

#### IT ONLY TOOK SIX YEARS!

- Nov 2016: 1<sup>st</sup> Project Charter approved
- Nov 2018: NRCAN awards \$10.7M to add BESS
- June 2019: Public Hearing #1
- March 2020: COVID
- Oct 2020: Public Hearing #2 with approval
- June 2021: Construction starts
- August 23, 2022: 1<sup>st</sup> solar generation with Water Plant
- October 2022: Full solar generation with Water Plant
- November 2022: Final scenario testing/commissioning with WTP
- Next 30+ years: treating water with on-site solar power



- 17,400 homes notified
- 800+ Door knocks/visits







- >9,000 years of cultural evidence
- 32,531 catalogued artifacts
- 250m² of hand excavations





 32 Indigenous and Metis nations engaged







- 8 scientific studies
- 25 bird species
- 11 wildlife cameras
- 1 mischievous beaver





- 2 public hearings
- 26+ hours
- 7 "yes" votes for majority win

SCRIBE

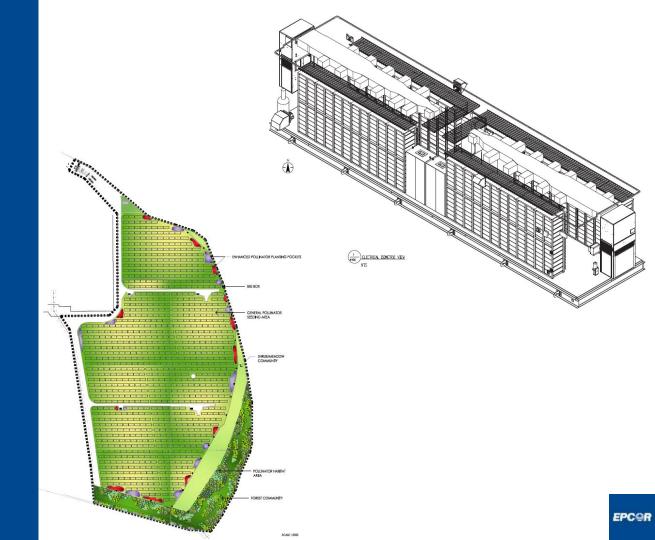
Charter Bylaw 18890 - To allow for the development of a solar power plant as a contract the E.L. Smith Water Treatment Plant in the North Saskatchewan River Valley, Ri

	Carried - (7 - 6 - 0)		
		Yes (7)	
D. Iveson	M. Banga	T. Caterina	B. Esslinger
S. Hamilton	B. Henderson	M. Walters	
		No (6)	
T. Cartmell	J. Dziadyk	A. Knack	S. McKeen
M. Nickel	A. Paquette		





431 engineered drawings



 2800+ helical screw-in foundation piles

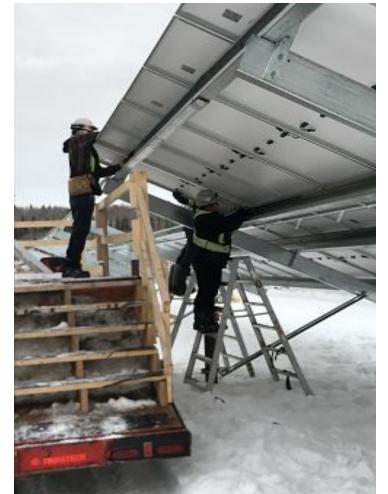




 84 KMs of steel beams



• 30,350 solar panels (13.6 MW)





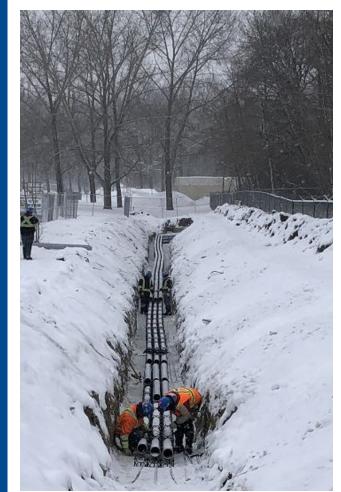




1,009 batteries (56 kg each)



32km+ of electrical cable







- 188 trees
- 1279 shrubs
- 8 bird houses
- 2 bat houses







- 3 factory assembled buildings:
  - E-house (Calgary)
  - BESS 1 & 2 (Wisconsin)



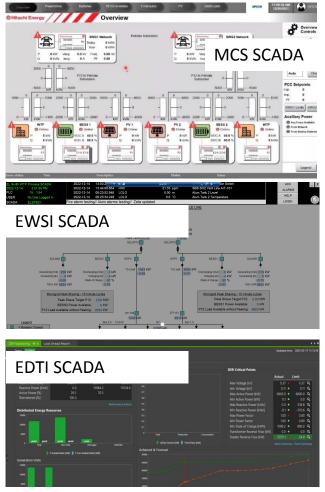


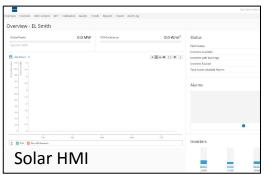


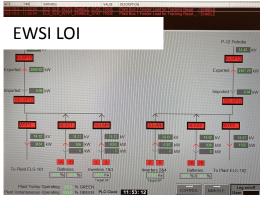
 Major equipment from 7 countries: Vietnam, South Korea, China, USA, Israel, Mexico, Italy



 5 HMI/SCADA systems









- 1.1 MW sold to grid
- 4.2 MW to Water Treatment Plant
- 6.5MW solar generated (GHGs)
- 1.3MW to charge batteries



- >4,500 project meetings
- 72 monthly project reports
- 75 purchase orders
- 45 PCL contract change orders
- 4 major force majeure impacts:
  - Flooding in BC
  - Storms on east coast USA
  - Typhoon in China
  - COVID: factory shutdown / global supply chain delays

- 1 CEO
- 3 SVP's
- 2 Directors
- 100,000+ external hours
- 39,600+ hours by more than 210 EPCOR employees























- 12 indigenous workers (2697 hours)
- 6 subcontractors with Indigenous involvement
- 1 Enoch Cree Nation monitor (488 hours)

#### INLINEGROUPING















Dollars

	\$ Spent To Date	Forecast Final Cost
Solar Project	\$ 38.5M	\$41.5M
BESS Project	\$ 9.9M	\$10.8M
NRCAN Funding	1	- \$10.8M
Total Cost		\$41.5M

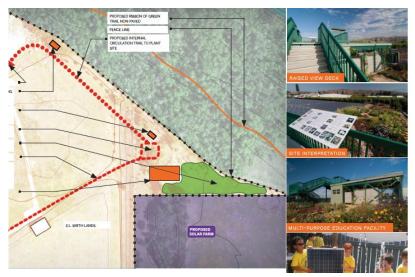


GHG

	Energy (MWh)	Tonnes of CO2
E.L. Smith Water Plant 2022 Load	43,912	22,834
2022 Solar Generation	3,823	1988
% Reduction in GHG		~ 8.7%

Based on current GoA TIER number of 0.52 tonnes/MWh













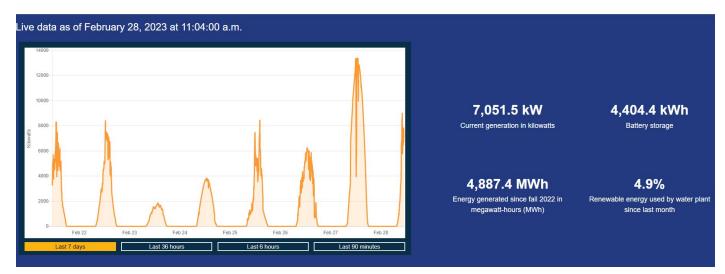


#### **REMAINING WORK**

- Off-site educational signage
- Exhibit area
- Wildlife monitoring
- UofA research partnership

#### **KĪSIKĀW PĪSIM SOLAR FARM OUTPUTS**







#### **MORE INFORMATION**

#### **EPCOR.com**

- Sustainability reporting
- Live data

#### CLEAN ENERGY TO CREATE CLEAN WATER ... ... ON OUR PATHWAY TO NET-ZERO

