



# Community Liaison Committee Meeting #34

September 15<sup>th</sup>, 2020

# Agenda

1. Review of June 9<sup>th</sup>, 2020 meeting notes and Terms Of Reference
2. Membership Items
3. Site Specific Standards / Technical Standards
4. Public Complaints
5. Environmental Compliance Approval updates
6. Legacy Environmental Action Plan
7. Climate Change
8. Public Open House
9. Next Meetings

# Membership Items

## 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 Nations  
City of Sault Ste. Marie  
United Steel Workers Local 2251  
St. Mary's River RAP Coordinator

### Primary Member

Fred Post  
Lori Greco  
David Trowbridge  
Jillian Marquis  
Kathie Brosemer  
Kara Flannigan  
Steve Carey  
Dan Sayers Jr.  
Catherine Taddo  
Wayne Hubbard  
Lisa Derickx

### Alternate

Chris Galizia  
Ron Dorscht  
Peter McLarty  
  
Chris Spooney  
Suzanne Lieurance  
  
Maggie McAuley

# Site Specific Standard for Particulate and BaP

- On March 27<sup>th</sup>, 2015 Algoma received a Site Specific Standard for Particulate which sets specific emission limits in cokemaking:
  - Certified observers (per EPA Method 9 and Method 303)
  - 5 days per week, 10 Saturdays and 10 Sundays each year
  - Must observe daily per battery: 4 pushes, 5 charges, all lids, all doors, and all standpipes
  - Must make operational adjustments if over the daily limits and notify MECP

# Site Specific Air Quality Standard - Particulate & B(a)P

Identifies Key Performance Indicators related to Cokemaking Emissions:

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

*Conformance calculated daily for each battery*

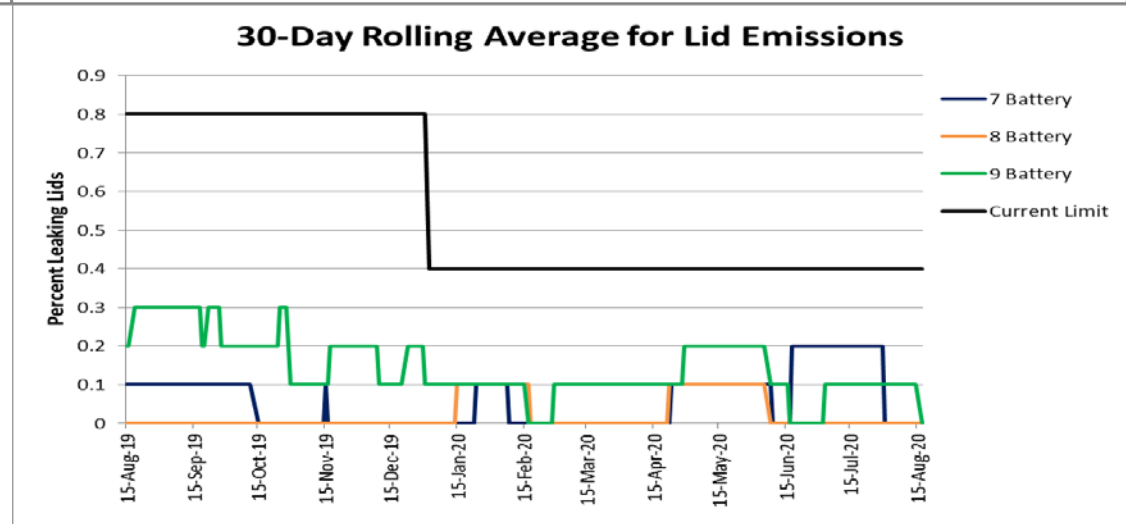
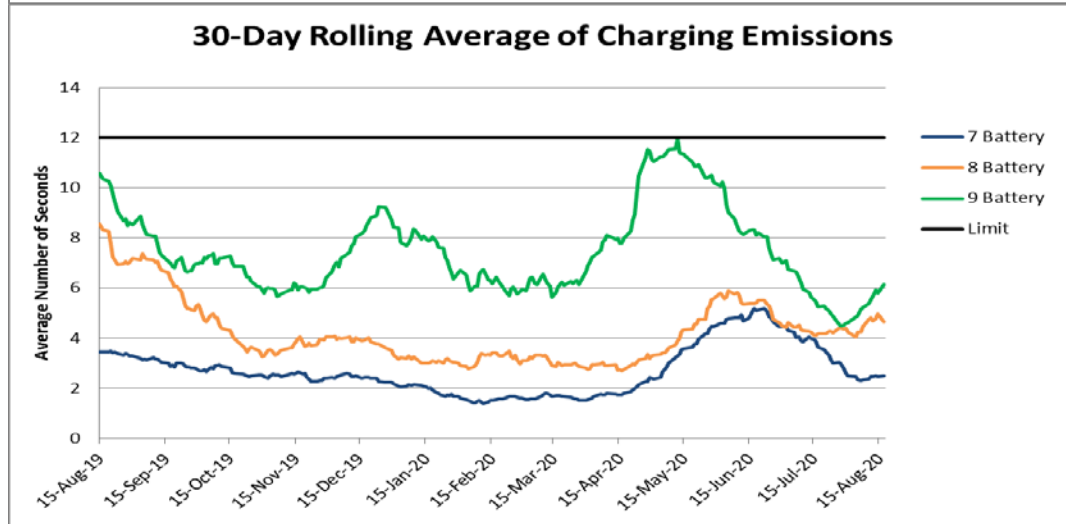
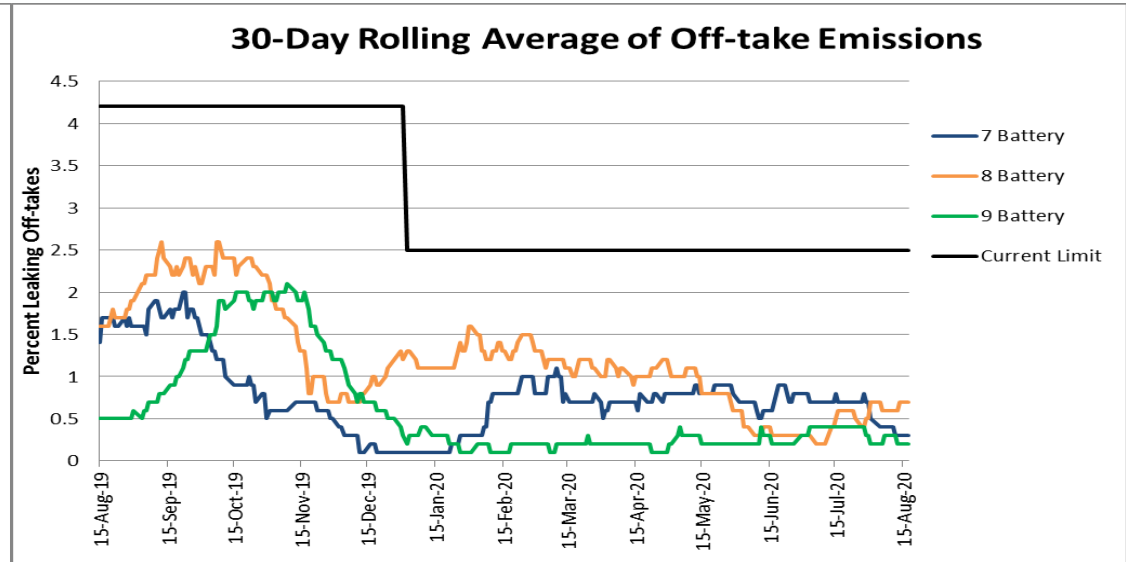
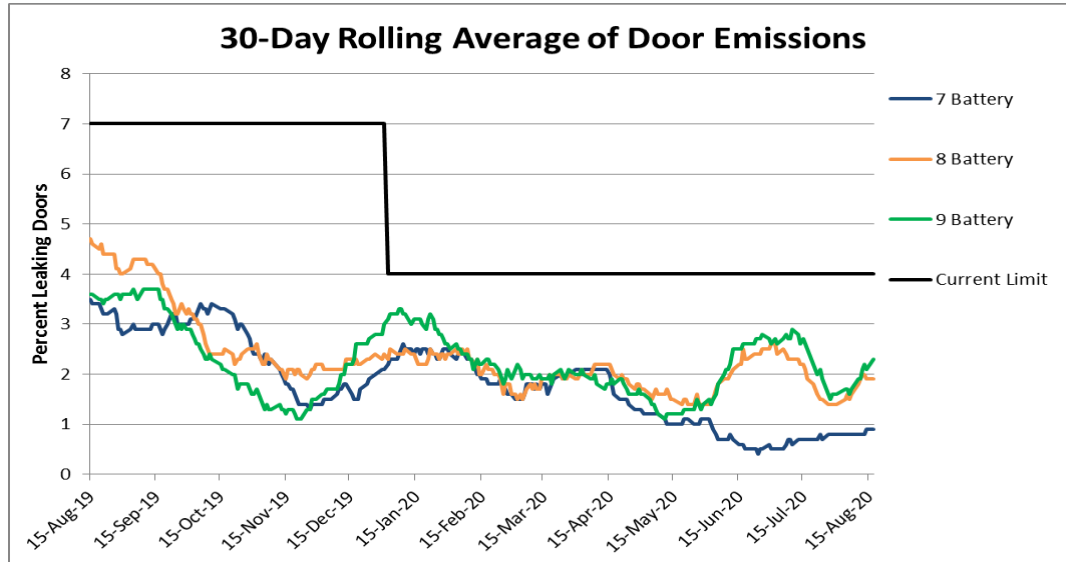
**New limits introduced July 2015. Progressive, annual reduction.**

Implementation Date	30 day rolling average %			Charging Emission	Pushing Opacity (%)
	Doors	Lids	Off-takes		
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	4	0.4	2.5	12 sec	30



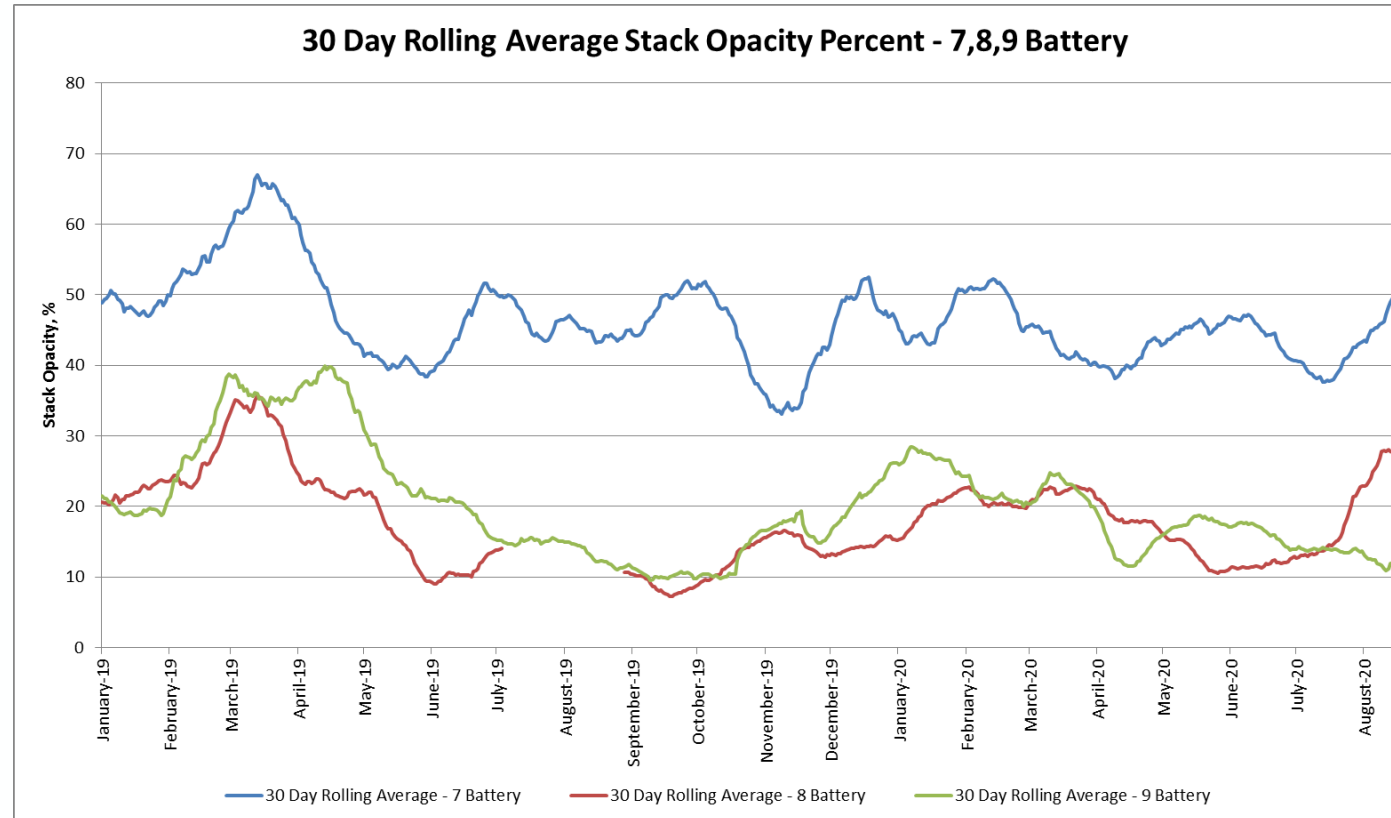
**Algoma Steel is meeting the 2020 limits on all three batteries.**

# Improved Air Quality - Cokemaking Emissions Performance



All batteries performing below the 2020 limit.

# Cokemaking Opacity Performance



## Continuous corrective actions on all batteries

- Part of the investment plan to maintain compliance with SSS limits also focuses on reducing stack emissions from cokemaking
- Extensive masonry maintenance continues on oven walls and end flues
- Focus is on reducing intensity of stack emissions

**Stack Opacity: Continued struggle to meet limit. Through wall rebuilds started on #9 battery in September. Trials being planned for oven dusting and bus flue cleaning on #7 battery**

**Pushing Opacity: To date all corrective actions have been successful at reducing pushing opacity below the limit**

**\$4 million investment planned for 2020**



# Benzene Site Specific Standard

## Benzene Emission Control System Expansion

- Plan to install a vapor collection and air pollution control devices for four air emissions sources on the Benzene Emission Control System - by December 31st, 2020.
- Requested one year deferral to Dec. 31<sup>st</sup>, 2021 due to the extenuating circumstances surrounding the COVID-19 pandemic.
- Planned controls include:
  - **Emergency Liquor Storage Tank** – An out of service tank is currently being refurbished and equipped with Thermal Oxidizer **IN PROCESS**
  - **#3 Tar Tank** – This tank was taken out of service in 2019 **COMPLETE**
  - **#4 Tar Tank and Tar Barge Loading** – Plans are currently under development to install a Thermal Oxidizer that will service both processes **UNDER DEVELOPMENT**



# Public Complaints

There were no public complaints received since the last CLC meeting that related to a matter addressed in the SSS Order.

The following public complaints were received by the company since the last CLC:

- 2 Odour
- 1 Particulate
- 1 Noise

An internal investigation into each public complaint is conducted, a report is submitted to the MECP, and a summary is listed on the company website.

# Technical Standard

## Regulatory Instrument to replace existing SSS's

- A new Technical / Site Specific Standard for multiple air contaminants is under development by the MECP
- Contaminants include: Particulate, B(a)P, Benzene, Sulfur Dioxide, Total Reduced Sulfur and Metals (x4)

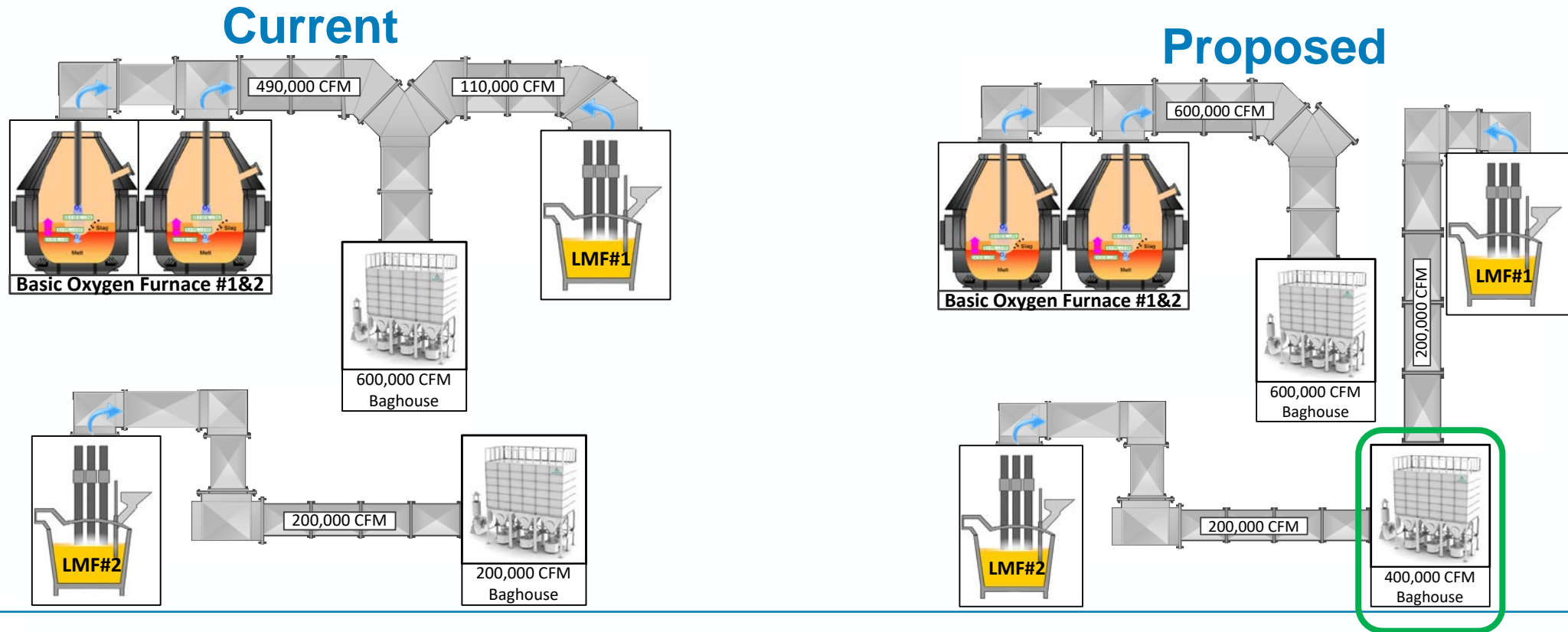
## Algoma Steel is participating in MECP led working groups focusing on:

- Fugitive metal/particulate emissions from on-site roadways; steel-making; slag management;
- Identifying current emission sources and air pollution controls to ensure no back-sliding;
- Expanding Leak Detection And Repair (LDAR) programs in by-product plants for benzene;
- Coke oven gas de-sulphurization (Federally required by January 1, 2026);
- Development of an Ontario-based cokemaking emission auditor training and certification program;
- Completing a jurisdictional review of best available emission control techniques globally;
- Industry economic overview and economic feasibility assessment (industry led);
- Development of trigger mechanisms to facilitate a review of the appropriateness of the Technical Standard every 7-8 years

# Larger Baghouse Proposed

## Application for amendment to existing Compliance Approval

Algoma Steel has applied for approval to install a larger baghouse on its No. 2 Ladle Metallurgy Furnace to improve capture efficiency at both ladle metallurgy treatment stations and at the basic oxygen furnaces (steelmaking).



# LEAP - Addressing Legacy Environmental Issues

## Legacy Environmental Action Plan (LEAP)

- The LEAP is a risk-based environmental management plan with the objectives of identifying, assessing, managing and mitigating off-site adverse environmental effects caused by Legacy Environmental Contamination at the Site.
- Targeted annual investment - \$3.8 million; totaling \$79.8 million over 21 years

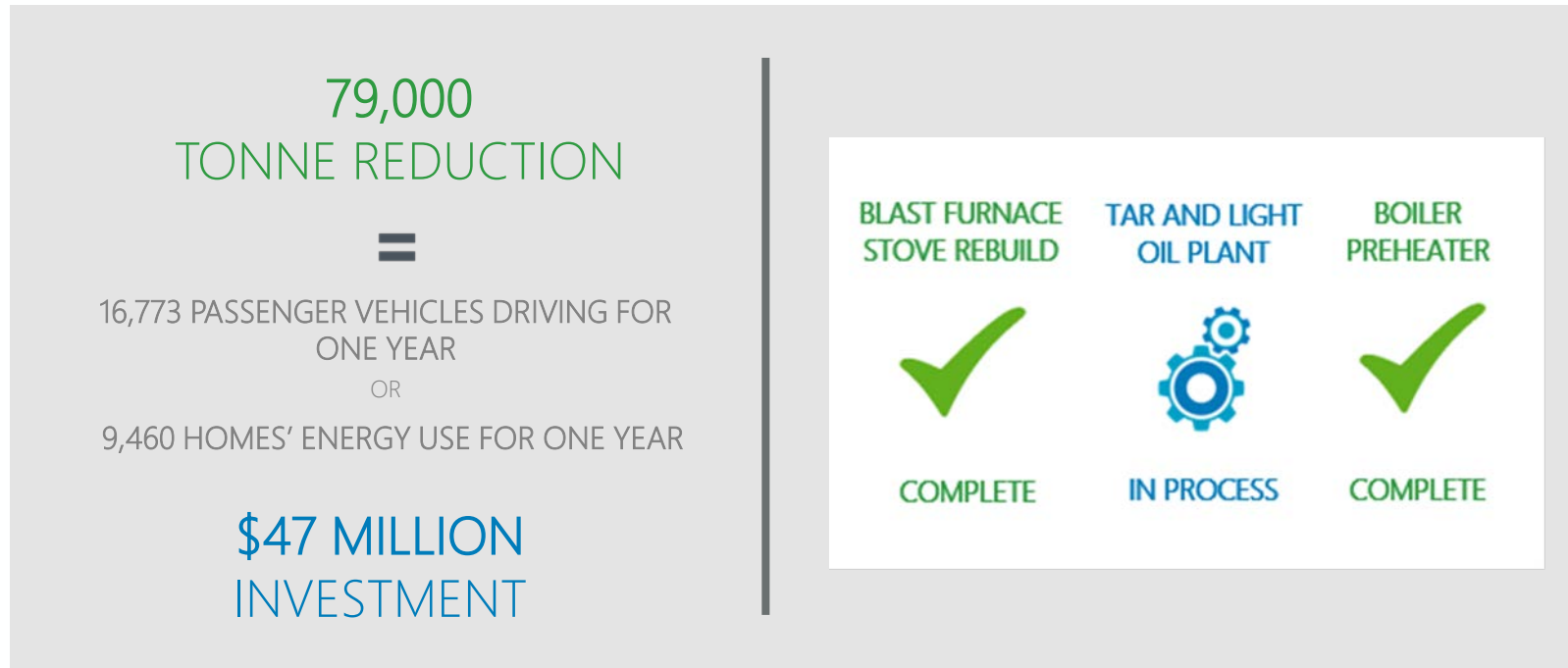
### **\$2 million in projects are planned for 2020 including the following :**

- Expanding the site wide baseline hydrogeological investigation **COMPLETE**
- Legacy Tire Disposal **COMPLETE**
- Engineering for re-routing blast furnace 30" sewer **90% COMPLETE**
- #7 Tank Clean-out **IN PROCESS**
- Refurbish #7 Tank for future Groundwater Collection System **IN PROCESS**
- Carbon capture and storage testing **UNDER DEVELOPMENT**
- Extrusion briquetting testing **UNDER DEVELOPMENT**
- Boat Slip Sediment Study to support the St. Mary's River Remedial Action Plan's delisting criteria for the Degradation of Benthos Beneficial Use Impairment **UNDER DEVELOPMENT**



# Climate Change Action

On August 18<sup>th</sup> the Government of Canada announced funding support through the Low Carbon Economy Fund for up to \$4M to help refurbish Algoma Steel's tar and light oil plant. This project is expected to result in a 21,000 tonne reduction in our annual greenhouse gas emissions. This is part of \$47 million of investments for three projects that will deliver a targeted 79,000 tonne reduction.

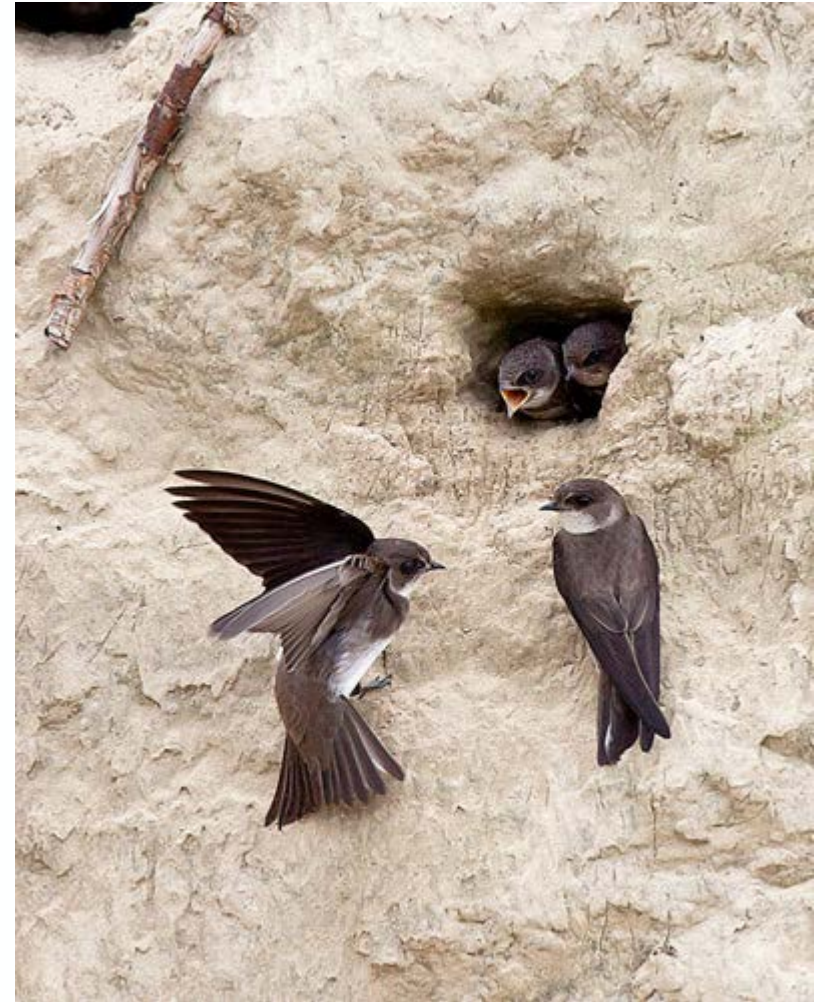


New electrostatic tar precipitators and light oil scrubbers will remove tar and light oil from the coke oven gas so they will not be combusted. Instead of releasing GHG emissions, these by-products will be recovered and sold for use in the chemical industry.



# Bank Swallows

- In June 2020, employees observed birds nesting in a granulated slag pile
- Upon investigation they were confirmed to be bank swallows which are classified as a threatened species in Ontario
- Shipment of product from the pile was postponed until September to ensure nests were not disturbed
- There is another location on Algoma's property where these birds nest and it is being left alone to allow the birds to continue to nest there in future
- Algoma is considering an opportunity to create additional artificial habitat in future



# Public Open Houses

- Last open house was held on December 10, 2019 at the Northern Community Centre, Korah Branch Library Community Room.
- Next open house will be scheduled for fall 2020.

# Next Meeting

- Proposed 2020 Schedule:
  - September 15<sup>th</sup>, 2020 (today)
  - December 8<sup>th</sup>, 2020