

A white Smart car with green accents is parked outdoors. The car is a two-seater model, and a person is visible in the driver's seat. The background shows trees and a paved area.

TEST DRIVE REPORT SMART ELECTRIC DRIVE 2013

**MADE BY
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Québec, 2013-04-11

version 1.03

Introduction

Hello everyone who reading this report! Let me introduce myself, my name is Denys, a french quebecer and by the time I'm writing this, I have 41 years old. I got my drivers license in 1987 so it's easy to figure for how many years I drove cars (without including father and brothers cars I drove before I was 16, chutttt!!).

Before getting a nice and serious work, I worked in many jobs, especially many related to cars. For example, worked for delivering pizza's, mail, valet parking or driving a taxi for many years! Also, installing radio in car, doing almost all of my own mechanics even selling cars.. I was also test drivers for Toyota and Hyundai! Mention that taking Solo1 on a track or driving a Formula 1600! Read tons of books and magazine about cars, I think that my knowledge of cars is higher than usual.

My interest in electric cars is back to 1995 when gasoline start to goes higher. Being annoyed of changing oil, noise of the motors, the muffler, cost of gasoline and etc, makes me following very closely electric cars development. Later came the EV1! What a disaster when GM destroyed all of this. Couples year later, Tesla with the amazing roadster hit the road! Wow finally! And this is the big launching of the electric race cars.

So this is it, in 2013, when Montréal Auto show let people to drive electric cars, was the most infatuation event for that kind of cars. I was a chance to drive 3 different models, Smart Fortwo Electric Drive, Mitsubishi I-MIEV and Nissan Leaf. During the auto show, a visit of Smart kiosk let me decided now, I want one! Back in Québec city, more precisely Mercedes Châtel Auto, M. Gibeault tell me that is possible to test the Smart Electric for 24 hours. I was taken this opportunity twice! In the report, I'll show you my second try with all the details I can provide the best I can.

Divided in 9 different runs and trying 5 different charging station, you'll find among those pages all the result you need to make a right decision about buying one at your local dealer.








Enough talking, let see what the test drive result....

Have a nice reading.....

N.B. All of those test was made in Québec city, Canada

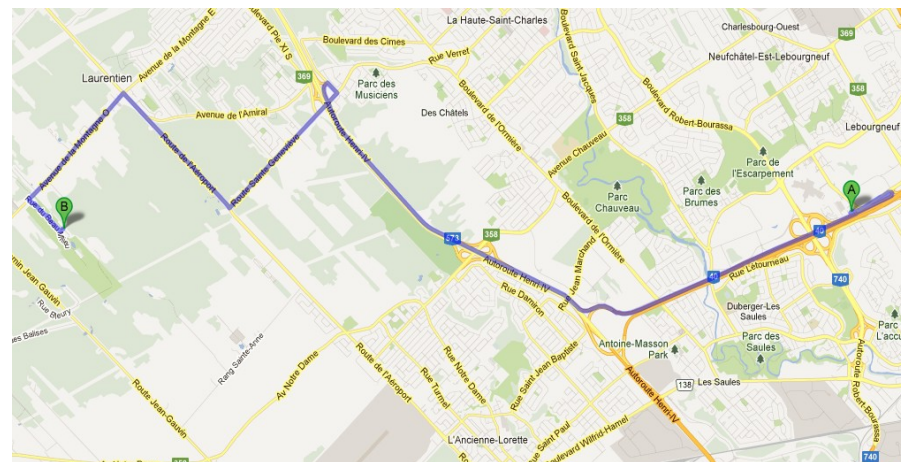
Trip #1








3 / 20

DEPARTURE		Mercedes-Benz de Québec, 1350 rue Bouvier, Québec, QC G2K 1N8				
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-28	17:02	1589 km	98%	6 °C	Cloudy	10%

NOTES :
Take the car at 98% of battery!! 3 km not appear in the log book.

NOTES DURING THE TRIP
Using radio only and not stuck on traffic. Try a couples of kick down (4).










ARRIVAL		1194 des Bourgeons, Québec, QC, G3K 1W5				
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-28	17:34	1607 km	81%	6 °C	Cloudy	61%

NOTES :
• 18 km driven
• 17 % battery consumed

CHARGING STATION	
Brand and name	N/A
(120v / 240v)	
Time used	
% battery gained	

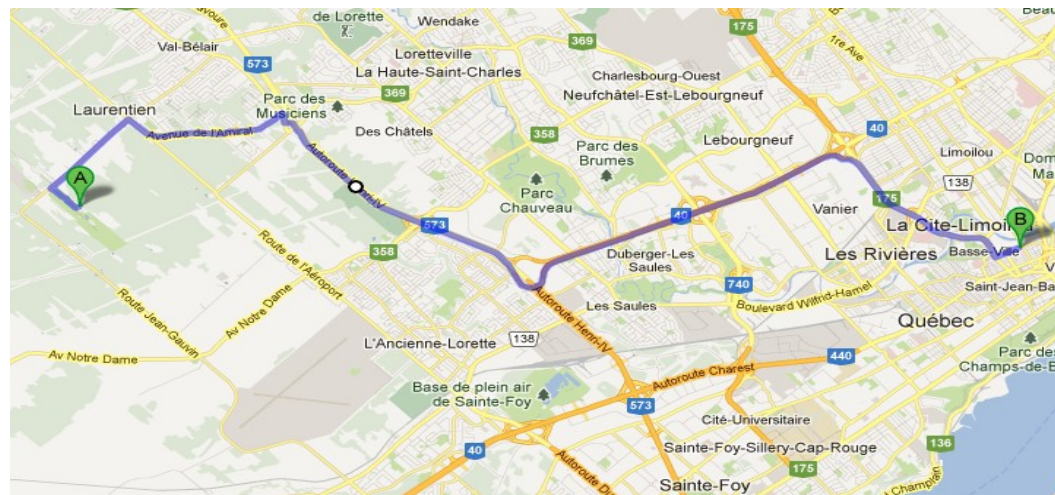
Trip #2








4 / 20

DEPARTURE		1194 des Bourgeons, Québec, QC, G3K 1W5				
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-28	19:36	1607 km	81%	5 °C	Cloudy	61%

NOTES :
Small amount of rain mostly at the arrival.

NOTES DURING THE TRIP
Using radio, headlight and heater with no traffic. Only one kick down and the rain start in the middle of the trip but intensify at the end.










ARRIVAL		230 Rue Du Pont Québec QC G1K 6L5				
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-28	20:08	1629 km	59%	5 °C	Cloudy and rain	71%

NOTES :
• 22 km driven
• 22 % battery consumed

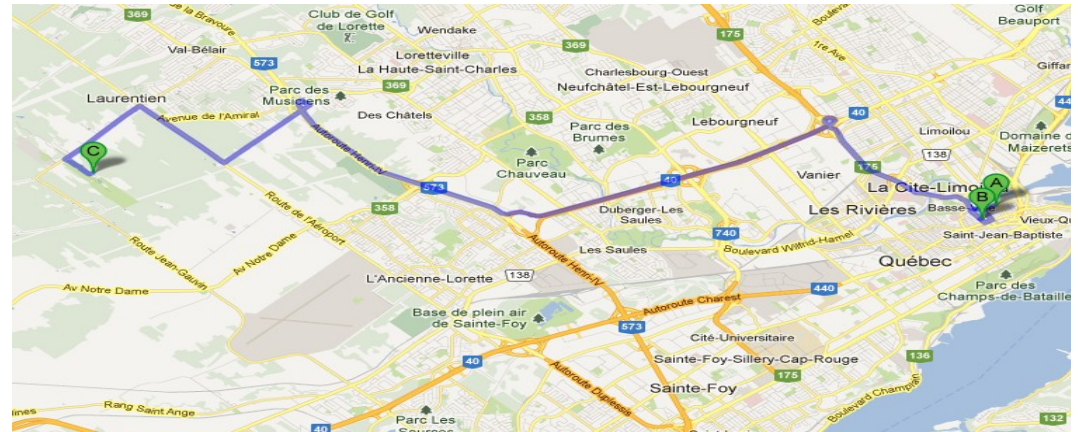
CHARGING STATION	
Brand and name	N/A
(120v / 240v)	
Time used	
% battery gained	








Trip #3

5 / 20

DEPARTURE		230 Rue Du Pont Québec QC G1K 6L5					NOTES :
							
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%	
2013-03-28	22:40	1629 km	59%	5 °C	Cloudy	71%	

NOTES DURING THE TRIP
Using radio, heater , headlight and not stuck on trafic. We're two passengers.. 4 kick downs...
Make a stop of 32 minutes for drinking a pint of beer!!!
A) 230 Rue Du Pont Québec QC G1K 6L5 B) 380 Rue Dorchester Quebec City, QC G1K 6A7 C) 1194 des Bourgeons, Québec, QC, G3K 1W5










ARRIVAL		1194 des Bourgeons, Québec, QC, G3K 1W5					NOTES :
							
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%	
2013-03-28	23:42	1654 km	21%	3 °C	Cloudy	72%	<ul style="list-style-type: none"> • 25 km driven • 21% battery consumed • 2 passengers for trip from point B to C

CHARGING STATION	
Brand and name	Smart OEM charger
(120v / 240v)	120v
Time used	9 hours and 29 minutes
% battery gained	40%

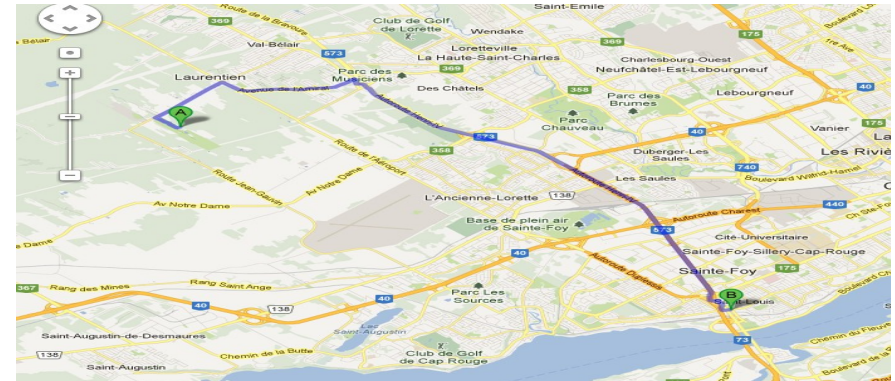









Trip #4

6 / 20

DEPARTURE		1194 des Bourgeons, Québec, QC, G3K 1W5				NOTES :
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-29	09:37	1654 km	61%	7 °C	Clear sky	50%

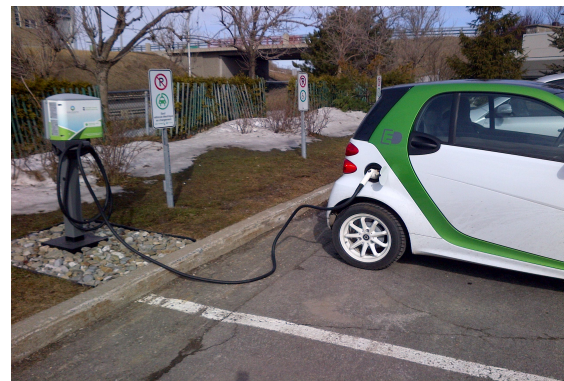
NOTES DURING THE TRIP
Using radio only and not stuck on traffic. Not so easy to climb little hill on road 73 south.



ARRIVAL		Hotel Sepia, 3135 Chemin Saint Louis, Québec, QC, G1W 1R9				NOTES :
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-29	10:10	1673 km	45%	8 °C	Clear sky	90%








- 19 km driven
- 16% battery consumed
- FREE charge

CHARGING STATION	
Brand and name	Clipper Creek CS-90, SunCountry Highway
(120v / 240v)	240v
Time used	40 minutes
% battery gained	12%

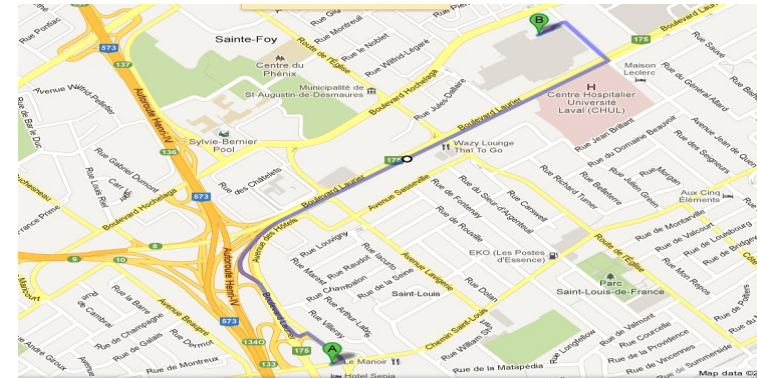









Trip #5

7 / 20

DEPARTURE		Hotel Sepia, 3135 Chemin Saint Louis, Québec, QC, G1W 1R9				NOTES :
 Date	 Time	 Mileage (km)	 Battery %	 Outdoor °C	 Weather	 Eco drive%
2013-03-29	10:50	1673 km	57%	8 °C	Clear sky	90%

NOTES DURING THE TRIP
Very small trip from the hotel to the mall. Using only road no highway and only radio.










ARRIVAL		2700 Boulevard Laurier Sainte-Foy, QC G1V 4J9				NOTES :
 Date	 Time	 Mileage (km)	 Battery %	 Outdoor °C	 Weather	 Eco drive%
2013-03-29	11:01	1677 km	53%	8 °C	Clear sky	91%

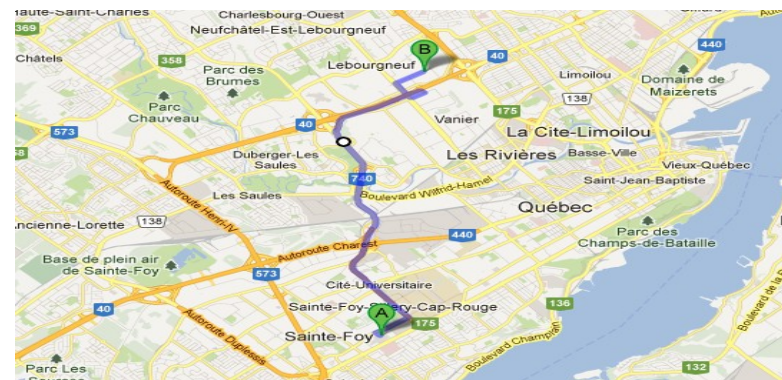
- 4 km driven
- 4% battery consumed
- FREE charge for now








CHARGING STATION	
Brand and name	AddEnergie
(120v / 240v)	240v
Time used	1 hour
% battery gained	16%



DEPARTURE		2700 Boulevard Laurier Sainte-Foy, QC G1V 4J9				NOTES :
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-29	12:04	1677 km	69%	9 °C	Clear sky	91%

NOTES DURING THE TRIP
Nothing particular. Using radio and 2 passengers. No traffic jam but the highest speed was only 90 km/h because of road repair.



ARRIVAL		Nedco, 625 des Rocailles, Quebec City, QC G2J 1A9				NOTES :
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-29	11:01	1688 km	62%	9 °C	Clear sky	93%








- 11 km driven
- 7% battery consumed
- FREE charge, this charging station is a compliment of Nedco

CHARGING STATION	
Brand and name	Schneider
(120v / 240v)	240v
Time used	1:20
% battery gained	12%

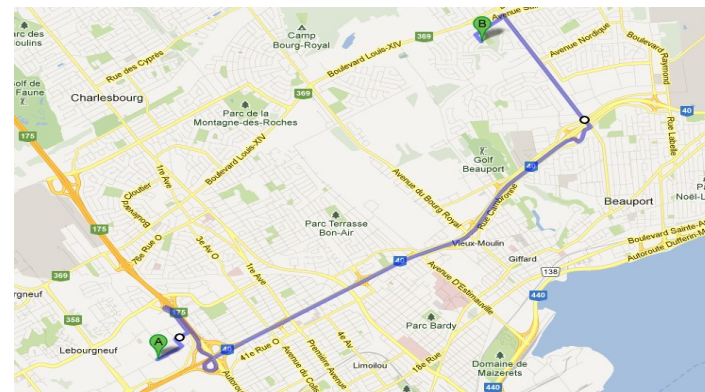









Trip #7

9 / 20

DEPARTURE		Nedco, 625 des Rocailles, Quebec City, QC G2J 1A9				NOTES :
 Date	 Time	 Mileage (km)	 Battery %	 Outdoor °C	 Weather	 Eco drive%
2013-03-29	13:31	1688 km	84%	9 °C	Clear sky	93%

NOTES DURING THE TRIP
Using radio and 2 passengers..



ARRIVAL		557 rue Montois, Québec City, QC, G1C 7K1				NOTES :
 Date	 Time	 Mileage (km)	 Battery %	 Outdoor °C	 Weather	 Eco drive%
2013-03-29	13:50	1700 km	74%	9 °C	Clear sky	93%








- 12km driven
- 10% battery consumed
- FREE charge, this residential charging station is own by my cousin who have an I-MIEV.

CHARGING STATION	
Brand and name	Eaton
(120v / 240v)	240v
Time used	1 hour
% battery gained	17%

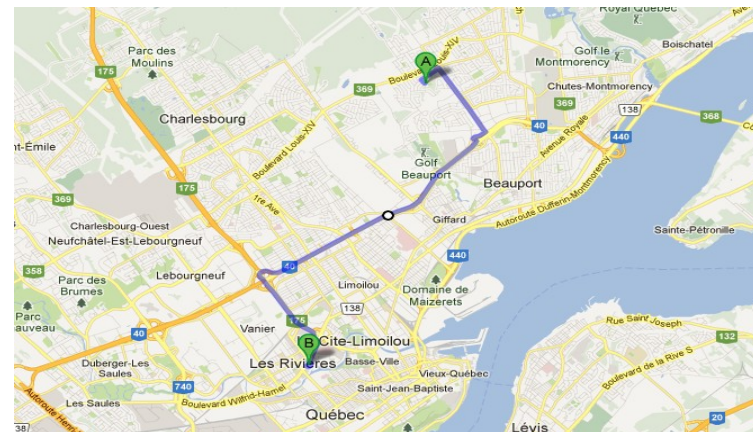









Trip #8

10 / 20

DEPARTURE		557 rue Montois, Québec City, QC, G1C 7K1				NOTES :
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-29	15:10	1700 km	91%	9 °C	Clear sky	93%

NOTES DURING THE TRIP
Using radio, heater and 2 passengers.. Many kick down.. Mostly running on highway.










ARRIVAL		St-Hubert – Hamel, 605 Boulevard Wilfrid-Hamel, Québec, QC, G1M 2T4				NOTES :
						
Date	Time	Mileage (km)	Battery %	Outdoor °C	Weather	Eco drive%
2013-03-29	15:25	1714 km	80%	9 °C	Clear sky	78%

- 14km driven
- 11% battery consumed
- 2,50\$ for one charge no matter of using time.

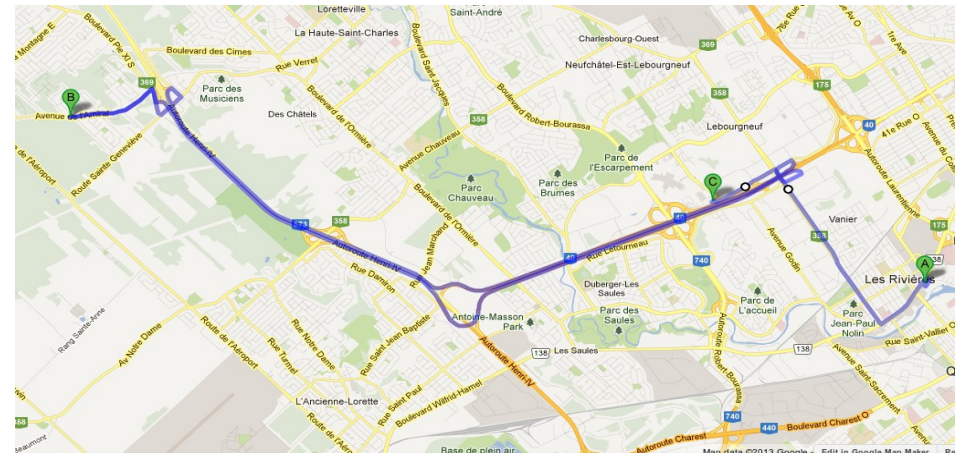
CHARGING STATION	
Brand and name	AddÉnergie (le circuit électrique)
(120v / 240v)	240v
Time used	1:20
% battery gained	20%










DEPARTURE						
St-Hubert – Hamel, 605 Boulevard Wilfrid-Hamel, Québec, QC, G1M 2T4						
 Date	 Time	 Mileage (km)	 Battery %	 Outdoor °C	 Weather	 Eco drive%
2013-03-29	16:50	1714 km	100%	10 °C	Clear sky	78%

NOTES :Don't know exactly when the charging station stop, when we left, the light says « on charge » but the battery was full.

NOTES DURING THE TRIP
Using radio, heater, reaching top speed (130 km/h) many times, trying to drain the most as I can the battery. We're 2 passengers I did many kick down. Mostly running on highway.
A) St-Hubert – Hamel, 605 Boulevard Wilfrid-Hamel, Québec, QC, G1M 2T4
B) Boucherie Rolaine, 1410 Av de l'Amiral Val-Belair, QC G3K 1G2
C) Mercedes-Benz de Québec, 1350 rue Bouvier, Québec, QC G2K 1N8



ARRIVAL						
Mercedes-Benz de Québec, 1350 rue Bouvier, Québec, QC G2K 1N8						
 Date	 Time	 Mileage (km)	 Battery %	 Outdoor °C	 Weather	 Eco drive%
2013-03-29	15:25	1746 km	63%	9 °C	Clear sky	57%

NOTES :
 • 32km driven
 • 37% battery consumed
 •

CHARGING STATION	
Brand and name	Bosch (KeContact P20 Type 2)
(120v / 240v)	240v
Time used	
% battery gained	

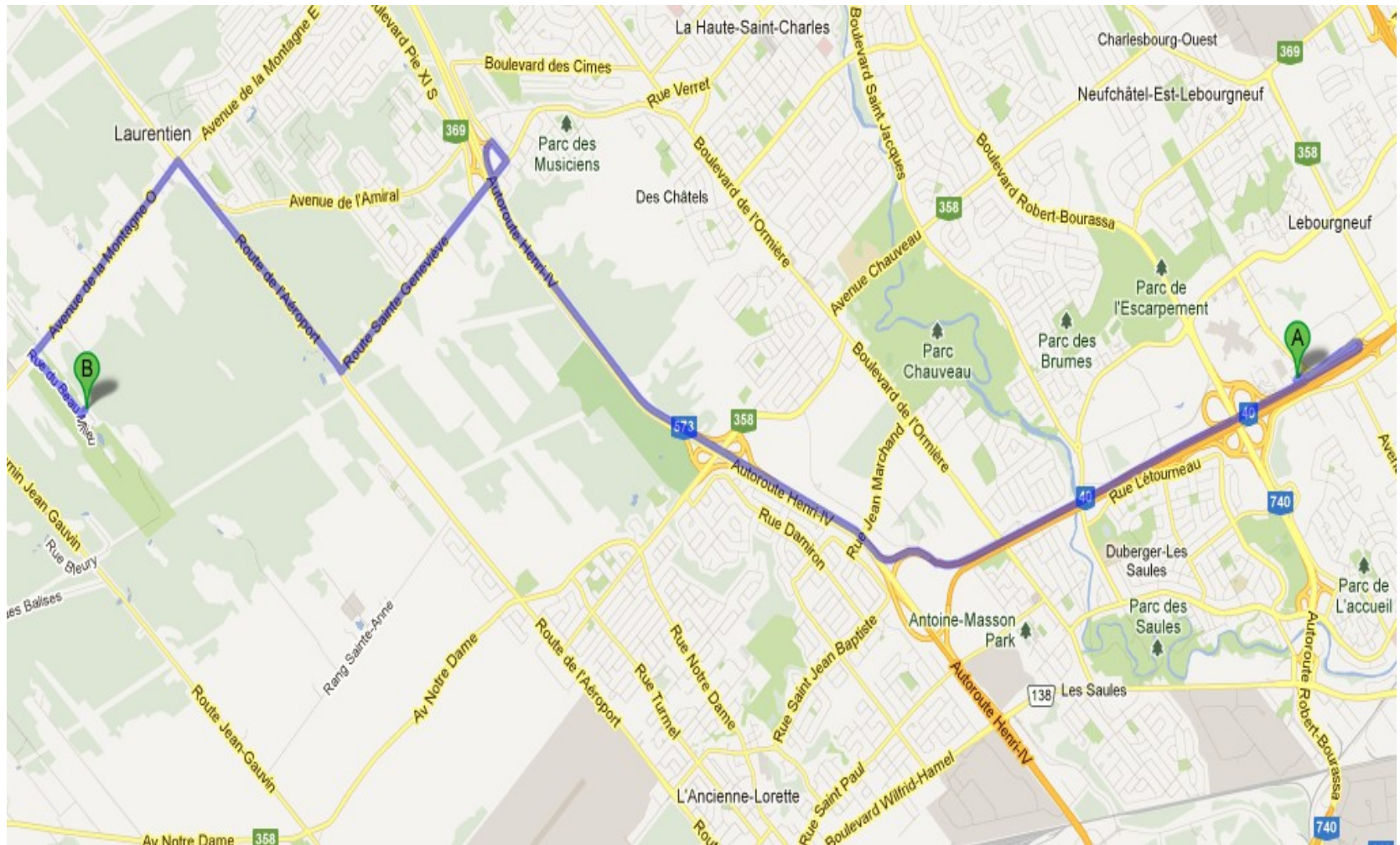
This is the Smart charging station at local dealer

KeContact P20 Type 2



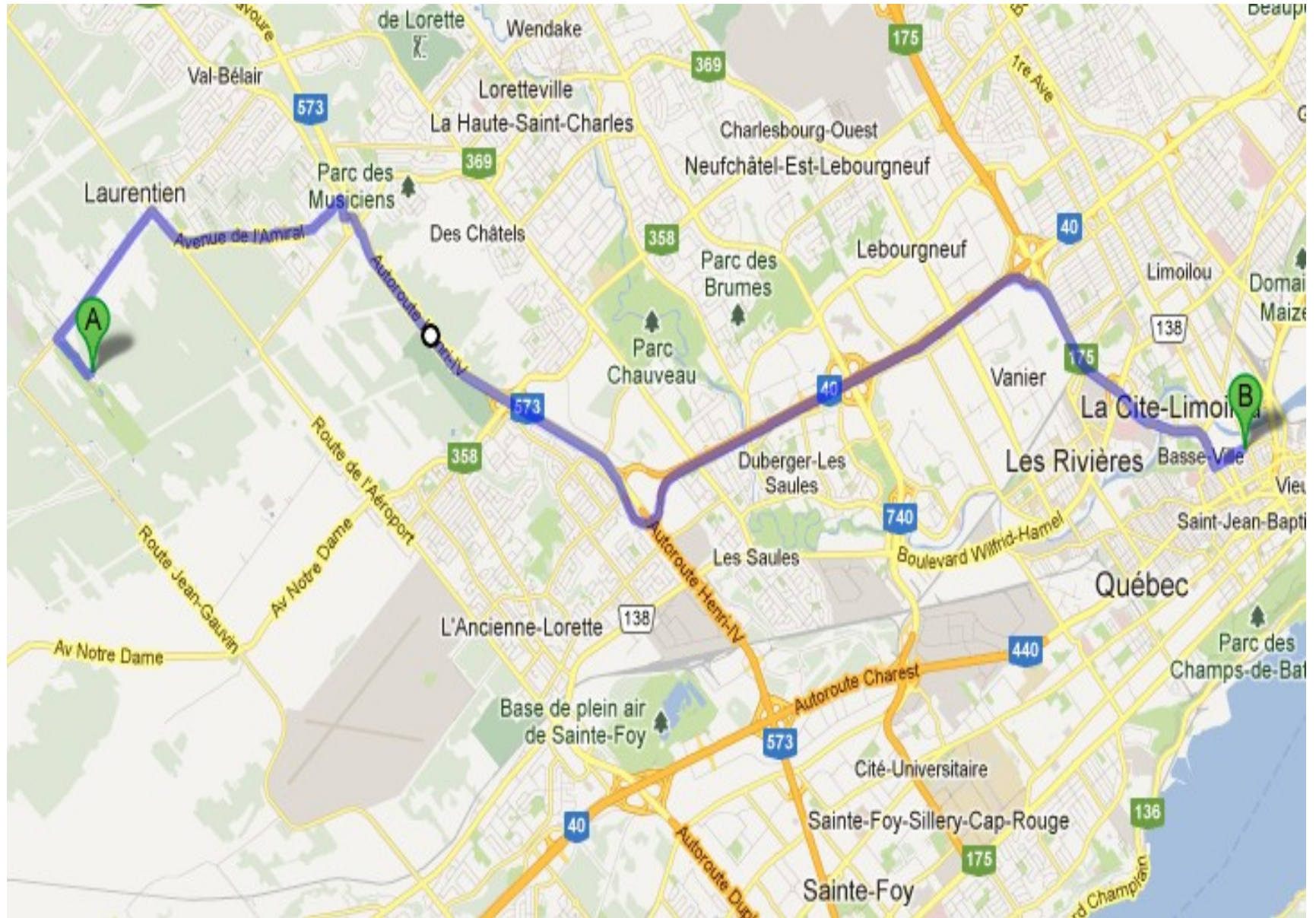
APPENDICES

Trip #1



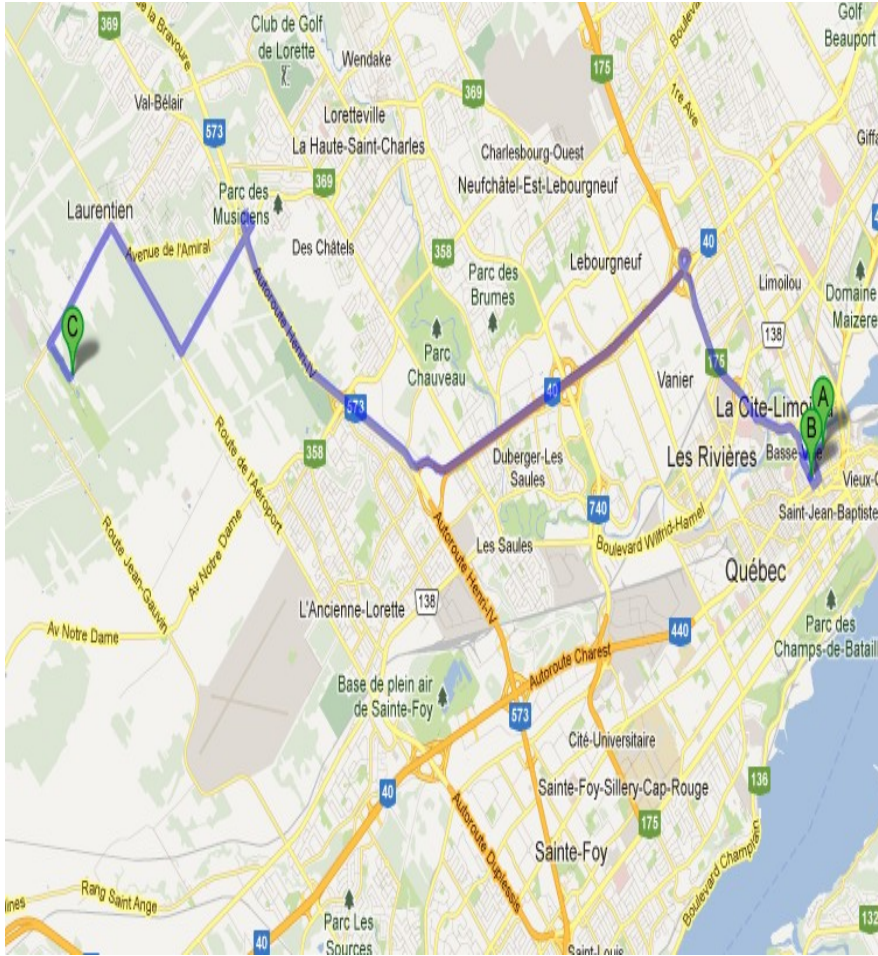
FROM (A) : Mercedes-Benz de Québec, 1350 rue Bouvier, Québec, QC G2K 1N8
TO (B) : 1194 des Bourgeons, Québec, QC, G3K 1W5

Trip #2



FROM (A) : 1194 des Bourgeons, Québec, QC, G3K 1W5
TO (B) : 230 Rue Du Pont Québec QC G1K 6L5

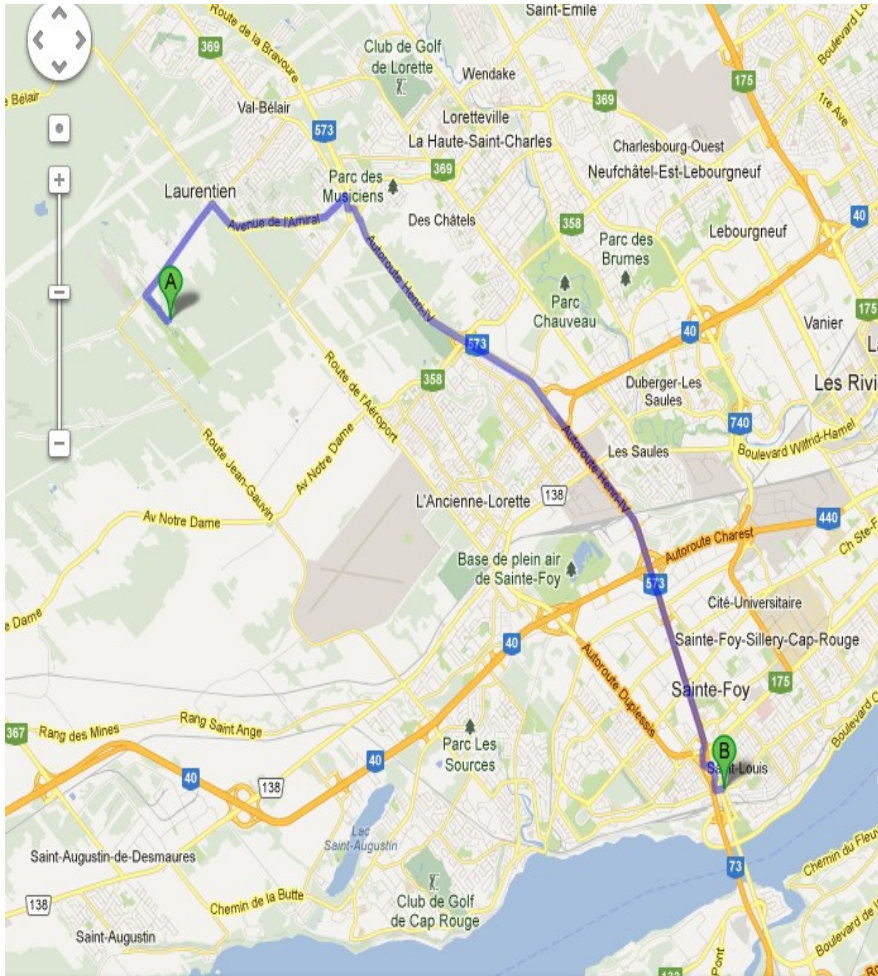
Trip #3



FROM (A) : 230 Rue Du Pont Québec QC G1K 6L5
STOP (B) : 380 Rue Dorchester Québec City, QC G1K 6A7
TO (C) : 1194 des Bourgeons, Québec, QC, G3K 1W5



Trip #4

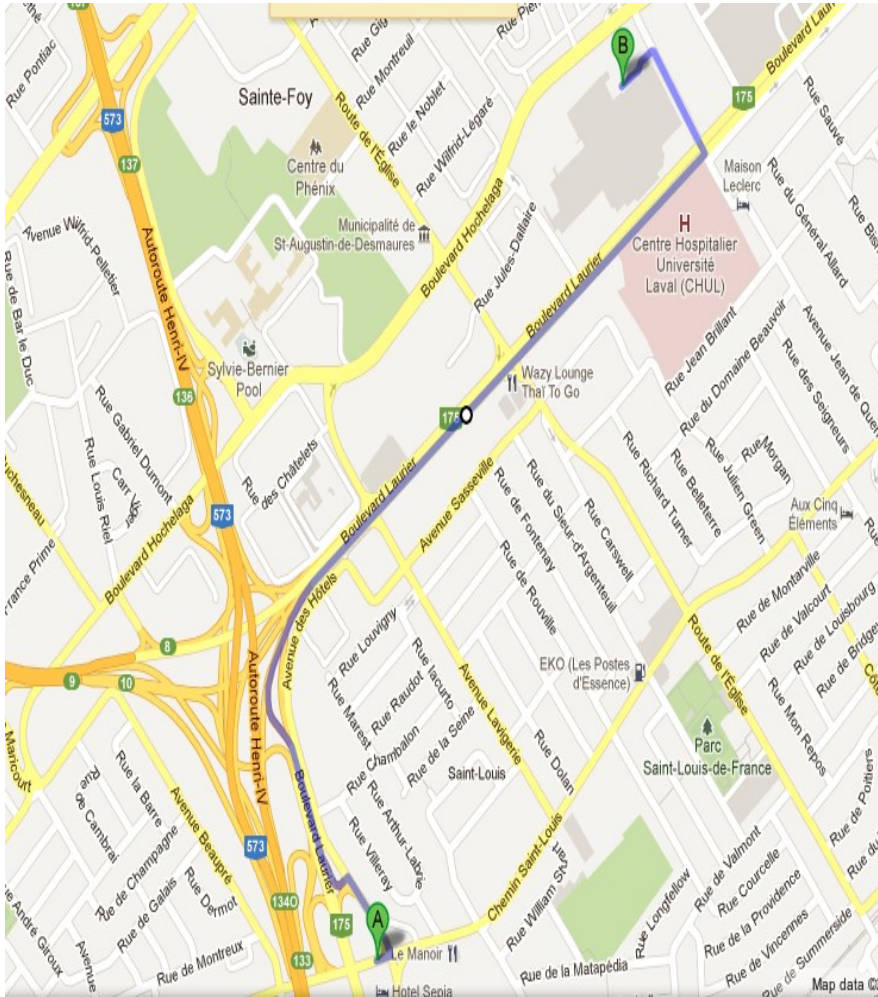


FROM (A) : 1194 des Bourgeons, Québec, QC, G3K 1W5
TO (B) : Hotel Sepia, 3135 Chemin Saint Louis, Québec, QC, G1W 1R9

<https://suncountryhighway.ca/>



Trip #5

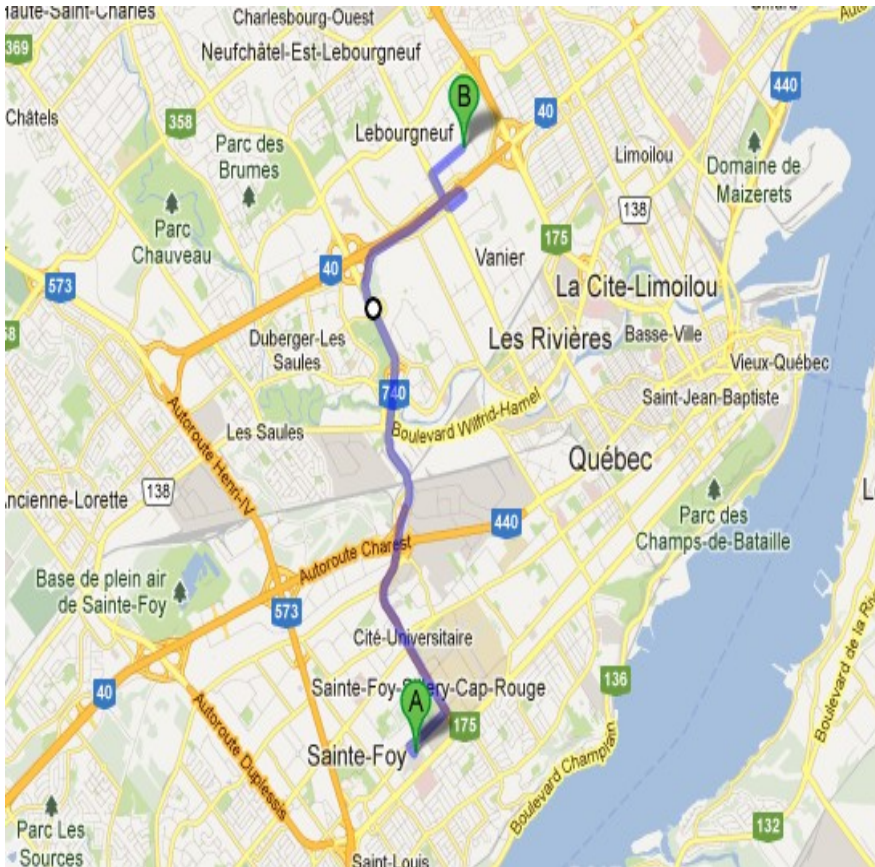


FROM (A) : Hotel Sepia, 3135 Chemin Saint Louis, Québec, QC, G1W 1R
TO (B) : 2700 Boulevard Laurier Sainte-Foy, QC G1V 4J9

<http://www.addenergietechnologies.com/>



Trip #6

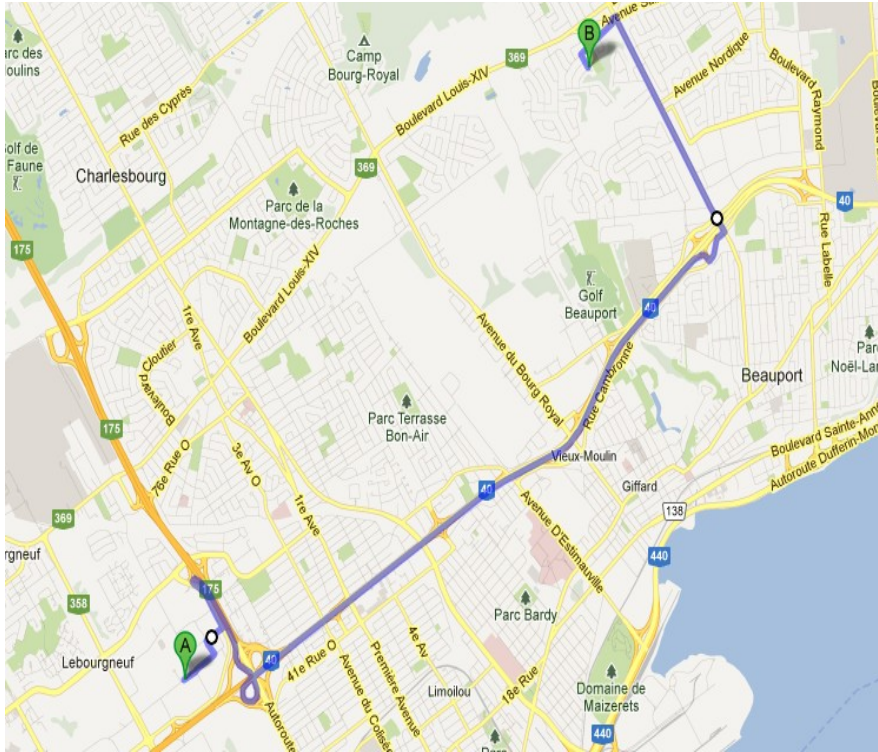


FROM (A) : 2700 Boulevard Laurier Sainte-Foy, QC G1V 4J9
TO (B) : Nedco, 625 des Rocailles, Quebec City, QC G2J 1A9

http://www.schneider-electric.ca/sites/canada/en/products-services/electrical-distribution/products-offer/range-presentation.page?c_filepath=/templatedata/Offer_Presentation/3_Range_Datasheet/data/en/local/electrical_distribution/level_ii_outdoor_electric_vehicle_charging_solutions.xml&p_function_id=20030&p_family_id=30164&p_range_id=61152&f=F13:Electrical%20Distribution~!NNM1:Electric+Vehicle+Charging+Solutions~!NNM2:Charging+Solutions~!NNM3:Level+II+Outdoor+Electric+Vehicle+Charging+Solutions



Trip #7

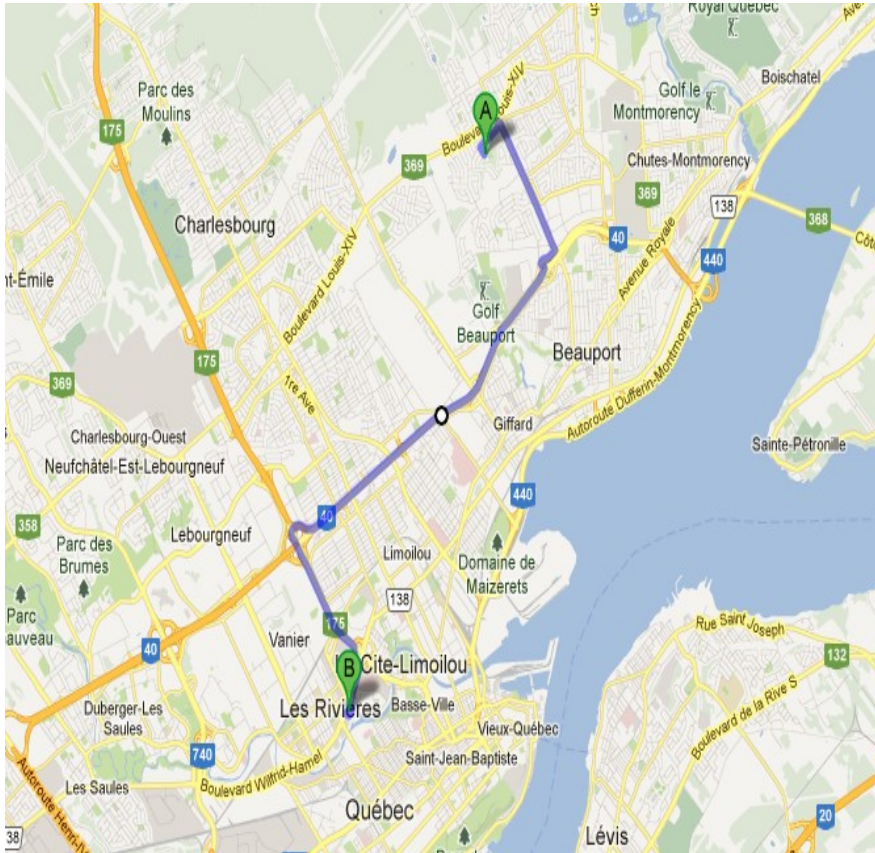


FROM :Nedco, 625 des Rocailles, Quebec City, QC G2J 1A9
TO :557 rue Montois, Beauport City, QC, G1C 7K1

<http://eatoncanada.ca/ResidentialProducts/ElectricVehicleChargingSolutions/>



Trip #8



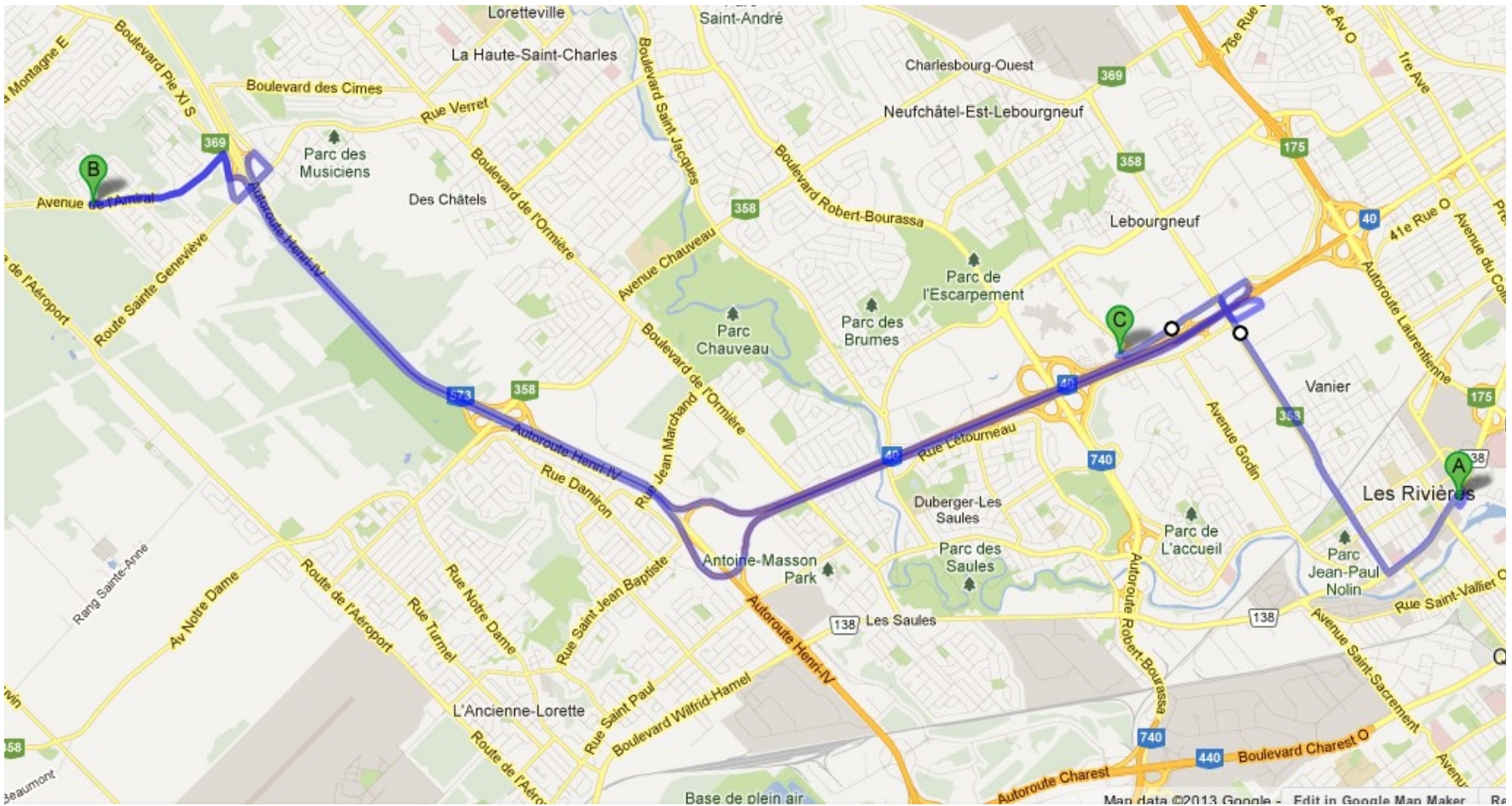
FROM : 557 rue Montois, Québec City, QC, G1C 7K1
TO : St-Hubert – Hamel, 605 Boulevard Wilfrid-Hamel, Québec, QC, G1M 2T4

<https://evnet.avinc.com/EVPortal/lecircuitelectrique/Accueil.aspx>

Picture with the Smart and the
charging station N/A



Trip #9



FROM (A) : St-Hubert – Hamel, 605 Boulevard Wilfrid-Hamel, Québec, QC, G1M 2T4
STOP (B) : Boucherie Rolaine, 1410 Av de l'Amiral Val-Belair, QC G3K 1G2
END (C) : Mercedes-Benz de Québec, 1350 rue Bouvier, Québec, QC G2K 1N8

End of the test drive...