RTA Committee Meetings & Special Board Meeting

March 1, 2022



Nominating Committee

Chair: Terence P. Joyce



Organizational, Services & Performance Monitoring Committee

Chair: Mayor Michael P. Byrne















Energy Price Risk Management Program Update

Presented to: Organizational, Services & **Performance Monitoring Committee** March 1, 2022

History of Price Risk Management Program

Program started in 2009 after sharp Diesel Fuel price increases in 2008

	Jan 2008	<u>July 2008</u>		
Pump Price	\$2.64	\$4.16		
	2007	2008		

Fuel Cost \$12.1MM \$19.3MM

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What is the Program?

- Establishing pricing in advance through purchase of futures contracts
- Strategically purchasing contracts at perceived low points in market
- Guidance on market provided by Fuel Consultant Linwood Capital



Program Rules – Ohio Revised Code

- Intended to mitigate, for the <u>TERM</u> of the contract
- A budgetary and financial tool <u>ONLY</u> and not a contract for the procurement of the energy source
- Energy price risk management contract is <u>NOT</u> an investment



GCRTA Policy

- Maximum hedge ratio 90% of forecasted consumption
- No interim trading only if forecasted usage decreases
- Maximum hedge maturity 36 months



Energy Price Risk Management Program

The Program

- It is not an investment
- Its objective is not to make or lose money
- Increases Budget Certainty
- Protects against sharp price increases
- Manages Risk



Example – Diesel Price Increases

Current Price – Price at p	oump	\$2.60
Bought contract for Dec Sell contract for Dec 202		\$1.74 \$2.75
Dec 2022 – Price at pum	ıp	\$2.80
Dec 2022 – Gain on sale	(\$2.75-\$1.74)	\$ <u>(1.01)</u>
Net Dec 2022 Cost	(\$2.80-\$1.01)	\$1.79

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Example – Diesel Price Decreases

Current Price – Price at p	oump	\$2.60
Bought contract for Dec Sell contract for Dec 202		\$1.74 \$1.45
Dec 2022 – Price at pum	p	\$1.50
Dec 2022 – Loss on sale	(\$1.45-\$1.74)	\$ <u>0.29</u>
Net Dec 2022 Cost	(\$1.50+\$0.29)	<u>\$1.79</u>

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Energy Price Risk Management Program

Program Risk Management

- Narrows gap of both price increases and decreases
 - Authority can handle paying less
 - Cannot quickly react to paying more
- Price Peaks reduces net increase in cost
- Price Drops reduces net decrease in cost

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Fuel Hedge Contract Status

<u>Year</u>	<u>Status</u>	Avg Monthly Price		
2022	Fully Hedged	\$1.77		
2023	Fully Hedged	\$1.56		

YTD 2021 Diesel Fuel

\$3,065,000

Net Cost 3,422,000

(Over)/Under \$ (357,000)

Total % over budget	11.6%
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Gallons % over budget 8.4%

Price % over budget 2.9%

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Total Diesel & CNG Fueling (in millions)

	<u>2015</u>	2016	<u>2017</u>	2018	<u>2019</u>	<u>2020</u>	<u>2021</u>
Diesel Gallons CNG Diesel Gal Equiv	4.4 0.4	3.4 1.2	3.0 1.4	2.5 1.5	2.1 1.7	1.7 1.6	1.7 1.8
Cost - Diesel+CNG	\$12.5	\$9.9	\$7.8	\$5.6	\$5.0	\$4.8	\$4.8
Cost/Gal	\$2.59	\$2.16	\$1.79	\$1.43	\$1.30	\$1.44	\$1.38
Cost/Gal Net of Tax Cr	\$2.54	\$2.01	\$1.61	\$1.22	\$1.05	5 \$1.17	\$1.09

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GCRTA Climate Action Plan

Organizational, Services & Performance **Monitoring Committee** March 1, 2022

History

- April 21, 2021, President Biden announced greenhouse gas reduction goals for the United States
- In response, FTA created the Sustainable Transit for a Healthy Planet Challenge
- 170 Transit Agencies are participating



Healthy Planet Challenge

- Develop a Climate Action Plan
 - Build on existing programs
 - Set greenhouse gas emissions targets
 - Create goals and strategies with measurable indicators



Project Milestones

Internal Steering Committee: Jan-Feb

 DGMs, Directors and Project Managers in various areas of GCRTA's operations

External Steering Committee: February 23

Board Committee Presentation: March 1

Plan Due to FTA: April 15

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Baseline Year

- 2018 established as baseline year
 - Robust data
 - Pre-pandemic
- Tracking two categories of emissions
 - Scope 1: Direct Emissions
 - Scope 2: Indirect Direct Purchased Energy

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Emission Calculations

- Scope 1: Based on fuel usage and vehicle miles
 - Data multiplied by vehicle emission factor
 - Utilize Greenhouse Gas Protocol
- Scope 2: Based on electric and natural gas usage
 - Data multiplied by emission factor for utility grid
 - Utilize EPA's Emission Factors Hub



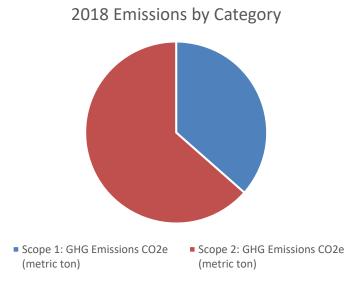
Emission Breakdown

GCRTA produced 103,685 metric tons CO2e in 2018

- 37% Scope 1
- 63% Scope 2

GCRTA produced 81,036 metric tons CO2e in 2021

• 21.84% drop from 2018









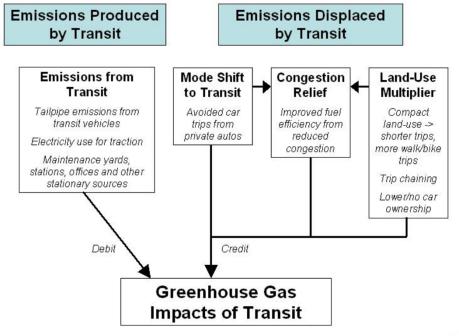
Potential Energy Source Strategies

- Install solar panels
 - Possible Locations: Along Windermere spur track, over mainline track, facility parking lots, facility roofs (Hayden roofing project).
 - Power catenary or facilities
 - Own, lease, or host community solar
- Clean power purchase

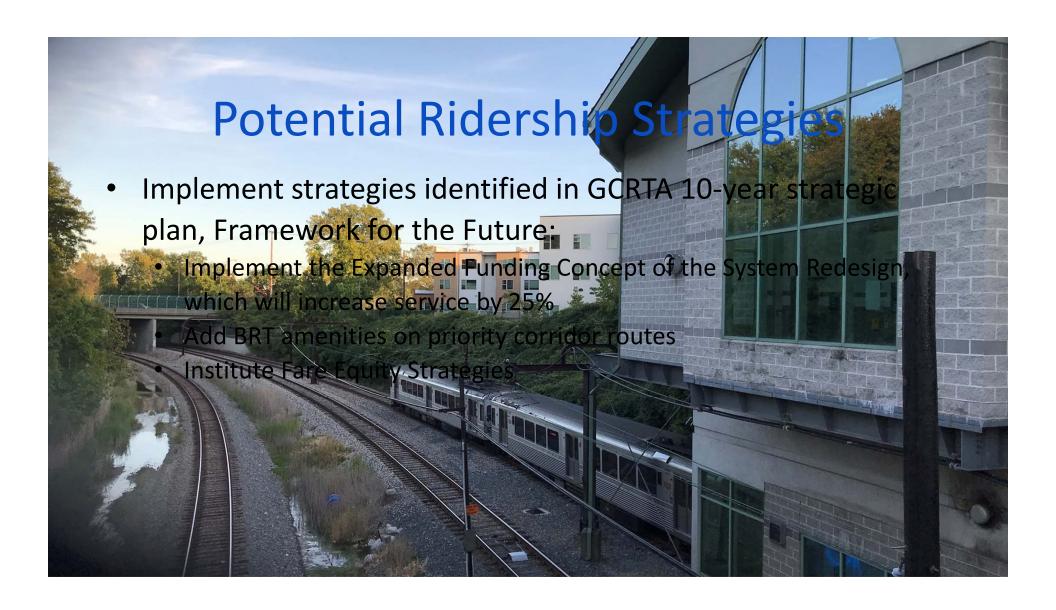


Displaced Emissions

- Mode-shift to transit is a climate action strategy
- Can offset GCRTA emissions in climate strategy



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Potential Ridership Goals

- Ridership Rebound Scenario: Achieve a 10% increase of Passenger Miles Traveled from 2018 (baseline) levels by 2050
- Ridership Growth Scenario: Achieve aggressive ridership growth in line with community-driven mode shift climate plan goals and in partnership with regional policy strategies
 - Example: Cuyahoga County climate change plan goal equivalent to about 20% increase from 2018 levels by 2030
 - Increasing county transit mode share by 2-3% means doubling prepandemic ridership (2.5% trips in 2015)

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Overall Emission Targets:

- Most Feasible: Achieve reduction of GHG emissions / PMT from 2018
 - 10% by 2030
 - 30% by 2040
 - 60% by 2050
- Stretch Target: Achieve reduction of GHG emissions / PMT from 2018
 - 40% by 2030
 - 60% by 2040
 - 80% by 2050



Challenges

- Ridership
 - Returning to Pre-pandemic levels
- Implementation
 - Acquiring and implementing required technology

Next Steps

- Finalize the Climate Action Plan
 - Deadline to submit, April 15, 2022
- Track Progress
- Update Climate Action Plan on Annual Basis

Questions



Special Board Meeting

Chair: Rev. Charles P. Lucas



Farewell to Leo Serrano







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Executive Session

