

Community Liaison Committee

Meeting #51

Tuesday, December 10, 2024





Building better lives and a greener future.

Safety • Teamwork • Integrity • Caring

With every decision, every action, every day, we will work **safely** with **teamwork**, **integrity** and deep **care** for our people, their families and the environment



Agenda

1. Review of September 10th, 2024 meeting notes
2. Membership Items
3. Cokemaking Emissions Performance
4. Electric Arc Steelmaking and Environmental Permit Applications
5. Legacy Environmental Action Plan
6. Community Engagement
7. Next Meetings

Membership

Current Members and Alternates

Representation

Algoma Steel
Ministry of Environment, Conservation & Parks
Public
Public
SSM Tribe of Chippewa Indians
Algoma Public Health
Chippewa County Health Dept.
Batchewana First Nation
Garden River First Nation
City of Sault Ste. Marie
United Steel Workers Local 2251
St. Mary's River RAP Coordinator

Primary Member

Corey Jackson
Lori Jalak
David Trowbridge
Jillian Marquis
TBD
Melissa Francella
Steve Carey
Dan Sayers Jr.
Andrew Mallette
Catherine Taddo
Wayne Hubbard
Lisa Derickx

Alternate

Giancarlo Perra
Rick Lalonde
Anton Schoahs
Dan Gabor

Virginia Huber
Suzanne Lieurance

Richard Perrault
Maggie McAuley
Dennis Gagne

Cokemaking Emissions Performance

Key Performance Indicators related to Cokemaking Emissions:

- average intensity of pushing emissions
- average duration of charging emissions
- % lid leaks
- % off-takes leaks
- % door leaks

Performance is monitored and calculated daily for each battery

Progressive Annual Reduction

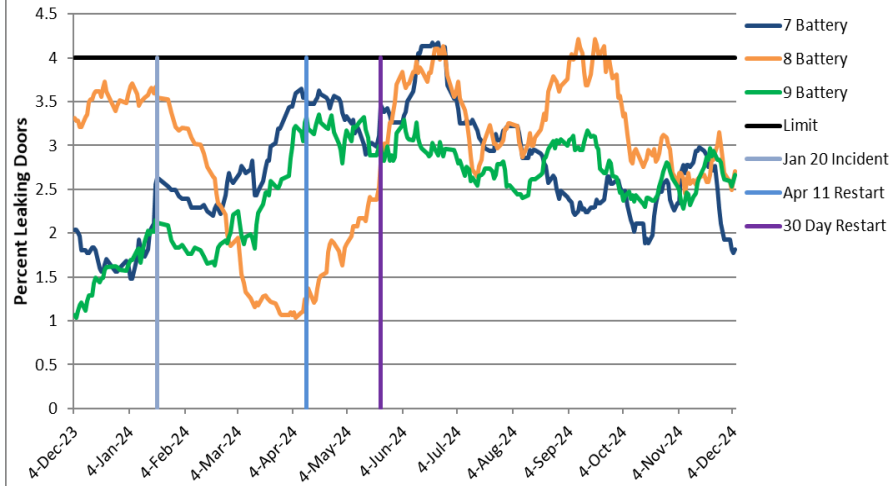
30 Day Rolling Average %

Implementation Date	Doors	Lids	Off-takes	Charging Emissions	Pushing Opacity (%)
July 2, 2015	38	0.8	25	12 sec	50
Jan. 1, 2016	22.5	0.8	15	12 sec	50
Jan. 1, 2017	7	0.8	4.2	12 sec	50
Jan. 1, 2019	7	0.8	4.2	12 sec	40
Jan. 1, 2020 onward	4	0.4	2.5	12 sec	30

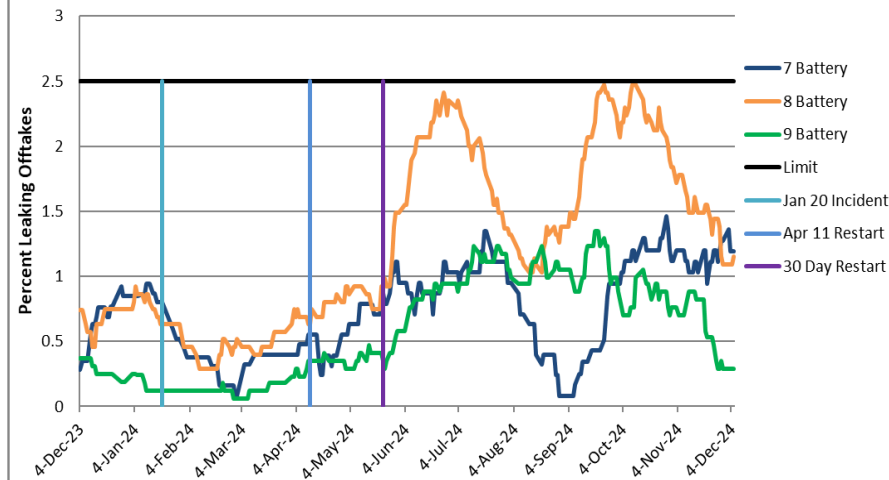
Algoma Steel is meeting the current leak limits on all three batteries.

Cokemaking Emissions Performance

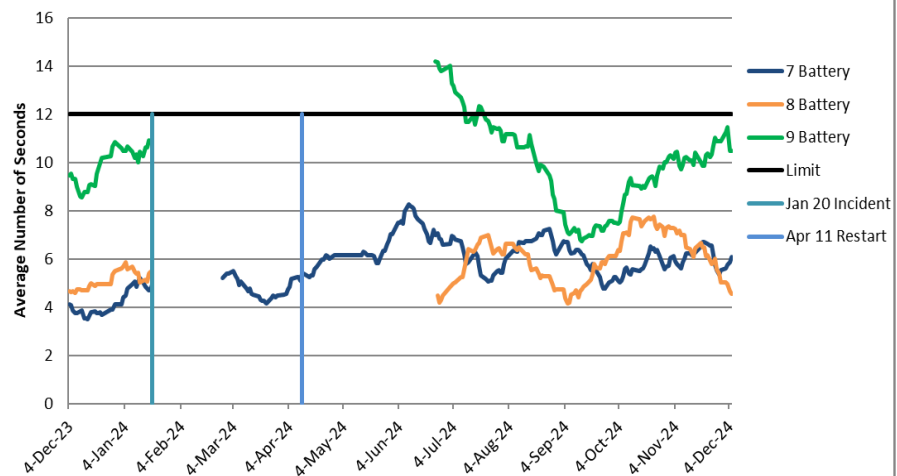
30-Day Rolling Average of Door Emissions



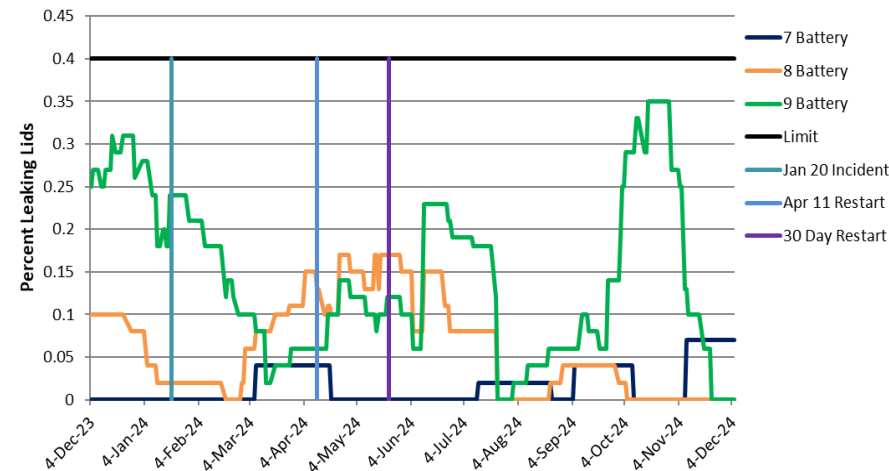
30-Day Rolling Average of Offtake Emissions



30-Day Rolling Average of Charging Emissions



30-Day Rolling Average for Lid Emissions



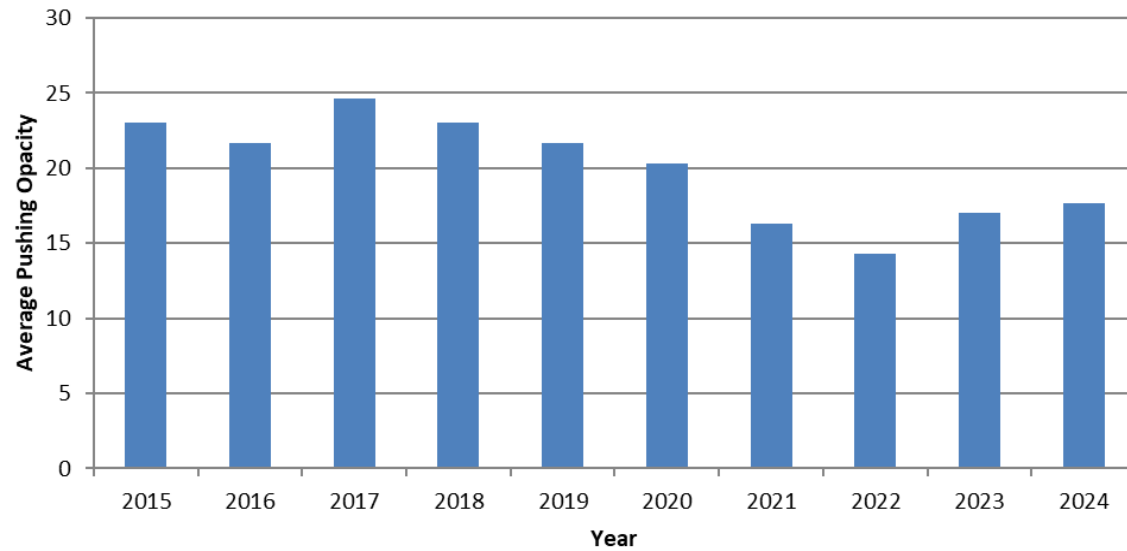
Blue lines represent the date of the structure collapse and commissioning of new utility corridor.

Purple lines represent when sufficient data became available for 30 day rolling averages.

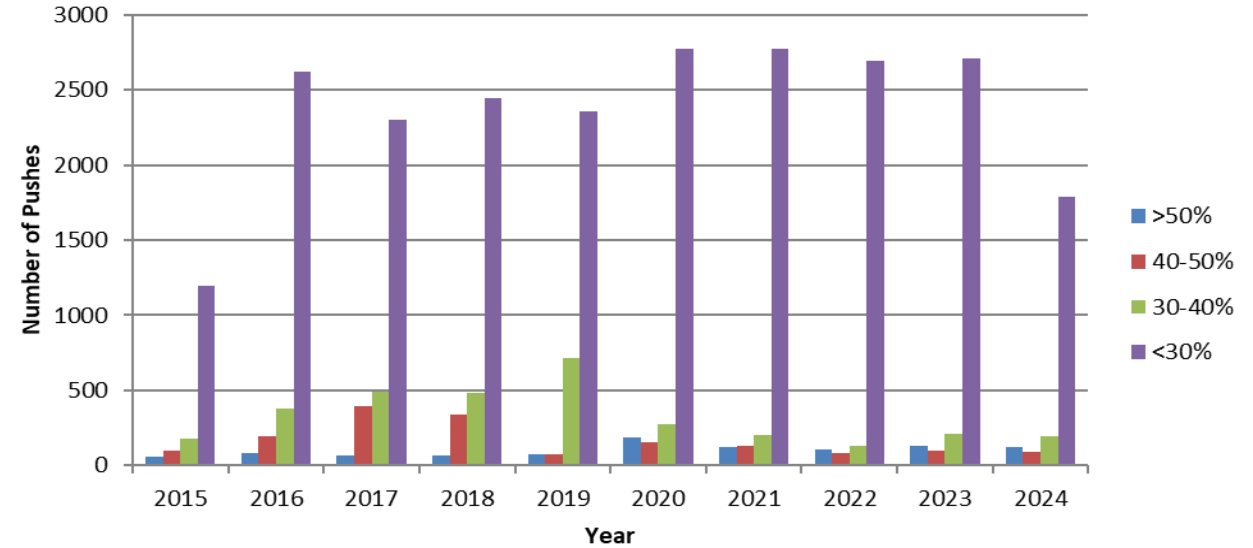
There was a brief period of non-compliance related to the structure collapse.

Cokemaking Emissions Performance

All Batteries Average Pushing Opacity by Year



Number of Audited Pushes by Opacity

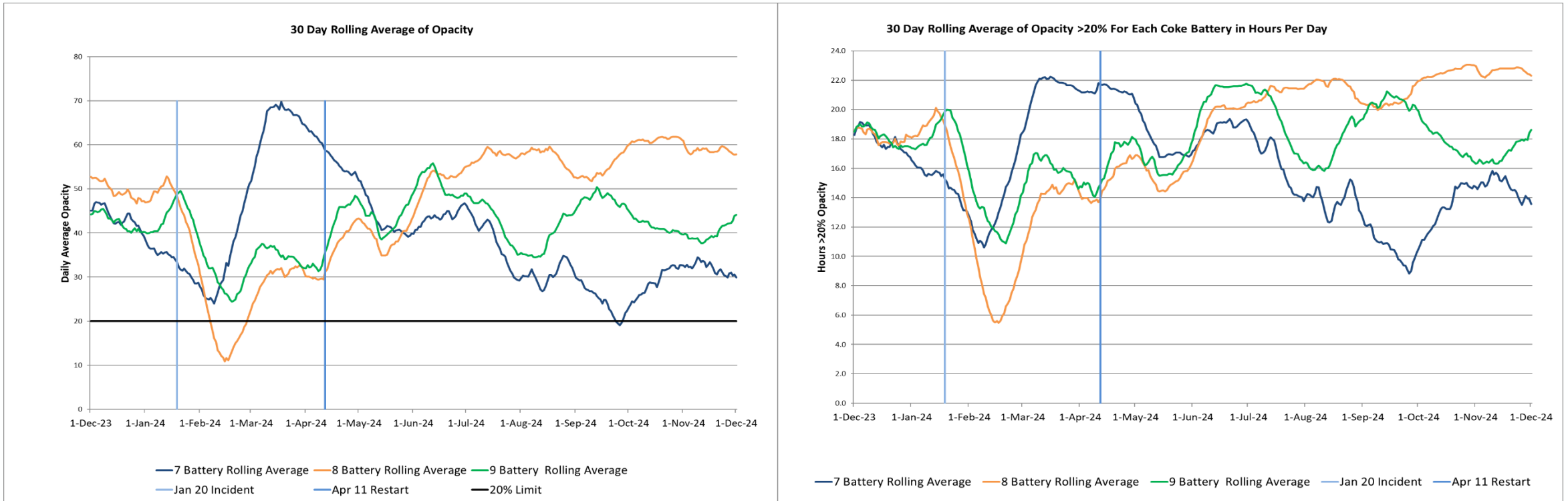


Notes:

- 2015 data begins on July 2nd when the standard came into force
- 2024 data includes Jan 1, 2024 to Nov 30, 2024
- Number of audits per year vary based on changing operating conditions

Corrective actions are continuously being implemented to further improve push opacity.

Cokemaking Stack Opacity

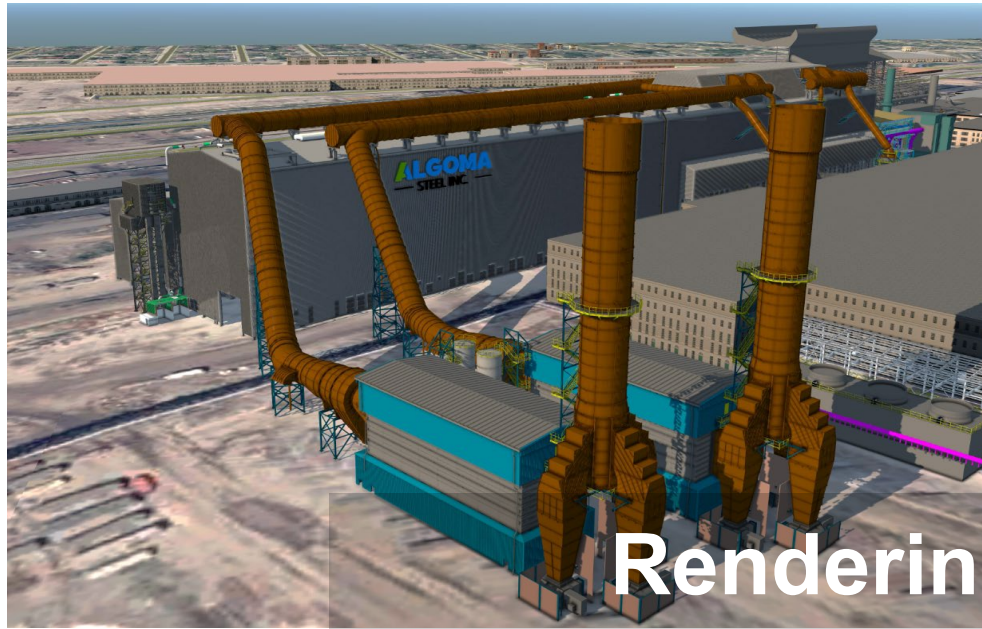


Blue lines represent the dates of the structure collapse and commissioning of new utility corridor.

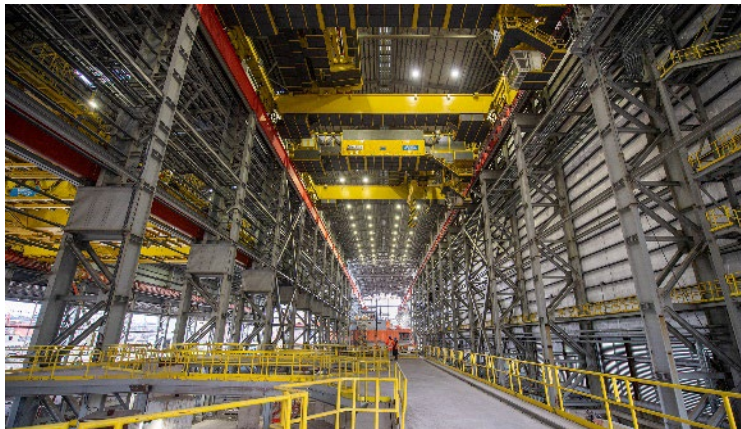


ALGOMA
— STEEL INC. —

Building a new era in steelmaking



Rendering becoming Reality



EAF reline station installation



Stacks on Fume Treatment Plants installation



Danieli Q-One power systems



Electric Arc Furnace Local Economic Impacts

By the Numbers

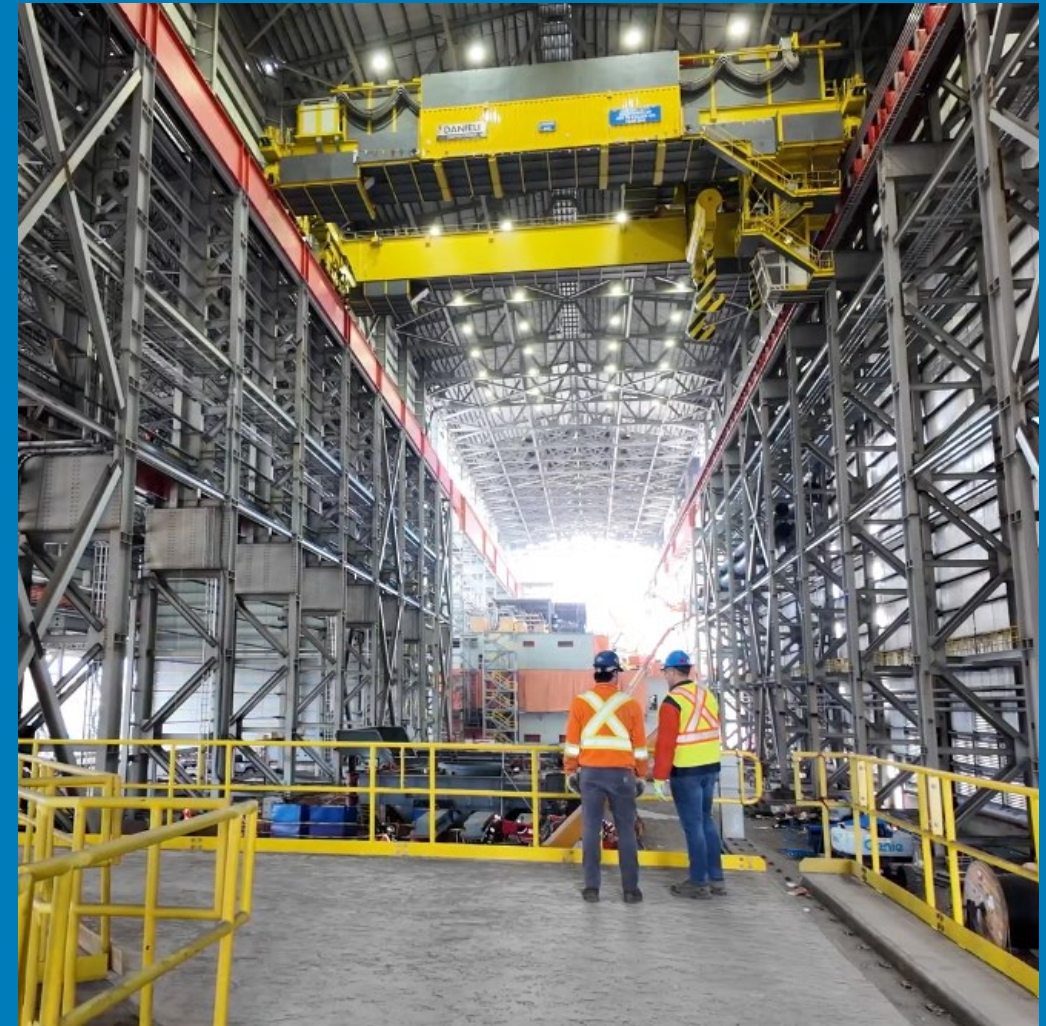
**Community spend as
of November 29, 2024** **\$162.7M**

Local suppliers engaged: 49

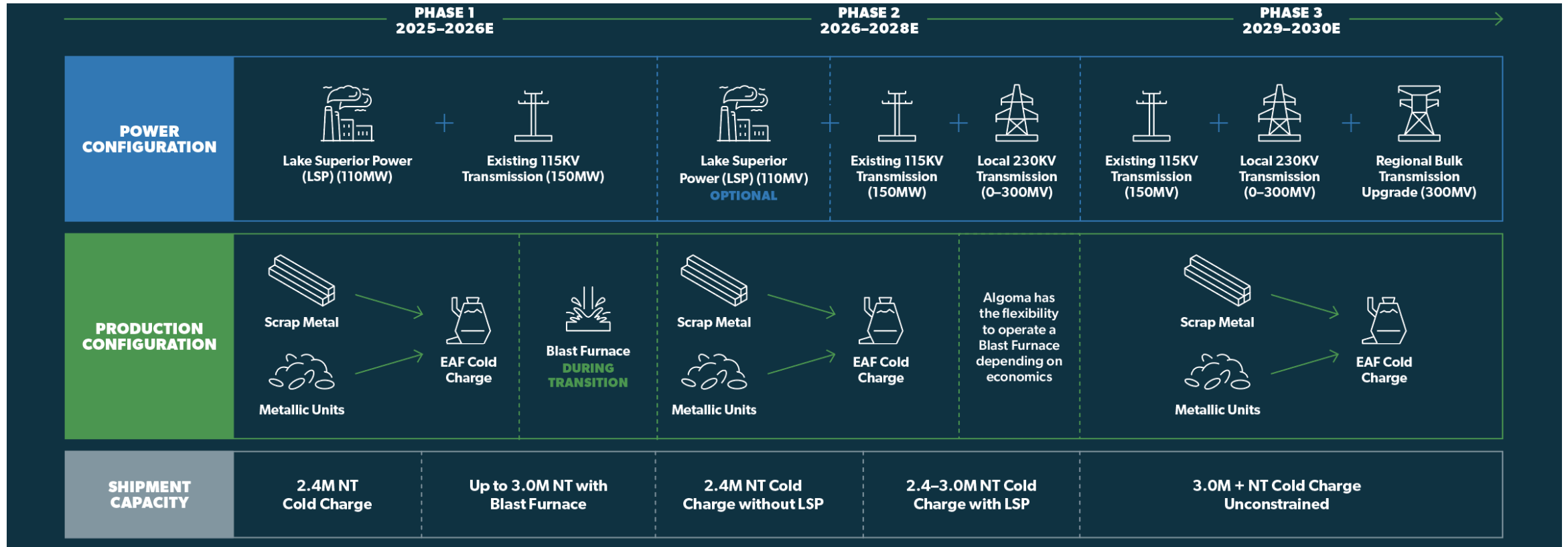
**Project spend as of
September 30, 2024** **\$672M**

Project commitments: \$870M

➤ **Creation of 500 construction jobs**



Powering Algoma's Transformation



Algoma has secured all required power to operate EAFs at current shipment volumes derisking the power requirements on startup

Algoma has made substantial progress on the development of the local 230KV line with PUC Transmission

Algoma has received significant support and commitment from the Ontario government on installing regional bulk power upgrades by 2029

Benefits of the 230kV Line for all of Sault Ste. Marie

Increased Transmission Capacity

This project is designed to ensure Sault Ste. Marie is prepared for its immediate and long term transmission needs.

Enhanced Power Reliability

The new infrastructure will reduce the risk of outages and ensuring a stable power supply for both residential and industrial customers.

Growth Opportunities

Upgrading to a 230kV transmission system represents a significant modernization of the region's power infrastructure, ensuring Sault Ste. Marie can meet future power demands, adapt to technological advancements, and provide a necessary foundation to attract more industrial and other investments as the community grows.

Algoma's Shrinking Environmental Footprint

Long-Term Advantages of Electric Arc Steelmaking

		Reduction ⁽¹⁾	% Reduction
GHG Emissions	CO2	3.0mm tonnes	70%
	CO2/NT production	1.33 tonnes	75%
SOx emissions		4,060 tonnes	82%
NOx emissions		1,604 tonnes	52%
Stack and Fugitive Emissions		Complete elimination of Stack and Fugitive Emissions	100%

- Algoma expected to become one of the leading producers of green steel in North America
- Improves competitiveness for government spending programs where ESG is a criteria
- Improves profile with select customers who are similarly ESG focused
- Improves employee engagement
- Reduction of greenhouse gas emissions may provide for lower annual repayment on the SIF loan

Transition to Electric Arc Furnace Steelmaking

Environmental Compliance Approvals

Algoma Steel submitted applications for the following approvals:

1

Site wide **Environmental Compliance Approval** for **air and noise** based on the planned progressive shutdown of equipment and facilities associated with the transition to electric arc furnace steelmaking.

Application to include:

- ▶ Two new EAF exhaust treatment plants including baghouses
- ▶ A new cooling tower

Proposal 019-9084 was posted to the ERO on September 6th, with comment period ending November 4th, 2024. To see the ERO posting [click here](#).

2

Amendment to the existing **industrial sewage works Environmental Compliance Approval** that incorporates:

- ▶ New recirculating non-contact cooling water system (with a small blowdown to the existing water treatment facility)
- ▶ No new contaminant loading to the existing treatment facility

Approved
March 2024

Over the course of the transition, contaminant loading to the water treatment facility will decrease. Up to five existing effluent discharges and up to 7 existing noise sources will be eliminated.

Alternate Standard Requests

New Standards will govern the operating transition to electric arc steelmaking

- ASI is seeking either Site Specific Standards (SSS) or an Industry Technical Standard (ITS) as a compliance approach for existing facilities during the transition to EAF steelmaking.
- Since SSS/ITS are not yet available, an Abatement Plan has been prepared and accepted by the MECP in accordance with O.Reg. 419 to bridge the gap until an alternate standard is available.
- The Abatement Plan is an evolving emissions management plan which aligns with industry best practices and future requirements of the ITS.
- A separate ERO posting will be issued for the alternative standard when available and an ECA amendment will be required to align with the alternative standard.

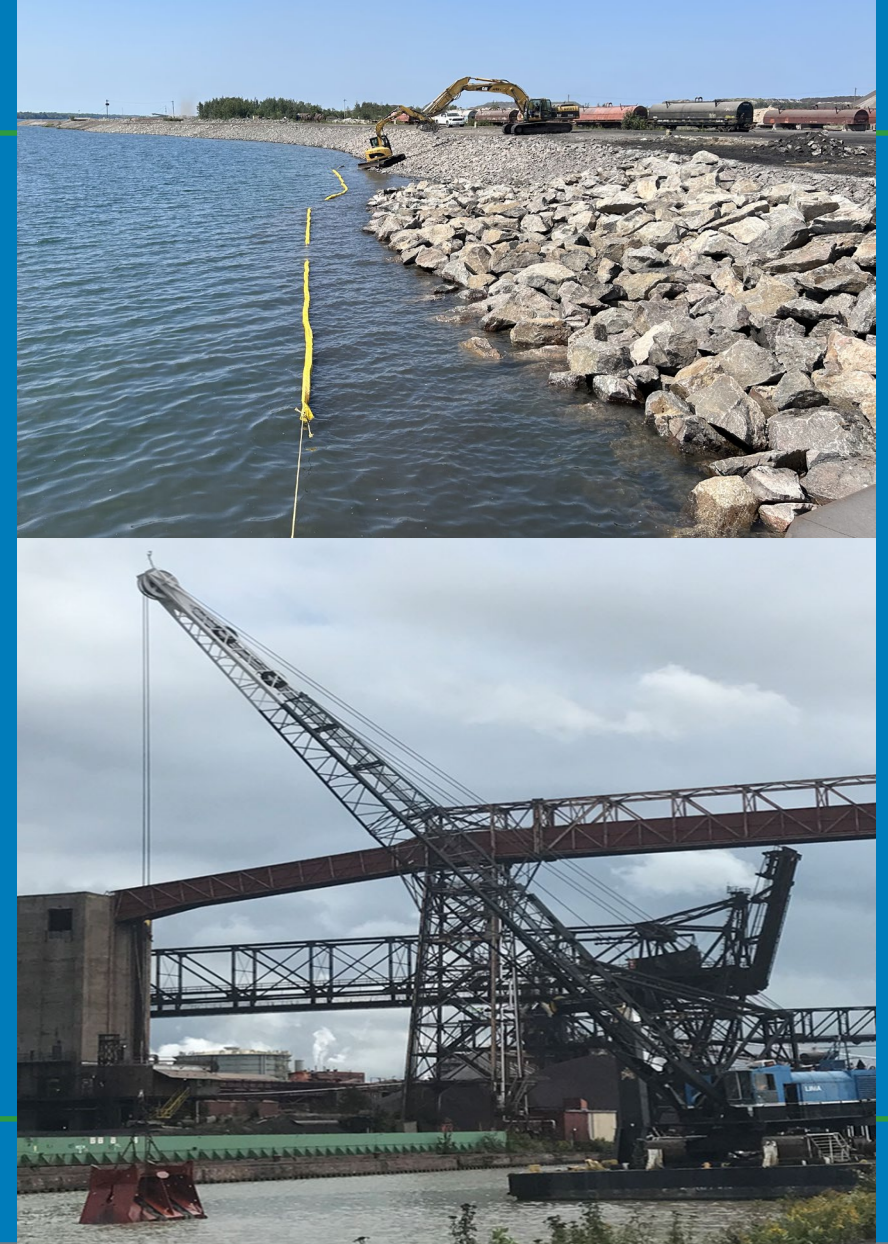
Shoreline Stabilization, Sawmill Bay Dredging, and Site Greening

Algoma's shoreline stabilization project consists of a four year plan to install **4.1 km of shoreline protection** along the St. Mary's River to prevent future erosion.

The project resumed June 24th with the placement of the clean rip-rap and armour stone. Additional dredging work has commenced to improve vessel access to Sawmill Bay Dock.

Once the stone is installed, the Site Greening Initiative will proceed in parallel with the introduction of clean soils, creating seasonal surface water ponding areas, and vegetating with select native plants and tree species. This will be done in **collaboration with Sault College**.

The site greening initiative involves the creation of **naturalized green buffer strips** along the perimeter of the site which will be protected from possible erosion.



Algoma Steel is committed to being a good neighbor

Since we saw you last in September we have...

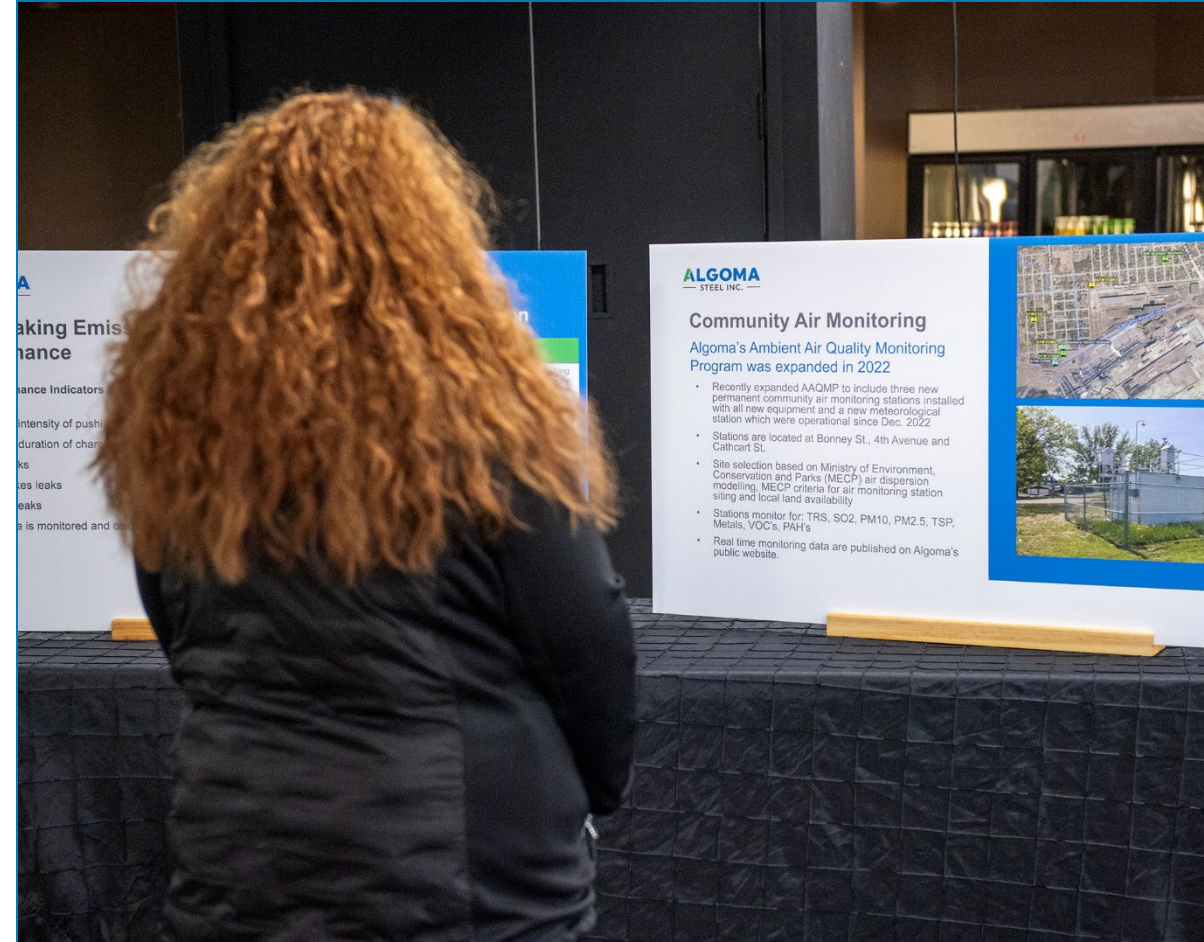
- Sponsored, Sault local Chris Carr for SooToday's 12 Days of Christmas Random Acts of Kindness! We proudly gifted Chris a trip to Calgary to spend the holidays with his family, a new bike, and more!
- Made our second contribution as part of a three-year, \$120,000 commitment to Harvest Algoma.
- Welcomed students from Superior Heights and Sault College for an informative session about opportunities at Algoma Steel, followed by a guided tour of our facility.
- Algoma Steel employees donated over 200 gifts to the Christmas Cheer program.
- Donated \$10,000 to Save Our Young Adults (SOYA) to support their relocation and renovation costs.



Thanks to our CLC members,
October's Open House was our most
well-attended event yet!

We're excited to share that our next
Community Open House will take
place on **Wednesday, February 19th**,
from **4 PM to 7 PM** at the Royal
Legion.

We look forward to seeing you there!



Community Liaison Committee - Next Meetings

Proposed Schedule:

- March 18th, 2025
- June 2025
- September 2025