



Environmental Planning and Policy Update / Oil and Gas Update

City Council Meeting September 19, 2022

Environmental Updates

New Sustainability Team met on August 29 to discuss current and potential sustainability practices including but not limited to:

- LED replacements for parks and sports fields;
- Tree canopy audits and plantings
- Turf replacement
- Low-impact and green infrastructure pilots
- EV infrastructure
- Fleet transitions

EPAC Updates

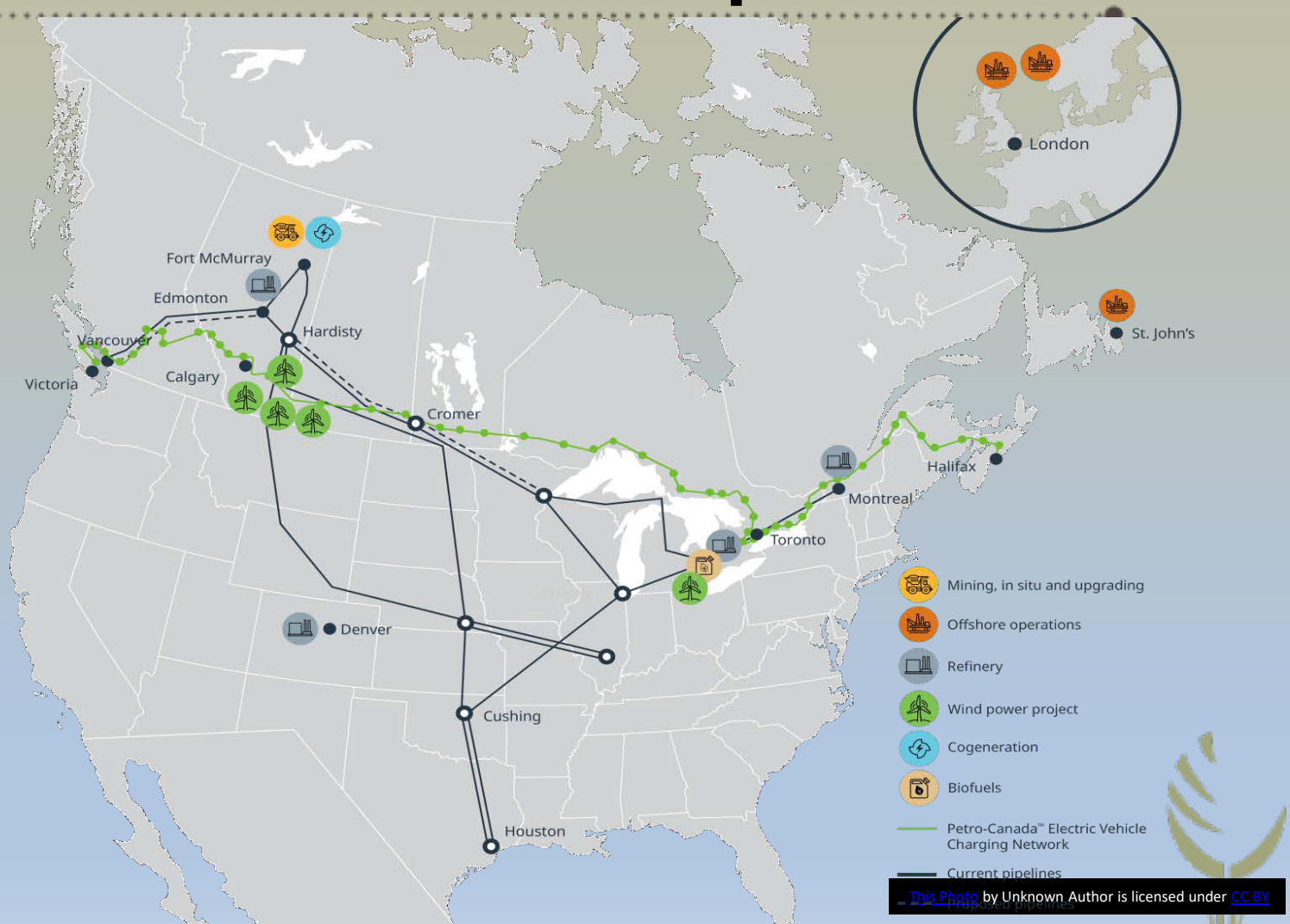
- Sept 15 meeting voted on priority community strategies for education, energy, adaptation, waste diversion, water conservation, fuel and transportation, community health, funding, healthy food, biodiversity and forest canopy.
- EPAC has expressed an interest in becoming a permanent Committee.

Community Engagement

- A survey is being conducted to ascertain environmental challenges, opportunities and vision of the business and community members. The survey can be accessed via the City's website or QR Code:



Suncor Operations



Exceedance Reports Databases Packet & Website

<https://www.c3gov.com/living-in/environment-sustainability/air-quality>

No Water Violations

Suncor Air Exceedance Reports						
Date	Media Impact	Location/Unit	Summary	Exceedance	Permit Limit	Community Impact
8/16/2022	Air	Plant 2 Sulfur Recovery Unit (SRU)	During normal operation, the Plant 2 SRU tripped offline when one of the instruments on the equipment reported loss of flame in the incinerator. The loss of flame was found to be related to moist air in the instrument air system, which caused the SRU gas control valve to trip. The SRU treats refinery fuel gas and flare gas to reduce H2S concentrations. While the unit was offline, H2S concentrations remained elevated but were combusted at the flare tip and in the refinery fuel gas system. At the flare tip, and in the refinery fuel gas system, H2S is combusted, which results in the generation of Sulfur Dioxide (SO2) and water vapor	300 ppm H2S in fuel gas for a 3-hour average	162 ppm H2S in fuel gas for a 3-hour average	The Commerce City North Denver Air Monitoring network of sensors within a three-mile radius of the refinery did not detect any levels above the acute health reference guidelines during this event.
8/8/2022	Air	Plant 1 Main Plant Flare, Plant 1 Fluidized Catalytic Cracking Unit (FCC)	As part of normal operating procedure, operations personnel began transferring lubricating oil from an oil storage tote to the reservoir in the FCC wet gas compressor. During the transfer of oil, the lubrication oil filter became plugged, causing a pressure drop which resulted in the wet gas compressor shutting down as part of the emergency shutdown device to protect the equipment. This caused the gases normally processed by the compressor to be routed to the Plant 1 Main Plant Flare. Operations personnel stabilized the unit and were able to determine that water intrusion from the recent heavy rainstorm was the likely cause of the lubrication oil filter being plugged. Operations personnel drained and filled the oil reservoir with fresh oil and began the restart of the FCC.	For the duration of the event, there was a period of 12 minutes when the flare operated with visible emissions.	Flares shall be operated with no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.	The Commerce City North Denver Air Monitoring network of sensors within a three-mile radius of the refinery did not detect any levels above the acute health reference guidelines during this event.
8/7/2022	Air	Plant 1 Fluidized Catalytic Cracking Unit (FCC)	During the storm, one of the refinery boilers briefly reduced its steam production due to large amounts of rain over a short amount of time causing the Plant 1 FCC blower to reduce output, causing a reduction in the temperature inside the unit. To keep the temperatures in the unit stable, torch oil was introduced into the unit, which resulted in elevated carbon monoxide (CO) emissions.	2,031 ppm CO at 0% O2 for a 1-hour average	500 ppm CO at 0% O2 for a 1-hour average	The Commerce City North Denver Air Monitoring network of sensors within a three-mile radius of the refinery did not detect any levels above the acute health reference guidelines during this event.

Air Toxics Bill (HB-21-1189)

Fence line Monitoring



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The Colorado Department of Public Health and the Environment (CDPHE) on Aug. 18 said after incorporating public comments and staff reviews in regards to the Air Toxic bill that it was sending the required air monitoring plan back to Suncor with additional requirements. The new requirements reflect the impact of City staff and EPAC requests to the agency.

Air Toxics: Fence line Monitoring

- Additional monitoring of 14 different compounds in addition to benzene, hydrogen cyanide and hydrogen sulfide;
- Additional monitoring resources to fully encompass the refinery complex;
- Additional monitor along Brighton Boulevard, and more advanced equipment to detect hydrogen sulfide at lower levels;
- Updating online emissions data every five minutes;
- Using lower thresholds of emissions that would prompt public emergency notifications;
- Add more nonemergency notifications that are for “informational purposes.”

Air Toxics: Fence line Monitoring

There will be two tiers of notifications under the state's demands for Suncor:

- An emergency level, which will go out to all citizens with cellphones, though the public can choose to turn off those notifications; and
- An optional level, with much lower thresholds well below those with health impacts, where residents can opt in for the alerts.

Legislative Updates & Regional and State Leadership

The Infrastructure Re-Authorization Act has a 49% increase in funding including two new core formula programs: Carbon Reduction and PROTECT. Both will have grant opportunities for cities with Sustainability Climate Reports that address climate vulnerability, mitigation, and adaptation. PROTECT covers low-impact development projects (i.e., green infrastructure, tree planting).

Infrastructure Act Grants

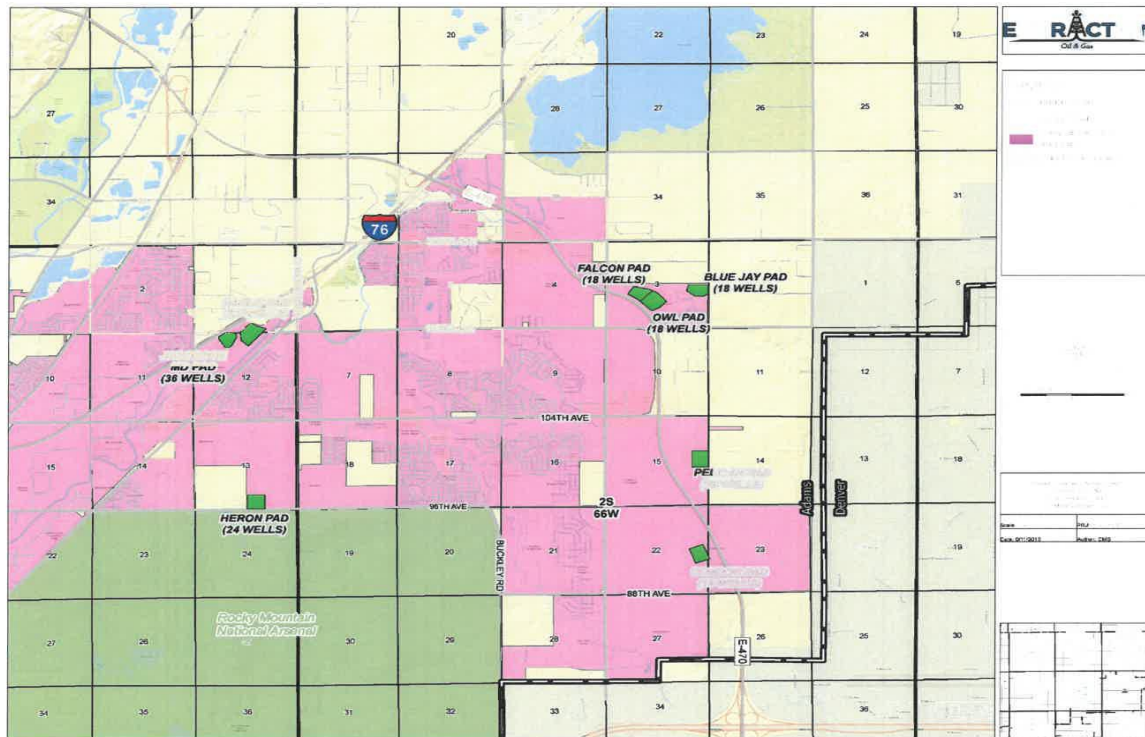
- Congestion Relief
- EV Infrastructure (Block grants)
- Healthy Streets
- Reconnecting Communities
- Vision Zero
- Additional funding for existing programs: CIG, RAISE and INFRA.

COGCC Oil and Gas Update

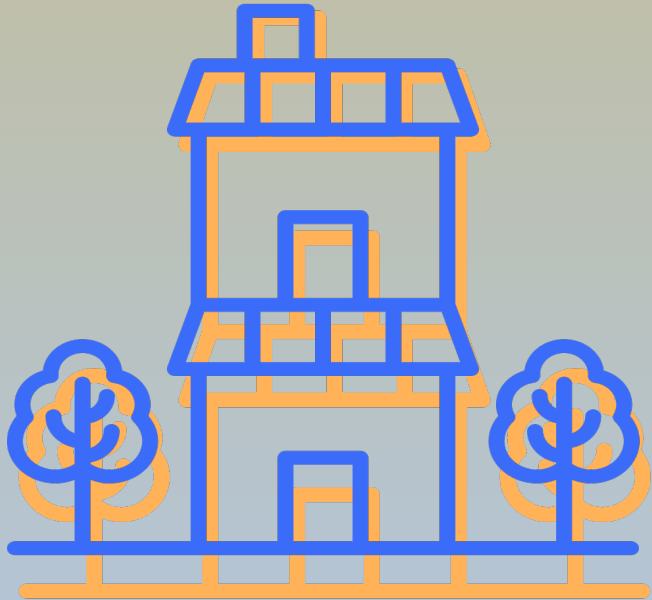


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Oil & Gas Applications



Thank you!



Questions?

Dr Rosemarie Russo
(C3 Environmental
Planner)

rrusso@c3gov.com

303 289-3652

