

Press kit

**The Renault
MÉGANE eVISION
show-car**



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INTRODUCTION



MÉGANE eVISION – the future of the electric car

Renault is the world's leading French car manufacturer, and despite having a rich history stretching back over more than 120 years, the company is constantly looking to the future and innovating. The many changing technological, societal and environmental challenges that the car industry is facing are the driving force behind Renault's expansion.

Over the last few years, cars have moved on to a whole new level. Where once they were a simple means of transport, now they have become a shared-mobility solution with more and more onboard connected technology. Renault has long been aware of this shift, and earlier this year, designed a new and innovative concept called Renault MORPHOZ – a versatile, modular and autonomous electric concept car which underlines the new forms of mobility.

Today, Renault is writing a new chapter in the history of the brand with the Mégane eVision – an innovative show-car that is not only visionary but also aspirational. It foreshadows the latest in the line of electric vehicles, based on the entirely new modular CMF-EV platform.

The Mégane eVision makes the most of what the new platform designed by the Alliance has to offer. This dynamic hatchback features one of the thinnest batteries on the market and a new ultra-compact powertrain offering more roominess. Its sophisticated features and the lighting signature accentuate the modern look of the car, which breaks the existing codes of electric vehicles when it comes to use, size and design, as well as energy efficiency.

This vehicle of tomorrow will very soon become a reality, with the production model of the show-car set to be introduced in 2021.

More than a name, a vision



The Mégane eVision symbolizes the reinvention of the core market at Renault. It represents the future of the 'compact' category, in which it is firmly anchored by its habitability and interior dimensions. The Mégane eVision continues the history of the Mégane, the flagship model of Renault's compact range for 25 years, and firmly establishes it in the modern world.

This show-car embodies the first step in a breakthrough that is at once emotional (design), innovative (interior) and technological (electric), which comes at a time when customer needs are also changing. With it, Renault continues its role as an innovator and creator of cars for living. It does so by further improving what has always been the strength of the Mégane, a benchmark in its segment: driving pleasure, comfort and serenity. And by adding major new features, such as the "favorite" design, a new interior length and all the advantages of electric powertrains.

In this way, Renault claims continuity with its history and the successes carried by the Mégane name. It offers its vision of a future that can already be touched with a fingertip and that will be accessible to all.

"Thanks to our brand-new Alliance platform CMF-EV, we broke the rules of size, use, design and energy efficiency to imagine the Mégane eVision show-car. We fully leveraged the potential of pure electric platform to re-invent the classical hatchback in an emotional way. With the thinnest battery on the market, a 4,21 meters compact body offering the roominess of a C-segment vehicle, The Mégane eVision is a masterpiece of packaging! We took our 25-year best-seller and took it to the future. Mégane eVision reinvents Mégane, and Renault reinvents Renault. This is just the beginning; a whole new generation of innovation-packed electric vehicles is to come."

Luca De Meo, CEO, Groupe Renault

VISION



A new generation of electric vehicles

Renault – leading the way in electric vehicles

Renault can draw on ten years of expertise and experience in the design, manufacture and marketing of electric vehicles to give its clients new models with a whole host of advantages such as less pollution and more fuel-efficiency, minimum servicing and silent engines. More than 30,000 employees of the brand across the entire European network have been trained in the special features of electric mobility.

In Europe, Renault is leading the sector and attracting a growing number of customers. The brand has sold 300,000 electric vehicles since the launch of its special range, accounting for one out of every five registered since 2010.

To accomplish this, Renault has developed an extensive range to suit the varying needs of its customers: everyday versatility with ZOE, micro-mobility with Twizy, going the extra mile with Kangoo Z.E. and Master Z.E, and most recently, urban flexibility with Twingo Electric.

The electric car range will be extended further to provide a wider choice to suit many more different uses, starting with the standard model of the Mégane eVision which will be unveiled next year.

New range and upcoming services

The Mégane eVision show car will give birth to a vehicle only available with an electric engine. It is not intended for a single need or usage. Rather, it marks the beginning of a new Renault range of dynamic and versatile electric vehicles that will increasingly be in line with different uses and lifestyles. At a time of environmental awareness, this future range featuring the latest technologies and innovations in terms of batteries and charging is designed to appeal to an ever-expanding public.

This latest generation of vehicles will feature cutting-edge connected services, and will be part of an overall improvement in the electric ecosystem to support users and their needs, as well as society as a whole, in the energy transition.

For instance, it will play a role in the development of smart charging to support the stability of the electrical grid and help users reduce their costs. The car's connectivity allows charging to be triggered at the right time to avoid overloading the grid and promote the use of renewable energy. V2G (vehicle-to-grid) is another technology currently in development which allows any parked car that is charging to transfer part of the electricity from its battery to the grid.

CMF-EV: a modular electric platform



Renault's future all-electric vehicles will be built on the new modular CMF-EV platform designed by Renault-Nissan-Mitsubishi, making each new model easier to manufacture with increased and optimised electric performance.

The CMF-EV platform has many advantages that set it apart from a traditional platform used for internal-combustion or mixed electric/internal-combustion engine vehicles. For example, it has a smaller engine compartment, since electric engines are more compact than their diesel and petrol counterparts. The extended wheelbase and wheels located at the four corners of the vehicle offer greater roominess and a more aesthetic design.

With breakthrough technologies and more powerful batteries, the CMF-EV platform will provide the customers of the future with increased driving range and reduced charging time. The sophisticated frame and low centre of gravity with the battery fitted in the floor also boost responsiveness and driving pleasure.

This new milestone in the development of Groupe Renault's expertise in electric vehicles will result in new synergies with the Alliance partners and greater economies of scale.

No more restrictions



Imagine a futuristic car that breaks existing codes and does not seem to fit in any category. The closer you get to it, the more features you see. The compact and dynamic design of this show-car initially calls to mind a stylish and aerodynamic saloon, while the muscular front end and bonnet and large wheels immediately reveal the car's sturdiness. Although certain features showcase its electric nature, all you want to do is take it for a good long drive.

The Mégane eVision show-car is an inspiring vehicle, a vector of emotions, first and foremost a favourite with its original design and unusual proportions. It suggests pleasure, modernity and technicality and sets new standards in terms of interior design. It shows that the future generation of Renault electric vehicles will break free of many constraints and go beyond traditional segments to reinvent what a vehicle in the compact hatchback category should be.

Reduced footprint, increased roominess

With the CMF-EV platform, Renault's future electric vehicles will be more modular and roomier, without having to be higher or longer. The Mégane eVision show-car is a perfect example of this. With its contained length of 4.21 metres (15 to 30 cm shorter than traditional cars), passengers will benefit from best-in-class roominess and usage as well as easier city driving. In short, The Mégane eVision is a car that defies the traditional codes of the segment.

Optimised driving range and charging time

The range of an electric car usually depends on the vehicle's size and the kind of batteries it can be fitted with, but once again, this limitation has been overcome by the Mégane eVision. It has an ultra-thin 60 kWh battery, making it lower for improved aerodynamics and significantly reduced electric consumption. Its DC charger (up to 130 kW) also allows for faster charging times.

As a result, the show-car offers road and motorway performance that is generally only found in top-of-the-range cars, whilst still maintaining a compact exterior. It is a model that defies traditional categories.

All-new design

Combining styling elements reminiscent of city cars, SUVs and even coupés, the Mégane eVision is nonetheless a dynamic hatchback with new dimensions and bold features. It is muscular and low making it highly aerodynamic, with large wheels that are thinner than those of other vehicles of the same size. Renault's new family of electric cars will boast this all-new look that combines greater character and efficiency with more passenger comfort.

VEHICLE



A design that appeals to the heart

The heart of Renault's design strategy

The Mégane eVision's design is perfectly in line with Renault's strategy, blending soft, flowing lines with sleek details. It combines the sensuality, sophistication and aerodynamics already embodied in MORPHOZ, a design echoed by the Mégane eVision. The precision and sophistication of the details underline the show-car's electrical and technological features, and reflect the spirit of the latest generations of Renault electric cars.

The dimensions of a dynamic hatchback

The design of the Mégane eVision show-car has new proportions and is intended to be resolutely modern. The large wheels, significant body height and sturdy look are all visual characteristics of SUVs, while its compactness, very short overhangs and large wheelbase make it look like a city

hatchback. Not forgetting the world of coupé cars thanks to a spoiler at the top of the roof and an aluminium diffuser under the bumper,

Floating roof

The Mégane eVision's roof boasts a unique gold colour gradient starting from the front windscreen pillar, giving an air of lightness and floating movement. The cockpit's sleek profile emphasises the aerodynamic look of the car.

Curved bonnet

The bonnet of the Mégane eVision featuring two air inlets boasts a curved, highly-sculpted design, giving the car added personality. Its continuous outline descending to the front end emphasises and enhances the Renault signature logo, just like the upper part.

Aerodynamic wheels

Like the MORPHOZ concept, the Mégane eVision show-car features large, aerodynamic wheels as seen in the 20-inch rims in the shape of propeller blades. The outer part of the wheels is enclosed and aligned with the bodywork to further enhance the car's aerodynamics and efficiency while reducing disturbance. To the same end, the wheels and part of the 245/40 ZR 20 tyres are covered by 21-inch trims finished with aerodynamic flaps, while shaded decorative lines recalls those of the lower grills.

Accentuated wheel arches

The smooth, glossy black wheel arches enhance the Mégane eVision's visual statement and make it look like a real electric city car.



Front end

The Mégane eVision boasts a highly-sculpted front end, creating a feeling of size. The air inlets are located on the lower part while the slimline lights are joined together by a 3D display on the bodywork. At the centre, the Renault logo lights up to highlight the car's electric engine.

Grills

The design of the grills, already featured in the MORPHOZ concept, is a genuine electric feature that is reminiscent of the hi-fi universe. Fitted on the lower part of the front end and on the sides of the vehicle, the smooth grills are flush with the bodywork.

Slimline lights

The Mégane eVision features many precise and sophisticated details, and nowhere more so than the headlights. They are slimline and equipped with LED Matrix technology, giving the front end [a vibrant look](#). The all-electric lighting signature featured on the standard model also makes the bodywork appear wider.

Bumper air scoops

The side air scoops on the lower part of the front bumper create a real air curtain and contribute to the aerodynamic flow around the wheel arches. They feature the same gold colour as the roof.

Lighting charging socket

As is the case on MORPOZ, the Mégane eVision's transparent electric charging socket features the Renault logo, with an indicator light turning on to show the level of charge.

Rear

The rear lights form an entire strip running the width of the car and circling the Renault logo, giving the back of the Mégane eVision a more assertive presence. They feature the crossing beams of LED headlights to create a shimmering effect that brings size and sophistication to the lighting signature.

This rear gives the car a dynamic feel and a more flowing silhouette.



Historical reference

The graphic finish of the "E" at the end of "Mégane" in the first part of the car's name is different from the other letters. This symbolic feature of electric engines and the E-TECH label boasts the same bold gold colour as the roof and black parallel lines like those found on the 1972 Renault logo designed by Victor Vasarely.



Metallic colours

The Mégane eVision show-car is a two-tone vehicle: the bodywork is in a satin grey shade called “Slate Grey Matt”, while the roof is in Gold. Reminiscent of the metallic shades that embellish the latest Renault concept cars and certain electronic devices, it brings a vibrant touch to the brand’s traditional yellow. The colour is also found on some of the car’s technical features such as the air scoops on the front bumper, the brake callipers and on the markings of certain parts of the bodywork.

Flush throughout

The Mégane eVision show-car’s flowing design that plays with transparency is directly based on that of MORPHOZ. The smooth surface of the car is further enhanced by the choice of flush door handles that are electric and open automatically when the driver and passengers approach, and then disappear into the sides of the car. This leitmotiv can also be found on the aerodynamic side air scoops and the sporty rear with its pronounced spoiler.

Spotlight on the electric DNA

An interplay of lights and lighting underlines the many electric features that the Mégane eVision has inherited and gives the show-car a vibrant look. One example is the loading hatch, which becomes more accessible when lit up. The daytime running lights have been specifically designed to make the car more visible, while the light-up logo at the front is Renault’s hat-tip to modernity. Thanks to its electric engine that only requires little cooling, the Mégane eVision can feature a semi-closed front grille. Overall, the cooling system, the technical features and the lighting areas have been enhanced across the whole bodywork to mark the advent of a new generation of Renault electric vehicles.

LIVINGTECH: welcome on board



The Mégane eVision is not just a show-car to look at and admire – it is an invitation to travel. With Renault's LIVINGTECH technological ecosystem, it caters for the needs of passengers and provides them with convenient solutions to suit their usage. The car is intuitive and smart, and focuses on interacting with the passengers.

The show-car reveals itself in three stages on different levels.

1. First, the overall dimensions: the car's outline is recognisable from a distance while its welcome sequence and lighting signature arouse curiosity.
2. Then, new light effects appear when approaching the car, bringing life to the contour of the vehicle. The surfaces and the bold lines emerge.
3. And finally, the level of detail and the sophisticated features come to light on close inspection. They herald the vehicle's electric drive and slowly draw the eye to the interior.

→ LIVINGLIGHTS: a vibrant and modern lighting signature

The lighting signature featured on the Mégane eVision is not only sharper, more geometrical and unique, it is also more adaptive. With elegance and precision, it draws horizontal and vertical lines and activates them via LED Matrix technology.

The new LIVINGLIGHTS visual signature also creates a lighting effect with these lines, where a wave of shimmering light illuminates the central logo and extends to the sides to create the lighting signature. The division of the LED lines into pixels amplifies the shimmering effect, creating a magnified lighting.

→ Highlighting the car's identity

Other lighting effects are created on the Mégane eVision show-car to accentuate the vehicle's recognisable aspects. The side window trims, usually black or chrome, light up to diffuse an indirect light from the wing mirror to the back of the car – an effect that contributes to the car's graphic signature. The lower protective door panels feature a cartridge which reads "E-TECH Electric", indicating that the batteries are fitted under the floor.

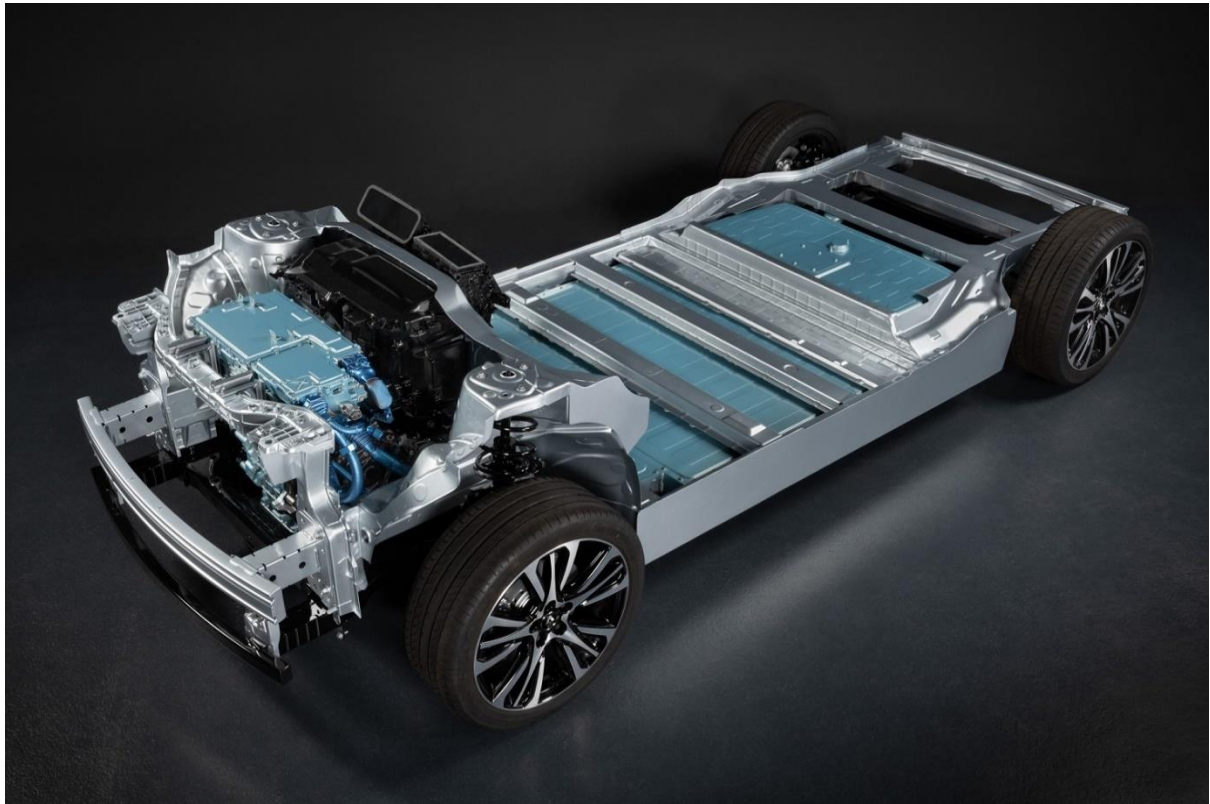
→ The interior unveiled

The lighting welcome sequence is not just part of the exterior shell of the car. Through the windows, a lighting effect reveals certain aspects of the cockpit: the top edges of the LIVINGSCREEN display light up to reveal its L-shape and the name Mégane eVision appears on the screen. State-of-the-art technology and modernity provide everything the user could wish for.

Remote vehicle customisation

These lighting welcome sequences are all the more dynamic in that they can be updated throughout the vehicle's life and customised via FOTA (Firmware Over-The-Air) technology. On-board software is improved via a remote system that updates and downloads content as well as new customisation features for the LIVINGSCREEN display, creating new welcome sequence effects.

PLATFORM



CMF-EV: guaranteeing a modern style and performance

“Based on the technological innovations it uses and the modular solutions it provides, CMF-EV will be ‘the’ leading platform for all future electric cars designed by Groupe Renault and the Alliance.”

Jean-Paul Drai, Engineering Director of Electric Vehicle Projects for Groupe Renault

The CMF-EV (Common Module Family – Electric Vehicle) platform was specifically designed by the Alliance to suit the existing mobility needs of users. It was co-developed with Nissan, by a team of French and Japanese engineers. The new electric vehicles designed on this platform will benefit from its innovations in terms of energy management, roominess and onboard experience.

The CMF-EV platform pushes the boundaries by allowing different modular batteries to be fitted vertically and horizontally. Low saloons and larger SUVs can be designed on this platform and can be fitted with more powerful batteries. The platform is also modular in terms of length, to adjust the battery even more to the type of car and driving range required. CMF-EV can help to design electric cars for suburban daily commutes as well as for long journeys without recharging.

The standard version of the Mégane eVision show-car will be the first Renault model designed on this platform to hit the market.

Unique powertrain, optimised battery technology and dynamic dimensions



→ A more compact electric engine

Designed on an exclusive architecture, the compact engine and all the technical elements associated with it as well as with the car's other features are fitted at the front, inside the engine compartment. This creates space in the passenger compartment and optimises comfort. This particularly applies to the air-conditioning unit. The instrument panel can therefore be slimmer and located further back for greater roominess.

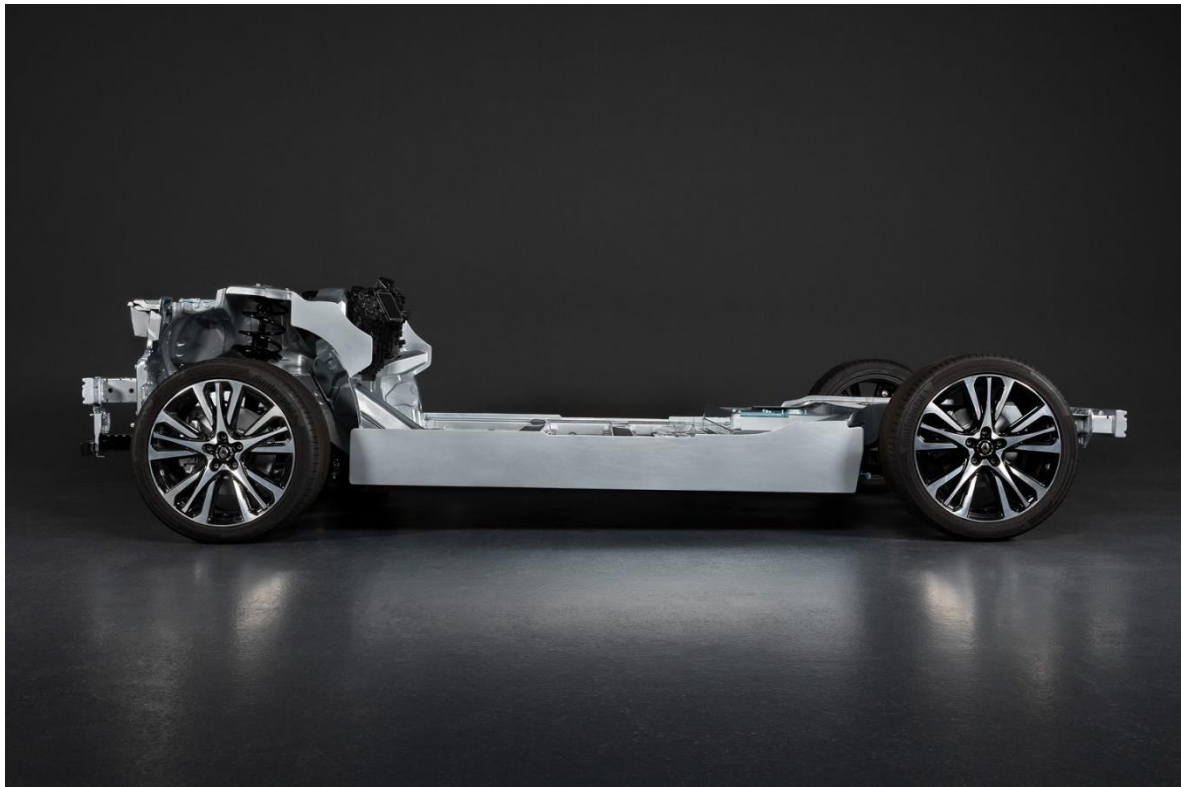
→ Slimline batteries

The batteries developed on the CMF-EV platform boast an exceptionally innovative feature in that they are 'structural' – they are an integral part of the car's structure, and help to absorb impact energy in the event of a side collision.

These compact batteries of various thicknesses can be fitted in different ways to offer the best levels of compactness on the market, for the design of lower and more aerodynamic vehicles. Electric consumption is thus significantly reduced, the driving range is increased and energy efficiency improved.

→ Flat floor

With no exhaust system or standard transmission, the standard tunnel of internal-combustion vehicles has been removed. The floor of future vehicles designed on the CMF-EV platform is entirely flat, to offer more roominess and interior modularity.



→ **Shorter overhangs**

With more compact electric engines designed on the CMF-EV platform, both the front and rear overhangs have been reduced, allowing for large (18- to 20-inch) wheels to be fitted at the four corners of the vehicle. The shorter overhangs provide new design possibilities and greatly improve the style of Renault's new electric vehicles.

→ **Extended wheelbase**

The large wheelbase (up to 2.77 m) permitted on the CMF-EV platform provides more space inside vehicles to the benefit of passengers. Renault's future electric vehicles will be able to accommodate a larger battery.

→ **Reduced height**

With this new platform, the Alliance engineers and designers have focused on designing lower cars to improve aerodynamics and energy consumption. This has been made possible by the more compact batteries, also increasing the space inside the car.

→ **Flexibility**

The CMF-EV platform focuses primarily on versatility and performance and will provide significant flexibility for Renault's future ranges. For example, it will be able to accommodate a second rear engine to develop more powerful four-wheel drive models.

→ **Reliability**

The platform was also designed to offer best-in-class reliability and durability. Bench tests and test drives of more than 3 million kilometres have been carried out in France and Japan to validate all the technical features of the frame, systems, engine and battery.

→ **Patents**

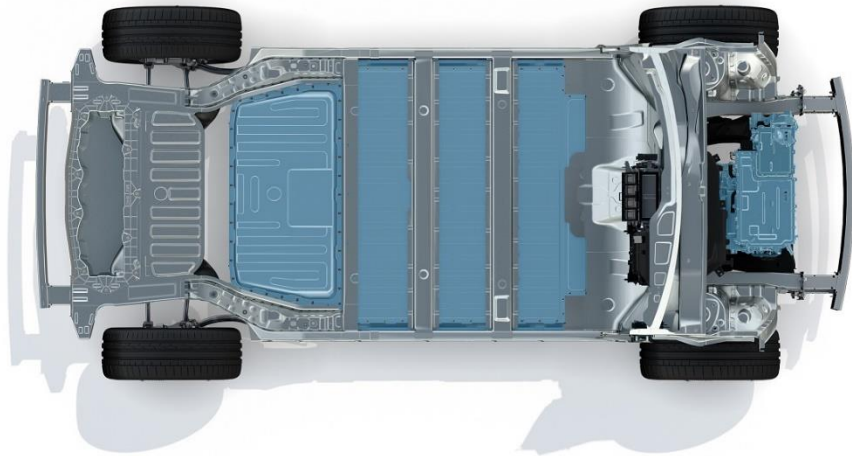
To date, more than 300 patents have been filed on the CMF-EV platform and the future standard version of the Mégane eVision, protecting a set of innovations on the engines, charging system, battery, thermal management, architecture and acoustics. The result is the fruit of combined expertise from Groupe Renault and Nissan to maintain and secure their technological leadership in the face of competition.

The efficiency of a low-consumption platform

When it comes to energy efficiency, CMF-EV sets the bar a little higher with a number of improvements and innovations.

While the focus has been placed on the aerodynamics of Renault's future electric vehicles, charging capacity has also been optimised. CMF-EV is introducing an innovative system for managing battery temperature within a much wider range of temperatures. An optimised water-cooling system has been developed for the engine, battery and passenger compartment. The Energy Recovery System (ERS) captures the heat of the engine and the battery to heat the passenger compartment without using the battery, ensuring the car's driving range is not impacted by the cold. All available energy is thus maximised.

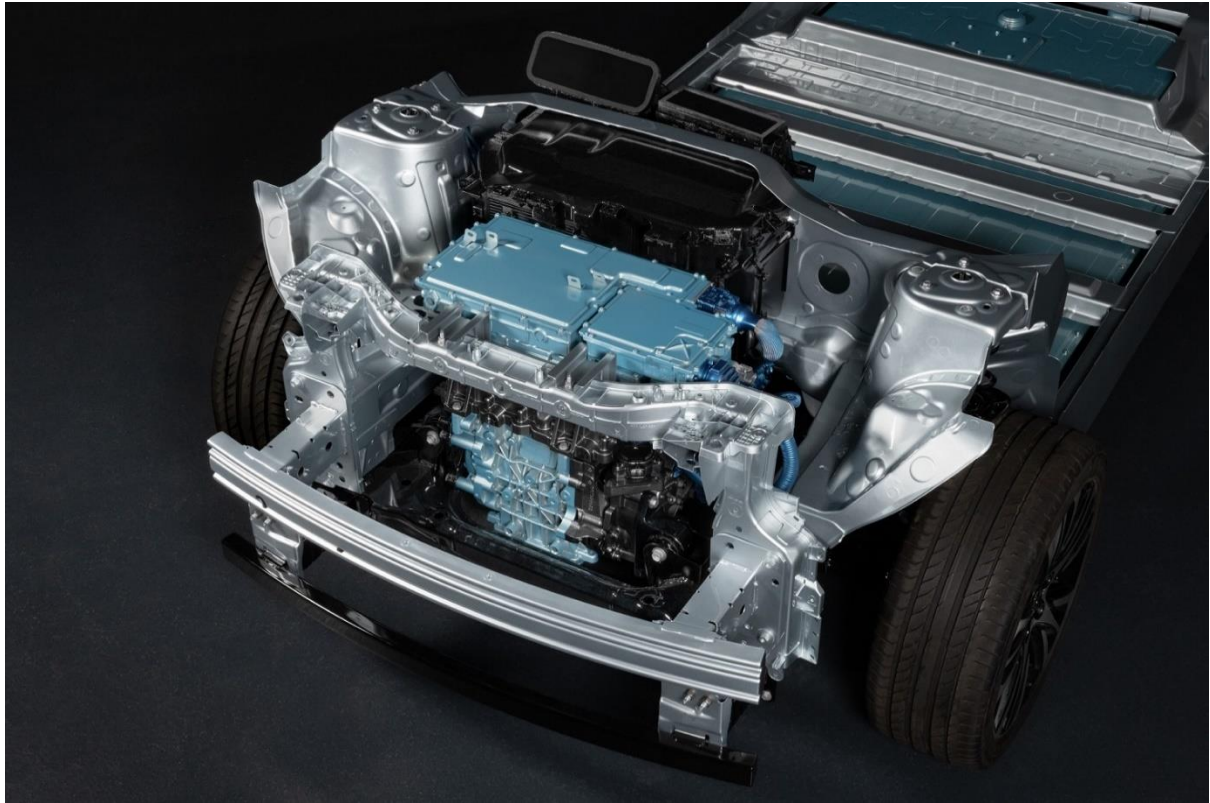
The advantages of the latest generation designed on the CMF-EV



In addition to offering a wide range of highly-reliable cars, CMF-EV has made significant progress in performance, operating range and comfort for its future electric line.

Performance

The CMF-EV platform will provide the opportunity to focus on the 'fun' aspect of Renault's future electric vehicles. A lower centre of gravity will improve road-holding. With an extended wheelbase, a shorter steering ratio and a multi-arm rear axle, the steering and frame will gain in flexibility and onboard comfort will be increased. It will also enjoy the same innovations as those featured on the car's acoustics, removing unwanted sounds and vibrations. The Mégane eVision's engine is one of the most powerful in the Renault range across all energy sources. It has 160 kW of power (equivalent to 217 hp) and 300 Nm of torque, for an acceleration from 0 to 100 kph (62 mph) in less than eight seconds. Driving pleasure is maximised on motorways, roads and in the city.



Driving range

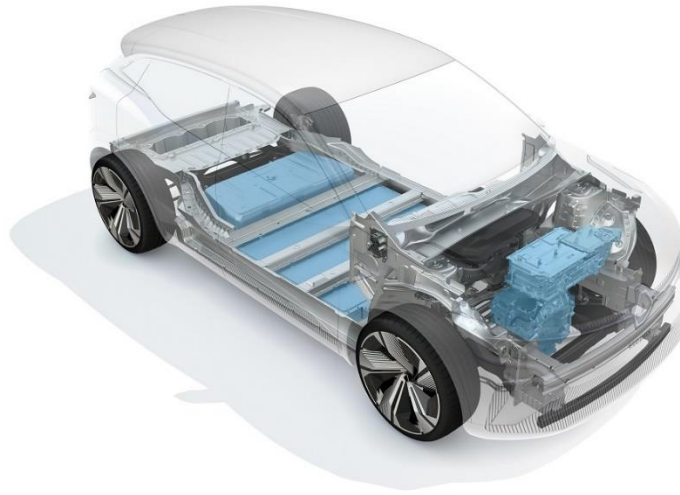
Cars designed on the CMF-EV platform will benefit from an increased driving range. With the new 60 kWh battery for fast charging (DC charger up to 130 kW), the standard model of the Mégane eVision show-car will be able to drive long distances (e.g. London to Newcastle) in the same amount of time as internal-combustion vehicles, stops included.

Comfort, roominess and interior design

The last major advantage of this new platform is the maximised interior roominess with more spacious front-seats and more legroom at the back. For example, the platform can accommodate models with the passenger room of a road saloon and the dimensions of a compact car.

With a slim and sleek instrument panel and exclusive new storage, engineers have created a completely new modular environment that combines design with practicality.

Technical features



Length: 4,210 mm

Width: 1,800 mm

Height: 1,505 mm

Wheelbase: 2,700 mm

Wheels: 20 inches

Tyres: Continental 245/40 ZR 20

Weight: 1650 kg

Engine: 160 kW (217 hp) wound-rotor electric engine

Transmission: 4x2

Drive: Front-wheel

Charge: AC up to 22 kW, DC up to 130 kW

Batteries: 60 kWh - 400V

About Groupe Renault



Groupe Renault has manufactured cars since 1898. Today it is an international multi-brand group, selling close to 3.8 million vehicles in 134 countries in 2019, with 40 manufacturing sites, 12.700 points of sales and after-sales and employing more than 180.000 people.

To address the major technological challenges of the future, while continuing to pursue its profitable growth strategy, Groupe Renault is focusing on international expansion. To this end, it is drawing on the synergies of its five brands (Renault, Dacia, Renault Samsung Motors, Alpine and LADA), electric vehicles, and its unique alliance with Nissan and Mitsubishi Motors. With a 100% Renault owned team committed to the Formula 1 World Championship since 2016, the brand is involved in motorsports, a real vector for innovation and awareness.

Links

[Groupe Renault corporate website](#)

[Groupe Renault media website](#)

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