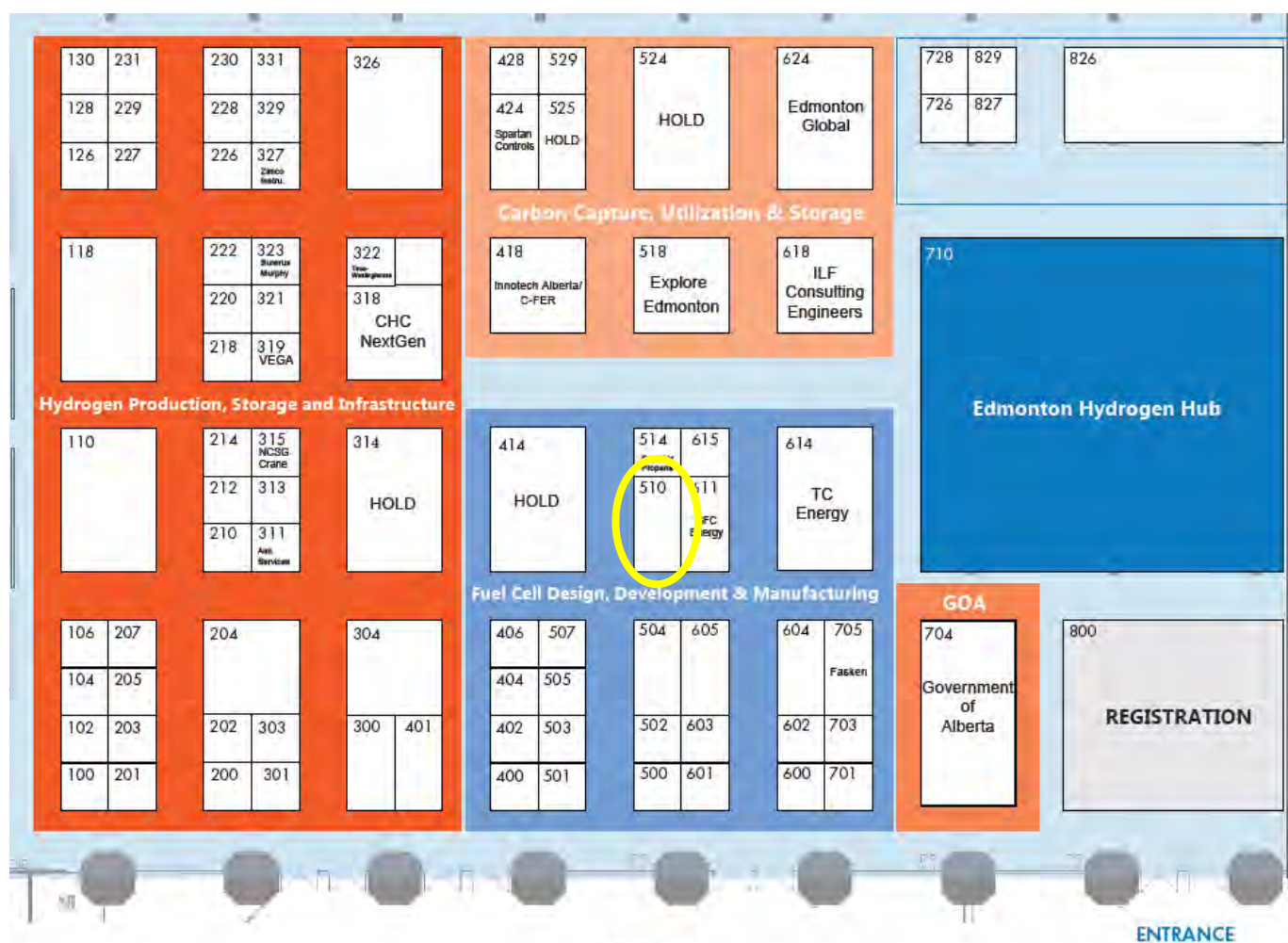
Municipal District of Greenview is invited to host a prime location on Canadian Hydrogen Convention (CHC) floor plan. Event floor space is critical for success with targeted communication and product launches. CHC represents an excellent platform for Municipal District of Greenview to promote and deliver its message.

**Booth:** 510 - 10'x20' (200 sf) Indoor space (marked below)

**Price:** \$44.00/sf x 200sf = \$8,800\*

\*Price does not include applicable Event Marketing Fee (\$195), Insurance (\$179) & taxes (5%)

- Space only.
- Customer is responsible for booth graphic design, artwork, and all operational orders.



Canadian Hydrogen Convention  
APRIL 26-28, 2022 | EDMONTON, ALBERTA

## **2) CHC 2022 Sponsorship Activation: Associate Level**

### **Brochure Seat Drop**

- Partner will provide their own collateral/brochure for distribution on all seats available during the opening of Day 2 conference.
- Minimum seats will be 200.

### **CHC Day 2 – Speaking Opportunity:**

- The opportunity to make a strategic announcement about your organization and partners to the strategic conference delegates and industry partners during the CHC conference. (up to 15 minutes)

## **3) Branding & Advertising: Associate Level**

### **Passes**

- Two (2) Delegate Passes for Conference.
  - 5% discount on each additional conference pass.

### **Collateral Branding**

- Organization logo featured in the event overview.
- Profile features in Official Conference Program and Official Show Guide (digital and/or print).
  - 50 words maximum.
  - To be supplied by sponsor.
- Logo featured in Official Conference Program (digital and/or print).
- Logo featured in Official Show Guide (digital and/or print).

### **Digital Branding**

- Organization logo and hyperlink featured on official Sponsor web page.
- Organization profile and hyperlink featured on Sponsor web page.
  - 50 words maximum.
  - To be supplied by sponsor.
- Logo recognition on selected newsletters and email campaign.
- Logo recognition on select social media posts (including LinkedIn, Facebook, Instagram, and Twitter) featuring logo/sponsor "Thank you".

### **Onsite**

- Organization logo featured on "Thank You to our Sponsors" banner (in order of sponsorship level).



# REQUEST FOR DECISION

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SUBJECT:	<b>Greenview Industrial Gateway Land Purchase</b>		
SUBMISSION TO:	Greenview Industrial Gateway Committee Meeting	REVIEWED AND APPROVED FOR SUBMISSION	
MEETING DATE:	January 10, 2022	CAO: SW	MANAGER:
DEPARTMENT:	CAO SERVICES	GM:	PRESENTER: KR
STRATEGIC PLAN:	Development	LEG:	

---

## RELEVANT LEGISLATION:

**Provincial** (cite) – N/A

**Council Bylaw/Policy** (cite) – N/A

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## RECOMMENDED ACTION:

**MOTION:** That the Greenview Industrial Gateway Committee recommend that Council approve the land purchase of 1,943.28 acres for the Greenview Industrial Gateway project as per the appraised assessment value per acre established by the Province of Alberta.

---

## BACKGROUND/PROPOSAL:

The Province of Alberta has conducted an appraisal of the lands required for the Greenview Industrial Gateway project. Greenview will be required to purchase the above noted properties at the established valuation per acre. Administration is recommending that Council proceed with the purchase of the 1,943.28 acres at the established cost per acre provided by the Province of Alberta.

---

## BENEFITS OF THE RECOMMENDED ACTION:

1. The benefit of the recommended motion is that the Committee will be recommending to Council the purchase of the required lands for the Gateway project.

---

## DISADVANTAGES OF THE RECOMMENDED ACTION:

1. There are no disadvantages to the recommended motion.

---

## ALTERNATIVES CONSIDERED:

**Alternative #1:** The Committee has the alternative to alter or deny the recommended motion.

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## FINANCIAL IMPLICATION:

The financial implications as per the Greenview Industrial Gateway Budget.

---

## STAFFING IMPLICATION:

There are no staffing implications to the recommended motion.



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**PUBLIC ENGAGEMENT LEVEL:**

Greenview has adopted the IAP2 Framework for public consultation.

**INCREASING LEVEL OF PUBLIC IMPACT**

Inform

**PUBLIC PARTICIPATION GOAL**

Inform - To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.

**PROMISE TO THE PUBLIC**

Inform - We will keep you informed.

---

**FOLLOW UP ACTIONS:**

Administration will follow up with submitting a Request for Decision to Council for approving the land purchase if the Committee approves of the recommended action.

---

**ATTACHMENT(S):**

- N/A