Community Liaison Committee

Meeting #49

Tuesday, June 11, 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 March 5th, 2024 meeting notes
2. Membership Items
3. Review Coke Making Incident
4. Cokemaking Emissions Performance
5. Electric Arc Steelmaking and Environmental Permit Applications
6. Legacy Environmental Action Plan
7. Public questions and comments
8. Next Meetings

Membership

Current Members and Alternates

Representation	Primary Member	Alternate
Algoma Steel	Fred Post	Chris Galizia
Ministry of Environment, Conservation & Parks	Lori Jalak	Rick Lalonde
Public	David Trowbridge	Anton Schoahs
Public	Jillian Marquis	Dan Gabor
SSM Tribe of Chippewa Indians	TBD	
Algoma Public Health	Melissa Francella	Virginia Huber
Chippewa County Health Dept.	Steve Carey	Suzanne Lieurance
Batchewana First Nation	Dan Sayers Jr.	
Garden River First Nation	Andrew Mallette	Richard Perrault
City of Sault Ste. Marie	Catherine Taddo	Maggie McAuley
United Steel Workers Local 2251	Wayne Hubbard	Dennis Gagne
St. Mary's River RAP Coordinator	Lisa Derickx	

Update on January 20th Coke Making Incident

- A structure supporting utilities piping at our Coke Making plant collapsed on January 20, 2024.
- The incident resulted abnormal coke oven gas flaring and air emissions and a quantity of effluent left our site initially, and potential sources of discharge were contained later that day.
- An MECP approved battery repair plan was prepared in accordance with the Coke Making Environmental Compliance Approval to ensure the safety of personnel, maintain the assets and systematically restore operations.
- The new utility corridor was commissioned April 11th.

ALGOMA STEEL INC.

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

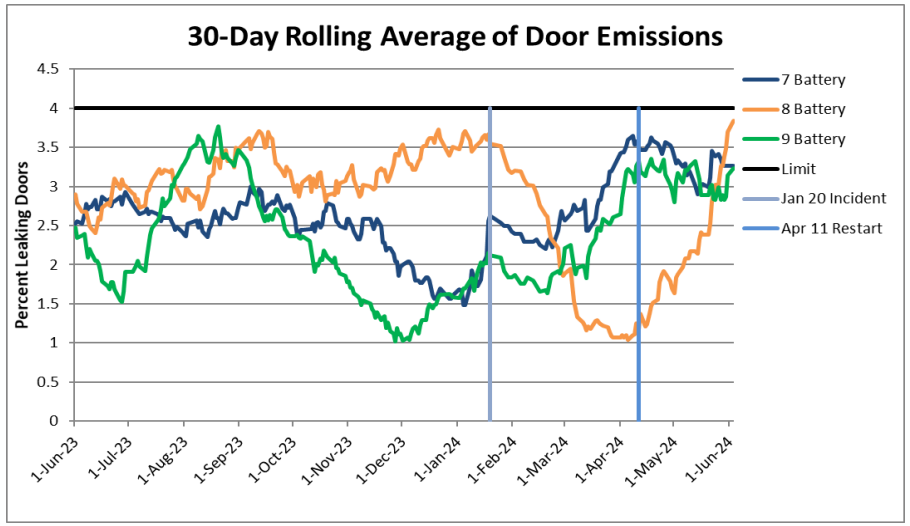
Progressive Annual Reduction

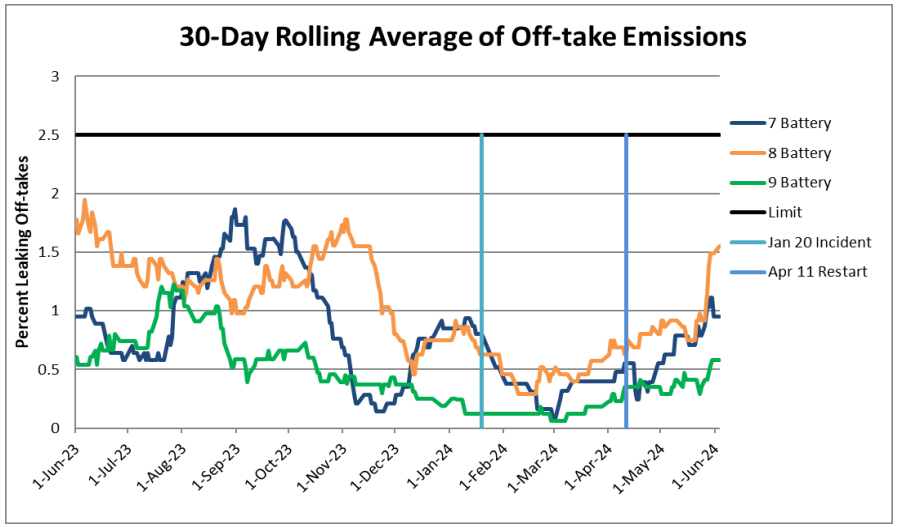
30 Day Rolling Average %

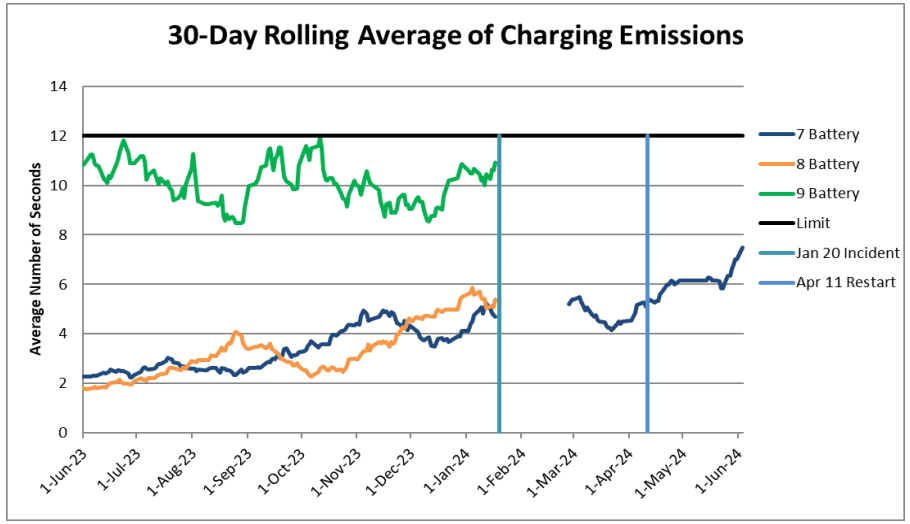
Implementation Date	Doors	Lids	Off-takes	Charging Emissions	Pushing Opacity (%)
July 2, 2015	38	0.8	25	12 sec	50
Jan. 1, 2016	22.5	0.8	15	12 sec	50
Jan. 1, 2017	7	0.8	4.2	12 sec	50
Jan. 1, 2019	7	0.8	4.2	12 sec	40
Jan. 1, 2020 onward	**4**	**0.4**	**2.5**	**12 sec**	**30**

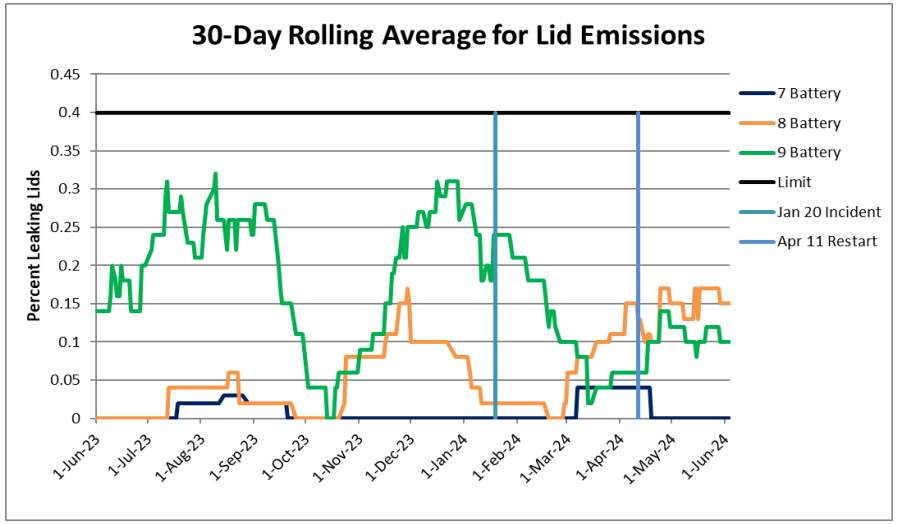
Algoma Steel is meeting the current leak limits on all three batteries.

Cokemaking Emissions Performance



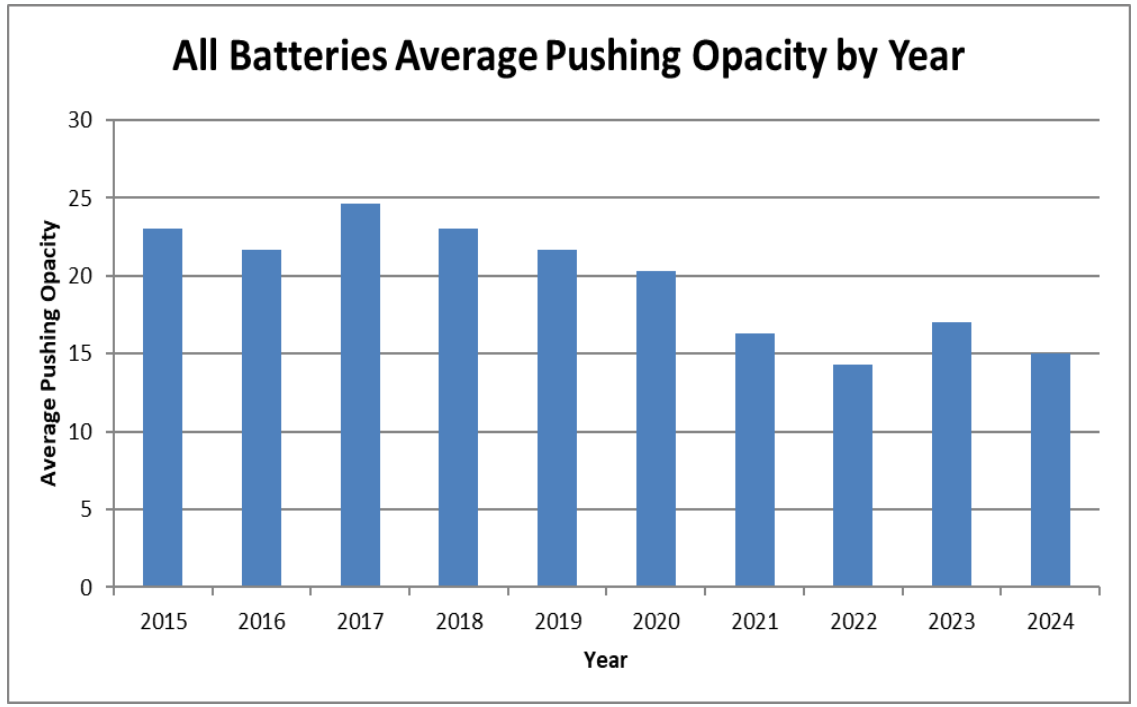


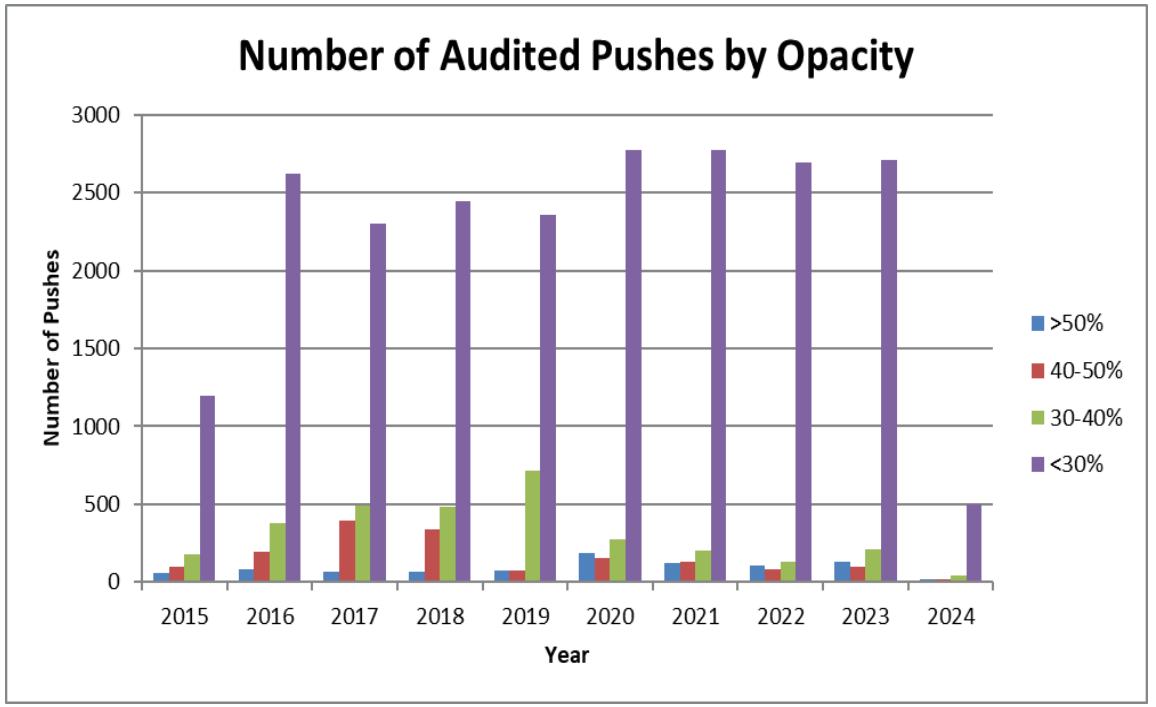




The blue line represents the date of the structure collapse. Note that there is insufficient data for 30 day rolling averages for No. 8&9 batteries. No.7 battery restarted sooner.

Cokemaking Emissions Performance



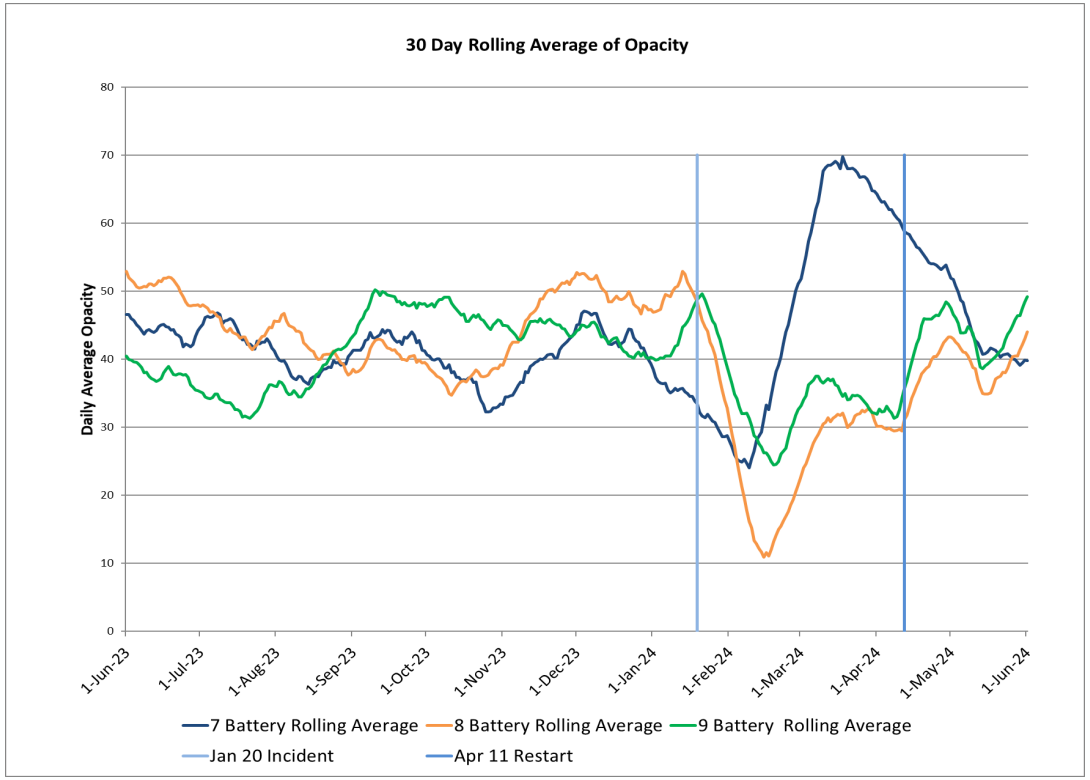


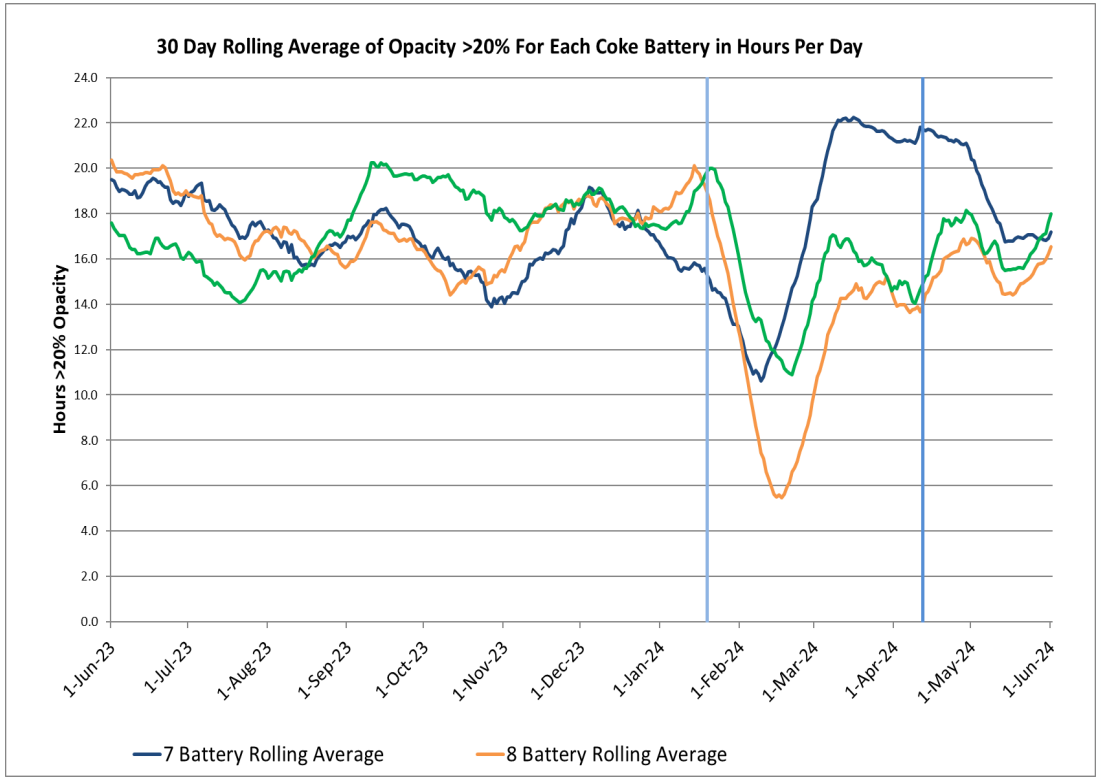
Notes:

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

All corrective actions taken to improve pushing opacity have been successful

Cokemaking Stack Opacity





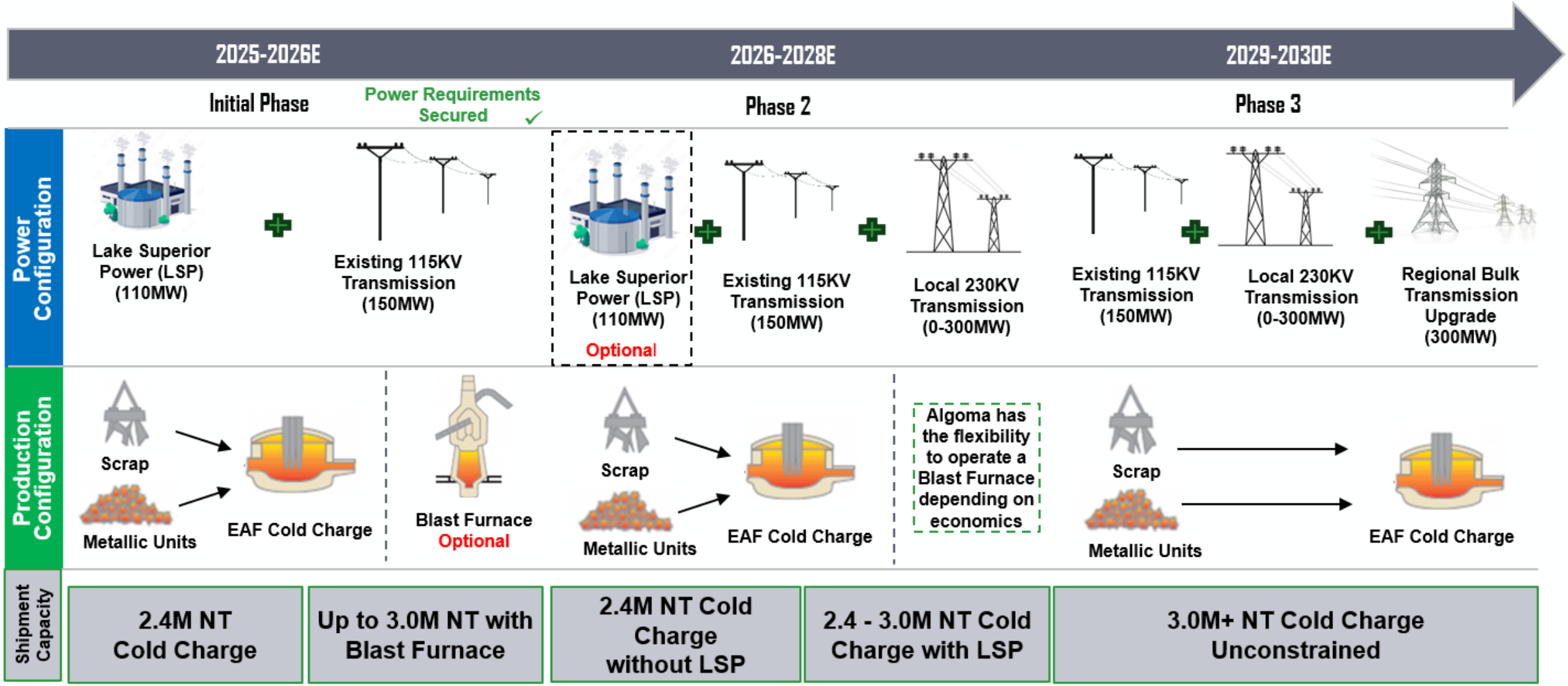
The blue line represents the date of the structure collapse

Algoma Steel will be issuing its second annual environmental, social and governance (ESG) report in August 2024.

We believe becoming a North American leader in green steel, **means becoming a leader in ESG.**

We look forward to sharing our 2024 report with you. You can access our full 2023 ESG Report on www.algoma.com

Powering Algoma's Planned Transformation



Electric Arc Furnace Environmental Controls

Fume Treatment Plants

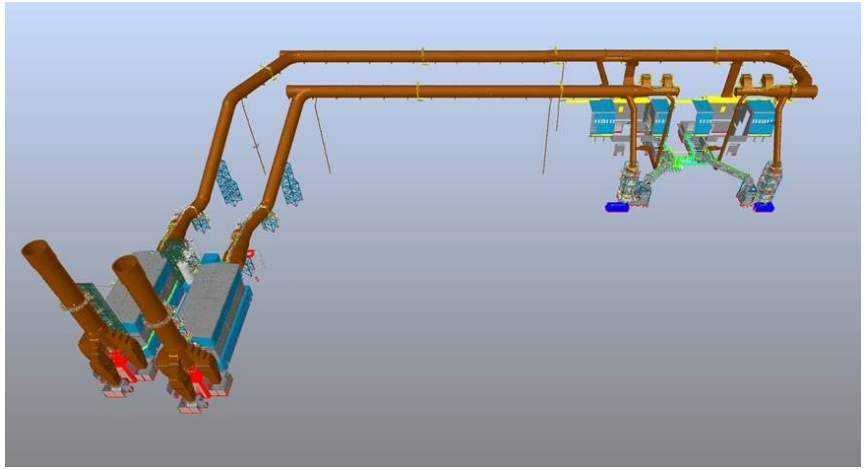
The fume treatment plants capture air and dust emissions from the process.

Water Treatment Plant

The water treatment plant conserves water usage by recycling non-contact water from the process.

Engineered Furnace Enclosures

These enclosures feature large doors which seal shut before the arcing process begins, containing any sound, sparks or dust particles.



Fume Treatment Plants

Furnace Enclosure

Algoma's Shrinking Environmental Footprint

Transition to Electric Arc Steelmaking

- Algoma Steel has committed to transition its manufacturing process from the integrated basic oxygen steelmaking route to electric arc steelmaking. This process change will shrink Algoma's environmental footprint dramatically, **reducing greenhouse gas emissions by up to 70%**[1] and positioning Algoma as one of the leading producers of green steel in North America.

Other benefits include:

Quieter
Fewer noise sources.

Less Waste
Fewer by-product streams.

Cleaner Water
Fewer effluent discharges.

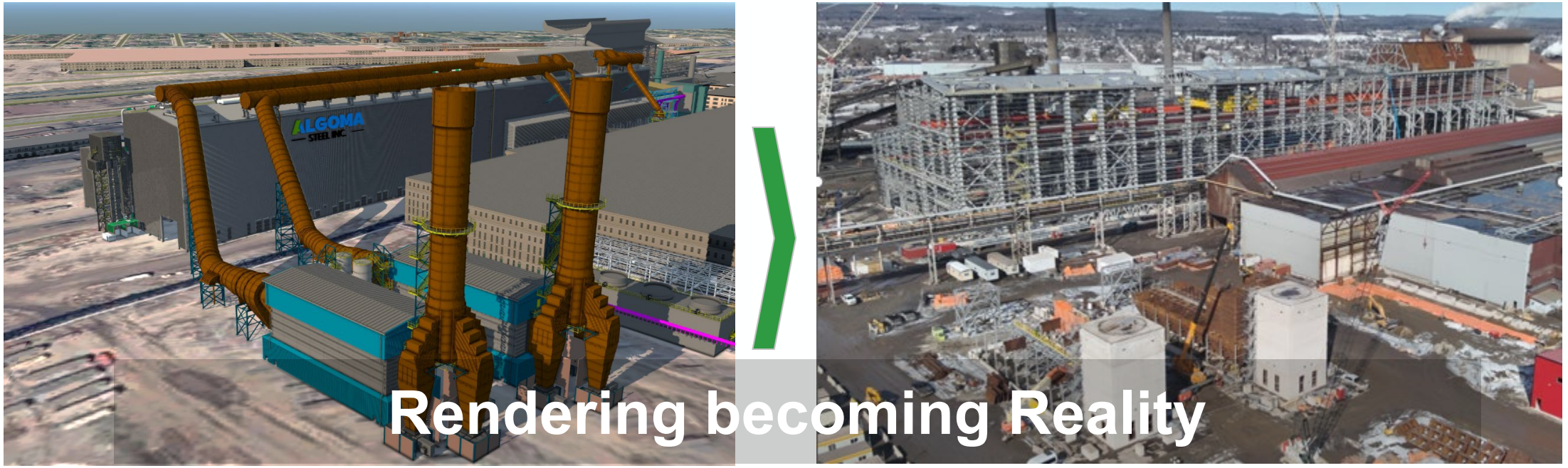
Cleaner Air
Lower emissions from fewer sources.

		Preliminary Estimated Reduction[1]	% Reduction
GHG Emissions	CO_2	3.0 MM tonnes	70%
	CO_2/NT production	1.33 tonnes	75%
SOx Emissions		4,060 tonnes	82%
NOx Emissions		1,604 tonnes	52%
Cokemaking Emissions		Complete elimination of Cokemaking Stack and Fugitive Emissions	100%

Note (1): Source: Company information. Expected environmental benefits from the EAF are based on projected estimates for Algoma, using published data sources for similar technologies. Estimated benefits based on current production versus forecasted production of 3.0MM tons of steel shipments produced under full, exclusive EAF configuration.

Information updated November 23, 2022

Electric Arc Furnace (EAF) Construction Update



Project Statistics[2]:

Concrete **22,033 cu/m** **Structural steel 11,000 tons**	Dust Hoods **50% installed**	Fume Treatment Plant Foundations **95% complete**
Utility Room#1 floor slab completed	Meltshop building roofing 40%	No.2 Baghouse equipment Installation **30%**

(1) Photo taken February 23, 2024
(2) Project Estimates at December 31, 2023

ALGOMA STEEL INC.

Transition to Electric Arc Furnace Steelmaking

Environmental Compliance Approvals

Algoma 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. This ECA will consolidate all existing air approvals and add the two new fume treatment plants and a cooling tower.

2. Site Specific Standards for benzene, benzo(a)pyrene, particulate matter and sulfur dioxide (SO2). This application includes an MECP approved abatement plan that will act as a bridging mechanism until the new Site Specific Standards or Technical Standards are available. The abatement plan provides for the substantial reduction or elimination of emissions as a result of the progressive shutdown of equipment and facilities in the transition to electric arc steelmaking

3. Site wide **Environmental Compliance Approval** for industrial sewage that includes a new recirculating non-contact cooling system. This approval consolidated all existing wastewater approvals

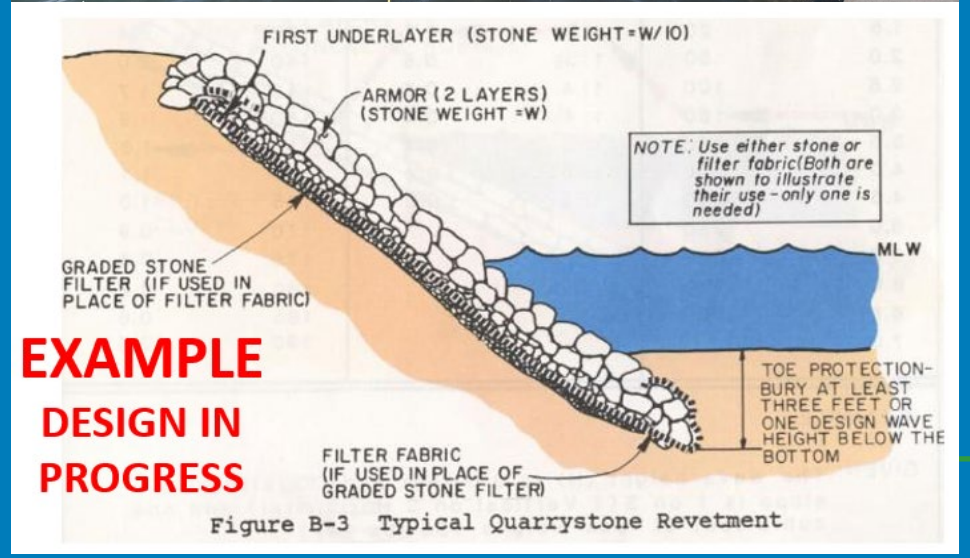
Shoreline Stabilization and Site Greening

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 is scheduled to resume June 24th with the placement of the clean rip-rap and armour stone. Additional dredging work is also planned 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.



Details can be found at http://cps.canada.ca/

Algoma Steel is committed to being a good neighbor

Since we saw you last in March we have…

- Announced our collaboration project with Algoma University on a "Investigation of Phytoremediation Strategies for Slag Use Innovations”
- Brought #CareersinSteel Exhibits to Korah Collegiate
- Sponsored Algoma University Northern Business Case Competition
- Sponsored the SSM Chamber of Commerce Outstanding Business Achievement Awards

Follow Algoma's Journey to Green Steel!

2024

- Commence commissioning EAF #2
- Complete Construction of Water Treatment Plant

2025

- Commence commissioning EAF #1
- Complete Construction of the Fume Treatment Plant

2026

- Phase One of alternate arcing
- PUC LP Transmission Grid expansion complete

2029

- Completion of Hydro One Transmission Line

Follow #AlgomaEAF on Linkedin or www.algoma.com/sustainability for project updates!

Public Questions and Comments

Community Liaison Committee - Next Meetings

Proposed 2024 Schedule:

- September 10th, 2024
- December 10th, 2024
- March 2025