

# GREEN FLEET UPDATE

Contract Award for  
CNG Sewer Cleaner Trucks and  
Medium and Heavy Duty Electric Vehicles

# TODAY'S AGENDA

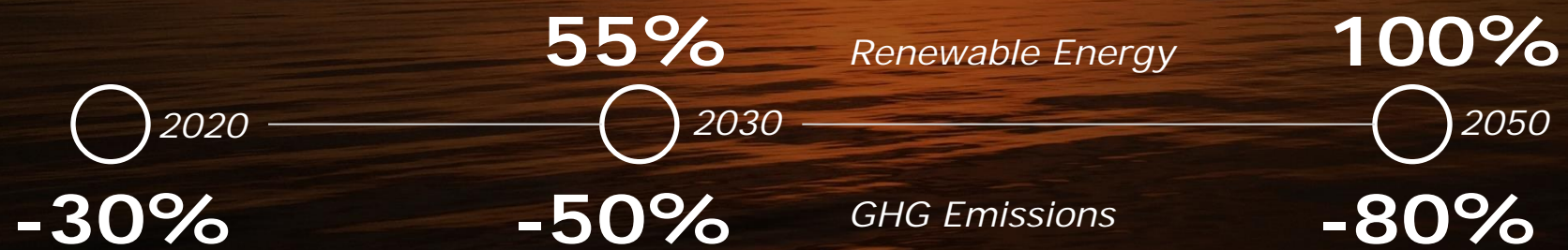
- Background
- Fleet Current State
- Green Fleet Plan
- Electrifying the Fleet
- Medium and Heavy Duty Electric Trucks
- Fueling the Fleet
- CNG Sewer Cleaner Trucks

# STRATEGIC ALIGNMENT

## Greenest City Action Plan (Adopted 2011)

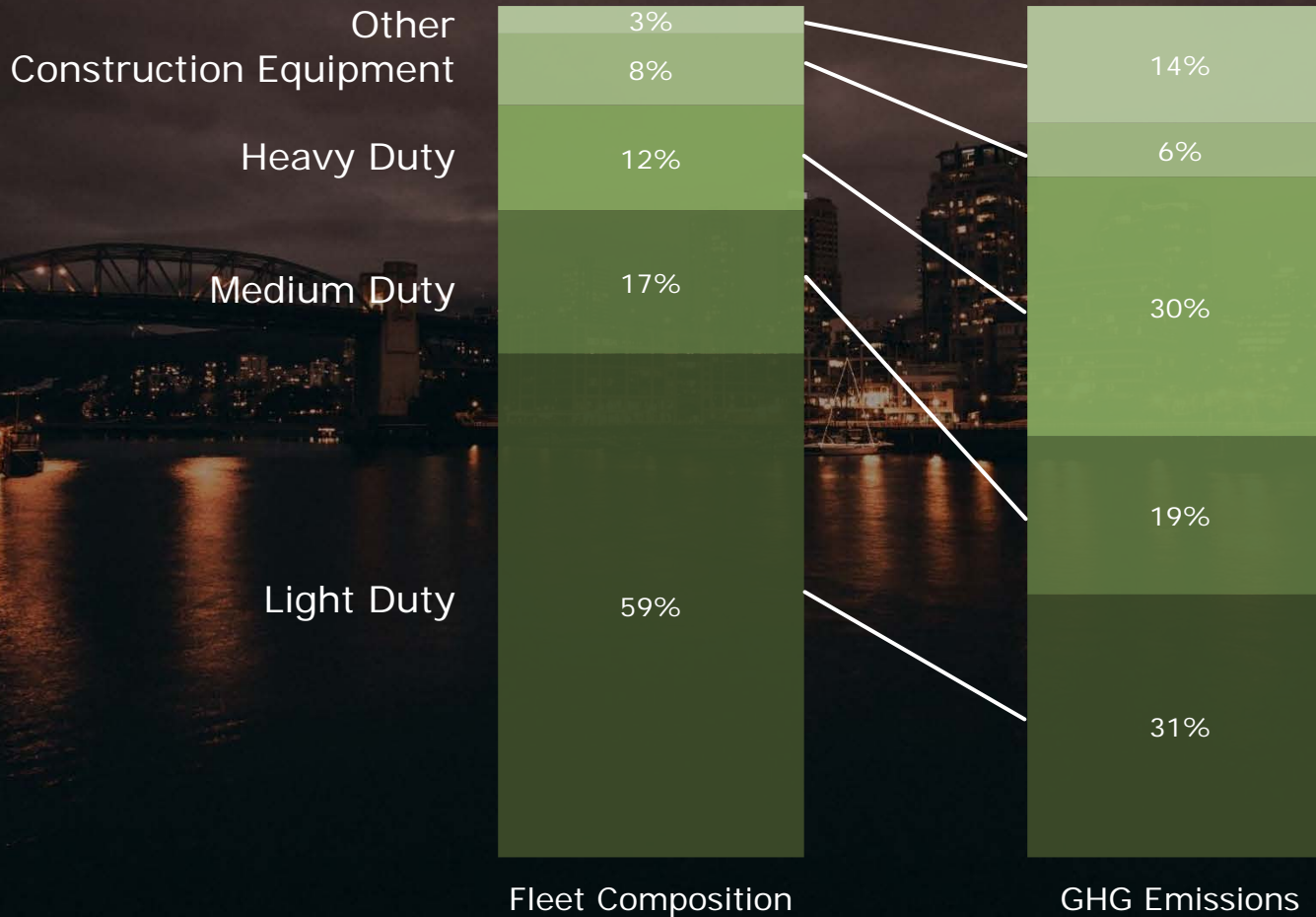


## Renewable City Strategy (Adopted 2015)



# FLEET CURRENT STATE

1,860 units in the City's fleet  
16,300 tonnes of CO<sub>2</sub>e annually



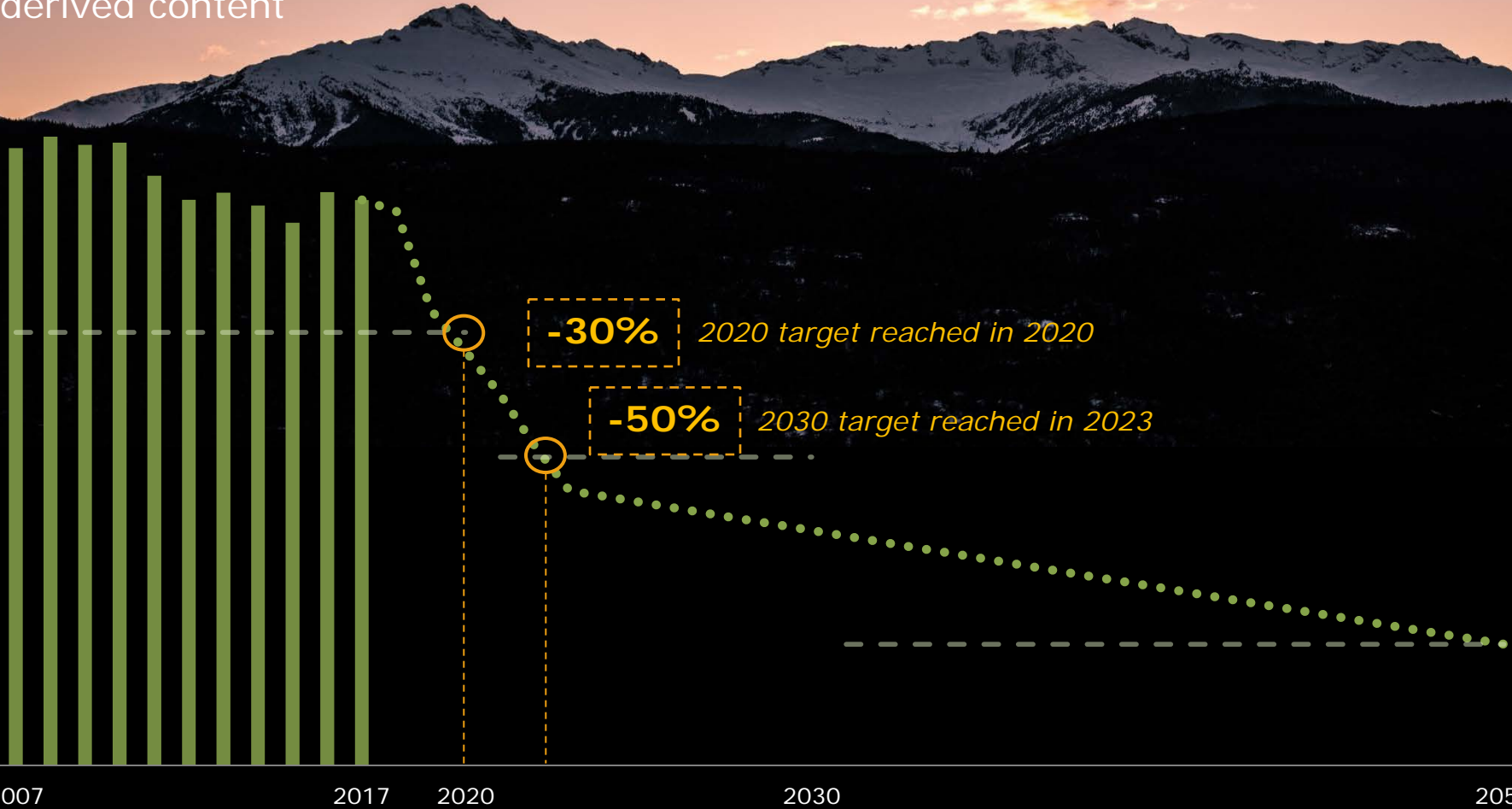
# GREEN FLEET PLAN

## Electrifying the Fleet

All vehicle replacements firstly consider an electric option

## Fueling the Fleet

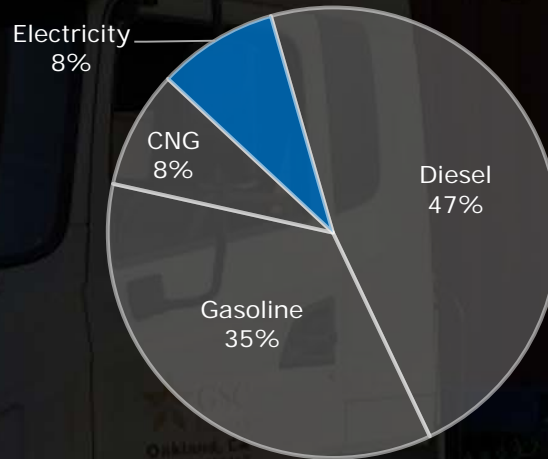
All fuel used in the fleet contain a high proportion of renewable, biologically-derived content



# ELECTRIFYING THE FLEET

Transitioning to electric vehicles will lead to a reduction of **1,300 tonnes of CO<sub>2</sub>e** annually by 2023

Fuel Composition (2018)



2009:  
First  
Mitsubishi  
iMiEV in  
Fleet

2018:  
100th EV  
in Fleet

2019:  
First Electric  
Truck in Fleet

2021:  
Projected  
200th EV  
in Fleet

# MEDIUM/HEAVY DUTY ELECTRIC TRUCKS

## Types of Units Included:

- 44 units – Tractor Trailers, Refuse Collection Trucks, Aerial Trucks

## Budget Impact:

- \$4.1 million capital premium for electric
- Capital premium offset by annual fuel and maintenance savings

## Emissions Reduced:

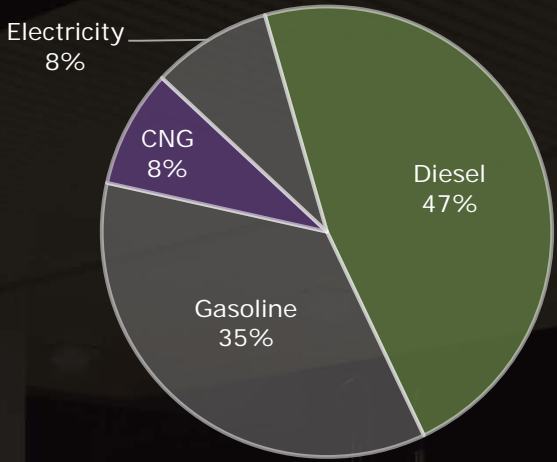
- 1,200 tonnes of CO<sub>2</sub>e reduced annually



# FUELING THE FLEET

Using low emission fuels will lead to a reduction of **7,500 tonnes of CO<sub>2</sub>e** annually by 2023

Fuel Composition (2018)



2010:  
*All Diesel is B5*

2016:  
*City Fleet CNG Station Constructed*

2018:  
*35th CNG Vehicle in Fleet*

2018:  
*Forthcoming Fuel Contract Focusing on Renewable Fuels*

Q4 2018:  
*Explore trial opportunities for new Renewable Fuel options*



# CNG SEWER CLEANER TRUCKS

## Types of Units Included:

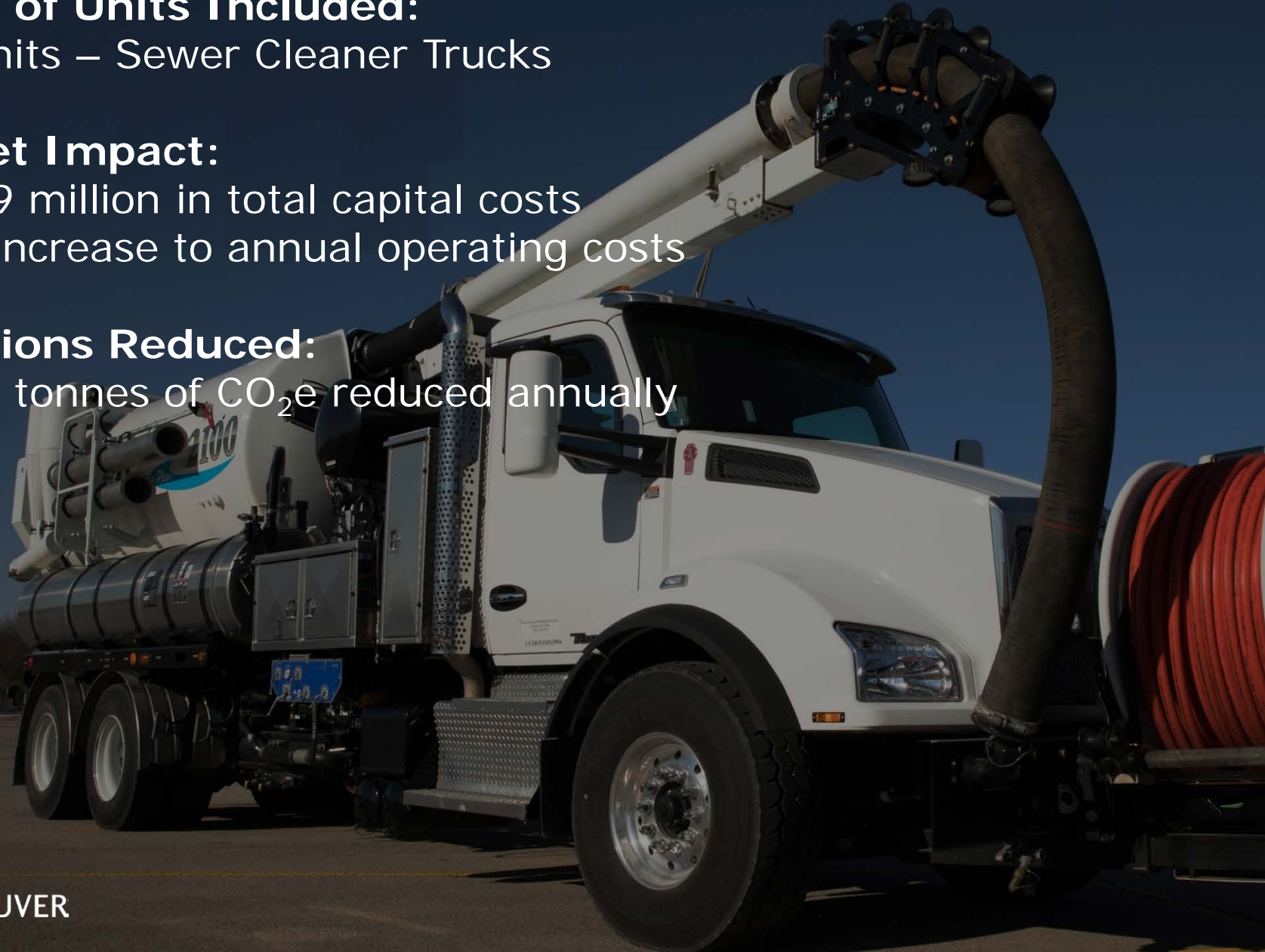
- 5 units – Sewer Cleaner Trucks

## Budget Impact:

- \$2.9 million in total capital costs
- No increase to annual operating costs

## Emissions Reduced:

- 130 tonnes of CO<sub>2</sub>e reduced annually



A photograph of the Vancouver skyline at dusk, with numerous skyscrapers illuminated and their lights reflecting in the water. The sky is a deep purple and blue. The text 'THANK YOU' is overlaid in the center in a large, white, sans-serif font.

THANK YOU