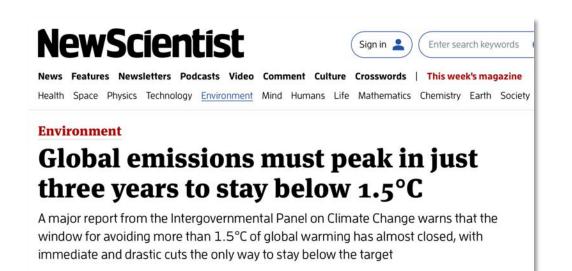
RETROFIT IN EUROPE

ELECTRIC CONVERSION / RETROFIT / BATTERIES / HYDROGEN IMPACT/CIRCULAR ECONOMY/SAVINGS/LOCAL JOBS



Let's face it! We have 3 years to reverse Global warming



The New York Times

Climate Change Is Speeding Toward Catastrophe. The Next Decade Is Crucial, U.N. Panel Says.

A new report says it is still possible to hold global warming to relatively safe levels, but doing so will require global cooperation, billions of dollars and big changes.



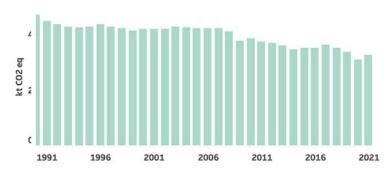
Transportation is 30% of the 3,2 billions of tons eqCO2 of GHG each year in Europe

Responsible of climate change

Responsible of hundred thousands of premature deaths in Europe

Emissions in EU-27

Hover over the bars to see emissions



Even if it decreases in Europe thanks to European Path to Neutral and GHG efforts, Transportation volume is growing.

https://www.eea.europa.eu/data-and-maps/data/data-viewers/greenhouse-gases-viewer





5510

Millions vehicles

97% ICE (diesel/gas)

1.3 Billion vehicles in the world

It would take 50 years to reach **50% No Emission Vehicles** 50% GHG Emission







Retrofit is a global phenomenon

More than 30 countries More than 300 companies More than 30,000 vehicles already converted

FRANCE

The most advanced ecosystem and regulation

LATIN AMERICA

Growing

Et Bien plus

USA

The country where it all started with more than 50 companies

EUROPE

Harmonised regulation by 2025

UK

Restomods and industrial heaven

AFRICA

Plan of 300,000 conversions in Egypt, Kenya, Gabon



GERMANY

Leader in industrial retrofit for buses and trucks in Europe

INDONESIA

Target: 200,000 motorcycles converted

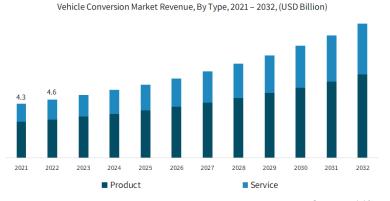


A BIG AND BIGGER MARKET





From \$4.6 BN To \$10.5 in 2032



Source: www.gminsights.com



FRANCE AND EUROPE

Retrofitting is allowed in France.

Since April 2020, it has been possible to convert all combustion vehicles into electric vehicles.

Some countries allow it (Germany, Netherlands) but some don't (Spain, Serbia, etc..)

A European harmonization is in progress.









ELECTRIC CONVERSION / RETROFIT: WHAT IS IT?



#DECARBONATENOW



WHAT IS RETROFIT?

Retrofitting is a process that consists of transforming a thermal vehicle (gasoline or diesel) into electric (whose autonomy varies depending on the model).



In short, it is an alternative that allows you to benefit from the advantages of an electric vehicle, at a lower cost.

And concretely, this gives a second life to your old vehicle (no more than ten years), which is often still in very good condition to drive.







PURE CIRCULAR ECONOMY



- ✓ It's good for the planet and the environment,
- √ This is good for the purchasing power of users,
- √ It's good for jobs,
- ✓ It is good for the quality of urban life, as well as rural (air and noise)

Retrofit responds to major challenges of sustainable development, in a circular economy approach so as not to destroy, but to rehabilitate vehicles in perfect condition to drive ...

And above all, to put activity back into France throughout the production chain (from vehicles to batteries to hydrogen).

It is a real clean mobility solution of the future for ALL.

- emissionssavings
- wasteadvantages







DAILY IMPACT







For direct consumers:

- Individuals: Access to clean vehicles at a lower cost.
- Craftsmen: Access to a clean motorization without having to change vehicles and completely redevelop it.

For public administration and businesses:

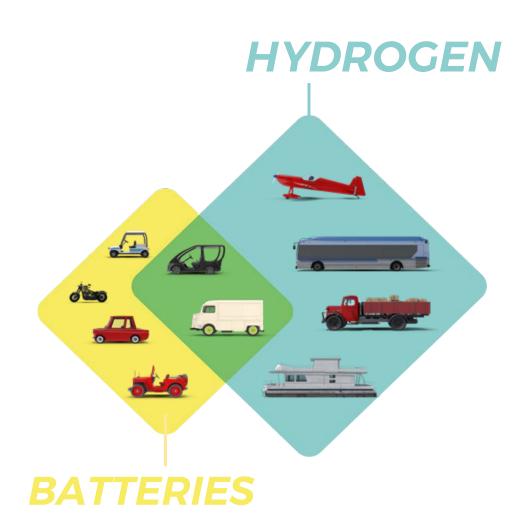
- Compliance with the decarbonisation objectives of their existing fleet and their obligations to purchase new vehicles.
- Exemplarity of the composition of their vehicle fleets.
- Support for industry and automotive jobs.

And more particularly for cities:

- Improvement of living conditions. Electric vehicles have the advantage of generating low noise in urban traffic conditions and can thus help reduce noise pollution in the city.
- An ideal answer to the problem of last-mile logistics, which represents between 30 and 40% of the economic costs of transport and emissions.*



TECHNOLOGY OF THE FUTURE



Electric retrofit is with batteries or hydrogen with Fuel Cell

Small use < 180 km = batteries Large use > 180 km = Hydrogen

INDUSTRIAL MANUFACTURER REGULATION

Any vehicle >5 years can be retrofitted

Respect
of the weight
of masses balance
of the original power

State approval
(UTAC CERAM - CNRV)

(no transformation of other security elements)

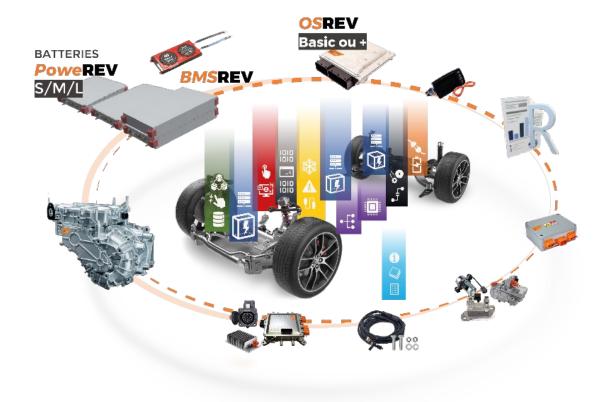
The great strength of French retrofit is to propose an industrializable solution (economical, sustainable, reliable and scalable)

Through a manufacturer's 'Series' approval, respecting current European standards for components and batteries

Thus ensuring a higher degree of security than all the 'artisanal' retrofits present in the world (vs + 50 countries where it is sometimes... dangerous)

And the certification of partner garages or workshops retrofitted in 'electromechanics' (garages of tomorrow, jobs and training of the future)

DOUBLY CERTIFIED KITS



1/ All elements are approved and certified upstream

=> car manufacturer supply chain

2/ The prototype vehicle is designed by our engineering teams

=> 15 engineering competences, electronics, control

3/ Tests and Certification

=> between 12 and 15 months to develop a model



THE TRANSFORMATION PROCESS





ARRIVAL
OF VEHICLE
THERMAL AT
THE INSTALLER



EXTRACTION
OF THE EXISTING
THERMAL
POWERTRAIN



INTEGRATION OF THE ELECTRIC POWERTRAIN



TESTS
DRIVING
& REACTIONS
OF CONVERTED
VEHICLE



CLIENT

CLIENT

30 TO 40 HOURS - BETWEEN 2000 AND 2400€

	† † + *	Ť
	2 MECHANICS / 1 LIFT	1 MECHANIC
©	(O) 30 TO 40 HOURS (E) 1800 € À 2200 €	(3 HOURS (2 2 2 0 0 €



ECOLOGICAL AND ECONOMICAL BENEFITS OF RETROFIT



ECOLOGICAL IMPACT



-66% GHG Retrofit is
66% decrease
of Greenhouse Gases*
On the Vehicle life

*GES : CO2, Nox,... Vs conservation of a diesel vehicle.

Source Ademe Retrofit Lifecycle analysis 2021 www.ademe.fr,



ECOLOGICAL IMPACT





REDUCTION OF GREENHOUSE GASES OVER THE ENTIRE LIFE OF THE VEHICLE FOR A MID-LIFE RETROFIT (AT 10 YEARS OLD)

VS STAYING DIESEL





1 CAR



-66% GHG 4 TONS
GHG eq. CO2
Saved on 6 tons average.

1 LCV



-61% =

6 TONS
GHG eq. CO2
Saved on 10 tons average.

1 TRUCK OR BUS (12M)



-87% =

316 TONS
GHG eq. CO2
Saved on 363 tons average.









* Calculation made from the average of the manufacturer's rates displayed. By adding the savings on equipment and customization of the vehicle.

50% SAVINGS*

VS PURCHASE OF A NEW ELECTRIC VEHICLE

AND UP TO 70%
IF THE VEHICLE IS EQUIPPED.



FOCUS EQUIPED LCV





* Sources MINISTÈRE DES TRANSPORTS, AIRe, AVERE





WE HAVE BIG SUBSIDIES IN FRANCE



- > Up to 9 500€ for Individuals *
- > Up to 17 000 € for Companies*



FRANCE

Prime à la conversion rétrofit (PAC):

up to 6 000 €* **Individuals Entreprises** up to 10 000 €* Camion et bus up to 100 000 €*

Majoration LES / ZFE: +1000 €*

Government Tender: Sur dossier*



LOCAL

Régions:

Île de France up to 2 500 €*

up to 4 000 € (car) /8 000 € (LCV) /50 000 € (Heavy)* **Grand Est**

Sud (PACA) up to 7 500 €*

Agglomérations:

Grand Reims de 1 000 € à 10 000 €*

Strasbourg up to 2 500 €* up to 4 000 €* **Toulouse** Grenoble up to 12 000 €* **Grand Lyon** up to 6 000 €* up to 2 000 €* Rouen



#DECARBONATENOW



FRENCH GOVERNMENT PLAN

Decarbonisation of transport: launch of a national retrofit action plan in 2023.

After a consultation phase with the sector, the Government is launching an action plan around three priority projects:

- **Regulatory simplification:** Simplifications will be pursued. At the same time, the France will support the definition of a harmonised European framework for retrofit.
- Strengthening support and bonuses: the
 objective is to support the retrofit of vehicles (cars, LCVs, heavy
 goods vehicles, etc.) via the conversion premium, the tender on
 electric heavy vehicles, etc. Support will be strengthened in the
 next budget bill.
- Support for the development of the retrofit sector:
 via calls for projects to support R&D and investments.
 Development and testing costs to prepare for accreditation may be covered as part of the CORAM 2023 call for projects. A
 Retrofit Task Force will be set up.

 $\frac{https://presse.economie.gouv.fr/26042023-decarbonation-des-transports-lancement-dun-plan-daction-national-enfaveur-du-retrofit/$



IN SHORT



ECONOMICAL

2 to 3x cheaper

- That a new electric vehicle is equivalent.
- Equipment and flocking preserved.

Économie à l'usage

- Fewer breakdowns and maintenance.
- Cost of a recharge between 50% and 75% Cheaper than a full of fuel

2

ECOLOGICAL

Immediate Impact

with a decrease in the carbon footprint. (-61% CO2)...

Économie circulaire

with the recycling of used vehicle parts.

No Emission

3

COMFORT

Automatic transmission, reducing health issues.

Noise reduction for peaceful driving.

* estimation : 20 000 km/year, diesel 1,96€/I and electricity 0,21€/kWh **Source ADEME





ABOUT





Du 3,5 tonnes

au 40 tonnes

REV pepper

BUS. COACHES &

HEAVY VEHICLES

B2B

50% JV

REV MOBILITIES THE BIGGEST RETROFIT COMPANY IN THE 3 BIGGEST MOBILITY SEGMENTS!

MOST EMITTING AND EQUIPPED VEHICLES:

- > PASSENGER CARS,
- > LCVs.
- > HEAVY.



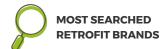


HYDROGEN DEVELOPMENT IN 2025.















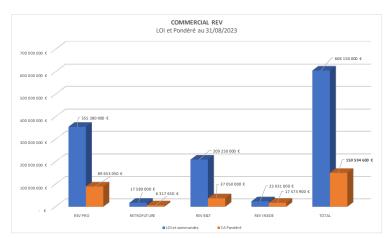
75% France
25% International



9 000 Quotes



A commercial pipeline > 150M€



CLIENTS CASES



46% ARTISANS OF MAPA INSURANCE WANT RETROFIT

Rev Mobilities s'associe à la Mapa pour pousser le rétrofit chez les pros de l'alimentaire

Publié le 23 novembre 2021 Par Gredy Raffin 4 min de lecture

A l'occasion de la parution d'une étude réalisée conjointement, le spécialiste du rétrofit et la mutuelle des professions de l'alimentaire ont annoncé le lancement d'une offre dès 2022. Rev Mobilities et la Mapa souhaitent accompagner les artisans dans leur transition écologique.



Rev Mobilities et la Mapa ont entériné le lancement d'une offre conjointe de rétrofit de VUL dans les mois à venir.

The Mutuelle d'Assurance des Professions Alimentaires (MAPA), created in 1911, wanted to develop a partnership with REV Mobilities in order to offer a retrofit offer to its members.

A survey was then conducted by the company among a representative group of its 120,000 members, who also face economic constraints (increase in fuel prices) and regulatory constraints (access to EPZs).

The figures are clear, nearly one in two members say they are interested in retrofit, and nearly one in four wants to be contacted as soon as an offer is available!

These figures were also confirmed during our roadshow, where professionals, craftsmen and traders came by the hundreds to inquire, or even to place orders with REV Mobilities.

CLIENTS CASES



SAPIAN TRANSFORMS ITS FLEET

WITH REV PROFESSIONAL

Rétrofit : REV Mobilities va convertir la flotte de Sapian

Publié le 4 avril 2023 Par Gredy Raffin 2 min de lecture

Par le biais de sa filiale REV Professional, le groupe REV Mobilities vient de signer un accord avec la société Sapian. Le contrat porte sur la conversion à l'électrique d'une partie de la flotte de véhicules roulant actuellement au gazole.



Rev Mobilities va convertir à l'électrique une centaine de véhicules utilitaires du groupe Sapian. ©Sapian

SAPIAN, one of the leading players in services dedicated to sanitation, air hygiene, pest control and fire protection throughout France, announces its partnership with REV Professional, the utility and fleet subsidiary of REV Mobilities.

The long-term goal if the technology is relevant for SAPIAN is for REV Professional to retrofit a hundred diesel vehicles from the Sapian fleet with its electric propulsion systems.

This partnership will enable Sapian to adopt a non-polluting and virtuous mobility solution for its travel to the places of intervention, and to gradually green its fleet of commercial vehicles.

The retrofitted vehicles will be equipped with French-designed batteries that will allow autonomy corresponding to the mobility needs of the hygiene company.

The retrofit project for Sapian's commercial vehicle fleet is expected to begin in early 2024.

CLIENTS CASES



TRANSPORTATION AUTHORITIES

CALLS REV BUS&TRUCK



The Tignes Resort in the Alps committed to zero carbon

The REV PEPPER MOTION retrofitted bus passed the most drastic practical test: the Tignes station used a diesel bus converted to electric to transport passengers from early February to early March 2023 in difficult conditions, with temperatures down to -10 degrees Celsius and altitude differences of more than 1000 meters.

Tignes, particularly known for its ski resorts located at altitudes ranging from 1550 to 3456 meters, is very committed to the decarbonization of its infrastructure and mobility.

"The test of a retrofitted bus in real operation is convincing and the conversion of our shuttles to electric appears to be an ideal solution to support our commitment to Zero Carbon" says Julien Beltrami, Director of Operations at STEM.

___The bus ran for up to seven hours a day thanks to a 240 kWh battery system, to the great satisfaction of the local transport operator STGM (Sociétés des Téléphériques de la Grande Motte).



2024

REV Projection CATALOGUE 2024-2026



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OUR 3 LEADING BRANDS

Across the three major mobility segments





ELECTRIC RETROFITFOR YOUR OWN FLEET.

Retrofit your own LCV fleet, especially if they have an expensive equipment!



Small LCVs
Starting 19 000€ HT*





More information on www.rev-professional.com

Change the world, with style.

RETROFUTURE,
THE RETROFIT BRAND
FOR CLASSIC AND VINTAGE CARS.

Convert to electric the car of your heart.

From the mythical Fiat 500 to the Defender adventurer through the eternal VW Combi and small pleasure cabriolets MG-B and Triumph Spitfire, discover our range of 15 exclusive retrofitted Retrofuture cars.

More information on www.retrofuture-ev.com



ELECTRIFY TRANSPORTATION!

AND SAVE THE WORLD.



Communities, transport and logistics companies, we support you in your environmental transition thanks to our catalog of electric retrofit with batteries and hydrogen.

REVBUS&TRUCK (\$ REV-PEPPER





More information on www.rev-mobilities.com

WE SELL OUR KITS AND BATTERIES TO PARTNERS WORLDWIDE

TO DECARBONATE MASSIVELY.



REV Inside kits

The only and unique on the market plug-ang-play innovative retrofit solution with the highest modularity and safety, at the lowest and fair cost...



More information on www.rev-mobilities.com

REV Inside developed
4 powertrain
systems

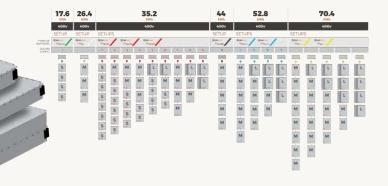
for the 4 main segments



And 4 PoweREV Modular batteries

2.2 kWh / 4.4 kWh 8.8 kWh / 17.6 kWh (R100-2 / IP67) With multi-voltage

21 combinations possible Never seen on the market









NEXT 10 YEARS IMPACT OF REV GREENING 4 MILLION TONS 300 000 **GHG Eq. CO2 SAVED**

