



# Operational Efficiency through Glycol Recycling

# The Problem

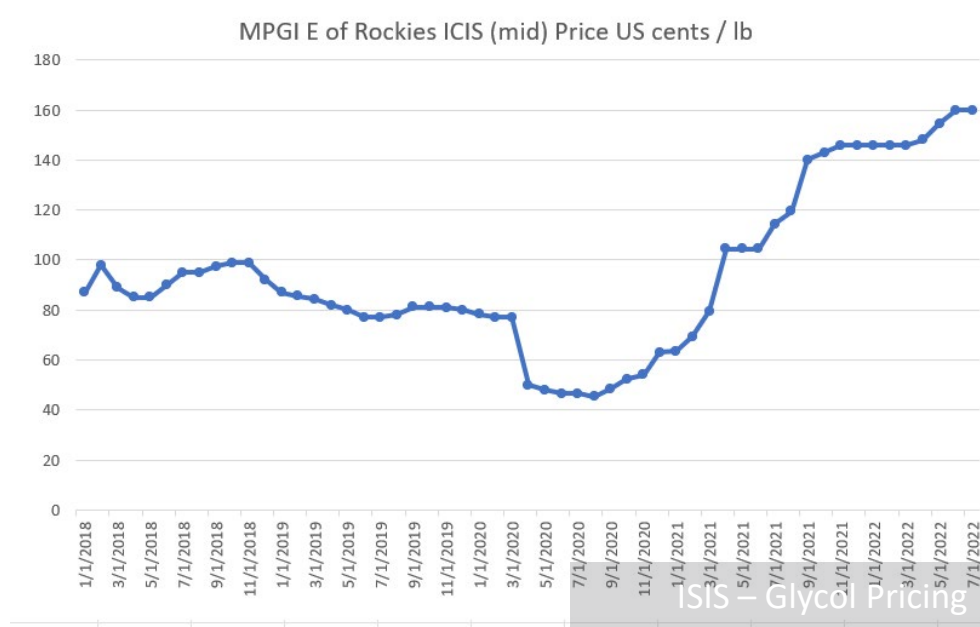
Fluid Management and Increasing Pricing

# Issues Getting Fluid



Joe Raedle/Getty Images

# Pricing Increases



# Environmental Responsibility



## Our Climate Action Plan

Air Canada has set the following greenhouse gas emissions (GHG) reduction targets to ensure meaningful process towards our net zero goal.



**20%**

GHG net reductions

from air operations compared to 2019 baseline by 2030

**30%**

GHG net reductions

from ground operations compared to 2019 baseline by 2030

**\$50 million**

\$50 Million investment

in sustainable aviation fuels (SAF) and carbon reductions and removals by 2030

# Montréal

## Case Study in Glycol Recycling

# Montréal-Pierre Elliott Trudeau International Airport (YUL)

## ► The Problem

- 32 Deicing Trucks
- Too Much Glycol Laden Stormwater



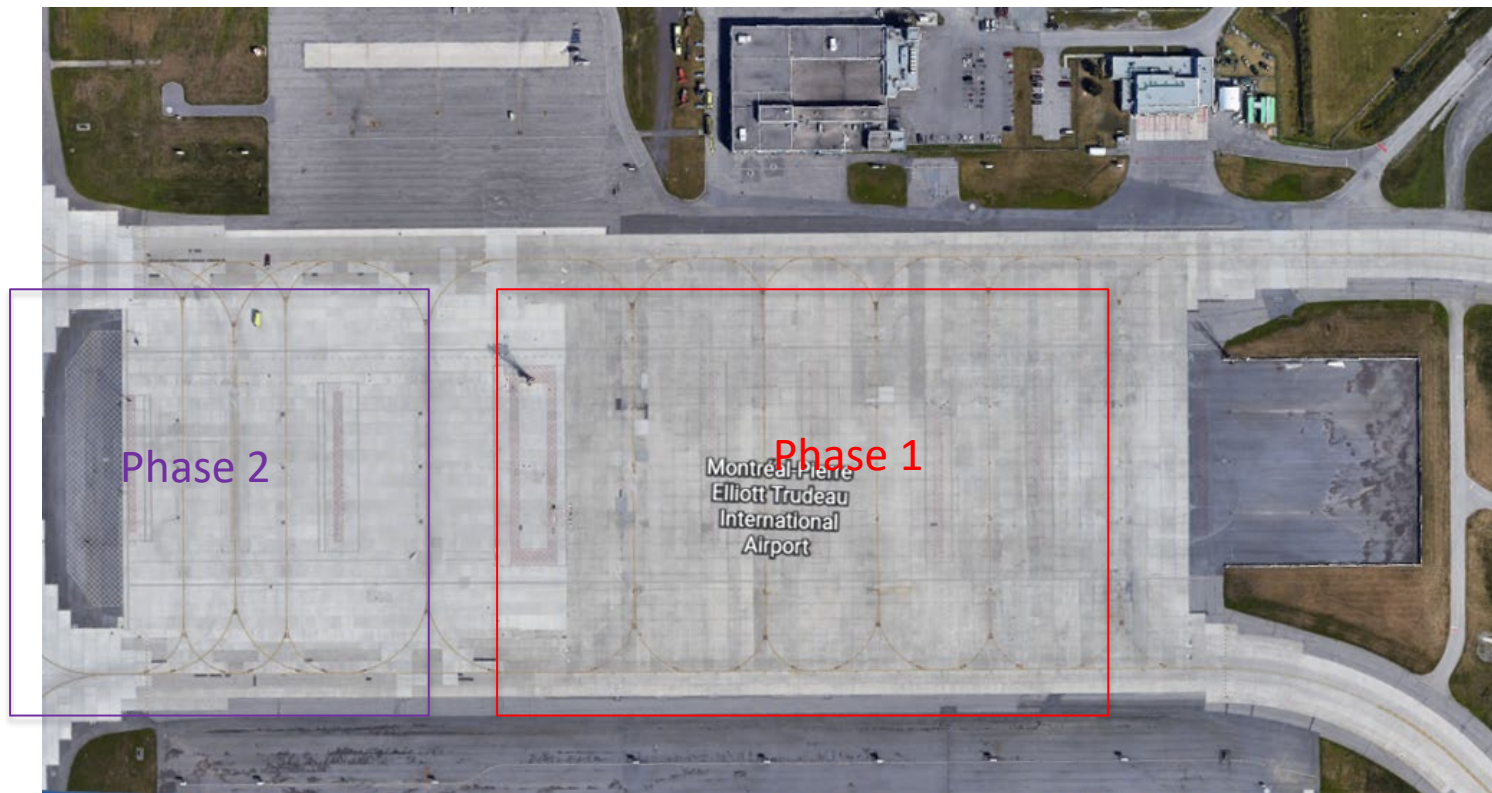
Getty Images



# Montréal-Pierre Elliott Trudeau International Airport (YUL)







# 2004 – Ultimatum from City of Montréal



# 2012 – Glycol Recycling to 50%





# 2014 – ADF Onsite Certification



# Supply Chain Improvement



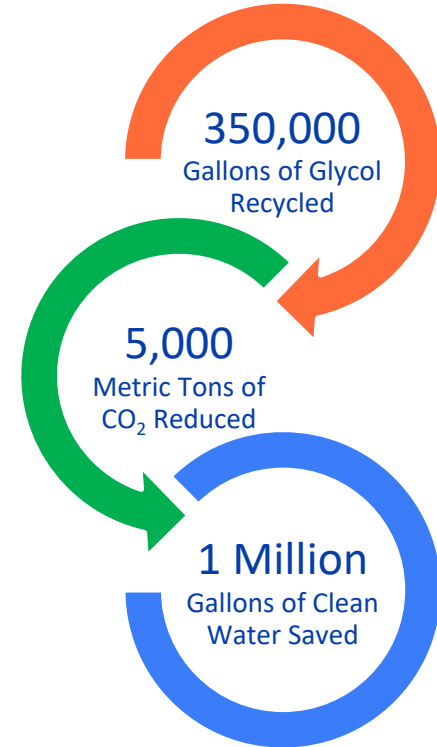
# Cost Savings



# Sustainability



## Montreal Annual Totals



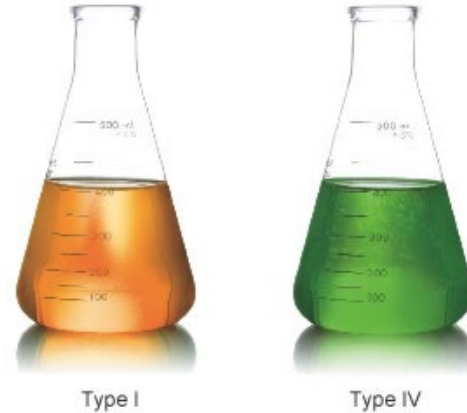


# Cost Savings

WWTP Discharge Fees



Product Cost



# Carbon Footprint of New Glycol

## Biological Degradation



## Production



# Annual Sustainability of Recycled Glycol in US



Equivalent to 25,000+ homes annual energy consumption\*\*

\*assuming using renewable energy

\*\*per EPA calculations

# ALL IN ALL

- ▶ Remove supply chain
- ▶ Reduce discharge cost & investments
- ▶ Guaranteed reduced glycol cost
- ▶ Improve environmental footprint