

Overview of City Hydrogen Activities



WHAT'S NEXT

Edmonton Position in H2 Sector



Emerging Hydrogen Economy



Evolved Technology in Transit Sector

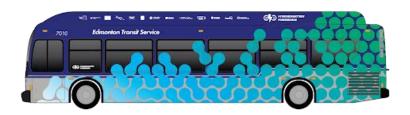
- Fuel Cell Technology
- Potential to meet program outcomes



Emissions Reduction Alberta (ERA) Opportunity

Alberta Zero
 Emissions Hydrogen
 Transit Project
 (AZEHT)





HOW: THE APPROACH

- 1 FUELLING STATION
- 2 FLEET CONVERSION
- 3 TRANSIT GARAGE



FUELLING STATION



FUELLING STATION RFP

Vendors/respondents are to provide:



End-to-end
Fuelling Station
Solution

(e.g. build, operations and maintenance)

2

A Reliable Source of H₂ 3

Fuelling station
Maintenance for
contract duration



Demonstrate station expansion and evolution

Meet changing needs of fleet and private sector

FLEET CONVERSION



- Over 40% reaching retirement age
 - Up to 440 vehicles in next 4-6 yrs
- Centennial Garage
 - Up to 250 Vehicles
- New Transit Garage
 - Up to 350 400 Vehicles
- Represents opportunity of over 20 tons H₂/day

TRANSIT GARAGE











A new diesel-electric garage gives us the ability to grow our service and gain efficiencies at ALL garages.













Kathleen Andrews Garage

Ferrier Garage

Mitchell Garage

Centennial Garage

Percy Wickman Garage

NEW Diesel-Electric Garage















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NEW Diesel-Electric Garage

NEW EV Garage 2050

SEIZING THE OPPORTUNITY

- 10 year window to capitalize on the use of hydrogen
 - Being dubbed as "hydrogen gold rush"
- Expand to municipal fleet and facilities



World-leading hydrogen energy provider

- Fueling station is the catalyst
- Leading distributor of H2
- Transform and secure economy



Thank You

Urban Planning and Economy edmonton.ca/changeforclimate