

## 2011 Eco-Friendly Taxi Guide

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### Who is this Guide for?

This Guide is for taxi licensees in British Columbia who want to know which 2011 vehicles meet the Board definition of eco-friendly taxi. The Guide can be used to meet a requirement in a Passenger Transportation Licence. It can also be used to find a vehicle with lower fuel costs and reduced emissions.

**CAUTION: Obtain Board approval to operate a taxi before buying, leasing or renting.**











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## A. A Quick Look at Eco-Friendly Taxis

Table 1 lists 2011 vehicle models that are commonly used as a taxi and meet Board criteria for eco-friendly taxi. (Fuel consumption is noted in brackets.) More details about eco-friendly taxis are provided in the remainder of this Guide.

**Table 1: Partial List of 2011 Eco-Friendly Taxis (by vehicle category)**

<b>A</b> <b>Any Vehicle</b> (up to 6.9 litres per 100 km)	<b>B</b> <b>SUV &amp; Full Size</b> (up to 8.0 litres per 100 km)	<b>C</b> <b>Vans &amp; Minivans</b> (up to 10.1 litres per 100 km)
 Toyota Prius (3.8)	 Ford Escape Hybrid (6.1)	 Toyota Sienna (9.1 or 10.0)
 Honda Civic Hybrid (4.5)	 Ford Escape Hybrid 4X4 (6.9)	 Honda Odyssey (9.2) Honda Odyssey Touring (9.7)
 Toyota Camry Hybrid (5.7)	 Honda Accord (7.5 or 7.6)	 KIA Sedona (9.9)
 Toyota Corolla Automatic E4E (6.9)		

## B. Background

The Passenger Transportation Board encourages taxi companies to use taxicabs with low carbon emissions. Eco-friendly taxis are used in many cities and towns in British Columbia because it makes good business sense. In Metro Vancouver and the Capital Regional District, the Board requires the use of eco-friendly taxis when a taxi company expands its taxi fleet. This policy does not apply to wheelchair accessible taxis.

The Board defines eco-friendly taxis. It uses vehicle categories and [fuel consumption ratings](#) from Natural Resources Canada. Eco-friendly taxis include some vehicles that are hybrid, and some that are not.

## C. Policy

See [Operational Policy IV.2](#) to review the Board eco-friendly taxi policy.

## D. Benefits

Eco-friendly taxis are good for the environment and society. Reduced fuel costs are good for drivers, taxi owners and the taxi industry.

## E. CFCR

The Board’s eco-friendly taxi criteria is based on CFCRs. CFCR means “combined fuel consumption rating.” To calculate a vehicle’s CFCR, the Board uses data from Natural Resources Canada. The CFCR is calculated by adding 55% of the vehicle’s city rating and 45% of its highway rating. Table 2 provides an example.

**Table 2: Sample CFCR Calculation**

	Fuel Consumption Rating	Weight	Calculations
Highway	6.5	45%	3.2
City	5.8	55%	2.9
CFCR			6.1 litres per 100 km

## F. Vehicle Classes and Categories

Every vehicle model falls within one of ten vehicle classes identified by Natural Resources Canada (NRC). The Board groups these ten classes into three categories. NRC classes and Board categories are listed in Table 3.

**Table 3: Board Vehicle Categories**

Vehicle Category (PT Board)	A Any Vehicle	B SUV & Full Size	C Vans & Minivans
<b>Vehicle Classes (Natural Resources Canada)</b>	<ul style="list-style-type: none"> <li>• Two-seater car (T)</li> <li>• Subcompact car (S)</li> <li>• Compact Car (C)</li> <li>• Mid-Size Car (M)</li> <li>• Station Wagon (W)</li> <li>• Pickup Truck</li> </ul>	<ul style="list-style-type: none"> <li>• Special Purpose Vehicle (SP or SUV)</li> <li>• Full-Size Car (L)</li> </ul>	<ul style="list-style-type: none"> <li>• Minivan (V)</li> <li>• Large Van (F)</li> </ul>

## G. Eco-Friendly Taxi Criteria

The Board sets criteria for three categories of eco-friendly taxis. That is, it sets a maximum fuel consumption rating for each vehicle category. See Table 4.

**Table 4: Maximum CFCR by Vehicle Category**

Vehicle Category:	A Any Vehicle	B SUV & Full Size	C Vans & Minivans
<b>Maximum CFCR</b>	6.9 litres per 100 km	8.0 litres per 100 km	10.1 litres per 100 km

Some vehicle models have different editions. Each edition may have a different configuration of engine type, engine size and transmission type. These configurations affect the CFCR.

Table 5 shows how one model of vehicle has multiple editions – each one with a different CFCR. It is an example that compares CFCRs for three editions of the Ford Escape. As the Ford Escape is an SUV in Category B, the CFCR must be 8.0 litres per 100 km or less to be an eco-friendly taxi.

**Table 5: Example of CFCRs for Different Vehicle Configurations (2011 Ford Escape)**

<b>Ford Escape Models (2011)</b>	<b>CFCR (litres per 100 km)</b>	<b>Eco-Friendly Taxi?</b>
Hybrid HEV* FWD	6.1	Yes
Hybrid HEV 4X4	6.9	Yes
Non-Hybrid	8.2	No

**Note:** There are more than three editions of the 2011 Ford Escape. Natural Resources Canada provides highway and city fuel consumption information for 9 editions in total. The CFCRs range from 6.1 (HEV FWD) to 14.3 (4X4 FFV). The CFCRs for all 9 editions are shown in the document **Fuel Consumption Ratings for 2011 Vehicles** posted at [http://www.th.gov.bc.ca/ptb/eco\\_friendly.htm](http://www.th.gov.bc.ca/ptb/eco_friendly.htm).

\*HEV means hybrid electric vehicle.

## **H. 2011 Lists of Eco-Friendly Taxis**

The 2011 vehicle models that meet the Board criteria for an eco-friendly taxi (EFT) are listed in Tables 6, 7, and 8. One table is provided for each vehicle category (A, B and C). A legend is set out in Table 9.

For a vehicle to meet the EFT criteria, all vehicle specifications must match the specifications in the list. That is, the vehicle must have the same engine size, number of cylinders, fuel type and transmission.

The information in these lists originates from Natural Resources Canada (NRC). The exception is the CFCR values that the Board calculates from NRC city and highway ratings. ***If there is a discrepancy between NRC data and the data or calculations reprinted in a Passenger Transportation Board document, the NRC data takes precedence.***

Source data and policy information is posted at [http://www.th.gov.bc.ca/ptb/eco\\_friendly.htm](http://www.th.gov.bc.ca/ptb/eco_friendly.htm).

**Table 6: 2011 Eco-Friendly Taxis (Category A)**

<b>Category A -- All Vehicles (CFCR of 6.9 or less)</b>									
<b>Manufacturer</b>	<b>Model</b>	<b>Class</b>	<b>Engine Size</b>	<b>Cylinders</b>	<b>Fuel Type</b>	<b>Transmission / Gears / Overdrive</b>	<b>City (litres per 100 km)</b>	<b>Highway (Litres per 100 km)</b>	<b>CFCR *</b>
<small>Source data from Natural Resources Canada *</small>									
TOYOTA	PRIUS	M	1.8	4	X	V	3.7	4.0	<b>3.8</b>
HONDA	CIVIC HYBRID	C	1.3	4	X	VC	4.7	4.3	<b>4.5</b>
LEXUS	CT 200h	C	1.8	4	X	V	4.5	4.8	<b>4.6</b>
HONDA	INSIGHT DX & LX	C	1.3	4	X	VC	4.8	4.6	<b>4.7</b>
HONDA	INSIGHT EX	C	1.3	4	X	VC	4.8	4.6	<b>4.7</b>
FORD	Fusion HEV	M	2.5	4	X	VE	4.6	5.4	<b>5.0</b>
LINCOLN	MKZ HEV	M	2.5	4	X	VE	4.6	5.4	<b>5.0</b>
HYUNDAI	SONATA HYBRID	M	2.4	4	X	S6E	5.5	4.6	<b>5.1</b>
HONDA	CR-Z	T	1.5	4	X	VC	5.6	5.0	<b>5.3</b>
SMART	ForTwo cabriolet	T	1.0	3	Z	S5	5.9	4.8	<b>5.4</b>
SMART	ForTwo coupe	T	1.0	3	Z	S5	5.9	4.8	<b>5.4</b>
TOYOTA	CAMRY HYBRID	M	2.4	4	X	V	5.7	5.7	<b>5.7</b>
LEXUS	HS 250h	C	2.4	4	X	V	5.6	5.9	<b>5.7</b>
NISSAN	ALTIMA HYBRID	M	2.5	4	X	VE	5.6	5.9	<b>5.7</b>
VOLKSWAGEN	GOLF TDI CLEAN DIESEL	C	2.0	4	D	M6+	6.7	4.6	<b>5.8</b>
VOLKSWAGEN	GOLF WAGON TDI CLEAN DIESEL	W	2.0	4	D	M6+	6.7	4.6	<b>5.8</b>
VOLKSWAGEN	JETTA TDI CLEAN DIESEL	C	2.0	4	D	M6+	6.7	4.6	<b>5.8</b>
AUDI	A3 TDI CLEAN DIESEL	W	2.0	4	D	S6+	6.7	4.7	<b>5.8</b>
VOLKSWAGEN	GOLF TDI CLEAN DIESEL	C	2.0	4	D	S6+	6.7	4.7	<b>5.8</b>
VOLKSWAGEN	JETTA TDI CLEAN DIESEL	C	2.0	4	D	S6+	6.7	4.7	<b>5.8</b>
FORD	FIESTA SFE	S	1.6	4	X	A6+	6.8	4.9	<b>5.9</b>
HYUNDAI	ELANTRA	M	1.8	4	X	M6+	6.8	4.9	<b>5.9</b>
HONDA	CR-Z	T	1.5	4	X	M6+	6.5	5.3	<b>6.0</b>
HYUNDAI	ELANTRA	M	1.8	4	X	S6E	6.9	4.9	<b>6.0</b>
CHEVROLET	CRUZE ECO	M	1.4	4	X	M6+	7.2	4.6	<b>6.0</b>
VOLKSWAGEN	GOLF WAGON TDI CLEAN DIESEL	W	2.0	4	D	S6+	7.0	4.9	<b>6.1</b>
FORD	FIESTA	S	1.6	4	X	A6+	6.9	5.1	<b>6.1</b>
FORD	Escape HEV FWD	SP	2.5	4	X	VE	5.8	6.5	<b>6.1</b>
MINI	Cooper	S	1.6	4	Z	M6+	6.8	5.3	<b>6.1</b>
TOYOTA	YARIS	S	1.5	4	X	M5+	6.9	5.4	<b>6.2</b>

<b>Category A -- All Vehicles (CFCR of 6.9 or less)</b>										
<b>Manufacturer</b>	<b>Model</b>	<b>Class</b>	<b>Engine Size</b>	<b>Cylinders</b>	<b>Fuel Type</b>	<b>Transmission / Gears / Overdrive</b>	<b>City (litres per 100 km)</b>	<b>Highway (Litres per 100 km)</b>	<b>CFCR *</b>	
Source data from Natural Resources Canada *										
MAZDA	MAZDA2	C	1.5	4	X	M5+	6.8	5.6	<b>6.3</b>	
FORD	FIESTA	S	1.6	4	X	M5+	7.1	5.3	<b>6.3</b>	
HONDA	FIT	W	1.5	4	X	E5E	7.1	5.4	<b>6.3</b>	
TOYOTA	YARIS	S	1.5	4	X	E4E	7.0	5.7	<b>6.4</b>	
MINI	Cooper	S	1.6	4	Z	E6+	7.3	5.4	<b>6.4</b>	
HONDA	FIT	W	1.5	4	X	M5+	7.1	5.7	<b>6.5</b>	
HONDA	CIVIC	S	1.8	4	X	M5+	7.4	5.4	<b>6.5</b>	
KIA	RIO	C	1.6	4	X	M5+	7.1	5.8	<b>6.5</b>	
NISSAN	VERSA	M	1.8	4	X	VE	7.2	5.7	<b>6.5</b>	
MINI	Cooper Clubman	S	1.6	4	Z	M6+	7.3	5.6	<b>6.5</b>	
MINI	Cooper Convertible	S	1.6	4	Z	M6+	7.3	5.6	<b>6.5</b>	
MINI	Cooper Countryman	C	1.6	4	Z	M6+	7.3	5.6	<b>6.5</b>	
HYUNDAI	ACCENT	C	1.6	4	X	M5+	7.3	5.7	<b>6.6</b>	
CHEVROLET	CRUZE ECO	M	1.4	4	X	S6E	7.8	5.1	<b>6.6</b>	
TOYOTA	COROLLA	C	1.8	4	X	M5+	7.4	5.6	<b>6.6</b>	
HYUNDAI	ACCENT	C	1.6	4	X	A4E	7.6	5.5	<b>6.7</b>	
KIA	RIO	C	1.6	4	X	A4E	7.6	5.5	<b>6.7</b>	
MINI	Cooper Clubman	S	1.6	4	Z	E6+	7.6	5.6	<b>6.7</b>	
MINI	Cooper Convertible	S	1.6	4	Z	E6+	7.6	5.6	<b>6.7</b>	
CHEVROLET	CRUZE	C	1.8	4	X	M6+	7.8	5.4	<b>6.7</b>	
SCION	xD	S	1.8	4	X	M5+	7.4	5.9	<b>6.7</b>	
CHEVROLET	AVEO	C	1.6	4	X	M5+	7.6	5.7	<b>6.7</b>	
CHEVROLET	AVEO 5	S	1.6	4	X	M5+	7.6	5.7	<b>6.7</b>	
NISSAN	SENTRA	M	2.0	4	X	VE	7.6	5.7	<b>6.7</b>	
MINI	Cooper S	S	1.6	4	Z	M6+	7.7	5.6	<b>6.8</b>	
MINI	Cooper S Clubman	S	1.6	4	Z	M6+	7.7	5.6	<b>6.8</b>	
MINI	Cooper S Convertible	S	1.6	4	Z	M6+	7.7	5.6	<b>6.8</b>	
MINI	John Cooper Works	S	1.6	4	Z	M6+	7.7	5.6	<b>6.8</b>	
MINI	John Cooper Works Clubman	S	1.6	4	Z	M6+	7.7	5.6	<b>6.8</b>	
MINI	John Cooper Works Convert	S	1.6	4	Z	M6+	7.7	5.6	<b>6.8</b>	
NISSAN	JUKE FWD	W	1.6	4	Z	VE	7.3	6.1	<b>6.8</b>	

Category A -- All Vehicles (CFCR of 6.9 or less)										
Manufacturer	Model	Class	Engine Size	Cylinders	Fuel Type	Transmission / Gears / Overdrive	City (litres per 100 km)	Highway (Litres per 100 km)	CFCR *	
<u>Source data from Natural Resources Canada *</u>										
MAZDA	MAZDA2	C	1.5	4	X	E4+	7.5	6.0	<b>6.8</b>	
SCION	xD	S	1.8	4	X	E4E	7.6	5.9	<b>6.8</b>	
NISSAN	VERSA	M	1.6	4	X	M5+	7.7	5.8	<b>6.8</b>	
TOYOTA	COROLLA	C	1.8	4	X	E4E	7.8	5.7	<b>6.9</b>	
SUZUKI	Swift+	S	1.6	4	X	M5+	7.9	5.7	<b>6.9</b>	
FORD	ESCAPE HEV 4X4	SP	2.5	4	X	VE	6.6	7.3	<b>6.9</b>	
TOYOTA	HIGHLANER HYBRID 4WD	SP	3.5	6	X	V	6.6	7.3	<b>6.9</b>	
FORD	FOCUS	C	2.0	4	X	M5+	8.0	5.6	<b>6.9</b>	
KIA	FORTE	C	2.0	4	X	S6E	8.0	5.6	<b>6.9</b>	
KIA	FORTE KOUP	C	2.0	4	X	S6E	8.0	5.6	<b>6.9</b>	
LEXUS	RX 450h AWD	SP	3.5	6	Z	S6E	6.7	7.2	<b>6.9</b>	

\* CFCR is calculated by the Passenger Transportation Board with data from Natural Resources Canada

**Table 7: 2011 Eco-Friendly Taxis (Category B)**

Category B -- SUVs & Full-Size Vehicles (CFCR of 8.0 or less)										
Manufacturer	Model	Class	Engine Size	Cylinders	Fuel Type	Transmission / Gears / Overdrive	City (litres per 100 km)	Highway (Litres per 100 km)	CFCR *	
Source data from Natural Resources Canada *										
FORD	Escape HEV FWD	SP	2.5	4	X	VE	5.8	6.5	6.1	
FORD	ESCAPE HEV 4X4	SP	2.5	4	X	VE	6.6	7.3	6.9	
TOYOTA	HIGHLANER HYBRID 4WD	SP	3.5	6	X	V	6.6	7.3	6.9	
LEXUS	RX 450h AWD	SP	3.5	6	Z	S6E	6.7	7.2	6.9	
HYUNDAI	SONATA	L	2.4	4	X	M6+	8.7	5.7	7.4	
HONDA	ACCORD 4DR SEDAN	L	2.4	4	X	M5+	8.8	5.8	7.5	
HONDA	ACCORD 4DR SEDAN	L	2.4	4	X	E5E	9.0	5.8	7.6	
MITSUBISHI	RVR	SP	2.0	4	X	V+	8.4	6.6	7.6	
MITSUBISHI	RVR 4WD	SP	2.0	4	X	V+	8.4	6.6	7.6	
MITSUBISHI	RVR	SP	2.0	4	X	M5+	8.7	6.4	7.7	
HYUNDAI	SONATA	L	2.4	4	X	S6E	9.4	5.7	7.7	
CHEVROLET	EQUINOX FWD	SP	2.4	4	X	E6E	9.2	6.1	7.8	
GMC	TERRAIN FWD	SP	2.4	4	X	E6E	9.2	6.1	7.8	
HYUNDAI	SONATA	L	2.0	4	X	S6E	9.3	6.0	7.8	
CHEVROLET	HHR FWD	SP	2.2	4	X	M5+	9.2	6.2	7.9	
CHEVROLET	HHR PANEL FWD	SP	2.2	4	X	M5+	9.2	6.2	7.9	
HYUNDAI	TUCSON 2WD	SP	2.0	4	X	S6E	9.1	6.5	7.9	

\* CFCR is calculated by the Passenger Transportation Board with data from Natural Resources Canada

**Table 8: 2011 Eco-Friendly Taxis (Category C)**

Category C -- Vans & Minivans (CFCR of 10.1 or less)										
Manufacturer	Model	Class	Engine Size	Cylinders	Fuel Type	Transmission / Gears / Overdrive	City (litres per 100 km)	Highway (Litres per 100 km)	CFCR *	
Source data from Natural Resources Canada *										
TOYOTA	SIENNA	V	2.7	4	X	S6E	10.4	7.5	9.1	
HONDA	ODYSSEY TOURING	V	3.5	6	X	E6E	10.9	7.1	9.2	
HONDA	ODYSSEY	V	3.5	6	X	E5E	11.7	7.2	9.7	
KIA	SEDONA	V	3.5	6	X	S6E	11.5	8.0	9.9	
TOYOTA	SIENNA	V	3.5	6	X	S6E	11.5	8.1	10.0	

\* CFCR is calculated by the Passenger Transportation Board with data from Natural Resources Canada

**Table 9: Legend**

**Legend**

**CLASS**

C = compact  
 L = full size  
 M = mid size  
 S = subcompact

SP = special purpose vehicle or SUV  
 T = two seater  
 V = van  
 W = station wagon

**FUEL TYPE**

D = diesel  
 X = regular unleaded gasoline

Z = premium unleaded gasoline

**TRANSMISSION TYPE & No. Of GEARS**

A4E = automatic 4 speed electronic overdrive  
 A6+ = automatic 6 speed overdrive  
 E4 = electronic automatic 4 speed  
 E4E = electronic automatic 4 speed electronic overdrive  
 M = manual  
 M5+ = manual 5 speed overdrive  
 M6+ = manual 6 speed overdrive  
 S5 = automatic with a manual mode 5 speed  
 S6+ = automatic with a manual mode 6 speed overdrive  
 S6E = automatic with a manual mode 6 speed electronic overdrive

V = variable  
 VC = continuously variable  
 VE = variable electronic overdrive