



Introduction to the eco-SPRAY Business

“We have the wisdom to protect the Earth”

EiShin Co., Ltd. / Vector Japan Co., Ltd.



Name	EiShin Co., Ltd.
Established	14 th December 2009
Capital	¥46,701,000 (accounting on every March)
President	Chie Yasunaga
Address	403, 3-1-3, Higashioi, Shinagawa-ku, Tokyo, 140-0011, Japan
Business Description	【eco-friendly business】 Production and Distribution of the Environmental Improvement Products



“eco-SPRAY” Trademark approved 27th Nov 2012

We obtained the trademark of「eco-SPRAY」.

Awarded "Higashi-Kuninomiya Magokoro cultural prize"

7th Oct 2015

We were awarded「Higashi-Kuninomiya Magokoro cultural prize」.

Registered on "UNIDO environmental technology database"

16th Nov 2016

「eco-SPRAY」was registered on UNIDO environmental technology database.

Acquired the Patent of “eco-SPRAY” in Japan 18th May 2018

we acquired the Patent of 「eco-SPRAY」.

Registered on “SDGs Solution Hub” of the Cabinet

Office 28th August 2019

「eco-SPRAY」was registered on SDGs Solution Hub of the Cabinet Office database.

Acquired the Patent of “eco-SPRAY” in USA 16th Feb 2021

- Jan, 2009 Establishment of Company(Capital Stock 7million yen)
- Oct, 2010 Started to develop the prototype of eco-SPRAY with the doctor of engineering of Osaka University.
- Jun, 2011 Test Sales Launch of eco-SPRAY
- Nov, 2013 The distributor in Iran was interviewed and aired on TV TOKYO program called “Mirai Seiki Jipang”
- Jan, 2014 Interviewed article was appeared on in-flight magazine of Emirates Airline
- Feb, 2014 Allocation of new stocks to a third party(Capital Stock 41.70million yen)
- Nov, 2014 Made a presentation at the world-biggest automobile tradeshow in U.S.
- Oct, 2015 Awarded by Higashi-Kuninomiya Magokokoro cultural prize
- Dec, 2015 Passed the safety and emission test certified by Chinese government.
- Jan, 2016 Started to accept the orders from the domestic taxi companies related to Funai Soken
- Apr, 2016 Exclusive sales agreement was entered into and started to accept the orders in China
- Jul, 2016 Passed the safety test certified by Ministry of the environment in Nepal
- Nov, 2016 Registered on the environmental technology database of UNIDO(United Nations Industrial Development Organization)
- Mar, 2017 Officially adopted by the racing team of Audi Japan
- Feb, 2018 Exclusive sales agreement was entered into and started to accept the orders in Thailand
- May, 2018 Acquired the Patent of eco-SPRAY in Japan
- Aug, 2019 「eco-SPRAY」 was registered on SDGs Solution Hub of the Cabinet Office database.
- May, 2021 Acquired the Patent of eco-SPRAY in USA

Corporate Philosophy

「We do what we can for our precious Planet」

Global warming, air pollution, flower extinction, ozone layer destruction, and deforestation: we produce environmental problems throughout the world whilst our economic situation is growing. Sadly, we, humans, are the cause of this disaster. However, our Mother Earth never blames us or even gets angry at one of us. She just silently giving us signals for help. Have we ever noticed those signals or care about them?

Our company EiShin, will care take of nature, human beings, plants, animals and everything surrounding us, and will contribute on finding solution to these environmental problems. We provide solutions by delivering our eco-friendly products in Japan and throughout the world.

Mission

「We have the wisdom to protect the Earth」



eco-SPRAY has been produced to improve the combustion efficiency of vehicle engines. Nowadays cars are a necessary method of transport. The number of purchased cars and new brand cars are increasing every single year causing pollution issue. PM2.5 is a figure to take seriously in order to protect the planet and its environment.



EiShin Co., Ltd.



Energy efficiency: Filtering Technology for Combustion Efficiency and Reducing Air Pollution



eco-SPRAY : Energy Efficient & Eco-Friendly Automobile Filter Spray to Increase Mileage and Reduce Emissions



Summary

Eco-SPRAY is one of the environmentally friendly products manufactured by EiShin Co., Ltd., whose mission is to care for nature, humanity, plants and animals. Like most additives claimed to improve car performance, eco-SPRAY cleans the engine. It allows cleaner combustion which translates into improved power and fuel efficiency as well as reduced emissions. The spray can be applied through the air filter from cars powered by gasoline, diesel or LP gas. Since 2012, 300,000 bottles have been distributed in 15 countries including China, Thailand, Canada, USA, UAE, Romania, Korea, Cambodia, Vietnam, Iran, Philippines, Bangladesh, Nepal, Taiwan, and Japan.



国際連合



UNIDOデータベース
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UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

Investment an
Promotion



HOME » Activities » Technology Transfer » Environmental Technology Database » Energy efficiency: Filtering Technology for Combustion Efficiency and Reducing Air Pollution



Activities

Delegate Programme

Technology Transfer

Environmental Technology Database

Low carbon & energy conservation

Prevention and destruction of pollution

Waste treatment & management

Seminars & Events

Capacity Building

Activities Overseas

Energy efficiency: Filtering Technology for Combustion Efficiency Reducing Air Pollution

EiShin Co., Ltd.





UNIDO GLOBAL CALL 2022

Honorable Mention Certificate

This is to certify that

FISHIN

is the Honorable Mention of UNIDO Global Call 2022
in Green Growth Category.



Issued by

*United Nations Industrial Development Organization
Investment & Technology Promotion Office
(ITPO) Shanghai, China*

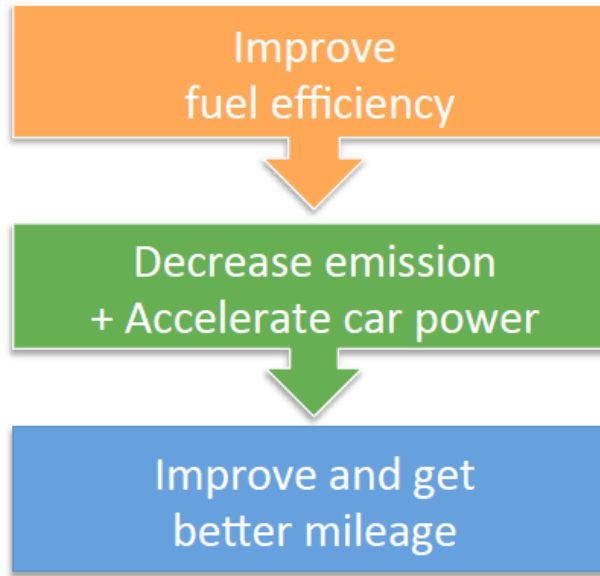
*SJTU-UNIDO
Joint Institute of
Inclusive & Sustainable Industrial Development*

Issued on: January 2023

“eco-SPRAY” is the innovative product focusing on “Air” ratio of the Theoretical Air-Fuel Ratio.

Theoretical Air-Fuel Ratio

Gasoline	14.7 : 1
Diesel	14.9 : 1
L P G	15.7 : 1



Activation of air which is caused by the action of natural materials of eco-SPRAY removes carbon sludge and static electricity in the engine in order to improve the fuel efficiency.

Modern vehicles are controlled and monitored by the computer called by ECU. eco-SPRAY activates the function every sensors equipped on the intake and exhaust parts and also removes the stains out of the cylinder and the port which the engine oil cannot clean.

And eventually eco-SPRAY keeps the engine clean and get close to the balance of 14:7 of the theoretical air-fuel ratio to maximize the performance vehicles genuinely have.

What is eco-SPRAY?

Spray made with 100% natural materials



Ingredients

- Fishery products (Amino peptide)
- Seaweed (Fucoidan)
- Hinoki sap (Hinokitiol)
- WOX + HT Silver



Characteristic of Eco-SPRAY materials (patented in US and Japan)

- Oxygen supplementary water WOX (substance patented in Japan, the United States and China)

It makes it easier to penetrate the filter and sends oxygen into the engine to promote combustion.

- Hinokitiol

Its antibacterial properties prevent the growth of bacteria, and it emits a pleasant cypress scent.

- Fucoidan

L-fucose, a sticky component of fucoidan, suppresses the scattering of tourmaline attached to the filter and allows it to remain on the filter for a long time.

- Ore (Tourmaline)

The fine powder adheres and fixes to the air filter, and due to the air that passing through the air filter, the moisture (water vapor) in the air passing through the air filter is decomposed into hydroxyl ions (H_3O_2^-) and hydrogen gas (H_2). This phenomenon occurs, and the cleaning effect in the combustion chamber of the engine due to the surfactant action of hydroxyl ions and the combustion effect of hydrogen gas cause the fuel to burn in a form close to complete combustion.

- HT Silver (nano silver solution)

It has strong antibacterial and antiviral effects and prevents the growth of bacterial in liquids.

Eco-SPRAY

By applying it to the air filter and allowing it to penetrate, it sends air that is easily combustible into the engine, bringing the fuel the would normally not be completely combusted to a state of complete combustion.

- ① Also, it removes the burnt residue generated inside the engine.
- ② It keeps the inside of the engine clean by discharging it without accumulating it inside.

By approaching complete combustion, exhaust gas is reduced. Because the power of the explosion increases, you will reach the target speed quickly when you step on the accelerator. And if you drive at the same speed before and after using eco-SPRAY, your fuel efficiency will increase.

- ① Reason for approaching complete combustion → Proven by JATA evidence.
- ② Reason for emitting → Black soot that comes out when spraying after using eco-SPRAY.

Just spray one entire bottle of eco-SPRAY to the air filter!



According to the types of car, the cover of the engine room or the air cleaner box might be different.

※Target : Applicable on Gasoline • Gas • Diesel cars

※Continuous Standard Result : 5,000km mileage (6 month travelling distance)

※Warnings: see the handling constructions for details.



JATA Japan Automobile Transport Technology Association

Gasoline Automobile Performance Improvement Measurement Device Examination Data

Examiner: Public Interest Incorporated Foundation Japan Automobile Transport Technology Association

Name of the device: eco-SPRAY
Name of the examiner: EiShin Co., Ltd.
Name of the inventor: EiShin Co., Ltd.

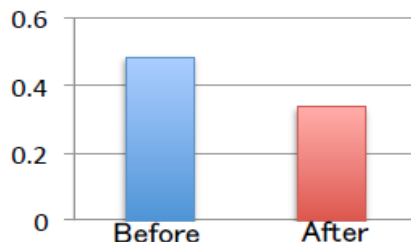
Contents of the examination
As the request of EiShin Co., Ltd, emission test and Gasoline 10.15 mode emission test was held before and after applying the product (device) called eco-SPRAY.
Examination was held before applying the device and after applying in order. This device was applied both sides of air cleaner (filter) and dried for 30 minutes. Also, both before and after applying device, idled the car for 5 minutes, accelerate the car (6000rpm times 3), run in 80km/h for 30 minutes, accelerate the car (6000rpm times 3), and cooling the car (stopped the engine) for 30minutes.

Examined car
Car name/model: Toyota E-MCV20W
Car number: MCV20-0000002
Muffler model: 1ME
Total engine displacement: 2.994 L
Official car load revolving speed: 620 700
Weight of car: 1550 kg
Weight of examined car: 1600 kg
Equivalent inertia weight: 1700 kg

Emission test and fuel efficiency ratio results with 10.15 running

Classification		Before	After	
Date		25.10.31	25.10.31	
Total mileage	km	94076	94164	
Laboratory	Air pressure	100.9	100.8	
	Dry-bulb temperature	25.8 ~ 25.8	25.3 ~ 26.2	
	Wet-bulb temperature	16.6 ~ 16.2	16.3 ~ 17.2	
	Relative temperature	37	39	
Car	Coolant temperature	90 ~ 93	88 ~ 92	
	Lubricating oil temperature	95 ~ 97	95 ~ 97	
Chassis dynamometer	Speed km/h	20 40 60	20 40 60	
Set driving resistance	Resistance N	264 323 423	264 323 423	
Emission	KH (Humidity correction value)		0.910	0.904
	Contents	CO HC NOx CO2	CO HC NOx CO2	CO HC NOx CO2
		Ppm ppmC ppm %	Ppm ppmC ppm %	Ppm ppmC ppm %
	Measurement method	NDIR FID CLD	NDIR NDIR FID CLD	NDIR
	Diluted emission density	17.08 8.80 1.32 0.021	12.09 7.24 1.10 0.019	
	Diluted air density	0.75 2.30 0.04 0.044	0.66 2.33 0.03 0.042	
	Net density	17.26 6.53 1.27 0.079	12.06 5.02 1.07 0.079	
	Emission quantity	0.483 0.090 0.053 253.8	0.336 0.045 252.7	
	Collection quantity		9.1	9.0
	Fuel efficiency (Carbon balance method)	km/L	9.3	9.4

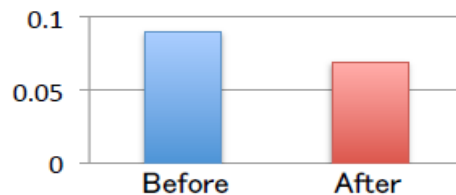
CO ppm NDIR



This result appears when the combustion is done with a lack of oxygen, which means the combustion was incomplete. It is very harmful to human body.

30.4% DOWN

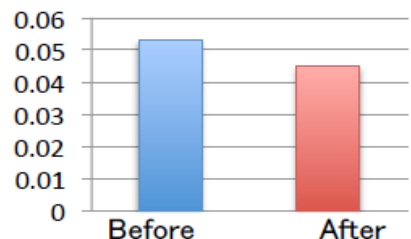
HC ppmC FID



This result occurs when the combustion is done while burning. When the combustion efficiency is improved, the numerical value of HC decreases.

23.3% DOWN

NOx ppm CLD



Nitrogen oxide is produced when it is combusted in good state or in good efficiency.

15.09% DOWN



Audi Team DreamDrive #45
LIQUI MOLY RS3
Driver : Shozo Tagahara

Compared to the 1st session I did not use “eco-SPRAY”, I felt that my engine revved better at a lower RPM.

I also heard that my engine sounded differently when revving.

After applying eco-SPRAY during this race, we received a very great result as, the fuel combustion has improved, the oiling pit has decreased.



“eco-SPRAY” is the great product because it is easy for us to use, safe and effective for the vehicles.

We would like to keep using this product and have more effective data which proves the effect of eco-SPRAY and leads us to win on every race.





Technical Test Report



“This chart shows the comparison data of the car’s performance before and after applying eco-SPRAY.

The yellow line indicates the engine prior to using eco-SPRAY and the red line is marked by the engine after its application.

★The first graph: RPMs

The higher the line is, the higher the engine is turning. At the middle point in the graph, the yellow and the red line separate. This is an important point as it represents where the quality improvement of the engine is seen. Even if the car accelerated at the same time, the red line is higher by 100 to 200 rpms, which means the power of the engine got improved as the speed increased.

★The second graph: Speed

There is a slight difference compared with the first graph, the red line shows an improved speed of roughly 2km compared to the yellow line.

★The third graph: the difference of Lap time

According to the graph, as the car began to accelerate and gear up, the red line shows the car went faster by 0.040 seconds compared to the yellow line.

From this graph, we can see that

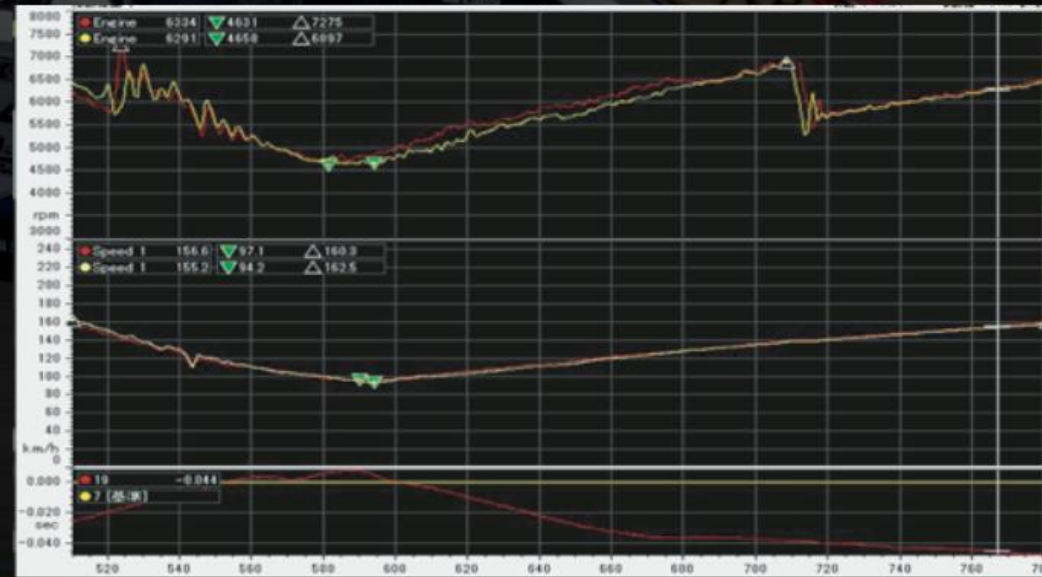
eco-SPRAY has a capability of the effect of improving engine performances.

Summary of this test report

“eco-SPRAY” is identified as the effect of improving the function of vehicle through recognizing the difference on the data logger from this testing.

The normal vehicles have much more effects than the racing cars because There is a great effect for the racing cars which are really sensitive with the difference since it competes a tenth of second.

Audi Team DreamDrive Technical Director





REDUCED COST OF JEEPNEY'S FUEL BY USING ECO-SPRAY		
Calculation per Jeepney (1)		
Mileage per day	150	Km
Estimated fuel consumption	6	Km/L
Amount of diesel used per day (150 ÷ 6)	25	L
Diesel unit price	55	PHP/L
Money spent on diesel per day (25 x 55)	1,375	PHP
Calculation per 100 Jeepneys		
Mileage per day of 100 Jeepneys (150 x 100)	15,000	Km
Estimated fuel consumption	6	Km/L
Amount of diesel used per day (15,000 ÷ 6)	2,500	L
Diesel unit price	55	PHP/L
Money spend in diesel per day (2,500 x 55)	137,500	PHP
Mileage in a month *25days* (15,000 x 25)	375,000	Km
Amount of diesel used per month (375,000 ÷ 6)	62,500	L
Money spent on diesel per month (62,500 x 55)	3,437,500	PHP
ONE (1) YEAR COMPUTATION		
3,437,500 x 12 (months)	41,250,000	PHP
Fuel efficiency improved to 10%	4,125,000	PHP
1bottle of Eco-SPRAY = 10,000km	30cc per bottle	1,400PHP/bottle
375,000 x 12 ÷ 10,000	450	Bottle/s
450 x 1,400 (unit price x quantity)	630,000	PHP
COST REDUCTION PER YEAR: 4,125,000PHP - 630,000PHP = 3,495,000PHP		



REDUCED COST OF TRUCK'S FUEL BY USING ECO-SPRAY		
Calculation per Truck (1)		
Mileage per day	200	Km
Estimated fuel consumption	4	Km/L
Amount of diesel used per day (200 ÷ 4)	50	L
Diesel unit price	55	PHP/L
Money spent on diesel per day (50 x 55)	2,750	PHP
Calculation per 100 Trucks		
Mileage per day of 100 Trucks (100 x 200)	20,000	Km
Estimated fuel consumption	4	Km/L
Amount of diesel used per day (20,000 ÷ 4)	5,000	L
Diesel unit price	55	PHP/L
Money spend in diesel per day (5,000 x 55)	275,000	PHP
Mileage in a month *25days* (20,000 x 25)	500,000	Km
Amount of diesel used per month (500,000 ÷ 4)	125,000	L
Money spent on diesel per month (125,000 x 55)	6,875,000	PHP
ONE (1) YEAR COMPUTATION		
6,875,000 x 12 (months)	82,500,000	PHP
Fuel efficiency improved to 10%	8,250,000	PHP
1bottle of Eco-SPRAY = 10,000km	90cc per bottle	3,650PHP/bottle
500,000 x 12 ÷ 10,000	600	Bottle/s
600 x 3,650 (unit price x quantity)	2,190,000	PHP
COST REDUCTION PER YEAR: 8,250,000PHP – 2,190,000PHP = 6,060,000PHP		



Before
396.2km

After
560km



31.48L

37.63L



Name	Keisuke Yoshikawa	
Prefecture	Ishikawa	
Manufacturer/Model	Toyota/Corolla Fielder	
Model year	2000	
Total mileage	120,000km	
Fuel efficiency BEFORE applying eco-SPRAY	12.58	Fuel efficiency improvement 18.3%
Fuel efficiency AFTER applying eco-SPRAY	14.88	

~Comment~

I bought this with no expectation. I did not see any visible results, but the increased fuel efficiency surprised me. Easily worth the money!



Toyota Prius alpha
Before



After (1st time)



※満タン法燃費測定による計測(継続計測)

- 2nd : 25. 2km 6th : 23. 8km
- 3rd : **25. 4km** 7th : 24. 7km
- 4th : 24. 7km 8th : 24. 4km
- 5th : 24. 4km 9th : 23. 7km

Name	Mr. T	
Prefecture	Aichi Prefecture	
Manufacturer/Model	Toyota/Prius alpha	
Model year	2012	
Total mileage	10,611km	
Fuel efficiency BEFORE applying eco-SPRAY	21.9km	Fuel efficiency improvement 13.7%
Fuel efficiency AFTER applying eco-SPRAY	24.9km	
<p>~Comment~</p> <p>I kept checking the fuel efficiency meter after application, took record of it, and analyzed these results. I am just speechless about them.</p> <p>I am very happy and satisfied with my car getting better than its original fuel efficiency. Let's see how long it will last and I will take record of it as well.</p>		

Toyota Estima

Mileage:242,000km



Apply eco-SPRAY

Before



CO 0.06
HC 81

After



CO 0.02
HC 0



Daihatsu HIJET

Mileage : 123,259km



Before



CO 0.43
HC 370

After



CO 0.09
HC 10



Demonstration of Eco-SPRAY at LTFRB Headquarter (Quezon City, Philippines)



Emission Test being conducted and explaining it to the LTFRB's Engineers

Demonstration of Eco-SPRAY at LTFRB Headquarter (Quezon City, Philippines)



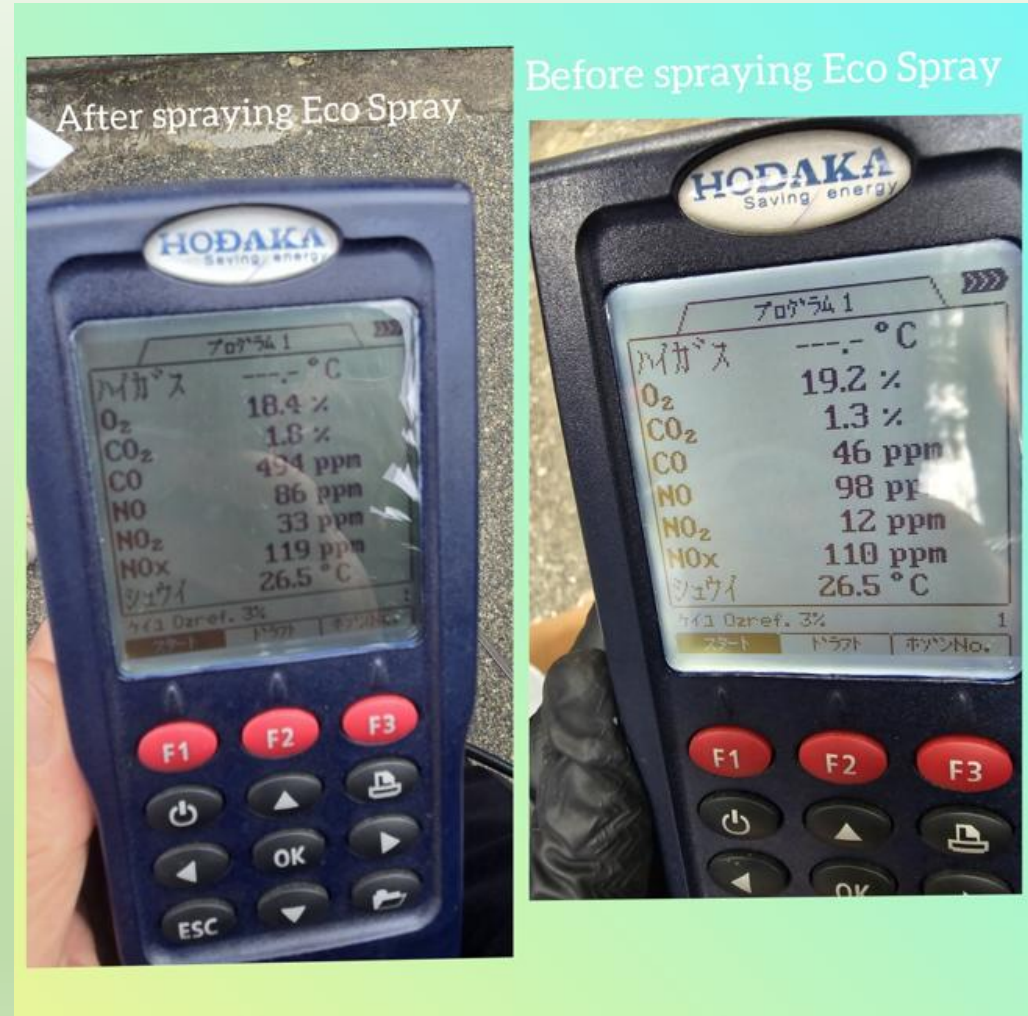
Before and After results of using Eco-SPRAY

Demonstration of Eco-SPRAY at Baguio City Hall Environmental Department (Baguio City, Philippines)



Application of Eco-SPRAY to the Air filter of the car

Demonstration of Eco-SPRAY at Baguio City Hall Environmental Department (Baguio City, Philippines)



Before and After results of using Eco-SPRAY

Fuel efficiency / CO2 emission (City: Japan)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
					Before	After	Co2 emissions/km difference (B / A)	If 30.000km travel kg-CO2/L	If 50.000km travel kg-CO2/L	If 100.000km travel kg-CO2/L
Japan	1	Nissan Caravan	Gasoline	120.2%	6.35	7.63	-0.0613	-1838.7426	-3064.5711	-6129.1421
Japan	3	Nissan Caravan	Gasoline	112.0%	6.83	7.65	-0.0364	-1092.2975	-1820.4959	-3640.9918
Japan	4	Nissan Caravan	Gasoline	104.3%	7.01	7.31	-0.0136	-407.4695	-679.1158	-1358.2316
Japan	5	Nissan Caravan	Gasoline	106.2%	7.05	7.49	-0.0193	-579.9506	-966.5843	-1933.1686
Japan	6	Nissan Caravan	Gasoline	105.5%	6.76	7.13	-0.0178	-534.2872	-890.4786	-1780.9572
Japan	7	Nissan Caravan	Gasoline	108.8%	6.78	7.38	-0.0278	-834.5924	-1390.9874	-2781.9747
Japan	8	Nissan Caravan	Gasoline	116.0%	6.07	7.04	-0.0527	-1579.8637	-2633.1062	-5266.2124
Japan	9	Nissan Caravan	Gasoline	110.8%	6.58	7.29	-0.0343	-1030.1825	-1716.9708	-3433.9417
Japan	10	Nissan Caravan	Gasoline	106.9%	6.53	6.98	-0.0229	-687.1525	-1145.2542	-2290.5084
Japan	11	Nissan Caravan	Gasoline	112.8%	6.72	7.58	-0.0392	-1175.0848	-1958.4747	-3916.9494
Japan	14	Nissan Caravan	Gasoline	104.9%	7.34	7.7	-0.0148	-443.3278	-738.8796	-1477.7593
Japan	16	Isuzu Elf	Diesel	150.3%	5.27	7.92	-0.1663	-4990.3686	-8317.2810	-16634.5619
Japan	17	Isuzu Como	Gasoline	130.2%	4.94	6.43	-0.1088	-3264.8076	-5441.3459	-10882.6918
Japan	18	Succeed	Gasoline	121.6%	6.95	8.45	-0.0593	-1777.7021	-2962.8368	-5925.6737
Japan	19	Zendai Japan Taxi	LPG	108.4%	11.89	12.89	-0.0196	-587.2293	-978.7155	-1957.4311
Japan	20	Zendai Japan Taxi	LPG	105.9%	11.89	12.59	-0.0140	-420.8555	-701.4258	-1402.8515
Japan	21	Zendai Japan Taxi	LPG	110.1%	11.89	13.09	-0.0231	-693.9086	-1156.5143	-2313.0286
Japan	22	Zendai Japan Taxi	LPG	93.4%	11.89	11.11	0.0177	531.4240	885.7067	1771.4135
Japan	23	Toyota Crown Comfort	LPG	108.2%	5.61	6.07	-0.0405	-1215.7626	-2026.2710	-4052.5421
Japan	24	Toyota Crown Comfort	LPG	113.2%	6.23	7.05	-0.0560	-1680.2705	-2800.4508	-5600.9016
Japan	25	Toyota Prius α	LPG	120.8%	13.3	16.06	-0.0388	-1162.9322	-1938.2204	-3876.4408
Japan	26	Crown Comfort	LPG	101.3%	6.13	6.21	-0.0063	-189.1387	-315.2312	-630.4624
Japan	27	JAP Taxi	LPG	106.0%	13.76	14.58	-0.0123	-367.8582	-613.0969	-1226.1939
Japan	28	SP Deluxe	LPG	102.5%	5.67	5.81	-0.0127	-382.4823	-637.4705	-1274.9410
Japan	29	SP Deluxe	LPG	108.6%	5.22	5.67	-0.0456	-1368.3634	-2280.6057	-4561.2115
Japan	30	Limousine Bus	Diesel	117.2%	89.3	104.69	-0.0043	-129.3911	-215.6519	-431.3038
Japan	31	Crown Comfort	LPG	168.4%	3.54	5.96	-0.3441	-10323.0577	-17205.0961	-34410.1922
Japan	32	Crown Comfort	LPG	175.7%	3.21	5.64	-0.4027	-12079.9364	-20133.2273	-40266.4546
Japan	33	Isuzu Eif 2t	Diesel	108.4%	6.57	7.12	-0.0308	-924.1445	-1540.2408	-3080.4816
Japan	34	Mitsubishi 5t	Diesel	120.0%	5.3	6.36	-0.0824	-2471.6981	-4119.4969	-8238.9937

Fuel efficiency / CO2 emission (City: Japan)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
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Japan	35	Toyota Prius α /2012	Gasoline	113.7%	21.9	24.9	-0.0128	-382.9015	-638.1691	-1276.3382
Japan	36	Toyota Prius α /2009	Gasoline	108.4%	25	27.1	-0.0072	-215.7343	-359.5572	-719.1144
Japan	37	Nissan NOTE/2009	Gasoline	104.0%	20	20.8	-0.0045	-133.8462	-223.0769	-446.1538
Japan	38	VOLVO · V70	Gasoline	123.1%	6.5	8	-0.0669	-2007.6923	-3346.1538	-6692.3077
Japan	39	Toyota Alphard/2004	Gasoline	121.7%	8.3	10.1	-0.0498	-1494.4531	-2490.7551	-4981.5102
Japan	40	Nissan X-Trail/2008	Gasoline	114.9%	8.7	10	-0.0347	-1040.0000	-1733.3333	-3466.6667
Japan	41	Toyota Wish	Gasoline	108.3%	9.6	10.4	-0.0186	-557.6923	-929.4872	-1858.9744
Japan	42	Toyota Wish/2003	Gasoline	121.0%	16.7	20.2	-0.0241	-722.1201	-1203.5335	-2407.0671
Japan	43	Toyoya Vitz /2000	Gasoline	126.0%	15.4	19.4	-0.0311	-931.8517	-1553.0861	-3106.1722
Japan	44	Suzuki Every/1996	Gasoline	129.8%	8.4	10.9	-0.0633	-1900.3932	-3167.3220	-6334.6439
Japan	45	Honda Odyssey/1998	Gasoline	147.7%	6.5	9.6	-0.1153	-3457.6923	-5762.8205	-11525.6410
Japan	46	Toyota Camry /2007	Gasoline	118.8%	8	9.5	-0.0458	-1373.6842	-2289.4737	-4578.9474
Japan	47	Nissan Cube /2000	Gasoline	123.5%	8.5	10.5	-0.0520	-1559.6639	-2599.4398	-5198.8796
Japan	48	Daihatsu Cube/2010	Gasoline	105.0%	20	21	-0.0055	-165.7143	-276.1905	-552.3810
Japan	49	Suzuki Wagon R/2010	Gasoline	122.0%	16.8	20.5	-0.0249	-747.7352	-1246.2253	-2492.4506
Japan	50	Daihatsu Mira/2012	Gasoline	112.6%	21.5	24.2	-0.0120	-361.1762	-601.9604	-1203.9208
Japan	51	Mitsubishi Dion	Gasoline	119.3%	13.5	16.1	-0.0278	-832.5742	-1387.6236	-2775.2473
Japan	52	Benz C240/1998	Gasoline	111.5%	9.6	10.7	-0.0248	-745.3271	-1242.2118	-2484.4237
Japan	53	Benz S320/1999	Gasoline	113.5%	11.1	12.6	-0.0249	-746.4607	-1244.1012	-2488.2025
Japan	54	Mitsubishi Mini Cab 2007	Gasoline	114.3%	10.5	12	-0.0276	-828.5714	-1380.9524	-2761.9048
Japan	55	Nissan Rasheen /1999	Gasoline	123.5%	8.5	10.5	-0.0520	-1559.6639	-2599.4398	-5198.8796
Japan	56	Subaru · Legacy2.0i/2003	Gasoline	138.8%	8.5	11.8	-0.0763	-2289.9302	-3816.5503	-7633.1007
Japan	57	VW Golf /2004	Gasoline	118.1%	10.2	12.05	-0.0349	-1047.5958	-1745.9930	-3491.9860
Japan	58	Nissan Cube	Gasoline	113.8%	10.9	12.4	-0.0257	-772.4179	-1287.3631	-2574.7263
Japan	59	Matsuda Demio	Gasoline	121.4%	7	8.5	-0.0585	-1754.6218	-2924.3697	-5848.7395
Japan	60	Suzuki Jimny JB23W/2008	Gasoline	114.3%	7	8	-0.0414	-1242.8571	-2071.4286	-4142.8571
Japan	61	Toyota Estima 2400cc/2001	Gasoline	103.8%	5.04	5.23	-0.0167	-501.6844	-836.1407	-1672.2814
Japan	62	VW Polo	Gasoline	114.1%	8	9.13	-0.0359	-1076.7798	-1794.6331	-3589.2662
Japan	63	Isuzu Elf 2 t	Diesel	114.9%	7.07	8.12	-0.0479	-1437.5945	-2395.9908	-4791.9817
Japan	64	Hino Ranger 3 t	Diesel	111.4%	7.02	7.82	-0.0382	-1145.4303	-1909.0505	-3818.1010

Fuel efficiency / CO2 emission (City: Japan)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
					Before	After	Co2 emissions/km difference (B/A)	If 30,000km travel kg-CO2/L	If 50,000km travel kg-CO2/L	If 100,000km travel kg-CO2/L
Japan	65	Isuzu Foward 4 t	Diesel	111.0%	5.38	5.97	-0.0481	-1443.8363	-2406.3938	-4812.7876
Japan	66	Hino Truck 4 t	Diesel	109.2%	7.1	7.75	-0.0309	-928.4871	-1547.4784	-3094.9568
Japan	67	Isuzu Fowerd	Diesel	117.6%	7.03	8.27	-0.0559	-1676.4222	-2794.0370	-5588.0739
Japan	68	Isuzu Fowerd	Diesel	104.2%	6.85	7.14	-0.0153	-458.3348	-763.8914	-1527.7828
Japan	69	Hino Truck 4 t	Diesel	109.3%	7.1	7.76	-0.0315	-945.4708	-1575.7847	-3151.5695
Japan	70	Hino Truck 5 t	Diesel	110.3%	6.8	7.50	-0.0360	-1078.8235	-1798.0392	-3596.0784
Japan	71	Hino Truck 6 t	Diesel	106.6%	6.81	7.26	-0.0238	-715.4039	-1192.3399	-2384.6798
Japan	72	Toyota HiAce/3000CC/2013	Gasoline	113.4%	9.11	10.33	-0.0301	-902.2988	-1503.8313	-3007.6626
Japan	73	Toyota HiAce/3000CC/2102	Gasoline	119.1%	4.4	5.24	-0.0845	-2535.7391	-4226.2318	-8452.4636
Japan	74	Toyota HiAce/3000CC/2012	Gasoline	120.5%	5.5	6.63	-0.0719	-2156.8079	-3594.6798	-7189.3597
Japan	75	Isuzu Elf 100	Gasoline	105.5%	6.86	7.24	-0.0178	-532.5129	-887.5215	-1775.0431
Japan	76	Isuzu Elf 100	Gasoline	109.2%	6.84	7.47	-0.0286	-858.1695	-1430.2825	-2860.5651
Japan	77	Hino Dump 10t/2005	Diesel	106.5%	2.15	2.29	-0.0745	-2234.9954	-3724.9924	-7449.9848
Japan	78	Hino Dump 10t/2002	Diesel	106.1%	1.97	2.09	-0.0764	-2290.8217	-3818.0361	-7636.0722
Japan	79	Hino Truck 5 t /2014	Diesel	104.9%	6.39	6.7	-0.0190	-569.1262	-948.5437	-1897.0873
Japan	80	Hino Truck 10 t /2012	Diesel	107.1%	3.79	4.06	-0.0460	-1379.1804	-2298.6339	-4597.2679
Japan	81	Toyota Corolla HV	Gasoline	138.7%	11.55	16.02	-0.0561	-1681.7703	-2802.9505	-5605.9009
Japan	82	Toyota Prius	Gasoline	128.3%	12.22	15.68	-0.0418	-1254.9418	-2091.5696	-4183.1392
Japan	83	Hino Liesse2/2015	Diesel	108.9%	5.67	6.17	-0.0379	-1135.6091	-1892.6818	-3785.3635
Japan	84	Isuzu Elf	Diesel	108.4%	7.18	7.78	-0.0284	-851.8761	-1419.7934	-2839.5869
Japan	85	Hino Profia Lorry (Tunk)	Diesel	107.7%	3.96	4.26	-0.0473	-1417.8499	-2363.0831	-4726.1662
Japan	86	Hino Truck	Diesel	113.1%	2.48	2.81	-0.1224	-3672.1580	-6120.2634	-12240.5267
Japan	87	Unitech	Diesel	113.6%	7.00	7.95	-0.0447	-1341.7790	-2236.2983	-4472.5966
Japan	88	Flatbed Truck	Diesel	106.0%	6.65	7.05	-0.0224	-670.6127	-1117.6878	-2235.3757

Oversea fuel efficiency / CO2 emission (City: India, Vietnam & Philippines)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
					Before	After	Co2 emissions/km difference (B /A) kg-CO2/L	30.000km travel kg-CO2/L	50.000km travel kg-CO2/L	100.000km travel kg-CO2/L
Vietnam (Ho Chi Minh)	1	Toyota Innova 1988cc	Gasoline	107%	11.05	11.8	-0.0133	-400.3374	-667.2291	-1334.4582
Vietnam (Ho Chi Minh)	2	Toyota Innova 1988cc	Gasoline	116%	6.8	7.9	-0.0475	-1425.1675	-2375.2792	-4750.5585
India(Mumbai)	3	Tata Indica V2	Gasoline	120%	14	16.8	-0.0276	-828.5714	-1380.9524	-2761.9048
India(Mumbai)	4	Tata Indica V2	Gasoline	122%	13	15.9	-0.0325	-976.4877	-1627.4794	-3254.9589
India(Mumbai)	5	Tata Indica V2	Gasoline	121%	15	18.2	-0.0272	-815.8242	-1359.7070	-2719.4139
India(Mumbai)	6	Tata Indica V2	Gasoline	118%	13.5	15.9	-0.0259	-778.1971	-1296.9951	-2593.9902
India(Mumbai)	7	Tata Indica V2	Gasoline	121%	14.5	17.5	-0.0274	-822.8571	-1371.4286	-2742.8571
India(Mumbai)	8	Tata Indica V2	Gasoline	120%	14	16.8	-0.0276	-828.5714	-1380.9524	-2761.9048
India(Mumbai)	9	Tata Indica V2	Gasoline	120%	14	16.8	-0.0276	-828.5714	-1380.9524	-2761.9048
India(Mumbai)	10	Renault Logan	Gasoline	122%	13	15.9	-0.0325	-976.4877	-1627.4794	-3254.9589
India(Mumbai)	11	Renault Logan	Gasoline	124%	14	17.4	-0.0324	-971.4286	-1619.0476	-3238.0952
India(Mumbai)	12	Renault Logan	Gasoline	122%	12.5	15.3	-0.0340	-1018.9804	-1698.3007	-3396.6013
India(Mumbai)	13	Renault Logan	Gasoline	122%	13.5	16.5	-0.0312	-937.3737	-1562.2896	-3124.5791
India(Mumbai)	14	Renault Logan	Gasoline	123%	13	16	-0.0335	-1003.8462	-1673.0769	-3346.1538
India(Mumbai)	15	Renault Logan	Gasoline	119%	12	14.3	-0.0311	-932.8671	-1554.7786	-3109.5571
India(Mumbai)	16	Renault Logan	Gasoline	123%	13	16	-0.0335	-1003.8462	-1673.0769	-3346.1538
India(Mumbai)	17	Toyota Innova	Gasoline	120%	10	12	-0.0387	-1160.0000	-1933.3333	-3866.6667
India(Mumbai)	18	Toyota Innova	Gasoline	122%	12	14.6	-0.0344	-1032.8767	-1721.4612	-3442.9224
India(Mumbai)	19	Toyota Innova	Gasoline	162%	13	21.1	-0.0685	-2055.2680	-3425.4466	-6850.8932
India(Mumbai)	20	Toyota Innova	Gasoline	117%	12	14	-0.0276	-828.5714	-1380.9524	-2761.9048
India(Mumbai)	21	Toyota Innova	Gasoline	120%	10	12	-0.0387	-1160.0000	-1933.3333	-3866.6667
India(Mumbai)	22	Toyota Innova	Gasoline	120%	10.5	12.6	-0.0368	-1104.7619	-1841.2698	-3682.5397
India(Mumbai)	23	Toyota Innova	Gasoline	121%	11	13.3	-0.0365	-1094.1900	-1823.6500	-3647.3001
India(Mumbai)	24	Toyota Etios	Gasoline	123%	18	22.1	-0.0239	-717.3454	-1195.5757	-2391.1513
India(Mumbai)	25	Toyota Etios	Gasoline	125%	18	22.5	-0.0258	-773.3333	-1288.8889	-2577.7778
India(Mumbai)	26	Toyota Etios	Gasoline	124%	19	23.6	-0.0238	-714.0054	-1190.0089	-2380.0178
India(Mumbai)	27	Toyota Etios	Gasoline	120%	18	21.6	-0.0215	-644.4444	-1074.0741	-2148.1481

Overseas fuel efficiency / CO2 emission (City: India, Vietnam & Philippines)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
					Before	After	Co2 emissions/km difference (B / A) kg-CO2/L	30,000km travel kg-CO2/L	50,000km travel kg-CO2/L	100,000km travel kg-CO2/L
India (Mumbai)	28	Toyota Etios	Gasoline	123%	16.5	20.3	-0.0263	-789.6104	-1316.0173	-2632.0346
India (Mumbai)	29	Toyota Etios	Gasoline	123%	18.5	22.8	-0.0237	-709.5306	-1182.5510	-2365.1019
India (Mumbai)	30	Toyota Etios	Gasoline	124%	17	21.1	-0.0265	-795.5394	-1325.8991	-2651.7982
India (Mumbai)	31	Tata Indigo	Gasoline	118%	14	16.5	-0.0251	-753.2468	-1255.4113	-2510.8225
India (Mumbai)	32	Tata Indigo	Gasoline	119%	12	14.3	-0.0311	-932.8671	-1554.7786	-3109.5571
India (Mumbai)	33	Tata Indigo	Gasoline	119%	14.5	17.3	-0.0259	-776.8786	-1294.7977	-2589.5954
India (Mumbai)	34	Tata Indigo	Gasoline	115%	14	16.1	-0.0216	-648.4472	-1080.7453	-2161.4907
India (Mumbai)	35	Tata Indigo	Gasoline	118%	13	15.3	-0.0268	-804.8265	-1341.3776	-2682.7552
India (Mumbai)	36	Tata Indigo	Gasoline	120%	14	16.8	-0.0276	-828.5714	-1380.9524	-2761.9048
India (Mumbai)	37	Tata Indigo	Gasoline	118%	15	17.7	-0.0236	-707.7966	-1179.6610	-2359.3220
India (Mumbai)	38	Maruti Esteem	Gasoline	128%	9	11.5	-0.0560	-1681.1594	-2801.9324	-5603.8647
India (Mumbai)	39	Maruti Esteem	Gasoline	130%	10	13	-0.0535	-1606.1538	-2676.9231	-5353.8462
India (Mumbai)	40	Maruti Esteem	Gasoline	129%	9	11.6	-0.0578	-1733.3333	-2888.8889	-5777.7778
India (Mumbai)	41	Maruti Esteem	Gasoline	126%	9	11.3	-0.0525	-1574.0413	-2623.4022	-5246.8043
India (Mumbai)	42	Maruti Esteem	Gasoline	128%	8	10.2	-0.0625	-1876.4706	-3127.4510	-6254.9020
India (Mumbai)	43	Maruti Esteem	Gasoline	128%	8.5	10.9	-0.0601	-1802.9142	-3004.8570	-6009.7140
India (Mumbai)	44	Maruti Esteem	Gasoline	129%	11	14.2	-0.0475	-1425.8643	-2376.4405	-4752.8809
India (Mumbai)	45	MarutiSwift Dzire	Gasoline	126%	16	20.2	-0.0301	-904.4554	-1507.4257	-3014.8515
India (Mumbai)	46	MarutiSwift Dzire	Gasoline	128%	15.5	19.8	-0.0325	-975.1711	-1625.2851	-3250.5702
India (Mumbai)	47	MarutiSwift Dzire	Gasoline	125%	17	21.3	-0.0276	-826.5120	-1377.5200	-2755.0400
India (Mumbai)	48	MarutiSwift Dzire	Gasoline	123%	16	19.7	-0.0272	-817.0051	-1361.6751	-2723.3503
India (Mumbai)	49	MarutiSwift Dzire	Gasoline	126%	14	17.6	-0.0339	-1016.8831	-1694.8052	-3389.6104
India (Mumbai)	50	MarutiSwift Dzire	Gasoline	126%	16	20.2	-0.0301	-904.4554	-1507.4257	-3014.8515
India (Mumbai)	51	MarutiSwift Dzire	Gasoline	127%	15	19.1	-0.0332	-996.0209	-1660.0349	-3320.0698
India (Mumbai)	52	Mahindra xuv500	Gasoline	124%	11	13.6	-0.0403	-1209.6257	-2016.0428	-4032.0856
India (Mumbai)	53	Mahindra xuv500	Gasoline	126%	9	11.3	-0.0525	-1574.0413	-2623.4022	-5246.8043
India (Mumbai)	54	Mahindra xuv500	Gasoline	121%	9.5	11.5	-0.0425	-1274.1419	-2123.5698	-4247.1396

Overseas fuel efficiency / CO2 emission (City: India, Vietnam & Philippines)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
					Before	After	Co2 emissions/km difference (B /A) kg-CO2/L	30,000km travel kg-CO2/L	50,000km travel kg-CO2/L	100,000km travel kg-CO2/L
India (Mumbai)	55	Mahindra xuv500	Gasoline	125%	11	13.8	-0.0428	-1283.7945	-2139.6574	-4279.3149
India (Mumbai)	56	Mahindra xuv500	Gasoline	125%	10	12.5	-0.0464	-1392.0000	-2320.0000	-4640.0000
India (Mumbai)	57	Mahindra xuv500	Gasoline	124%	10.5	13	-0.0425	-1274.7253	-2124.5421	-4249.0842
India (Mumbai)	58	Mahindra xuv500	Gasoline	124%	11	13.6	-0.0403	-1209.6257	-2016.0428	-4032.0856
India (Mumbai)	59	Mahindra Xylo	Gasoline	129%	9.5	12.3	-0.0556	-1667.7792	-2779.6320	-5559.2640
India (Mumbai)	60	Mahindra Xylo	Gasoline	131%	9	11.8	-0.0612	-1835.0282	-3058.3804	-6116.7608
India (Mumbai)	61	Mahindra Xylo	Gasoline	130%	10	13	-0.0535	-1606.1538	-2676.9231	-5353.8462
India (Mumbai)	62	Mahindra Xylo	Gasoline	129%	9.5	12.3	-0.0556	-1667.7792	-2779.6320	-5559.2640
India (Mumbai)	63	Mahindra Xylo	Gasoline	126%	9.5	12	-0.0509	-1526.3158	-2543.8596	-5087.7193
India (Mumbai)	64	Mahindra Xylo	Gasoline	131%	8.5	11.1	-0.0639	-1917.9650	-3196.6084	-6393.2167
India (Mumbai)	65	Mahindra Xylo	Gasoline	129%	9	11.6	-0.0578	-1733.3333	-2888.8889	-5777.7778
India (Mumbai)	66	Mahindra Scorpio	Gasoline	121%	8	9.7	-0.0508	-1524.7423	-2541.2371	-5082.4742
India (Mumbai)	67	Mahindra Scorpio	Gasoline	124%	8.5	10.5	-0.0520	-1559.6639	-2599.4398	-5198.8796
India (Mumbai)	68	Mahindra Scorpio	Gasoline	118%	8	9.4	-0.0432	-1295.7447	-2159.5745	-4319.1489
India (Mumbai)	69	Mahindra Scorpio	Gasoline	123%	7.5	9.2	-0.0572	-1714.7826	-2857.9710	-5715.9420
India (Mumbai)	70	Mahindra Scorpio	Gasoline	122%	9	11	-0.0469	-1406.0606	-2343.4343	-4686.8687
India (Mumbai)	71	Mahindra Scorpio	Gasoline	121%	8	9.7	-0.0508	-1524.7423	-2541.2371	-5082.4742
India (Mumbai)	72	Mahindra Scorpio	Gasoline	121%	9	10.9	-0.0449	-1348.0122	-2246.6871	-4493.3741
India (Mumbai)	73	Chervolet Spark	Gasoline	117%	14	16.4	-0.0243	-727.5261	-1212.5436	-2425.0871
India (Mumbai)	74	Chervolet Spark	Gasoline	118%	13.5	15.9	-0.0259	-778.1971	-1296.9951	-2593.9902
India (Mumbai)	75	Chervolet Spark	Gasoline	114%	13	14.8	-0.0217	-651.1435	-1085.2391	-2170.4782
India (Mumbai)	76	Chervolet Spark	Gasoline	117%	15	17.6	-0.0228	-685.4545	-1142.4242	-2284.8485
India (Mumbai)	77	Chervolet Spark	Gasoline	118%	14	16.5	-0.0251	-753.2468	-1255.4113	-2510.8225
India (Mumbai)	78	Chervolet Spark	Gasoline	119%	14	16.7	-0.0268	-803.7639	-1339.6065	-2679.2130
India (Mumbai)	79	Chervolet Spark	Gasoline	117%	15.5	18.1	-0.0215	-645.0187	-1075.0312	-2150.0624
India (Mumbai)	80	Hyundai i10	Gasoline	115%	13	15	-0.0238	-713.8462	-1189.7436	-2379.4872
India (Mumbai)	81	Hyundai i10	Gasoline	117%	13.5	15.8	-0.0250	-750.4923	-1250.8204	-2501.6409

Oversea fuel efficiency / CO2 emission (City: India, Vietnam & Philippines)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
					Before	After	Co2 emissions/km difference (B /A) kg-CO2/L	30.000km travel kg-CO2/L	50.000km travel kg-CO2/L	100.000km travel kg-CO2/L
India(Mumbai)	82	Hyundai i10	Gasoline	115%	13	15	-0.0238	-713.8462	-1189.7436	-2379.4872
India(Mumbai)	83	Hyundai i10	Gasoline	115%	13	15	-0.0238	-713.8462	-1189.7436	-2379.4872
India(Mumbai)	84	Hyundai i10	Gasoline	116%	12.5	14.5	-0.0256	-768.0000	-1280.0000	-2560.0000
India(Mumbai)	85	Hyundai i10	Gasoline	116%	14	16.2	-0.0225	-675.1323	-1125.2205	-2250.4409
India(Mumbai)	86	Hyundai i10	Gasoline	112%	13	14.6	-0.0196	-586.7229	-977.8714	-1955.7429
India(Mumbai)	87	Hyundai Accent	Gasoline	122%	11	13.4	-0.0378	-1133.2429	-1888.7381	-3777.4763
India(Mumbai)	88	Hyundai Accent	Gasoline	124%	11	13.6	-0.0403	-1209.6257	-2016.0428	-4032.0856
India(Mumbai)	89	Hyundai Accent	Gasoline	122%	10.5	12.8	-0.0397	-1191.0714	-1985.1190	-3970.2381
India(Mumbai)	90	Hyundai Accent	Gasoline	119%	11.5	13.7	-0.0324	-971.8819	-1619.8032	-3239.6065
India(Mumbai)	91	Hyundai Accent	Gasoline	123%	10.5	12.9	-0.0411	-1233.2226	-2055.3710	-4110.7420
India(Mumbai)	92	Hyundai Accent	Gasoline	122%	12	14.6	-0.0344	-1032.8767	-1721.4612	-3442.9224
India(Mumbai)	93	Hyundai Accent	Gasoline	123%	11	13.5	-0.0391	-1171.7172	-1952.8620	-3905.7239
India(Mumbai)	94	Honda Accord	Gasoline	131%	7.5	9.8	-0.0726	-2177.9592	-3629.9320	-7259.8639
India(Mumbai)	95	Honda Accord	Gasoline	133%	8	10.6	-0.0711	-2133.9623	-3556.6038	-7113.2075
India(Mumbai)	96	Honda Accord	Gasoline	131%	8	10.5	-0.0690	-2071.4286	-3452.3810	-6904.7619
India(Mumbai)	97	Honda Accord	Gasoline	128%	8	10.2	-0.0625	-1876.4706	-3127.4510	-6254.9020
India(Mumbai)	98	Honda Accord	Gasoline	130%	7	9.1	-0.0765	-2294.5055	-3824.1758	-7648.3516
India(Mumbai)	99	Honda Accord	Gasoline	131%	7	9.2	-0.0793	-2377.6398	-3962.7329	-7925.4658
India(Mumbai)	100	Honda Accord	Gasoline	131%	7.5	9.8	-0.0726	-2177.9592	-3629.9320	-7259.8639
India(Mumbai)	101	Tata Sumo	Diesel	124%	10.5	13	-0.0480	-1439.5604	-2399.2674	-4798.5348
India(Mumbai)	102	Tata Sumo	Diesel	126%	10.5	13.2	-0.0510	-1531.1688	-2551.9481	-5103.8961
India(Mumbai)	103	Tata Sumo	Diesel	125%	10	12.5	-0.0524	-1572.0000	-2620.0000	-5240.0000
India(Mumbai)	104	Tata Sumo	Diesel	124%	10.5	13	-0.0480	-1439.5604	-2399.2674	-4798.5348
India(Mumbai)	105	Tata Sumo	Diesel	125%	11	13.8	-0.0483	-1449.8024	-2416.3373	-4832.6746
India(Mumbai)	106	Tata Sumo	Diesel	121%	11	13.3	-0.0412	-1235.6801	-2059.4668	-4118.9337
India(Mumbai)	107	Tata Sumo	Diesel	124%	10.5	13	-0.0480	-1439.5604	-2399.2674	-4798.5348
India(Mumbai)	108	Maruti eeco	Gasoline	125%	14.5	18.1	-0.0318	-954.6961	-1591.1602	-3182.3204

Oversea fuel efficiency / CO2 emission (City: India, Vietnam & Philippines)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
					Before	After	Co2 emissions/km difference (B / A) kg-CO2/L	30.000km travel kg-CO2/L	50.000km travel kg-CO2/L	100.000km travel kg-CO2/L
India(Mumbai)	109	Maruti eeco	Gasoline	125%	15.5	19.4	-0.0301	-902.6937	-1504.4895	-3008.9790
India(Mumbai)	110	Maruti eeco	Gasoline	125%	15	18.8	-0.0313	-937.8723	-1563.1206	-3126.2411
India(Mumbai)	111	Maruti eeco	Gasoline	122%	15	18.3	-0.0279	-836.7213	-1394.5355	-2789.0710
India(Mumbai)	112	Maruti eeco	Gasoline	126%	14.5	18.3	-0.0332	-996.7213	-1661.2022	-3322.4044
India(Mumbai)	113	Maruti eeco	Gasoline	127%	14	17.8	-0.0354	-1061.3162	-1768.8604	-3537.7207
India(Mumbai)	114	Maruti eeco	Gasoline	126%	14.5	18.3	-0.0332	-996.7213	-1661.2022	-3322.4044
India(Mumbai)	115	Mercedes Benz E250	Gasoline	140%	6.5	9.1	-0.1020	-3059.3407	-5098.9011	-10197.8022
India(Mumbai)	116	Mercedes Benz E250	Gasoline	137%	6.5	8.9	-0.0962	-2887.4676	-4812.4460	-9624.8920
India(Mumbai)	117	Mercedes Benz E250	Gasoline	142%	6	8.5	-0.1137	-3411.7647	-5686.2745	-11372.5490
India(Mumbai)	118	Mercedes Benz E250	Gasoline	140%	6.5	9.1	-0.1020	-3059.3407	-5098.9011	-10197.8022
India(Mumbai)	119	Mercedes Benz E250	Gasoline	141%	7	9.9	-0.0971	-2912.5541	-4854.2569	-9708.5137
India(Mumbai)	120	Mercedes Benz E250	Gasoline	142%	5	7.1	-0.1372	-4117.1831	-6861.9718	-13723.9437
India(Mumbai)	121	Mercedes Benz E250	Gasoline	140%	6	8.4	-0.1105	-3314.2857	-5523.8095	-11047.6190
India(Mumbai)	122	BMW 3 Series	Gasoline	142%	10	14.2	-0.0686	-2058.5915	-3430.9859	-6861.9718
India(Mumbai)	123	BMW 3 Series	Gasoline	144%	9	13	-0.0793	-2379.4872	-3965.8120	-7931.6239
India(Mumbai)	124	BMW 3 Series	Gasoline	142%	10	14.2	-0.0686	-2058.5915	-3430.9859	-6861.9718
India(Mumbai)	125	BMW 3 Series	Gasoline	142%	10	14.2	-0.0686	-2058.5915	-3430.9859	-6861.9718
India(Mumbai)	126	BMW 3 Series	Gasoline	143%	10	14.3	-0.0698	-2092.8671	-3488.1119	-6976.2238
India(Mumbai)	127	BMW 3 Series	Gasoline	139%	11	15.3	-0.0593	-1778.2531	-2963.7552	-5927.5104
India(Mumbai)	128	BMW 3 Series	Gasoline	143%	9.5	13.6	-0.0736	-2208.6687	-3681.1146	-7362.2291
India(Mumbai)	129	Audi A6	Gasoline	151%	6.5	9.8	-0.1202	-3605.6515	-6009.4192	-12018.8383
India(Mumbai)	130	Audi A6	Gasoline	147%	6	8.8	-0.1230	-3690.9091	-6151.5152	-12303.0303
India(Mumbai)	131	Audi A6	Gasoline	151%	7.5	11.3	-0.1040	-3120.7080	-5201.1799	-10402.3599
India(Mumbai)	132	Audi A6	Gasoline	147%	7	10.3	-0.1062	-3185.5756	-5309.2926	-10618.5853
India(Mumbai)	133	Audi A6	Gasoline	152%	6	9.1	-0.1317	-3951.6484	-6586.0806	-13172.1612
India(Mumbai)	134	Audi A6	Gasoline	151%	6.5	9.8	-0.1202	-3605.6515	-6009.4192	-12018.8383
India(Mumbai)	135	Audi A6	Gasoline	151%	6.5	9.8	-0.1202	-3605.6515	-6009.4192	-12018.8383
India(Mumbai)	136	Toyota Fortuner	Gasoline	124%	10	12.4	-0.0449	-1347.0968	-2245.1613	-4490.3226

Oversea fuel efficiency / CO2 emission (City: India, Vietnam & Philippines)

Country	No.	Model/Year	Type of Fuel (L)	Rate of Fuel Efficiency	Fuel Efficiency		Co2 Emissions			
					Before	After	Co2 emissions/km difference (B/A) kg-CO2/L	30,000km travel kg-CO2/L	50,000km travel kg-CO2/L	100,000km travel kg-CO2/L
India(Mumbai)	136	Toyota Fortuner	Gasoline	124%	10	12.4	-0.0449	-1347.0968	-2245.1613	-4490.3226
India(Mumbai)	137	Toyota Fortuner	Gasoline	126%	10	12.6	-0.0479	-1436.1905	-2393.6508	-4787.3016
India(Mumbai)	138	Toyota Fortuner	Gasoline	124%	9	11.2	-0.0506	-1519.0476	-2531.7460	-5063.4921
India(Mumbai)	139	Toyota Fortuner	Gasoline	124%	9.5	11.8	-0.0476	-1428.0107	-2380.0178	-4760.0357
India(Mumbai)	140	Toyota Fortuner	Gasoline	125%	11	13.8	-0.0428	-1283.7945	-2139.6574	-4279.3149
India(Mumbai)	141	Toyota Fortuner	Gasoline	125%	8	10	-0.0580	-1740.0000	-2900.0000	-5800.0000
India(Mumbai)	142	Toyota Fortuner	Gasoline	121%	10	12.1	-0.0403	-1207.9339	-2013.2231	-4026.4463
India(Mumbai)	143	Maruti Wagon R	Gasoline	122%	16	19.5	-0.0260	-780.7692	-1301.2821	-2602.5641
India(Mumbai)	144	Maruti Wagon R	Gasoline	124%	12	14.9	-0.0376	-1128.8591	-1881.4318	-3762.8635
India(Mumbai)	145	Maruti Wagon R	Gasoline	123%	17	20.9	-0.0255	-763.9741	-1273.2902	-2546.5804
India(Mumbai)	146	Maruti Wagon R	Gasoline	122%	16	19.5	-0.0260	-780.7692	-1301.2821	-2602.5641
India(Mumbai)	147	Maruti Wagon R	Gasoline	122%	15	18.3	-0.0279	-836.7213	-1394.5355	-2789.0710
India(Mumbai)	148	Maruti Wagon R	Gasoline	119%	15	17.9	-0.0251	-751.7318	-1252.8864	-2505.7728
India(Mumbai)	149	Maruti Wagon R	Gasoline	123%	11	13.5	-0.0391	-1171.7172	-1952.8620	-3905.7239
Philippines(Manila)	150	Toyota Fortuner Gas	Gasoline	130%	8	10.4	-0.0669	-2007.6923	-3346.1538	-6692.3077
Philippines(Manila)	151	Hyundai Elantra Gas	Gasoline	135%	20	27	-0.0301	-902.2222	-1503.7037	-3007.4074
Philippines(Manila)	152	Mitsubishi Strada GLX-V Diesel	Diesel	143%	16	22.8	-0.0488	-1465.1316	-2441.8860	-4883.7719
Philippines(Manila)	153	Hyundai Starex Diesel	Diesel	136%	10	13.6	-0.0694	-2080.5882	-3467.6471	-6935.2941
Philippines(Manila)	154	Mitsubishi L300 FB Diesel	Diesel	131%	15	19.6	-0.0410	-1229.7959	-2049.6599	-4099.3197
Philippines(Manila)	155	Isuzu D-Max Diesel	Diesel	140%	14	19.6	-0.0535	-1604.0816	-2673.4694	-5346.9388

**Thank you for your
undivided attention!**

Vector Japan Co., Ltd.