

# Selkirk Solar Glass Manufacturing Facility

Engagement Program Report

Canadian Premium Sand Inc.

60669757

November 2022



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Alasdair Knox  
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November 2, 2022

**Project #**  
60669757

**Subject: Selkirk Solar Glass Manufacturing Facility – Engagement Program Report**

Dear Mr. Knox:

Please find enclosed the Engagement Program Report for the proposed Selkirk Solar Glass Manufacturing Facility in Selkirk, Manitoba. This report provides supplemental information for the Environment Act Proposal and Environment Act Licence application (Manitoba Environmental Assessment Branch File No. 6137.00) for this project.

Should you have any questions regarding the project or content in this report, please do not hesitate to contact Cliff Samoiloff at 204-928-7427.

Sincerely,  
**AECOM Canada Ltd.**



Cliff Samoiloff, B.Sc., EP(CEA)  
Senior Scientist, Project Manager

CS:ag  
Encl.

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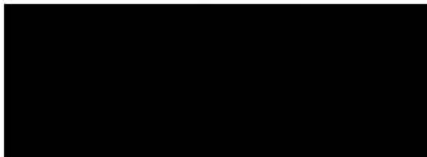
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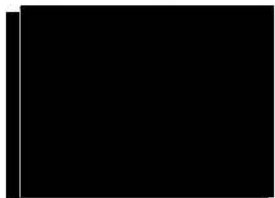
Quality Information

Prepared by



Marlene Gifford, M.Sc., P.Biol., R.P.Bio.  
Biologist, Environmental Assessor

Reviewed by



Cliff Samoiloff, B.Sc., EP(CEA)  
Senior Scientist, Project Manager

Revision History

Rev #	Revision Date	Revised By:	Revision Description

Distribution List

# Hard Copies	PDF Required	Association / Company Name
	✓	Canadian Premium Sand Inc.
	✓	Manitoba Environment, Climate and Parks, Environmental Approval Branch
	✓	AECOM Canada Ltd.

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# 1. Project Engagement Program

This report provides a summary of the public, community, and stakeholder engagement efforts that have been conducted for the Canadian Premium Sand Inc. (CPS) Solar Glass Manufacturing Facility (the 'Project') and resulting feedback. The Project engagement program has included a public information session conducted by AECOM Canada Ltd. (AECOM) on behalf of CPS (**Section 2**) and additional community and stakeholder communications by CPS (**Section 3**).

## 2. Public Information Session

A public information session was held in Selkirk, Manitoba at the Selkirk Recreation Complex from 3 p.m. to 8 p.m. on October 19, 2022. This event was hosted by CPS and AECOM after the Environment Act Proposal for the Project was submitted to Manitoba Environment Climate and Parks (MECP) Environmental Assessment Branch (EAB) on October 5, 2022.<sup>1</sup> The public information session occurred prior to the Project Environment Act Proposal being made available in the online Public Registry for public review of the Environment Act Licence application. The public information session event was advertised in The Selkirk Record newspaper on September 29, 2022, and in the Winnipeg Free Press on October 1, 2022 (**Appendix A**). Representatives from CPS and AECOM were available to guide participants through the storyboards and answer questions asked by participants.

The public information session was drop-in format and was designed to provide attendees with the opportunity to:

- Review Project information;
- Discuss the Project with representatives from CPS and AECOM; and
- Collect public feedback regarding the proposed Project.

The public information session was well-attended, with 62 participants that signed-in, and three additional participants that preferred not to sign-in. In total, approximately 65 people attended the public information session. Of the 38 attendees who chose to provide their address on the sign-in sheet, 27 (71%) indicated they were from Selkirk.

### 2.1 Communication Materials

Communication materials provided at the public information session included:

- 14 Storyboards providing Project information (**Appendix B**)
- Additional Project information handouts (**Appendix C**) including:
  - A two-page 'Fact Sheet'
  - A Frequently Asked Questions (FAQ) document
- A voluntary Feedback Form / Questionnaire (**Appendix D**)

A selection of photographs taken at the public information session are included in **Appendix E**.

In addition to publishing the public information session event notice in The Selkirk Record and the Winnipeg Free Press newspapers, CPS retained a public relations consultant (The PRHouse Inc.) to hand-deliver notices and Project information handouts to 25 local residents and businesses (e.g., residents on Walker Avenue [street bordering the Project site to the north]; Selkirk City Hall; Selkirk Aerodrome; nearby medical offices) on October 7, 2022, which was 12 days prior to the public information session event.

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<sup>1</sup> The Environment Act Licence application, including Environment Act Proposal for this Project (File No. 6137.00) was uploaded to the Public Registry by the Environmental Assessment Branch on October 21, 2022.

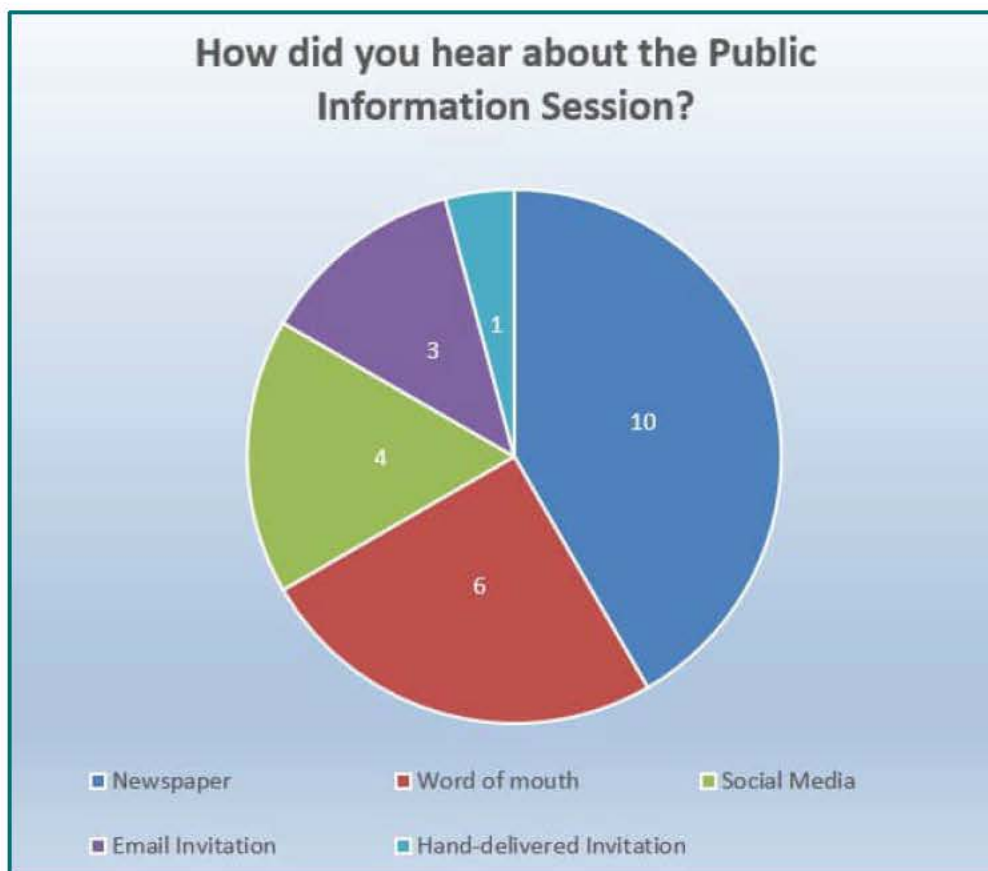


## 2.2 Public Input Received

A total of 20 questionnaires were received from the attendees at the public information session. To protect the privacy of the attendees, copies of the questionnaire sheets are not provided in this report; however, a sample questionnaire can be found in **Appendix D**. The following subsections summarize the comments received.

### 2.2.1 Comments on How People Heard about the Event

Attendees were asked how they heard about the public information session. Options provided in the questionnaire included through the newspaper, word of mouth, social media (e.g., Facebook) or email communication. Results are provided in **Figure 2-1**.



**Figure 2-1: How did you hear about the Public Information Session?**

*Note: Respondents had the option of selecting more than one answer*

### 2.2.2 Thoughts on the Project

Respondents were asked to provide their thoughts on Project. Of the 20 respondents, most (70%) expressed positive thoughts regarding the proposed Project (e.g., using words such as 'exciting', and 'good' or 'great' to describe their thoughts and opportunities related to the Project). Most respondents (65%) expressed interest in job opportunities with the Project or indicated that the Project would be good for Selkirk. Although some environmental concerns were indicated (**Section 2.2.3**), none of the respondents clearly indicated that they were opposed to the Project. One respondent mentioned that they would like to see the entire solar panels manufactured in Selkirk rather than just the solar glass for the panels. One respondent was concerned about adequate Project funding.

### 2.2.3 Environmental Concerns

Respondents were asked if they had any outstanding concerns regarding the Project. Of the 20 completed questionnaires, six (30%) indicated that they had no outstanding environmental concerns and one person did not respond to this part of the questionnaire. For those respondents indicating that they had outstanding concerns, respondents were asked to select their top three concerns from a list of environmental components listed in **Figure 3-2**. However, respondents had the option of selecting any of the environmental components listed.

Of the 13 respondents that had outstanding environmental concerns, a few respondents selected their top three concerns, while others selected either more or less than three concerns. The top concern indicated was regarding traffic (62% of the 13 respondents; **Figure 3-2**). The next top concerns were regarding air pollution/noise, and plants (54% of the 13 respondents), noting that the Project Site is almost entirely cultivated land; therefore, the concern regarding plants maybe related to change of land use for the purpose of the Project. One person specifically mentioned “reduction of farmland” as a concern. One person was concerned about “spring weight”, possibly in reference to roads.

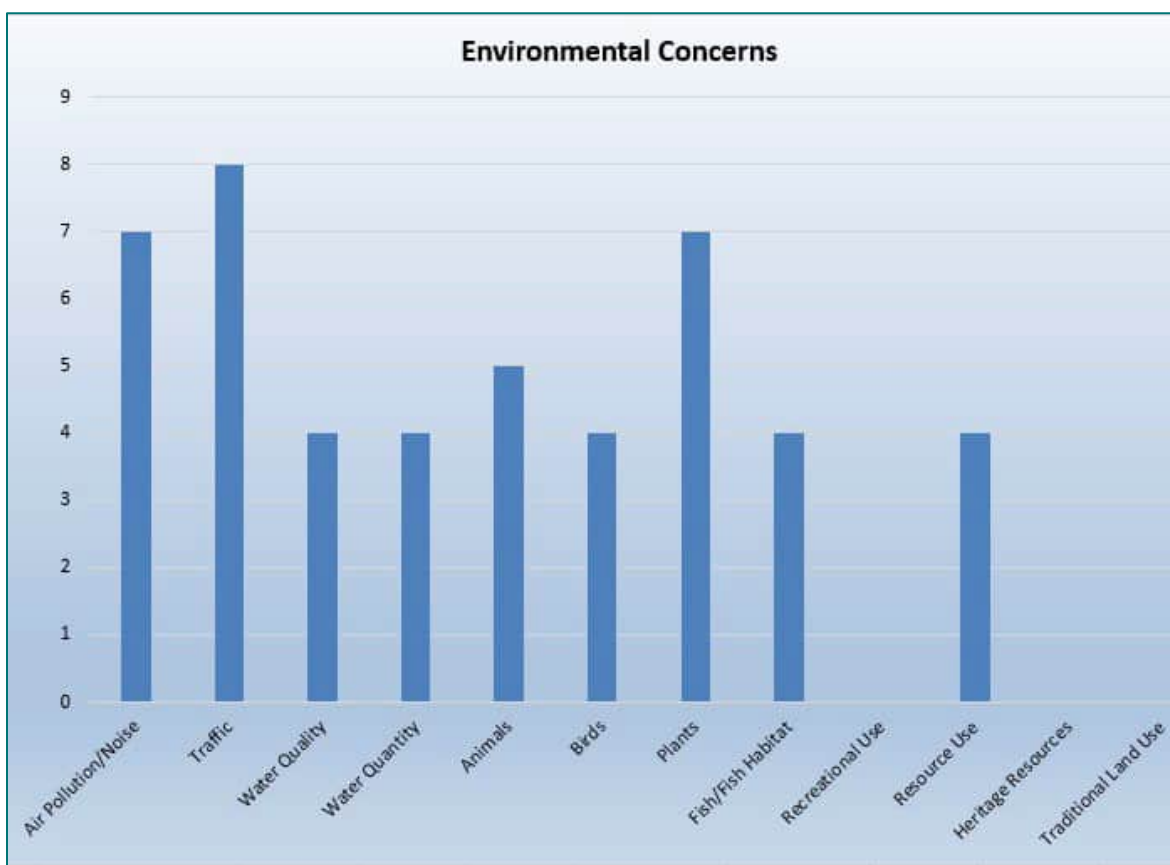


Figure 3-2: Environmental Concerns

### 2.2.4 Project Related Interests Moving Forward

Respondents were asked if they have any specific interests related to the Project going forward. Six of the 20 people who completed questionnaires did not indicate any specific interests moving forward. Most respondents (14 [70%]) indicated interest in employment or contract opportunities. One respondent indicated interest in the “influence on local health care service delivery”.



## 2.2.5 Availability of Information at the Public information session

Respondents were asked if they found the storyboards informative and if someone was available to answer questions. All but one of the 20 questionnaire respondents thought the storyboards were informative. All 18 people who responded to the question regarding if their questions were answered indicated that someone was able to answer their questions.

## 2.2.6 Additional Comments and Questions

Attendees were asked if they had any additional comments on the Project. Of the 14 respondents with additional comments, four (29%) were related to employment/economic opportunities, with one person specifically indicating they would like to see hiring of locals. None of the respondents indicated clear opposition to the Project, although one person was concerned about increased traffic and overall environmental impact. One person indicated minimal housing available in Selkirk and associated limitation to attracting people to Selkirk for the Project (e.g., for employment). One person expressed a desire for proper decommissioning of the Project at the end of the Project life to "...leave nothing but footprints behind". Two people commented that they thought the information at the public information session was good (storyboards and handouts). One respondent would like CPS to "maintain information and transparency to satisfy public positive perception". Three questions were asked: one asking about the kind of education required for employment opportunities; one asking, "When do we start?" and one asking if Selkirk can supply enough effluent water for Project operations.

# 3. Additional Community and Stakeholder Outreach

In addition to holding the public information session (**Section 2**), CPS reached out to representatives of local communities and businesses potentially affected by the Project to have direct conversations about the proposed Project and to address questions and concerns (**Table 3-1**).

**Table 3-1: CPS Additional Community and Stakeholder Communications**

DATE	ENTITY	CONTACTS / ATTENDEES	SUBJECT DISCUSSED / INFORMATION SHARED	COMMUNICATION METHOD	COMMENTS CONCERNS
<b>PROVINCE / CITY OF SELKIRK / MANITOBA HYDRO</b>					
December 2022 - Ongoing	City of Selkirk	Tim Fedinuww primary contact, mayor & counsel, Duane Nichol CAO and others	Project details and land option to purchase agreement	Phone call, email, in person	No concerns expressed
December 2022 - Ongoing	Province of Manitoba	Numerous meetings spanning Economic Development staff, Infrastructure, ADM's, Ministers	Project details, staffing, economic potential and other project related topics	Phone call, email, in person	No concerns expressed

DATE	ENTITY	CONTACTS / ATTENDEES	SUBJECT DISCUSSED / INFORMATION SHARED	COMMUNICATION METHOD	COMMENTS CONCERNS
October 26, 2022	Department of Natural Resources and Northern Development Consultation and Reconciliation Unit	Gary Courchene, Ayri Madrid	Provincial engagement to date, duty to consult affected Indigenous communities; provincial assessment requirements/ dates	Phone call, email, in person	Engagement with Indigenous peoples to identify any concerns
2019 - Ongoing	Manitoba Hydro	Doug Butterfield - account manager, is primary contact. Numerous on-line meetings, telephone calls and in-person meetings	Meetings held with various other departments concerning hydro power supply and gas supply. Load Interconnection Facilities Study (LIFS) study conducted	Phone call, email, in person	No concerns expressed
<b>INDIGENOUS</b>					
October 28, 2022	Manitoba Métis Federation	President David Chartrand	Request for engagement with Manitoba Métis Federation regarding the Project	Letter, email	Ongoing communications
October 25, 2022	Brokenhead First Nation	Chief Gordon Bluesky	Discussed Project, emailed Project information and public information session (Section 2) invitation	Phone call, travelled to community and email	Interested in Project
October 20, 2022	Community of Seymourville	Mayor Audrey Seymour Town Manager Keith Seymour	Emailed Project information and public information session (Section 2) invitation	Phone call, email	No concerns expressed; ongoing communications
September 22, 2022	Peguis First Nation	Chief Glen Hudson	Project details and meeting/point-of-contact logistics	Phone call, email	Duty to consult; ongoing communications
September 13, 2022	Hollow Water	Councillor Geoff Bushie	Discussed Project, emailed Project information and	Phone call, email	Ongoing communications



DATE	ENTITY	CONTACTS / ATTENDEES	SUBJECT DISCUSSED / INFORMATION SHARED	COMMUNICATION METHOD	COMMENTS CONCERNS
			public information session (Section 2) invitation		
September 13, 2022	Manitoba Métis Federation (MMF) - Selkirk local	No response	Emailed Project information and public information session (Section 2) invitation	Email and phone call	No response to voicemail or invitation; ongoing communications
September 8, 2022	Southeast Resource Development Council Corp. (SRDC)	Executive Director Doug Mercer, Adrea Asham Exec Assist.	Vincent Fontaine (Ishkonigan) met with leadership to discuss the Project	Email, in person	Ongoing communications
September 3, 2022 - Ongoing	Brokenhead First Nation	Chief Gordon Bluesky	Project details and meeting/point-of-contact logistics	Text, phone call, email	Duty to consult; ongoing communications
September 1, 2022	Black River	Chief Sheldon Kent	Emailed Project information and public information session (Section 2) invitation	Travelled to community of Black River, phone call and email	Ongoing communications
August 31, 2022	Treaty 1	Chief Executive Officer Whelan Sutherland	Vincent Fontaine (Ishkonigan) met with leadership to discuss the Project	Email, in person	Was informed that Treaty 1 will defer to individual First Nations (FNs) to interact
August 23, 2022 - Ongoing	Peguis First Nation	Chief Glen Hudson, Mike Sutherland	Emailed Project information and public information session (Section 2) invitation	Email, phone call	Ongoing communications
July 7, 2022	Grand Council Treaty 3	Ogichidaa Grand Chief Francis Kavanaugh	Emailed Project information and public information session (Section 2) invitation	Email, phone call	Was informed that Treaty 3 will defer to individual First Nations (FNs) to interact
<b>BUSINESSES IN IMMEDIATE PROXIMITY TO PROJECT SITE</b>					
October 19, 2022	Alpha HD (truck repair and trucking services)	Tim Veitch, Vice President	Hand delivered public information session (Section 2) invitation; casual discussion with	(See previous column information)	Supports the Project; interested in which role his company can

DATE	ENTITY	CONTACTS / ATTENDEES	SUBJECT DISCUSSED / INFORMATION SHARED	COMMUNICATION METHOD	COMMENTS CONCERNS
	located at 369 Walker Ave.)		Glenn Leroux (CPS) at the public information session		play in supporting Project operations
October 7, 2022	Selkirk Veterinary Services (located at 6 Wersch St.)	Dr. Burte Klug, veterinarian	Hand delivered public information session (Section 2) invitation; telephone discussion with Glenn Leroux (CPS) to set-up a meeting/call in November 2022	(See previous column information)	Concerns are potential noise and odour; Dr. Klug could not attend public information session due to travel plans

# Appendix **A**

## Newspaper Notices

# Classifieds

Selkirk Record

Book Your Classified Ad Today - Call 785-1618 or Email [lucy@selkirkrecord.ca](mailto:lucy@selkirkrecord.ca)

## AUCTIONS

**AUCTION SALE** for Denis Johnson Beausejour, Manitoba  
Sat., Oct. 1, 2022 Starting at 10:30 a.m.  
Location: lot 218 Woodydell Drive (approx. 3 miles east of Beausejour on PTH 44 to road 45E, turn south for 1 mile to Woodydell Drive (Rd 71N))  
Rain Date: Sun., Oct. 2, 2022. All items sold in "as is, where is" condition with no warranties implied or expressed.

Steel movable welding table; Amvill (large); Lincoln 4C 225 amp welder Thermal Dynamics Cut-raster 51 plasma cutter; Hobart MIG welder; bench vice Lincoln generator welder c/w 3 hp gas engine; large home-made press; metal locker air compressor 3 cylinder 5 hp; 3 tan standing press; drill press; floor (antique) bench drill press; floor drill press; floor model bench grinder on wheels; bend saw B&D Radial arm saw; 6 hp gas water pump; electric chain and pruning saw Poulsen chain saw; pressure washer; barrel pump; crushing belt; Miter saws Good assortment of shop, hand, power, & garden tools; wheelbarrow & much more chertfield; oak table & 2 leaf c/w 5 chairs; medical recliner; computer desk.  
These following items will be sold at approximately 1 p.m.:

1998 Polaris Classic Indy 500 snowmobile approx. 6000 miles; 8 hp snowblower; 2004 Polaris Sportsman 400 ATV c/w rear box & winch, approx. 805 hrs, 6531 mi.; Tandem Trailer, 15 ft. x 6 ft.; Minibaja motorcycle; Honda trail 70 motor bike 2-Yamaha Tenny motor bikes; HM wood splitter & power pack; garden tiller Dynamark 18 hp tractor lawn mower c/w bagger; Coleman 10 hp gas generator 18 hp tractor c/w snowblower & tiller; Mechanical motor crane lift.

Denis is relocating as the property has been sold. The items cannot be viewed on the internet. This is a very interesting sale to attend. Terms of the sale Cash, Debit, MC, Visa accepted. All items must be paid for on day of sale. Any statement made by the auctioneer on item(s) or lot(s) before being sold shall take precedence over any other advertising. Once an item is sold the purchaser is responsible for the item(s). Items may be added or delete before sale time. GST and PST applied on all sale items. Not responsible for errors in advertising. For further information on the sale telephone Denis at 204-268-1582. The sale is conducted by Rent-a-Auctioneer 204-268-6650.

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**PART TIME POSITION**

Responsibilities will include:  
• Cash duties, customer services, stock replenishment and merchandising functions.

Previous experience preferred but will train suitable candidate.  
Must be available weekdays and alternating Saturdays - 8am-6pm

Please apply in person or forward resume in confidence to:  
Darwin Chesley  
c/o Parker's Super Thrifty Pharmacy  
362 Evelyn St., Selkirk, MB R1A 1N3  
Call: 204-482-4489  
email: [parker@superthrifty.com](mailto:parker@superthrifty.com)

## METAL RECYCLING

Auto, farm scrap, brass, copper & batteries wanted. 47 Patterson Dr. Stonewall Industrial Park. Interlake Salvage & Recycling Inc. 204-467-9344.

## SCRAP METAL

Buyer for all farm-yard scrap, machinery and autos. No item too large Best prices paid, cash in hand. Phone Al at 204-461-1649.

**BUYING** SCRAP METAL, CARS, TRACTORS, COMBINES, FARM SCRAP, ANY METAL MATERIAL, ANY FARM MACHINERY, PH LONNIE AT 204-686-3407 LVE MESSAGE OR CELL AT 204-861-2031.

## FARM MACHINERY

Haying package all in exc. working condition. 966 IHC tractor, Case/9H DCK131 disc bine, 13 ft. hay conditioner, Buhler 9 wheel hay rake. \$36,000. Also Sokol gooseneck stock trailer, new tires, \$5800. Ph 204-467-8537 or 204-955-2068, Stonewall.

**News Tips?**  
**Story Ideas?**  
call the Record  
204-785-1618

## CONSTRUCTION EQUIPMENT

Miller Trailblazer 400 amp, Welder generator for sale. All analog (no digital boards), multi-process, mounted on a tow behind. \$9,800 obo. Call or text Aaron 204-295-8004.

## FIREWOOD

Firewood for Sale: cut & split-oak/400 c. ash/375 c. tamarack/325 c. pine/300 c. poplar/250 c. Delivery extra. Call 204-785-0641 or 204-904-4441.

## PROPERTY MANAGEMENT

Do you own rental property in Winnipeg? Are you tired of dealing with long term renters and the mess they can leave? We can provide you with a different option to earn a rental income. Pawluk Realty 204-890-8121.

## LOT FOR SALE

Vacant building lot for sale. Gunton - Residential building lot, \$59,900. Also Teulon residential lot, back onto fair grounds, \$64,900. Ph 204-467-8537 or 204-955-2068, Stonewall.

416 Manchester Ave, Selkirk, MB. 50 ft. x 125 ft. Nicely treed. Call 204-345-9762 or email [jacobrow@hotmail.com](mailto:jacobrow@hotmail.com)

SUPPORT LOCAL BUSINESS

## BUILDING FOR SALE

24 X 28 building, 2nd construction, fully insulated, wired & dry-walled, baseboard heat, panel box, no plumbing. On I-beams ready to move. Would make good addition or cabin, or a good office building. \$24,900. Ph. 204-467-8537 or 204-955-2068 Stonewall.

## MOBILE HOME FOR SALE

4 bdrm., air conditioning, to be moved. \$79,500 obo. Ph. 204-641-8137.

## HOUSEKEEPING

If you would like top-quality housekeeping, I can provide you with that excellent service. I am very efficient, organized and flexible. Please call Laurie 204-485-5524.

## SHOP LOCAL

## LAKESIDE FLIGHT ACADEMY

Want to learn how to fly? Recreational Pilot Program is the best way to get started, must be 16 years of age. Privileges: fly for fun in a certified aircraft or an ultra-light; fly by day only in Canada with one passenger; can easily add float rating to permit. Lakeside Flight Academy 204-642-4799.

## HELP WANTED

Looking for part time work? We are hiring collators for Tuesday (12:30 to 8:30 p.m.) and Wednesday in the Inkster Park in Winnipeg. Must be in good physical condition, have good manual dexterity, be capable of standing for long hours and lifting at least 25 lbs. If interested call 204-467-5836.

## HELP WANTED

Searle Greenhouses Ltd. is hiring for production line employees to build holiday arrangements. Position is full time hours (8-5 p.m. Monday-Friday) for approximately two-four weeks starting around October 24th. No experience required, training will be provided. Accepted applicants will be eligible for rehires next spring starting March-May 2023 (Full Time Hours). Rate is \$15 per hour. Please forward resumes to employment@searlegreenhouses.com

Everything you need to promote your business



Call Today!  
467-5836

## HELP WANTED

The Window Factory located in Selkirk requires an installers assist and shop labourer. Must be able to work in heights, on ladders, work outdoors in all forms of weather and to be safety conscious. Please bring in resume into the office located at 605 Mercy St. Selkirk.

Round-Tuit Cleaning is hiring a part-time janitorial position in the Selkirk and Lockport area. Successful candidate will have a driver's license, reliable transportation, clear criminal record check, be physically fit and be prepared to work up to 20 hours per week, evenings, Monday to Friday. For further information call 204-785-3257.

SHOP LOCAL - SUPPORT LOCAL BUSINESS

## PUBLIC INFORMATION SESSION

Solar Glass Manufacturing Facility Project  
Canadian Premium Sand Inc.

Wednesday, October 19, 2022  
Selkirk Recreation Complex  
180 Easton Drive, Selkirk, MB  
3 p.m. to 8 p.m.  
(Drop-in Format)

Canadian Premium Sand Inc. is hosting a Public Information Session to provide information on a proposed Solar Glass Manufacturing Facility Project located in Selkirk, Manitoba. This will be an opportunity for attendees to learn more about the Project and share their feedback.

Representatives from Canadian Premium Sand Inc. and their environmental consultant will be available to answer any questions.

Inquiries: [sandtosolar@cpsmail.com](mailto:sandtosolar@cpsmail.com)

## Public Notice

Change in Meeting Dates  
October 2022

October 11th and October 25th, 2022 Regular Meetings are cancelled and rescheduled to October 18, 2022 commencing at 2:00 p.m. with Planning Hearings to begin at 6:00 p.m.

Resolution No. 2022-464

Deepak Joshi  
Chief Administrative Officer

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[www.rmofstclements.com](http://www.rmofstclements.com)







# Appendix **B**

## **Public Information Session Storyboards**



# Welcome!

Solar Glass Manufacturing Facility  
Selkirk, Manitoba

Public Information Session

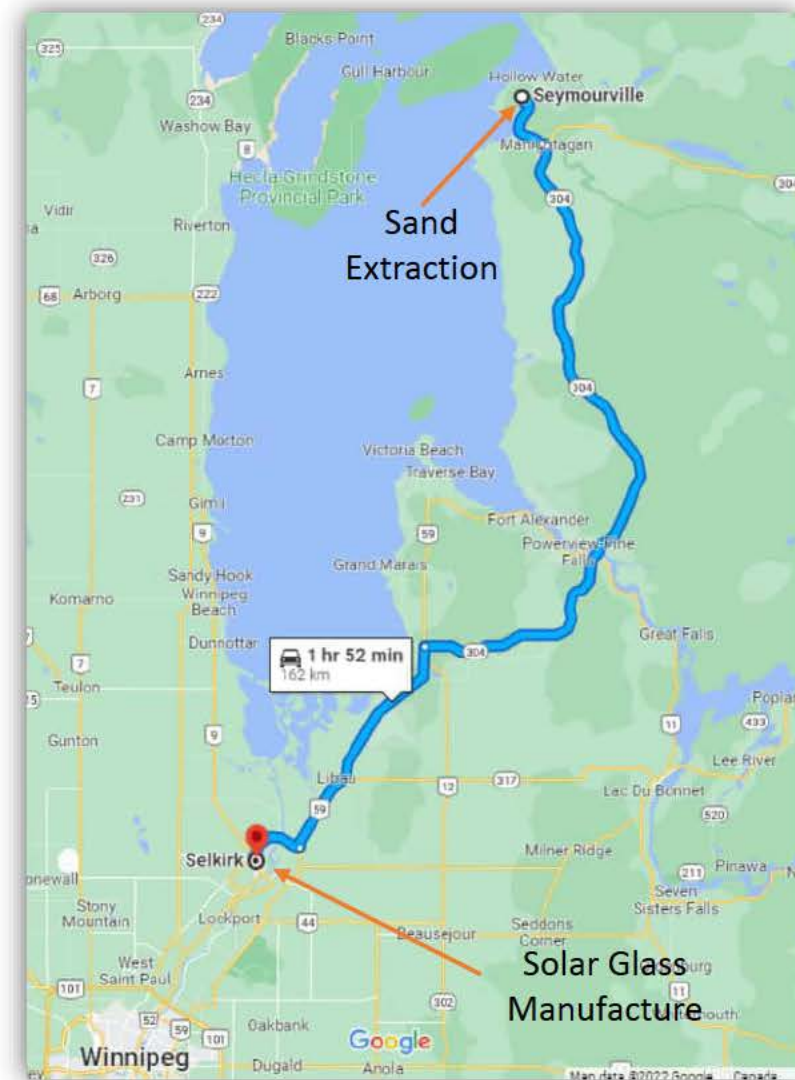






# Project Overview:

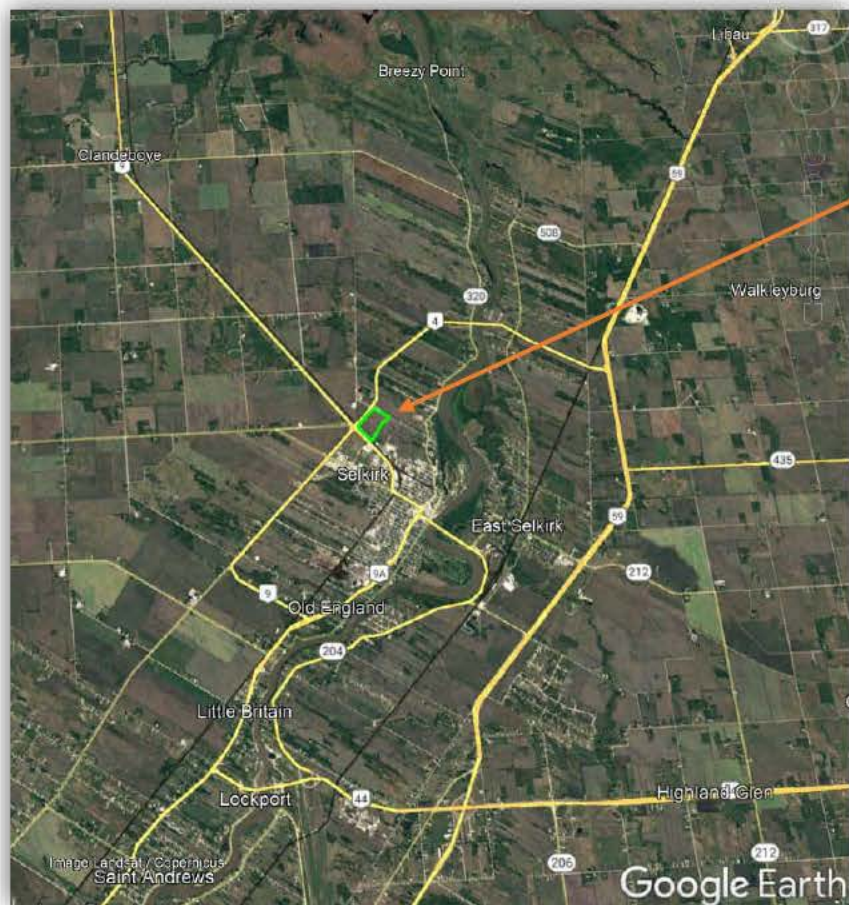
- **1<sup>st</sup> Solar Glass Manufacturing Facility of its kind in Canada will serve the** increasing global demand for solar panel energy
- **High-purity silica sand** sourced from CPS's licenced Wanipigow Sand Extraction Project in Seymourville, Manitoba
- Sand trucked to Solar Glass Manufacturing Facility in **Selkirk, Manitoba**







# Solar Glass Manufacturing Facility



Proposed  
Solar Glass  
Facility  
Location in  
Selkirk



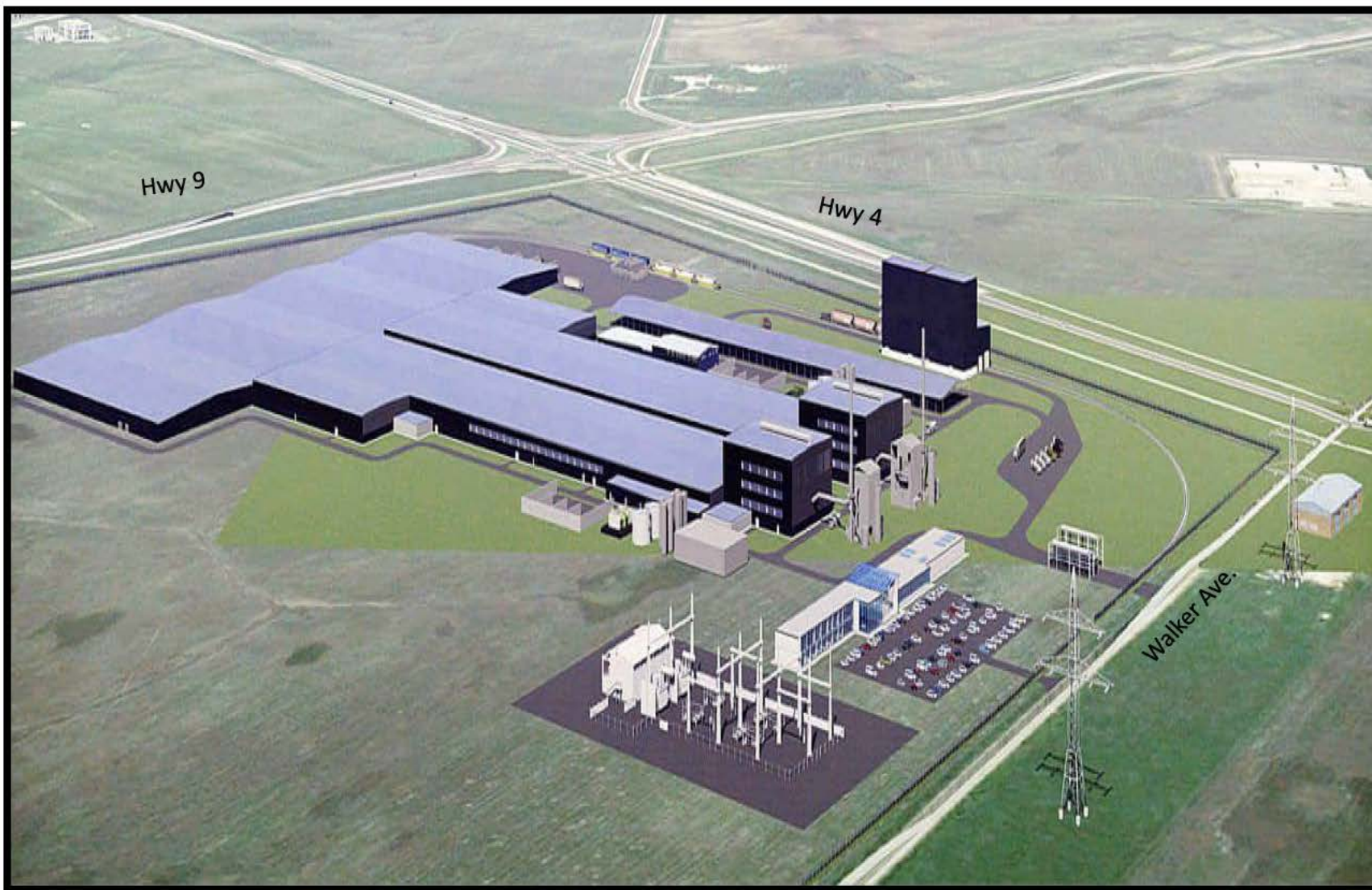




# Solar Glass Manufacturing Facility

Facility Conceptual Image of full buildout: Phases 1 & 2

Train Access  
via rail spur  
from existing  
rail line



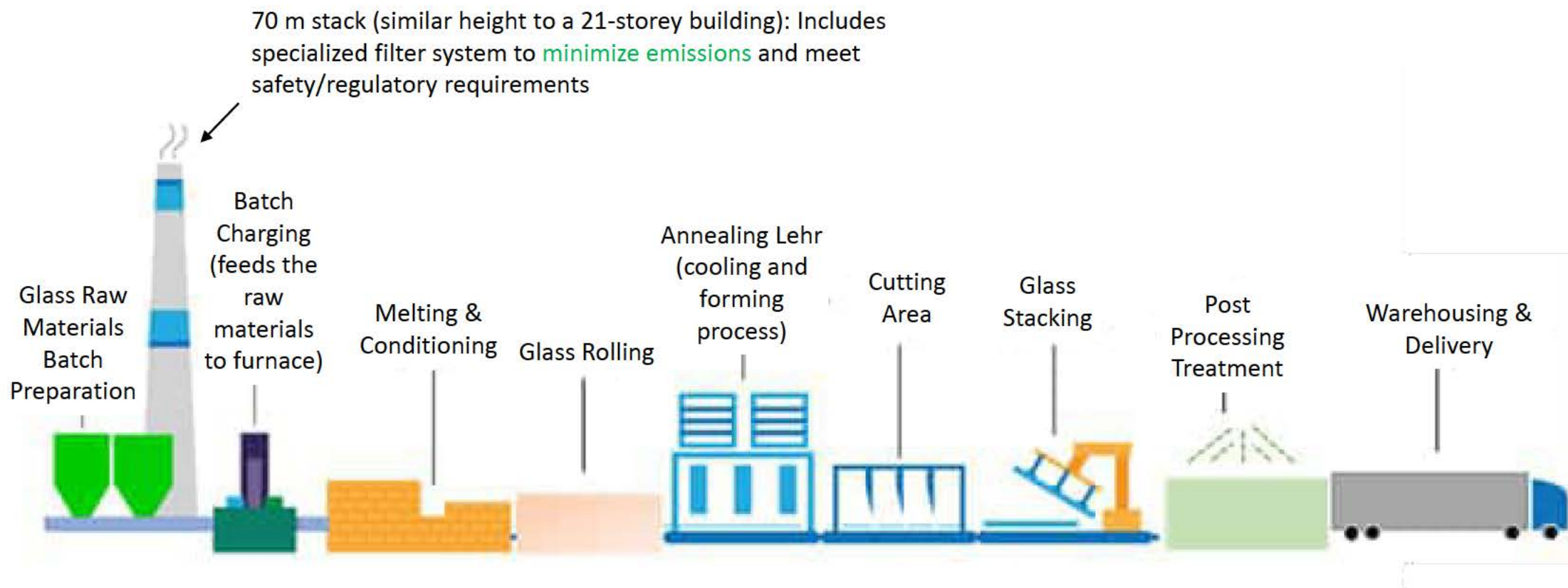
Truck Traffic  
Access via Hwy  
4 to Walker  
Ave

(Up to 8  
transport  
trucks per hour  
inbound and  
outbound)





# Solar Glass Manufacturing Process





# Project Power and Water

## POWER

- **Natural Gas – 70%**
  - Melt raw materials for glass making
  - Control cooling of the glass to produce the desired tension and quality
  - Heat buildings
  - Supplied by existing gas line adjacent to site
- **Electricity – 30%**
  - Power the remaining glass processing equipment
  - Supplied from existing 115 kV Manitoba Hydro line north of site

## WATER

- **For Processing / Making Glass**

Treated effluent from Selkirk's new Wastewater Treatment Plant
- **Wastewater**

Disposed via City of Selkirk municipal sewer system
- **Potable Water**

Employee facilities from City of Selkirk water mains



# Solar Glass Production Raw Materials

## Raw materials for the manufacturing of glass includes:

- 'High Purity – Low Iron' Silica Sand (about 51 %)
  - sourced from CPS's Wanipigow Sand Extraction Project (Seymourville, Manitoba)
- Soda Ash (about 14 %)
- Limestone (about 4 %)
- Dolomite (about 13 %)
- Sodium (about 3 %)

Plus "cullet" (broken glass pieces, recycled from the on-site glass cutting and trimming processes) makes up about 15% of glass-making raw materials





# Project Environmental Impacts

## Air Quality:

- Emissions controlled through specialized filters
- Emissions monitored to meet safety/regulatory requirements
- Operations not predicted to exceed air quality guidelines

## Water:

- Using treated water from Selkirk's new Wastewater Treatment Plant for processing
- No untreated wastewater discharged to environment (goes back into Selkirk sewer system)

## Noise:

- Located away from residential areas, in area zoned for heavy industrial activity
- Enclosed manufacturing process building to reduce external noise
- Operations not predicted to exceed noise guidelines

## Wildlife & Habitat:

- Project located in former agriculture field now zoned for industrial development
- Disturbance of natural areas negligible

# Environmental Benefits

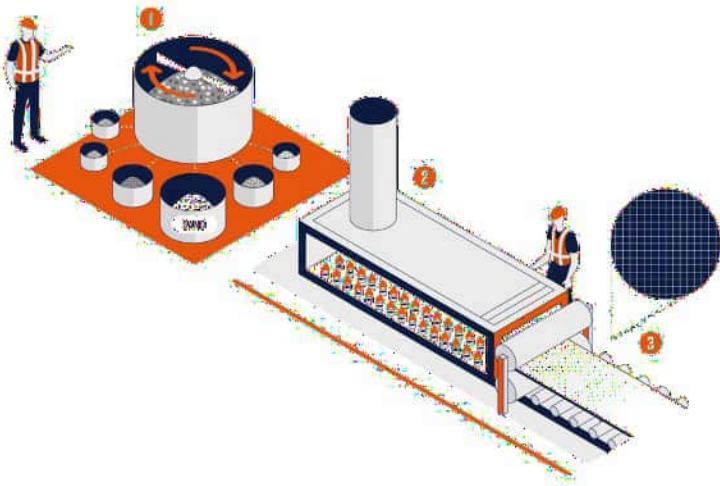
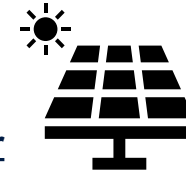
Lowest Carbon footprint of any solar glass produced in the world



1x unit of  
emissions



30x units of  
emissions  
avoidance per year



Patterned Solar Glass Manufacturing



Solar Panel deployment



# What about Silica Sand Dust?

Mitigation measures required to meet regulatory guidelines and Environment Act License and Health and Safety requirements for air quality will be put in place.

- Silica sand will be transported to site by covered transport truck at approximately 5% moisture content
- Sand will be stored in an enclosed structure
- Sand is moved on site by automated conveyance equipment
- Air Quality Impact Assessment modeling predicts Project operations will not exceed air quality guidelines





# What are the Benefits to the Local Communities?

- Employment Opportunities:

- “Largest employment project in Selkirk in 100 years”- City of Selkirk
- Up to 700 employees for project construction and indirect employment for up to 60 more people (local suppliers and businesses)
- Approximately 300 permanent facility operation employees for Phase 1 with an additional 150 to 200 employees for Phase 2:
  - Plant Manager
  - Production Manager
  - Foremen, Shift Supervisors and Operational Leads/Supervisors
  - Equipment Operators
  - Electrical and Equipment/Machinery Technicians
  - Service Staff / Millwrights
  - Logistics staff / Forklift Operators / Warehouse Staff
  - Office and Administration Staff
  - Environment, Safety and Health Professionals
  - Human Resource Professionals
  - Maintenance
  - Quality Control Technicians



# What's Next?

- CPS will seek public feedback on the proposed Project
- CPS will inform Regulators of feedback as part of our Environment Act Proposal to Manitoba Environment, Climate and Parks requesting a licence for the project
  - Review process includes public review feedback posted online in public registry
  - Review considers the full Phase 1 and Phase 2 project

**Phase 1** – Solar glass facility constructed

**Phase 2** – Increase facility output with associated increase in staffing

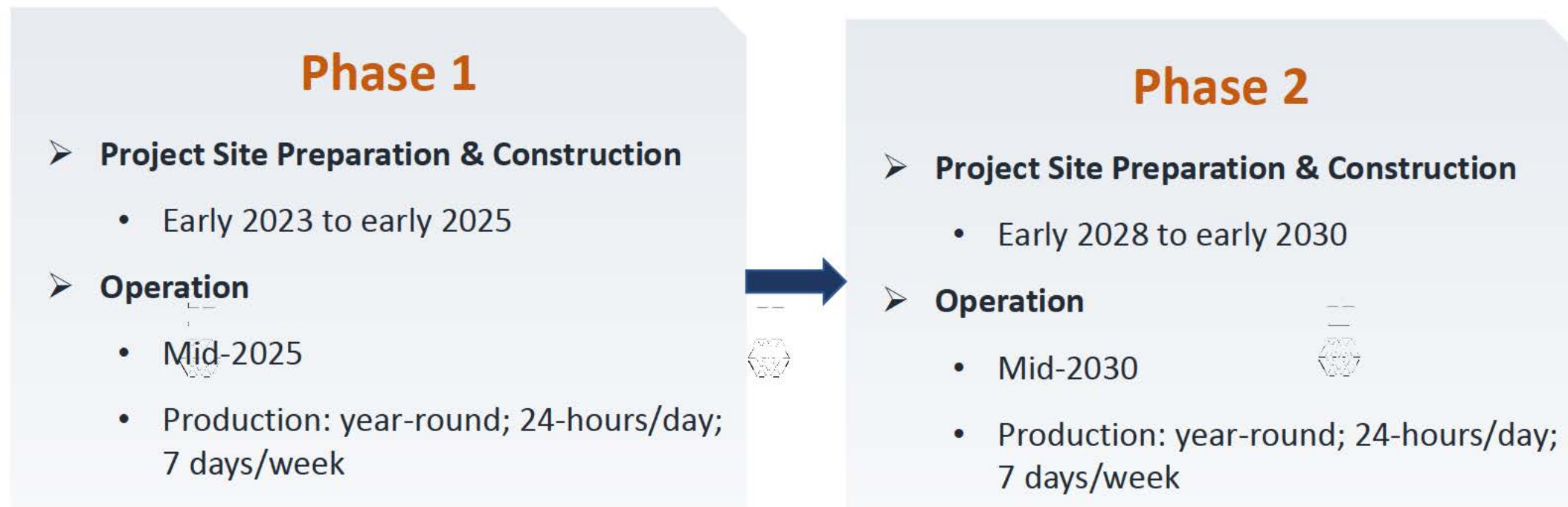




# Project Schedule

## CPS Planned Schedule

- Anticipate approval for the CPS Wanipigow Sand Extraction Project Notice of Alteration: **Fall 2022**
- Anticipate approval for the Solar Glass Manufacturing Facility : **Late 2022 / early 2023**



- Decommissioning (Phase 1 & 2): End of Project Life 30 years from start up of Phase 1



# Thank You for Attending!

We value your input and want to hear from you!

Please fill out a questionnaire

If you would like to discuss the project further  
or have any other questions, please email us at:

[sandtosolar@cpsmail.com](mailto:sandtosolar@cpsmail.com)

# Appendix **C**

## **Public Information Session Information Handouts**



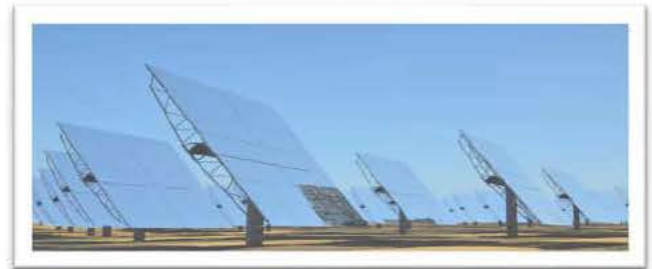
## Canada's first Solar Glass Manufacturing Facility

### NEW PROJECT PURPOSE

During the past few years, Canadian Premium Sand (CPS) has transformed its business to process Manitoba sand to create solar glass for renewable energy instead of for other uses such as fracking in the oil and gas industry. It's the first-time solar glass will be produced in Canada. This proposed solar glass manufacturing facility located in Selkirk, Manitoba will also be the only one of its kind in North America and will provide employment opportunities for communities in and around Selkirk.

### MADE IN MANITOBA

The time for renewable energy products has never been greater or more welcome. CPS will provide the rare sand, an essential resource in the production of high specification glass, to our future CPS manufacturing plant in Selkirk. The high specification glass we produce will be used in the assembly of solar panels across North America. It's time to invest in Manitoba and build manufacturing capacity on our own soil rather than import solar glass from other countries.



### NEXT STEP: ENVIRONMENT ACT LICENCE

CPS is applying to the Province of Manitoba for an Environment Act Licence to allow for the construction and operation of the solar glass manufacturing facility in Selkirk, Manitoba.

At the same time CPS is also undergoing a regulatory review process for the updated CPS Wanipigow Sand Extraction Project in Seymourville, Manitoba which already has an Environment Act Licence. However, CPS needs to submit a 'Notice of Alteration' to the Province of Manitoba for the changes needed for the Seymourville project to reflect that CPS is now extracting less silica sand and using that sand exclusively for solar glass manufacturing.

CPS has hosted formal and informal community conversations in Seymourville and Hollow Water First Nations on the changes to the licenced sand extraction project. CPS is now hosting community conversations to gather feedback on the proposed solar glass manufacturing facility in Selkirk, Manitoba.

A few 'Fast Facts' about the proposed solar glass manufacturing facility are provided below.



## FAST FACTS

<b>CANADA'S FIRST SOLAR GLASS MANUFACTURING FACILITY</b>	<ul style="list-style-type: none"> <li>Currently no patterned solar glass is produced in Canada or across North America; every pane of solar glass is imported from the Pacific Rim or elsewhere.</li> <li>Selkirk, Manitoba is an ideal location for this solar glass manufacturing facility because it is adjacent to highways, railway, and power systems.</li> </ul>
<b>MAIN GLASS COMPONENT SOURCED HERE IN MANITOBA</b>	<ul style="list-style-type: none"> <li>High clarity glass to cover solar panels used for renewable energy is in high demand.</li> <li>The new purpose of the CPS Wanipigow Sand Extraction Project in Seymourville, Manitoba is to provide the rare high-purity silica sand needed for solar glass manufacturing.</li> </ul>
<b>PERMANENT JOBS CREATED</b>	<ul style="list-style-type: none"> <li><b>≈ 300 Employees</b> For operation of the first phase of the solar glass project. A second phase is planned for the same Selkirk, Manitoba site.</li> </ul>
<b>FACILITY OPERATIONS SCHEDULE</b>	<ul style="list-style-type: none"> <li><b>Year-round; 24-hours/day; 7 days/week</b></li> </ul>
<b>EXPECTED OPERATIONS START: PHASE 1 FACILITY</b>	<ul style="list-style-type: none"> <li><b>Early 2025</b></li> </ul>
<b>EXPECTED OPERATIONS START: PHASE 2 FACILITY</b>	<ul style="list-style-type: none"> <li><b>2027</b></li> </ul>
<b>PROJECT LIFE</b>	<ul style="list-style-type: none"> <li>Two years to construct.</li> <li>End of Project Life (30 years from 2024): <b>2054</b></li> <li>Then Project components/site will be decommissioned.</li> </ul>
<b>RAW MATERIALS AND FINAL PRODUCT TRANSPORTATION</b>	<ul style="list-style-type: none"> <li>By both truck and rail.</li> <li>Transport trucks will not enter/leave project site through zoned residential areas in Selkirk. Access will be from Highway 4 and Walker Avenue.</li> </ul>

We welcome any questions at any time. Reach out if you have further questions or ideas.  
We're listening.

Glenn Leroux, CEO and Denelle Bushie, Project Lead  
Feel free to e-mail us at: [sandtosolar@cpsmail.com](mailto:sandtosolar@cpsmail.com)



# Canada's first solar glass plant in Manitoba

## Frequently Asked Questions

### Before and Now

**1. What's changed since CPS first started planning the extraction of sand in Manitoba?**

Canadian Premium Sand is now a solar glass company. The multi-million-dollar sand processing plant planned for Hollow Water/Seymourville is designed to exclusively produce solar glass quality sand and we will be using that processed sand to manufacture solar glass in Selkirk.

Processing the sand found at Hollow Water/Seymourville into solar glass adds significantly more economic value than just selling the sand. It is time for Canadians to use our valuable raw materials to create finished products on Canadian soil. It is time to onshore our manufacturing so we ensure it is done in an environmentally responsible manner and Canadians maximize the economic benefits of our resources.

**2. Does CPS plan to sell any percentage of the extracted sand to the oil and gas industry?**

No.

**3. Is CPS applying for a new Environment Act licence to extract the sand in Seymourville/Hollow Water First Nation, Manitoba or is CPS requesting an alteration to the 2019 licence?**

A request to amend the licence for the CPS Wanipigow Sand Extraction Project in Seymourville/Hollow Water First Nation is being prepared to reflect the new plans to use the sand to manufacture solar glass. The new project is considerably scaled back in scope and size and does not include a frac-quality sand production facility. We will be extracting 70% less sand per year compared to the original amount proposed in the 2019 plan.

As well, CPS is applying to the Province of Manitoba for an Environment Act Licence to allow for the construction and operation of the solar glass manufacturing facility in Selkirk, Manitoba.

**4. Is this the right kind of sand for solar glass?**

Absolutely. We have a resource with rare characteristics proven through testing at several international labs. These labs confirm the sand is suitable for solar glass. It will require processing to remove some of the iron content, but that is normal and relatively straight forward.





## Manufacturing Plant in Selkirk

**5. How many jobs and types of jobs will be created, and will they be suitable for people who live in the area?**

CPS expects to create approximately 300 full time and permanent jobs in Selkirk for Phase 1. Depending on the size of the expansion for Phase 2, about 200 more jobs will be created. To put that in perspective, Gerdau Steel, one of the largest employers in Selkirk has nearly 550 employees. The City of Selkirk has said the CPS solar glass manufacturing plant will be the largest single new job creator in recent history.

Many of the glass manufacturing jobs will be filled by local workers. Some of the jobs in Selkirk will require specialized glass-making skills that may not be able to be sourced locally at first. But Selkirk and area have the right talent for the majority of the jobs. We see the opportunity to create jobs that keep families closer to home and invite more families to move to the area, build homes, buy groceries and volunteer in the community.

**6. Where is CPS getting water from to operate its solar glass plant in Selkirk?**

CPS is looking forward to working with the City of Selkirk to utilise recycled water from the City's state-of-the-art wastewater treatment plant. The advanced wastewater treatment plant was one of the things that attracted us to Selkirk. We will use this recycled water in the glass manufacturing process primarily as a coolant.

**7. How large is the glass manufacturing facility?**

A facility to manufacture solar glass is large. Early design work on the Selkirk facility resulted in a footprint that is 450 meters long and 200+ meters wide at the warehouse end. Most of the operation is contained within a single building with storage for raw materials outside of the main building but also under cover or in storage silos.

**8. Is glass manufacturing noisy?**

While there is a lot going on in the glass manufacturing process, a Noise Impact Assessment was done which concluded that noise guidelines wouldn't be exceeded at nearest residences.

**9. Is glass manufacturing a "dirty" industry?**

Making glass is energy intensive but a relatively clean process. About 30% of the energy is provided by Manitoba's 99% renewable hydroelectricity. The other 70% is provided by responsibly produced western Canadian natural gas. Scrubbers and heat recovery systems are employed to minimize CO<sub>2</sub> release. Once the glass formulation is melted, the remainder of the process needs to be very clean as the end product, solar glass, must be spotless to be accepted by our customers.





## Environmental Stewardship

### **10. What will be done with the iron by-product created from processing the sand in Seymourville/Hollow Water?**

Very small traces of iron, measured in parts per million, are found naturally in the sand at Hollow Water/Seymourville. The fact so little iron exists in the sand is what makes it suitable for producing solar glass. Our sand treatment process, which includes scrubbing, sizing and sorting removes most of the trace amounts of iron. The best environmental practice will be implemented to manage iron extracted from the sand.

### **11. How will you make sure this project does not create environmental issues?**

We are going through a rigorous environmental impact assessment process that addresses construction, operation and closure of the quarry, the sand processing plant in Seymourville/Hollow Water First Nation and the manufacturing plant in Selkirk. Provincial and federal environmental and workplace safety regulations today are far more stringent than in the past, and certainly more rigorous than when sand was extracted from Black Island in the period of 1920s to 1980s. Everyone is bound by much higher standards today and CPS takes this very seriously. Our neighbors will be our neighbors for 30+ years and our workers will be neighbors to the project. So, we are invested in getting it right.

*(The graphic in 17 illustrates how the emissions investment in producing solar glass in Selkirk generates significant and repeatable benefits in avoiding future emissions when the solar glass is “put to work”.)*

## Moving Sand and Glass

### **12. How will you manage truck traffic from Seymourville to Selkirk?**

We know that 100% of the volume of sand required for the glass manufacturing plant will be transported by truck. We are studying the option to truck sand 12 months per year because it provides us with some operational benefits and also some flexibility to adapt our trucking schedule to address stakeholder concerns. It is important to note that truck traffic will be directed off Hwy 59 to Hwy 4 then to Walker Avenue avoiding busy residential or commercial areas of the City of Selkirk.

### **13. What will be moved by rail?**

Producing glass requires more raw material than just sand. Minerals such as dolomite, limestone and salt along with soda ash make up the batch. Most of these materials will be delivered by rail. The majority of the finished solar glass will be sent to customers by truck with some sent by rail depending on customer location and preference.



## About Canadian Premium Sand

### **14. Who is leading this project?**

At CPS we've invited and included several local people to work with us because we know that to do this right, we must do it together. While the idea for this project started in Alberta, it will be made possible by leaders of Indigenous communities where the sand originates and the contributions from Selkirkians and Manitobans. And we're also excited that the City of Selkirk has an excellent reputation as an environmental leader, has a state-of-the-art wastewater treatment plant and wants to be home to Canada's first solar glass manufacturing plant.

### **15. How will Canadian Premium Sand raise money to finance its sand extraction operation and mine operating costs near Hollow Water, as well as the solar glass plant in Selkirk?**

CPS is a publicly traded company and is working with two investment advisors to source both debt and equity financing for our sand extraction and glass manufacturing projects.

### **16. Is this project related to the CanWhite Springfield project?**

There is no connection between CPS and CanWhite (now called Sio Silica) and no connection between the CanWhite project and this one. CPS is using our sand to make ultra-clear patterned solar glass, nothing else.

(See #17 chart below)

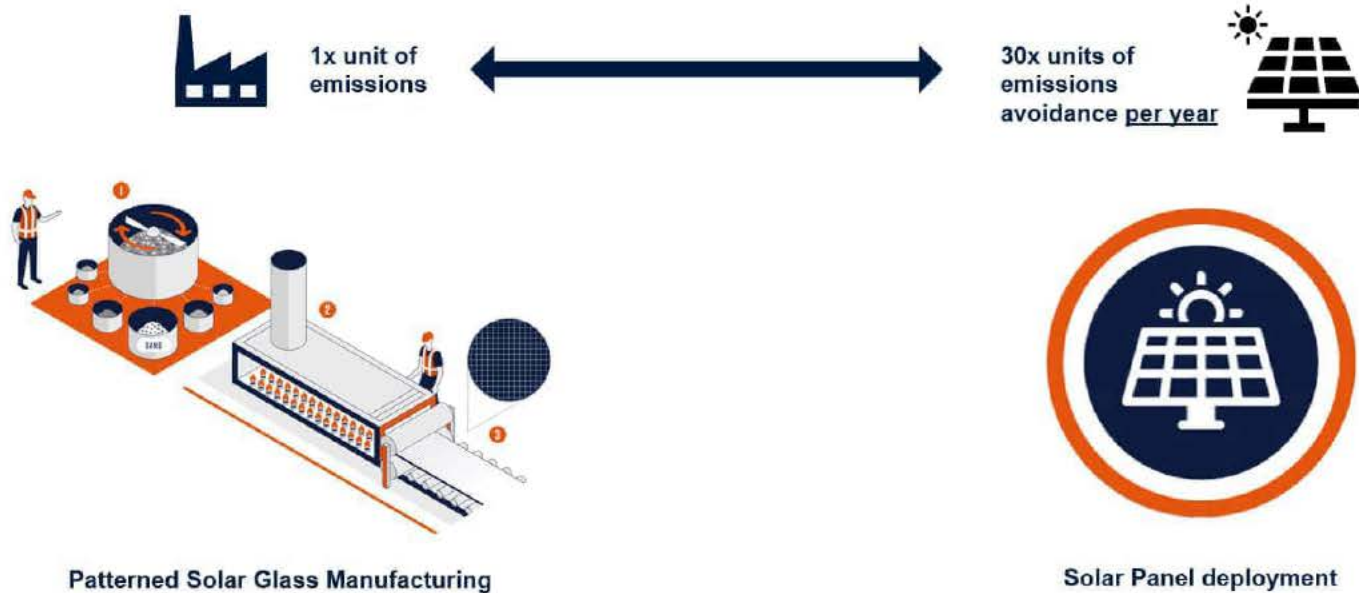
We appreciate you may have more questions. Please don't hesitate to contact either of us at: [sandtosolar@cpsmail.com](mailto:sandtosolar@cpsmail.com)

Glenn Leroux, CEO  
Denelle Bushie, Seymourville Project Lead

17. What are the long-term benefits of producing solar glass?

## Environmental Benefits

Lowest Carbon footprint of any solar glass produced in the world





# Appendix **D**

## **Public Information Session Feedback Form / Questionnaire**

# Public Information Session – Feedback Form

## Solar Glass Manufacturing Facility – Selkirk, Manitoba

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**1. How did you hear about the Public Information Session?**

- ☐ Newspaper      ☐ Word of Mouth      ☐ Social Media (e.g., Facebook)      ☐ Email invitation

**2. Please provide your thoughts on the Project:**

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**2. Do you have any environmental concerns regarding the proposed Project?**    ☐ Yes    ☐ No  
If yes, select your top three concerns from the following list of environmental components:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Air Pollution/Noise | <input type="checkbox"/> Animals           | <input type="checkbox"/> Recreational Use   |
| <input type="checkbox"/> Traffic             | <input type="checkbox"/> Birds             | <input type="checkbox"/> Resource Use       |
| <input type="checkbox"/> Water Quality       | <input type="checkbox"/> Plants            | <input type="checkbox"/> Heritage Resources |
| <input type="checkbox"/> Water Quantity      | <input type="checkbox"/> Fish/Fish Habitat | <input type="checkbox"/> Other _____        |

**3. Do you have any specific interests relating to the Project going forward?**

- ☐ Employment Opportunities    ☐ Contract Opportunities

Other: \_\_\_\_\_  
\_\_\_\_\_

**4. Did you find the storyboards informative?**

- ☐ Yes    ☐ No

**5. Was someone able to answer your questions?**

- ☐ Yes    ☐ No

**6. Do you have any additional comments?**

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Please keep me informed on the project at this email: \_\_\_\_\_

Contact Information (Optional): \_\_\_\_\_

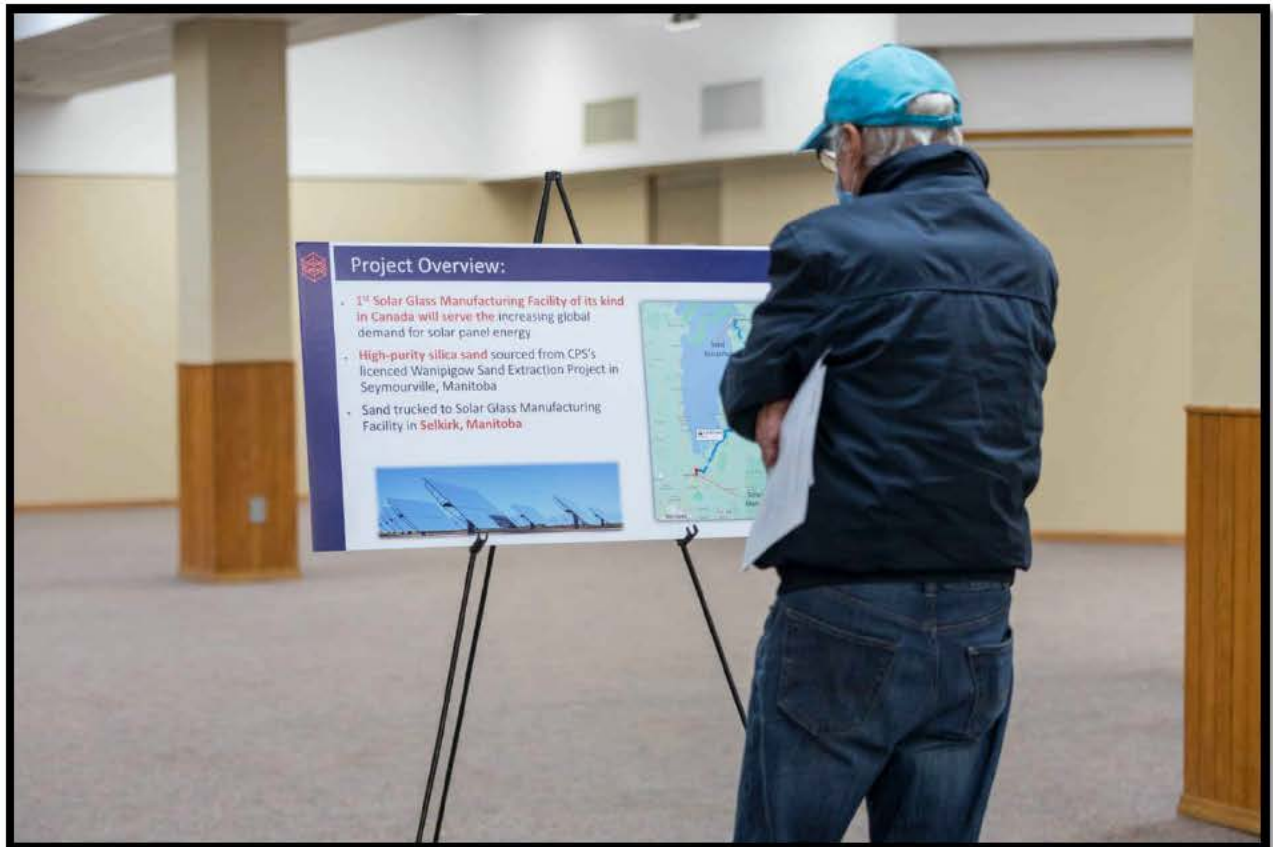
**Thank You for Participating!**

**AECOM**

# Appendix **E**

## Public Information Session Photographs



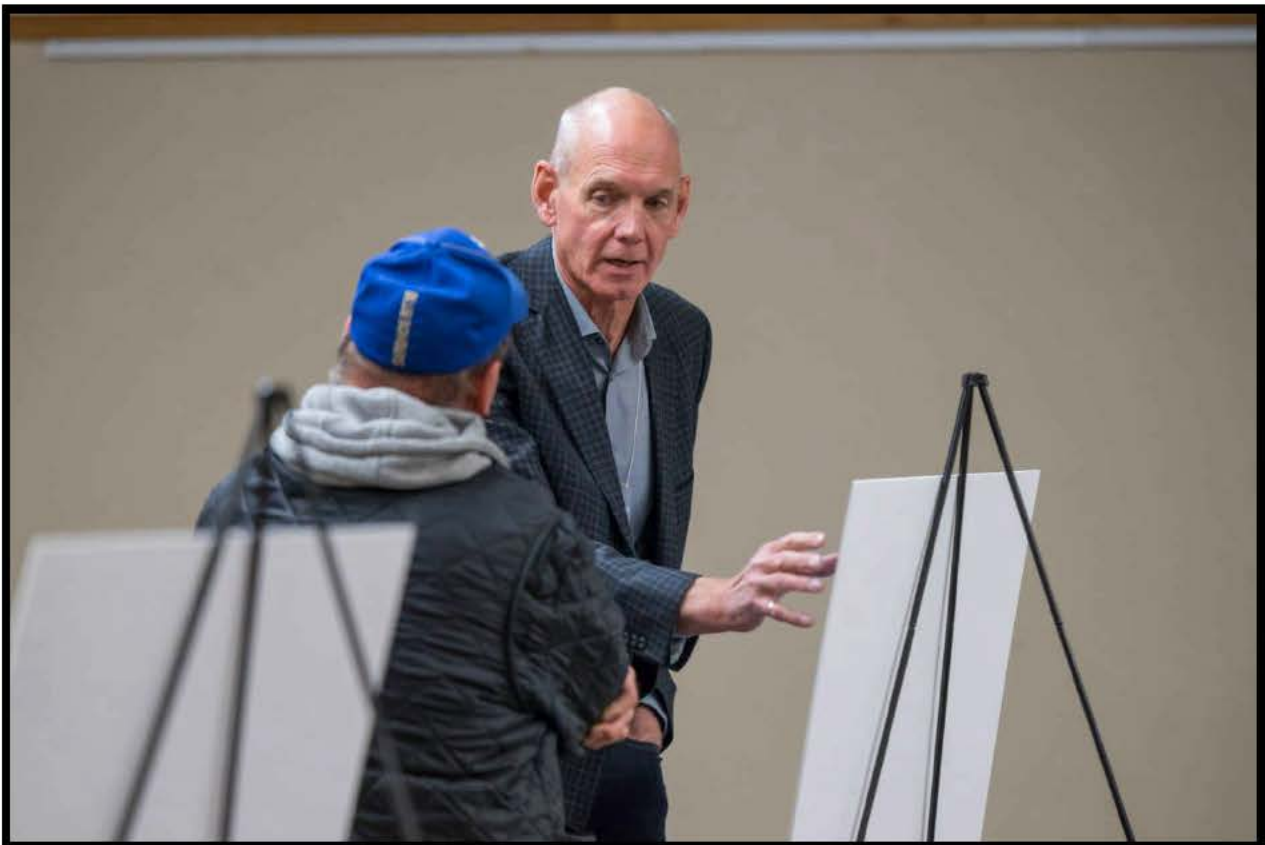


















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