

GENERAL CATALOGUE

OUR EXPERIENCE

OVER 20 YEARS OF EXPERIENCE AT YOUR SERVICE

Strongly oriented towards the innovation of mobility systems, Green Vehicles operates nationally and internationally with turnkey solutions ranging from the supply of 100% electric vehicles to the provision of parking and charging systems. The range of electric vehicles proposed by Green Vehicles addresses to companies, offering integrated solutions focused to the conversion of company fleets. The Green Vehicles vehicles can also count on a wide range of special equipment: starting from the standard frames, numerous changes have been made to the loading spaces, directing them towards the world of waste collection or the transport of particular goods, including the preparations for refrigerated compartments. Today Green Vehicles is manufacturer and distributor of Made in Italy electric vehicles, also able to prepare the electrical transformation of endothermic engine vehicles.

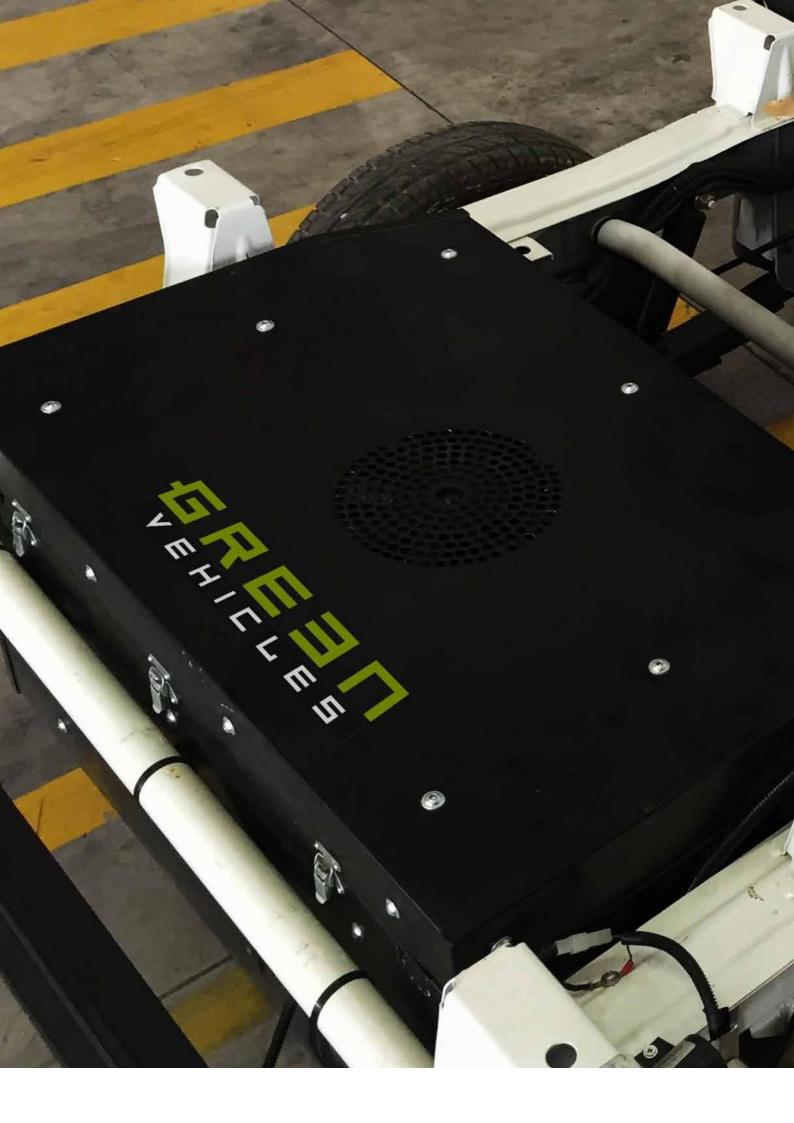
The REFERENCE MARKET

ThE SITUATION DAY OF DAY

The world of road mobility is changing rapidly: electric vehicles are being tested in the commercial transport and car sharing sectors. The regulations of many countries are aimed at reducing the circulation of the most traditional polluting commercial vehicles in some urban areas, making their circulation increasingly difficult and expensive.

The endowment of electric commercial vehicles able to obviate these limitations in the circulation becomes, therefore, more and more essential for whoever wants to continue to circulate in historical centers, areas with limited traffic and, in general, in countries with more and more limiting regulations in function of a reduction of polluting emissions.





KNOWHOW SALE

NOT A SIMPLE ADVICE

Green Vehicles proposes, through its own technologies and ten-year know-how in the sector, to promote collaborative projects in order to build new entrepreneurial realities with the models of vehicles designed and created ad hoc as protagonists. The role of Green Vehicles would not be reduced to that of a simple one-off consultancy, but rather to a continuous and in-depth type of relationship, where its own Research

& Development would act as a balance needle in the packaging of a type of product suited to the needs of size, autonomy of travel and circulation of the sector or area of reference.

WE FOLLOW YOU CONSTANTLY

DEVELOPMENT Ph ASES

Green Vehicles believes that any measure to be implemented in the mobility market should be managed in the best possible way to be introduced into the market alongside with the sharing of strategy and technical know-how through:

Step Transfer of the Know how Start of prototype management phase Start of production







ELETTRACARGO

ELECTRIC VEHICLES

ElettraCARGO is the smallest vehicle in the range. Despite this, it has a very large and easily manageable load compartment, given the presence of a large rear hatch.

ElettraCARGO is a 100% electric quadricycle, suitable for internal journeys in private contexts such as department stores and tourist villages, and city routes.

Avalid ally for commercial fleets, its equipment is suitable for transporting waste, gear, food and postal packages.

ElettraCARGO in non-approved version is perfect for circulation in private areas such as department stores, golf clubs, fish and fruit and vegetable markets, etc.



REFER**ENCES**

OVER 20 YEARS OF EXPERIENCE

Turin 2006 Winter Olympics: 50 vehicles for urban cleaning services 2008 Beijing Olympics: 35 vehicles with a fine dust analysis system

Frankfurt airport: special equipment for luggage transport

Military bases and UN bases: 28 vehicles for transporting people and equipment











Technical features:

Vehicle category: heavy quadricycle

Length max: 2850 mm Width: 1270 mm Max height: 1910 mm Electric motor: Brushess Rated power: 5 kW Maximum power: 10 kW Battery pack: Lithium

Max gradient that can be overcome: 18% Autonomy: from 50 to 150 km and beyond

Maximum speed: 45 km / h

Total capacity on the ground: I I 00 Kg

Front brakes: Disc Rear brakes: Drum

Seats: 2

Frame: in enamelled painted steel

Electric motor







ELETTRACITY

ELECTRIC VEHICLES

ElettraCity is the smallest vehicle in the range. This makes it easily manageable in traffic situations, but extremely comfortable.

ElettraCity is a 100% electric quadricycle, suitable for internal journeys in private contexts such as department stores and tourist villages, and city routes.

Avalid ally in urban centers, its modern design makes it appealing and innovative.



TOWhOM wEADDRESS

OVER 20 YEARS OF EXPERIENCE

Private: easy to drive, design, innovative and full electric at an unbeatable price Public Administrations: Municipal police stations, post offices, municipalities are just some of the possible destinations

Car Sharing: For the rental of practical vehicles for the city center











Technical features:

Vehicle category: heavy quadricycle

Length max: 2300 mm Width: 1270 mm Max height: 1850 mm Electric motor: Brushess Rated power: 5 kW Maximum power: 10 kW Battery pack: Lithium

Max gradient that can be overcome: 18%

Autonomy: 120 km

Maximum speed: 45 km / h

Total capacity on the ground: I 100 Kg

Front brakes: Disc Rear brakes: Drum

Seats: 2

Frame: in enamelled painted steel

Electric motor



ELETTRACARGO MAXI

VEICOLI ELETTRICI

ElettraCARGO MAXI, as the name implies, is perfect for those who need a vehicle larger than the ElettraCARGO.

It was designed and built from scratch as an electric vehicle so it has a low environmental impact

Its size and maneuverability makes it perfect for traveling in urban centers and is therefore suitable for all companies that need a medium-sized vehicle, but with a large capacity.

CARATTERISTICHE PRINCIPALI:

- Electric power steering
- Steering wheel in PU Handrail on the roof
- Seat in PVC
- Display 7 inches
- Loudspeaker system
- Remote monitoring
- Ordinary projector

- Headlamp
- Manual window
- Manual exterior rear-view mirror
- Intermittent front wiper
- Defrosting with hot air
- Reversing camera
- Reversing sensor



POSSIBILI ALLESTIMENTI E CARATTERISTICHE TECNICHE

ElettraCARGO MAXI can be set up with open body, closed body, fridge box, etc.















Caratteristiche tecniche:

Overall Truck Dimension(L*W*H): (mm) 3700*1400*1905

Carriage Size: 2270*1400*1200

Wheelbase(mm): 1800 Net Weight (kg): 1070

Payload: 500

Gross Weght:1700 Max Gradeability: 20%

Range (km): 100/150 based on type of guide

Maximum speed: 45 km/h
Charging time: 10-12
Rated power: 10 kW
Maximum power: 15 kW
Battery Type: Lithium battery

Front/rear Suspension Type: Independent suspension

Front/rear Brake Type: Disc/Disc



ECOMILE

ELECTRIC VEHICLES

ECO MILE is the vehicle of the range that has had the greatest diffusion on the market of gas vehicles, in its first LPG and CNG edition. Currently, thanks to the renewed technical characteristics and the new electric motors, it's coming across to all those public and / or private companies that have chosen to convert their commercial vehicle fleets.

The spacious and comfortable driver's cab guarantees maximum levels of comfort for the service personnel.

The special equipment so far made for ECO MILE has been dedicated mostly to the waste collection and disposal cycle: the possibility of being able to accommodate compaction systems is perfectly integrated with the dimensional characteristics and load capacity of this vehicle.

The ECO MILE is available in the fully electric version thanks to the Full Electric kit or in the Range Extender version.



REFERENCES

OVER 20 YEARS OF EXPERIENCE

Municipality of Rome - AMA SpA: 26 vehicles for street cleaning services

Barcelona (Spain): 6 vehicles for sanitation services

Construction companies: special equipment with tipping body

Food industries: special equipment with refrigerated load compartment

Funeral homes: special arrangements for ceremonies











Technical features:

Pitch: 2080 mm

Length: chassis: mm4030 Rear overhang: 900 mm

Minimum diameter of volts: 7980 mm Frame height from the ground: 720 mm

Chassis height: 1820 mm Chassis width: mm1560 Max height: 3000 mm

Front brakes: Disc Rear brakes: Drum

Electric motor:

 $\label{thm:constraint} \textbf{Three-phase asynchronous Alternating}$

current

Rated Power: 19 kW Maximum power: 28kW Battery pack: 96V (52 cells 150Ah)

Batteries: Lithium Polymers

Max gradient that can be overcome: 18%

Autonomy: I20km Max speed: 80km / h

Max carriage (L.W. h) mm 2450x1560x2280

Cabin tare: 1165 kg Total weight kg2100 Chassis payload 935 kg

ELETTROVINTAGE: SPIAGGINA500

ELECTRIC VEHICLES

The 500 Spiaggina is a timeless myth of the 1960s that immediately recalls the atmospheres of the Dolce Vita, of beach holidays, of the golden years of the Italian economy.

Green Vehicles has decided to give new life to this model from another time, making a collector's car completely electric, with over 90 km of autonomy and a speed that reaches 80 km/h.

La Spiaggina was born as an artisanal transformation of small cars of the first post-war period to create unique cars according to the requests, eliminating the roof, the windows, the doors and replacing the interiors.

Green Vehicles renews this all-Italian tradition, to revive the body car of a myth, providing it with a completely ecological engine.

The 500 Spiaggina beach, as well as being a real collector's item, is a highly suggestive car for the imaginary that evokes in numerous contexts, from tourism to special events.

"ELETTROVINTAGE" by Green Vehicles includes all the transformations of vintage vehicles into completely ecological vehicles while maintaining their original charm.

We set no limits! Through a positive feasibility study, we can electrify any vehicle.





ELETTRABUGGY

ELECTRIC VEHICLES

Green Vehicles with ElettraBUGGY has focused on a unique and exclusive design that intercepts the interest of sports and automotive enthusiasts.

The fields of application for this full-electric vehicle not only those in the sports field, but also involve the world of agriculture and land control.

The vehicle has generated a new need in the target consumer by focusing on the values of ecology and saving resources maintaining high vehicle performance.

The vehicle is also produced in the Full Off-Road version, for those who love the off-road and its adrenaline emotions.



Mechanical characteristics:

Places: 2

Rear-wheel Drive Wheelbase: 1926 mm Reduction ratio: 1:10:24 Self-locking differential

Track: 1600 mm Width: 1600 mm Length: 1600 mm Height: 1660 mm Empty weight: 470 kg Load mass: 205 kg

Mass in running order: 670 kg Technically permissible maximum

mass: 1000 kg

Front rims: 14 x 7 (inch)
Rear rims: 14 x 8 (inch)
Front suspension: Triangular

superimposed

Rear suspension: Single arm

Shock stroke: 220 mm







ELETTRA SUV

Green Vehicles tries to have a range of products for everyone and within everyone's reach, for this reason Elettra SUV was born, a heavy quadricycle. Elettra SUV has a very competitive price on the market and is suitable for both individuals and companies to move around the city and beyond.

OPTIONAL:

Possibility to install a *photovoltaic roof panel* that allows you to recharge the battery up to 20/30% of the basic autonomy.

To monitor the whole an <u>App</u> that, with its simple interface, allows the user in real time to have immediate access to the location of the vehicle and its charging status.















CARATTERISTICHE PRINCIPALI:

- o MAIN FEATURES:
- o 2 places
- o 220km Autonomy
- o 7 inch display
- o Rear view camera
- o Spacious trunk
- o Digital dashboard
- o Alloy wheels
- Sunroof
- Electric window lifters
- Bars brings everything
- o Possibility of truck version



SYSTEMS AND SOLUTIONS

KIT AND MORE

_HYBRID PATENTED SYSTEm



The hybrid Green Vehicles system is the simplest technology with which to approve a hybrid car and get all the typical benefits of this classification.

The Patented System, It is a light hybrid system that includes an electric motor that does not replace the traditional endothermic engine, but actively participates in traction.

The electric motor, as for all hybrid cars, also works as a generator: in the deceleration and braking phases, in fact, it recovers and stores energy, which otherwise would be lost in order to be able to subsequently exploit it in the traction phase.

FULL ELECTRIC



Green Vehicles electric vehicles offer, thanks to the quality of the BMS and battery packs, maximum performance in view of an autonomy that makes it possible to support any travel need, whether it is designed for the transport of goods or people.

The 100% electric commercial vehicles are the perfect solution for those who have to work in the historic centers or in the LTZs of the big cities, as well as for a choice of eco-sustainable mobility.

Suitable for the Last Mile mobility projects, the Green Vehicles Full Electric vehicles include a traction system that allows the vehicle to travel at zero emissions and that involves numerous economic benefits on the costs of managing the vehicle itself.

RANGE EXTENDER



The Range Extender system solves all the main obstacles to the spread of electric vehicles with an economic and ecological solution: maximum freedom of movement and all the autonomy you were looking for at the same price as a traditional gas vehicle.

The Range Extender Kit is a mixed hybrid system that allows travel with electric traction, with the possibility of recharging the battery on board with a diesel generator.

This solves many of the problems associated with charging systems that hinder the spread of sustainable electric mobility.

The cost savings on fuel and vehicle management of the Range Extender electrical system is considerable (up to 30% for the fuel, reaching 35% for the cost of managing the vehicle).

BI mODAL



The Bi Modal Kit is a parallel hybrid system that allows travel either in thermal (Diesel, Petrol, LPG or CNG) or electric, never simultaneously.

The Bi Modal technology developed by Green Vehicles allows to use the vehicle's endothermic engine alongside an electric traction system. From the driving position it is therefore possible to insert or exclude the traditional engine by selecting the ideal traction for the type of route to be faced.

The original endothermic engine is then maintained, flanked by an electric motor and a small battery pack so as to allow the transition from traditional driving to electric driving through the car controls.

Using the electric motor can significantly reduce fuel costs (up to 30%) and vehicle management (up to 35%).

DIESEL-LPG

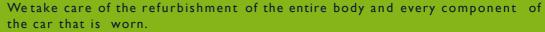


The Diesel-LPG System is a system for the simultaneous mixing of Diesel and LPG fuels. The transformation of a diesel engine into a double-mixing engine allows obtaining vehicles less polluting, with positive effects on the environment, but also with numerous facilities for circulation.

The Diesel-LPG system, in fact, allows the reduction of 60% of particulate emissions and a reduction equal to 20% of carbon dioxide and nitrogen monoxide.

Precisely because of the lower emissions, vehicles that use diesel-LPG double mixing have access to many areas with limited traffic and it is therefore possible to circulate in historic centres and in LTZs.

REVAMPING



We also carry out the complete repainting of the vehicle to renew its aesthetics.

With the revamping of the vehicle it is possible to restore the appearance and performance of the vehicle.

In the vehicle evaluation phase it is also possible to decide to replace the engine with a totally or partially electric one, in order to reduce maintenance costs and obtain a car with low emissions.



ELECTRIFICATION OF OTHER VEHICLES

ELECTRIC VEHICLES

The Retrofit Decree n.219 / 15 entitled "Regulation concerning an electrical requalification system for equipping M and NI cars", establishes under article 4 that "Each electrical requalification system is designed, constructed and assembled so that, in normal conditions of use and despite the stresses to which it may be subjected, the original characteristics of the vehicle in terms of performance and safety are not altered, as well as in order to last the corrosion and aging agents to which it is exposed". The electrification of a vehicle represents the most artisanal type of activity that Green Vehicles carries out, since the modification of a traction system passes from a careful feasibility analysis, from the study of the vehicle in terms of dimensions and weights, as well as from the possibility of interventions inside the vehicle. The future regulatory plans regarding mobility follow a logic of prohibition of the access of vehicles, both private and commercial, excessively polluting within urban areas and in city centres.

Our total electrification kits (100% electric) or partial electrification (hybrids) allow emissions to be reduced and therefore represent the solution for those who want to continue to enter areas subject to limited traffic. Following some vehicles that have already been electrified in the past.



PORTFOLIO

SOME PROJECTS CONCLUDED

N° 26 Ecomile - AMA di Roma



n° I Ducato Minibus - Comune Sant'Agata di Puglia



N° 22 Jolly - Medi Ambient, Barcellona





N° I Jolly 2000 - Aereoporto Bruxelles



N° 6 Ecomile - Medi Ambient Barcellona



Nº 1 Elettra - AMIAT di Torino



nº3 Elettra - KOMOP, Croazia



nº 2 Elettra - Parco Nazionale della SELVA BOEMA



 n° 27 Elettra - MI MUOVO ELETTRICO-FREE CARBON CITY Emilia Romagna



ElettraCargo color versions



SISTEMI DI RICARICA



The charging station is an equipment that allows the charging of electric vehicles.

The use of the GM CR01 charging column is not permitted for other purposes.

Green Vehicles has two types of columns in the house, but it is possible to supply any column according to the customer's requests.

Available systems:

- Column in painted sheet steel with 1 socket Type 3A 16A 230V 3.7kW with RFID identification
- Column in painted sheet steel with 2 sockets Type 2 32A 400Vac 22kW plug / cover block. Complete with software

The supporting structure of the charging station is made of steel and completed with a plexiglass panel on the front.

This structure guarantees structural resistance and electrical insulation. The internal electronics and the relative power part is enclosed in an IP65 framework that guarantees adequate protection against atmospheric agents and allows installation outside.





The Wall BOX is a charging station that can be inserted in the external environment of your apartment so that you can charge electric cars.

As for the columns, also for the Wall Boxes we only have one available. However, we can supply any charging station based on customer requests

Wall Box available:

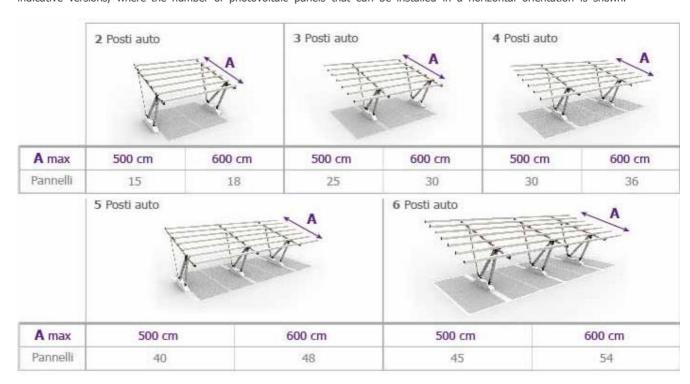
- Complete Wall Box with 32 A Type 2 socket, up to 7.2 kw.





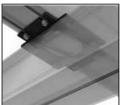
SOLAR CARPORT DATASHEET

A single structure is able to cover long rows of parking spaces reaching a maximum length up to 600 cm. This page shows some indicative versions, where the number of photovoltaic panels that can be installed in a horizontal orientation is shown.



The structure has brilliantly passed the load test to which it was subjected, reacting to the maximum load required by static calculations with no permanent deformation. On each rafter they weighed for two days two 200 kg weights, exerting maximum effort on the joints of











TAILOR - mADE SOLAR CARPORT

MOUNTING COMPONENTS

- -Reinforced concrete anchor bracket
- -Bracket + 2 pickets for compact terrains
- -Bracket + 4 pickets for compact terrains
- -Bracket + 6 pickets for compact terrains







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