City of Nanaimo
Green Fleet Strategy

May 11, 2020

Context for a Green Fleet Strategy

- Transportation accounts for a large majority of GHG
- City is demonstrating leadership by 'greening' its fleet.
- Green Fleet Strategy designed to reduce emissions through improved efficiency, and development of standards
- Supports Council's Strategic Plan
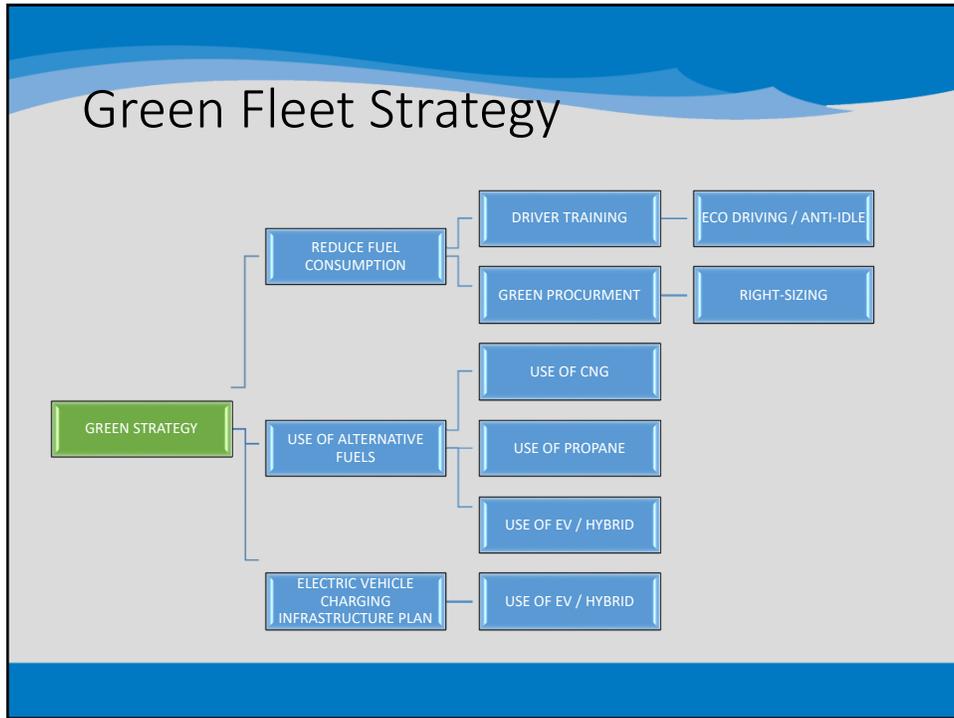- Dovetails with Energy Conservation and Management Policy

Fleet Review

- In June 2019, Council directed the City join E3* Fleet and participate in a review
- Cost-effective, independent review of fleet performance
- In fall 2019, the City worked with E3 Fleet to conduct a Level I Review (Operational Profile)
- Level I examines KPI's such as fuel use, efficiency, distance, GHG and use.
- Provides recommendations for continuous improvement

  *E3 = "Energy, Environment, Excellence"

Fleet Rating

- Based on the Level 1 review, E3 provides a rating as a means of benchmarking the City's fleet

- E3 Fleet Rating:
  - Gives a target to work towards
  - Promotes lower fuel, emissions and downtime
  - Demonstrates progress towards organizational goals
  - Broadcasts the City's care for its environment

Green Fleet Strategy

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GREEN STRATEGY ──┬── REDUCE FUEL ──┬── DRIVER TRAINING ── ECO DRIVING / ANTI-IDLE
                 │    CONSUMPTION   └── GREEN PROCURMENT ── RIGHT-SIZING
                 │
                 ├── USE OF ALTERNATIVE ──┬── USE OF CNG
                 │         FUELS          ├── USE OF PROPANE
                 │                        └── USE OF EV / HYBRID
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                 └── ELECTRIC VEHICLE ── USE OF EV / HYBRID
                     CHARGING
                     INFRASTRUCTURE PLAN
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CITY OF NANAIMO
THE HARBOUR CITY

Previous Initiatives

- Installed automated fuel management system

- Implemented a preventive maintenance system

- Adopted a corporate anti-idling policy in 2007

- Implemented a pool car program in 2008

- Adopted bio-diesel 5 blend in 2009

Previous Initiatives

- Partnering with neighbouring municipalities to share best practices
- Right-sizing vehicles at time of purchase
- Annually evaluating the preventative maintenance program
- Provide fuel consumption reports to departments
- Assessing 10 year purchase of vehicles for potential alternative fuel vehicles
- Currently developing a Corporate Green Fleet Strategy

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Initiatives to Date

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Alternative fuel vehicles

- 4 Hybrid
- 21 Propane / CNG pickup trucks
- 9 CNG garbage truck fleet
- 5 fully electric cars
- 5 fully electric ice resurfacing machines