

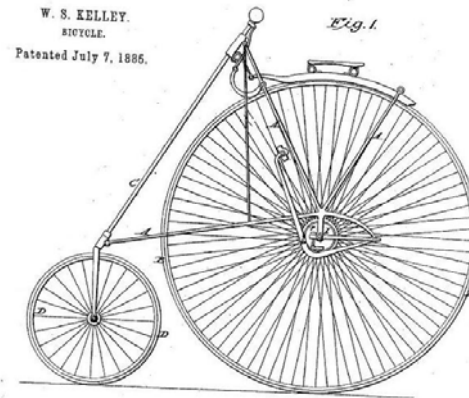
Tools for a Sustainable Motor Fleet



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NC Project Green
Meeting

What is a sustainable motor fleet?

- One version is to purchase only the following:



What is a sustainable motor fleet?

- Here is another version:

ARTICLE 19 -- FUEL-EFFICIENT VEHICLES

When the Town purchases motor vehicles for its municipal operations, each vehicle purchased must be the most fuel-efficient model available that will fulfill the intended municipal function; provided that the vehicle also meets other normal procurement criteria, including price and reliability.

Source: Town of Arlington, MA

Our Story

- How the School of Government moved to a greener car fleet



Our Analysis

- Cost
- Safety
- Environment
- Functionality
- Driver Preferences

Cost

- Cost of Vehicle
 - Best source is your local dealers
 - Kelly Blue Book:
<http://www.kbb.com/>
 - Lease from State Motor Pool:
<http://www.ncmotorfleet.com/>



Cost

- Cost of Insurance
 - Your government's insurer

- Cost of Maintenance
 - Vincentric
<http://vincentric.com>



Cost

- Gasoline

- Fuel Efficiency of Vehicle:

- <http://fueleconomy.gov>

- Cost of Gasoline:

- <http://www.fuelgaugereport.com/NCavg.asp>



Safety

- The National Highway Traffic Safety Administration rates vehicles on frontal impact, side impact and rollover safety

<http://www.safercar.gov>

Environment

- The Fuel Economy website has both the carbon footprint and the Air Pollution Score

<http://www.fueleconomy.gov/>



Functionality and Driver Preference

- These factors will vary depending on your government
- We recommend that you survey your employees

Cost and Carbon Calculator

- Visual, side-by-side comparison tool

www.efc.unc.edu/tools.htm#car and carbon

The image shows a screenshot of a web-based calculator titled "Annual Cost and Carbon Calculator". The interface is divided into three main sections: Vehicle 1, Key Assumptions, and Vehicle 2.

Vehicle 1: This section is for configuring the first vehicle. It includes a "Type of Vehicle" dropdown menu set to "Dodge Caravan". There are radio buttons for "Purchase" and "Lease", with "Lease" selected. Below this, there are two input fields for "MPG": "City" (17) and "Highway" (21). Further down, there are two sliders: "Monthly Per-Mile Lease Rate" set to \$0.26 and "Monthly Minimum Miles" set to 1,050.

Key Assumptions: This central section contains shared settings for both vehicles. It includes a "Miles Driven Per Year" slider set to 18,400, a "Number of Vehicles" slider set to 1, and two input fields for "% City Miles" and "% Highway Miles", both set to 50%. At the bottom, there is a "Gasoline Price" slider set to \$3.83.

Vehicle 2: This section is for configuring the second vehicle. It includes a "Type of Vehicle" dropdown menu set to "Toyota Prius". Below this, there is an "MPG" input field set to 48. Further down, there are two sliders: "Monthly Per-Mile Lease Rate" and "Monthly Minimum Miles", both of which are partially visible but their values are not fully shown.

The Conclusion of our Story

- The School of Government has applied for hybrids to replace some of our vans
- But...we are on a waiting list



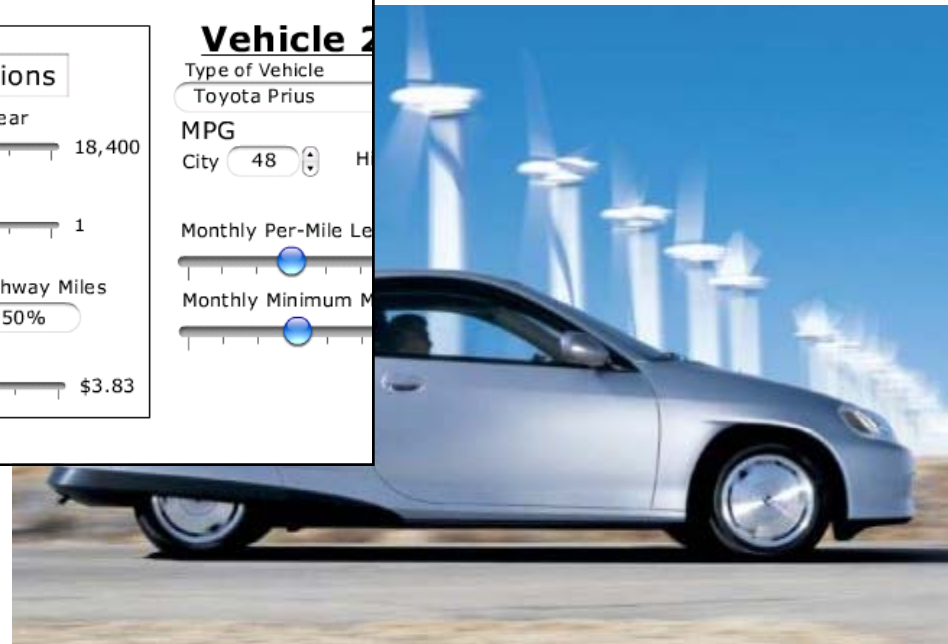
Questions?

Annual Cost and Carbon Calculator

Vehicle 1 Purchase Lease
Type of Vehicle
MPG City Highway
Monthly Per-Mile Lease Rate
Monthly Minimum Miles

Key Assumptions
Miles Driven Per Year
Number of Vehicles
% City Miles % Highway Miles
Gasoline Price

Vehicle 2
Type of Vehicle
MPG City Highway
Monthly Per-Mile Lease Rate
Monthly Minimum Miles



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