### Responsible Purchasing Guide for Light-Duty Fleet Vehicles Resources and tools for reducing GHG emissions from fleets



**Presented by Matt Kittell** 

**Responsible Purchasing Network** 

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www.ResponsiblePurchasing.org

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Webcast: Climate Neutral Fleet

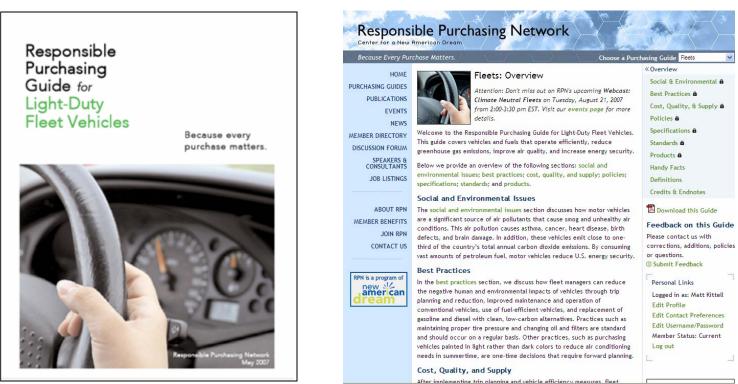


**Resources and Tools** 

- Responsible Purchasing Guide for Light-Duty Fleet Vehicles, 2007
  - Improved practices
  - Cost, quality, & supply
  - Policies and specs
- HEV Calculator
  - Compare hybrid and conventional lightduty vehicles

### **Responsible Purchasing Guide for Light-Duty Fleet Vehicles, 2007**

#### PDF



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**Improved Practices** 

# 1) Reduce Fleet Size

- Match vehicle class to staff duty and driving environment
  - Right size for efficiency
- Eliminate underutilized vehicles
  - No vehicles with low annual mileage
- Eliminate inefficient vehicles
  - No vehicles with low fuel economy







**Improved Practices** 

# 2) Drive Efficiently

- Train drivers on efficient driving
  - No aggressive acceleration/deceleration
  - Follow speed limit and use cruise control
  - Remove excess loads from vehicles
- Exercise proper maintenance
  - ▶ Tire pressure, fluids, filters
- Prohibit idling
  - Conserve fuel and reduce emissions





**Improved Practices** 

# 3) Reduce Vehicle Trips

- Choose alternative modes of travel when practical
  - Incentivize car pooling, transit, biking, walking, teleconference
- Improve route planning
  - Multi-task for lower mileage
- Use car-sharing when possible
  - Promotes efficient scheduling and use





### Cost, Quality, & Supply

# Key Points to Remember

- Sticker price is not the only cost
  - Look at life-cycle
- Lower emissions and higher quality
  - Efficient vehicles have proven record
- There is a most efficient vehicle in every class
  - In some cases, hybrids too!
  - And plug-in hybrids?







#### **Policies and Specs**

### **RPN's Green Fleet Resources**

- Collection of policies from leading institutions
  - Policies provide a mandate
  - Model Policy Ann Arbor, MI
- Collection of bid and contract specs
  - Specs deliver the goods
  - Model Specs Massachusetts, New York





Hybrid Vehicle Calculator





- www.ResponsiblePurchasing.org/calculator/
- All light-duty 2007 model year vehicles
   Hybrid and conventional
- Sample comparison Prius vs. Crown Vic



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#### **Responsible Purchasing Network**

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Because Every Purchase Matters.

#### Choose a Purchasing Guide [Select One]

Single Car Comparison HOME Methodology Fleet Tool Are you thinking about purchasing a hybrid vehicle for your fleet, but aren't sure what the benefits are and PURCHASING GUIDES whether the higher purchase price is worth it? This HEV Fleet Cost and Benefit Calculator Tool will allow you to PUBLICATIONS compare the lifetime costs and air emissions of a hybrid to those of a conventional vehicle. **EVENTS** In the first menu, you will choose a hybrid vehicle and a comparison conventional fleet vehicle. If you would NEWS like to select a different fleet vehicle, click here or on the "enter your own" link below. Emissions data are available for the list of default 2007 model year fleet vehicles. In all cases, you can override the default cost MEMBER DIRECTORY values, which are projections from national fleet data, with your own localized information. DISCUSSION FORUM Please click on the field names to get more information where applicable. SPEAKERS & CONSULTANTS Step 1: Choose your vehicles or enter your own for comparison JOB LISTINGS Hybrid Model Standard Model ABOUT RPN Make Ford Toyota V MEMBER BENEFITS Model Prius Crown Victoria 💙 V JOIN RPN 4 cyl, 1.5L, Auto (CVT), 2WD 🔽 8 cyl, 4.6L, Auto (4), 2WD 🔽 Engine/Transmission CONTACT US **Emissions** Level PZEV / Bin 3 🗸 Bin 5 / LEV II 🗸 RPN is a program of >> Continue amer can Home | Purchasing Guides | Publications | Events | News | Directory | Discussions | Speakers | Job Listings | About RPN | Benefits | Join RPN | Contact

Because Every Pur	chase Matters.		Choo	se a Purchasing Guide [Select One]	
HOME	Single Car Comparison			Methodology Fleet To	
PURCHASING GUIDES	Step 2: Customize your selections f	for each car model	or use the def	fault values below	
PUBLICATIONS					
EVENTS		Toyota Prius		Ford Crown Victoria	
NEWS	Purchase Price	\$24,328.00		\$21,056.00	
MEMBER DIRECTORY DISCUSSION FORUM	Tax Incentives/Price Discount(\$)	0		0	
SPEAKERS & CONSULTANTS	City Fuel Economy (MPG)	<ul> <li>▲ 48</li> <li>▲ 45</li> </ul>		→ 15	
JOB LISTINGS	Hwy. Fuel Economy (MPG)			→ 23	
ABOUT RPN MEMBER BENEFITS	Other Cost Factors	<b>→</b>	15000		
JOIN RPN CONTACT US	Years of Use	$\rightarrow$	5		
	Gasoline Cost	$\rightarrow$	\$2.85		
RPN is a program of New 와스	Discount (%)		→ 4		
dream	Percentage of City Driving		→ 55		
				< Previous ) (>> Continue	

lecause Every Pu	rchase Matters.	Choose a Purchasing Guide [Select One	
HOME	Single Car Comparison		Methodology Fle
PUBLICATIONS	Step 3: Customize these variable	es or use the default values	s below
EVENTS		Toyota Prius	Ford Crown Victoria
NEWS	Resale Value	\$9,495.24	\$2,333.56
DISCUSSION FORUM	Annual Maintenance Costs	\$437.77	\$565.62
SPEAKERS & CONSULTANTS			(<< Previous ) (>> Finish
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Because Every Pu	rchase Matters.			Choose a Purchasing	Guide [Select One]	
HOME PURCHASING GUIDES PUBLICATIONS EVENTS	Single Car Comparison       Methodolog         Step 4: Get Results       Using the inputs provided, this tool calculates the full life-time costs, including capital and operating, of both the hybrid and conventional vehicles and the difference in cost between the two.					
NEWS MEMBER DIRECTORY	Previous Page	Start Over	Print Results	Tell a Friend	Fleet Calculator	
DISCUSSION FORUM	Summary Results:					
SPEAKERS &	Lifetime Emissions Savings from Hybrid					
JOB LISTINGS	Carbon Dioxide				49,552 lbs.	
ABOUT RPN MEMBER BENEFITS JOIN RPN CONTACT US	Carbon Monoxide				881 lbs.	
	Nitrogen Oxide				11 lbs.	
	Particulate Matter			0 gms.		
	Hydrocarbons				15 lbs.	
	Cost Comparison					
	Cumulative Cost of Toy	\$21,106.79				
RPN is a program of new 의소 american dream	Cumulative Cost of Ford Crown Victoria				\$32,471.07	
	Lifetime Savings from Toyota Prius				\$11,364.28	
	Average per-mile savings from Toyota Prius			\$0.15		
	Average annual cost of Toyota Prius			\$4,221.36		
	Average annual cost of Ford Crown Victoria			\$6,494.21		
	Average annual savings from Toyota Prius			\$2,272.86		





Conclusions

## **Climate Neutral Fleet**

- Starts with conservation and efficiency
   Drive less, drive efficiently
- Requires measurement, policy, and monitoring
  - What gets measured gets managed
- Requires responsible purchasing
  - Specify for fuel economy, alt fuels, and life-cycle savings



### How about your own driving?

### Join the Movement to Downshift Your Driving

### http://c3.newdream.org/





# Responsible Purchasing Guide for Light-Duty Vehicles

**Resources and Tools for Reducing GHG Emissions from Fleets** 

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www.ResponsiblePurchasing.org/Purchasing\_Guides/Fleets/



www.ResponsiblePurchasing.org/Calculator/Index.php





www.ResponsiblePurchasing.org/Forum/