

MIRAI



TOYOTA

ALWAYS A
BETTER WAY



LET'S MAKE TOMORROW
BRIGHTER






At Toyota, we're always moving forward. We're constantly exploring bright ideas that will help us create a more sustainable tomorrow, both for the people who drive our cars and for the wider world. Whether we're developing advanced technology that transforms our lives or designing vehicles that change the way we drive, we're on a journey to provide better mobility for all.



LET'S MAKE TOMORROW
FRESHER



Twenty years ago we launched Prius, the car that changed everything. Since then, our groundbreaking Hybrids, Plug-in Hybrids and Electric Vehicles have continued to enrich lives around the world. And with 0% emissions, the hydrogen-powered Mirai is pioneering another fresh approach, destined to change everything all over again.

LET'S MAKE TOMORROW
CLEARER

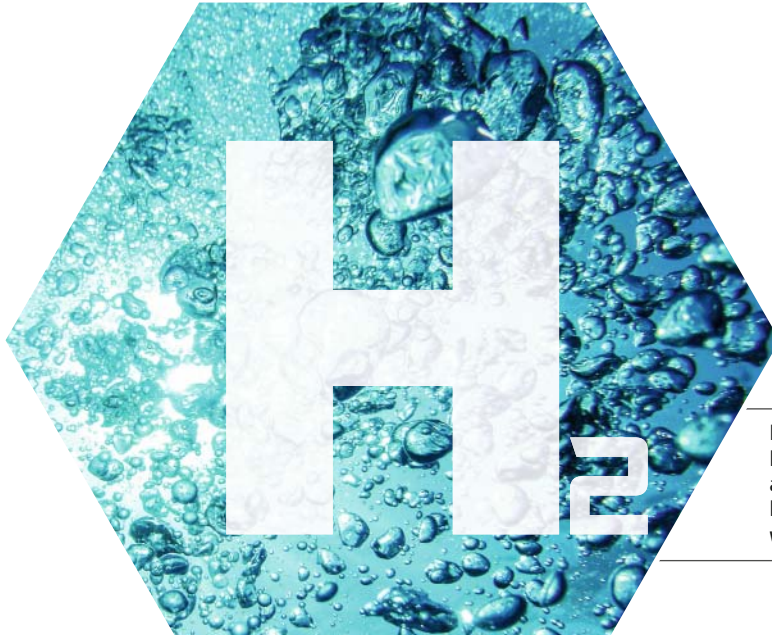


With its visionary fuel cell technology, Mirai is clearly pioneering the future of emission-free driving. But for us, it's also the first step on a more important journey – one that sees hydrogen not just powering our vehicles, but also used as a clean, safe energy source throughout society.



WHAT IS HYDROGEN?

You don't have to look far to find hydrogen. It's the most common element in the universe, so it's all around us – in water, plants and soil. In its pure form it's an invisible, odourless, non-toxic gas that's lighter than air. And as an energy source, it's extremely stable, efficient and, as opposed to electricity, it's easy to store over long periods.



Hydrogen binds to almost anything. So before we can use it, we have to separate it. One way to do this is by electrolysis, where an electric current is passed through water, which releases the hydrogen. And if we use electricity from renewable sources, we can make a clean fuel even greener.

1

proton and 1 electron,
making hydrogen the
simplest and lightest
element of all



100

years of producing,
storing and using
hydrogen



75%

of the mass of
the universe is
hydrogen



HOW IS HYDROGEN USED?

Fuel cell technology isn't new. The first hydrogen fuel cell generator was built in 1939, producing an impressive (at the time) 5 kW (6.8 hp) of power. Since then, hydrogen has been used to power everything from forklifts to buses, and spacecraft to submarines – proving itself extremely safe, efficient and reliable.

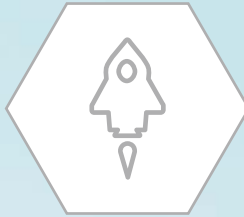


Fuel cells aren't just used for transportation. They are also ideal for powering factories, refrigerating warehouses and heating homes. Many food producers even use their liquid waste to produce the hydrogen they need.



1939

The first hydrogen fuel cell generator is created



1950s

NASA starts using fuel cells to power the electronics on their spacecraft



1960s

The first fuel cell forklift is built



2015

The world's largest eco-friendly hydrogen plant opens in Germany

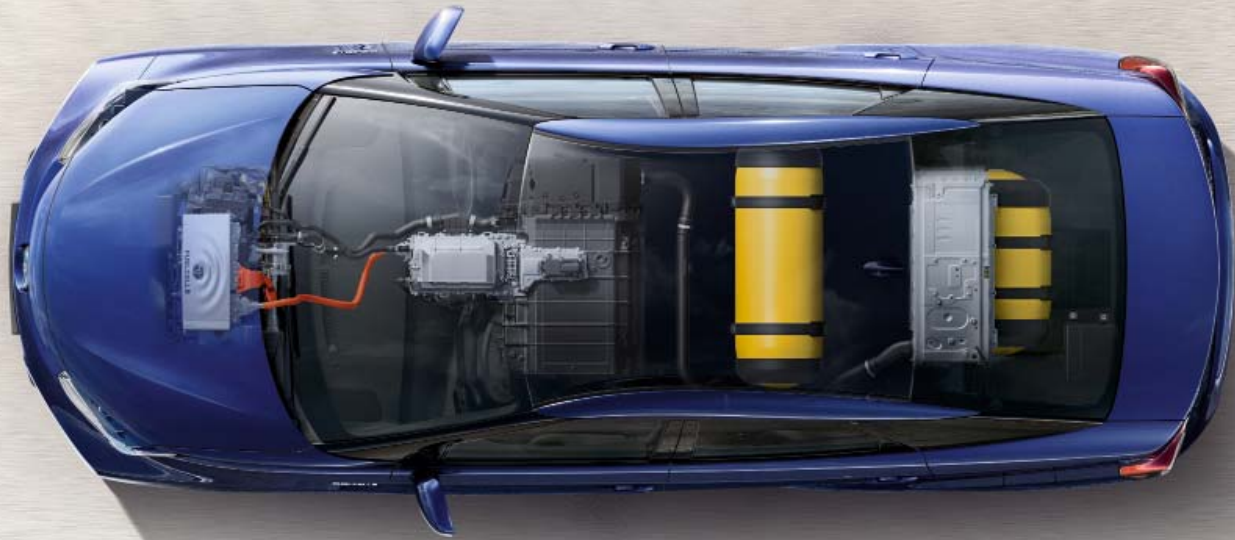
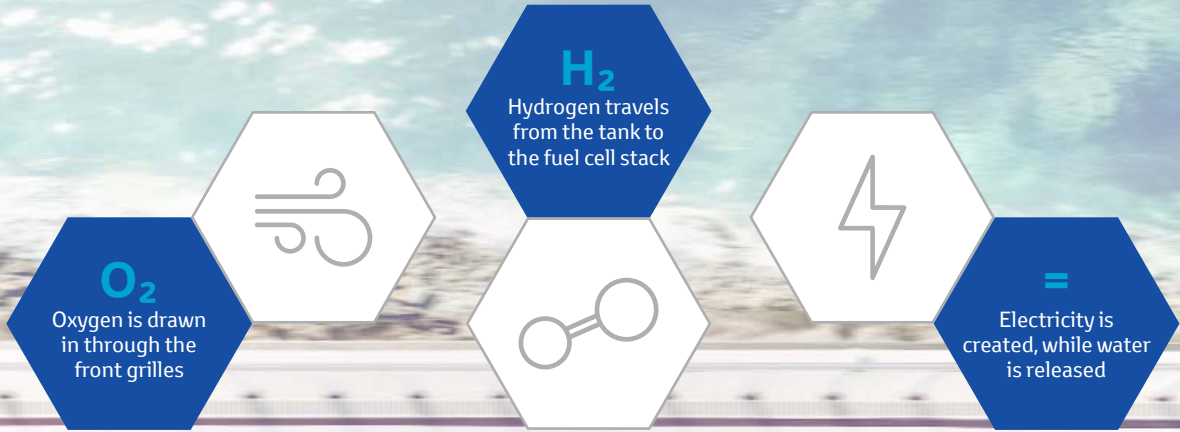


HOW DOES MIRAI WORK?

Mirai is **100% electric**, and doesn't need to be recharged. Instead, Mirai uses its unique fuel cell stack to generate electricity and power the fully electric motor – with **0% emissions**. In addition, the battery system recovers and reuses energy during acceleration and braking, furthering its super-efficient nature.



Hydrogen, stored in robust tanks, travels to the fuel cell stack where it reacts with oxygen, drawn in through the front grilles. The reaction produces electricity and water. No CO₂ or any other pollutants are created.



HOW DO YOU REFUEL?

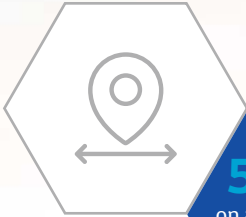
With a global need for a wide range of renewable energy sources, governments and businesses understand the importance of hydrogen. So they're investing in the infrastructure needed to support it. Similar to what happened with electric charge points, the network of hydrogen filling stations started out small, but is growing rapidly.

Filling the Mirai is much like filling a conventional car, except the pump does all the work. Simply connect the nozzle and squeeze the handgrip to secure it in place. The car's computer sends information to the pump, which takes control and fills the tank safely and efficiently.





3-5
minutes to fill
the tank



500km
on a full tank, so you
can keep going
for longer



100%
electric
but does not
need a plug

WHAT'S MIRAI LIKE TO DRIVE?

Mirai isn't just better for the world around us, it also provides an irresistible driving experience. It is silent, smooth and controlled with instant acceleration and impressive power. And inside, the cabin's as luxurious and spacious as you'd expect from a limousine in this class.



With a wide wheel base, a rigid body and a low centre of gravity, the Mirai handles beautifully, gripping the road and cornering with ease – making it a real pleasure to drive.

Shhh...

Acoustic glass keeps the cabin blissfully quiet



0-100

Immediate maximum torque for instant acceleration



4

generous seats deliver supreme comfort and extra personal space





TOMORROW'S STYLE TODAY

Mirai is totally different. Its unique style has been designed to enhance the way it performs. To improve aerodynamics, the side-view resembles a drop of water – creating an effortlessly fluid drive. Contrasting black pillars around the windows give the impression that the roof is floating, adding to the contemporary feel.

EXTERIOR FEATURES

- 17" alloy wheels (7-spoke)
- Piano black upper front grille
- Chrome insert on lower front side grille
- Darkened glass rear pillar design
- Shark-fin antenna
- Dusk sensor
- Rain sensor
- Rain repellent door mirrors
- Smart Entry & Start System
- Adaptive Cruise Control
- Rear-view camera
- Pre-Collision System



Just like us, the Mirai needs to breathe. Distinctive side grilles (1) allow maximum air intake. Sharp LED headlights sit high, while vertical indicators are framed by elegant chrome inserts, whose shape is echoed in the rear lights (2).



INTERIOR FEATURES

- Wireless mobile phone charger
- ECO-driving Indicator
- 4.2" screen for temperature control panel
- Air conditioning ECO mode switch
- Water release switch
- Toyota Touch® 2 with Go navigation system
- JBL premium sound system
- ISOFIX seat fixing

Every detail has been thought through. From the generous boot, which has enough space for three large suitcases (1), to the satisfyingly soft and tactile trim used on the dashboard and door panels (2).



THE PERFECT SPACE

The flowing space of the cabin fuses timeless quality with modern design, mimicked in the luxurious, breathable upholstery. The quietness of the engine is enhanced by acoustic glass that minimises outside noise, allowing you to enjoy, even more, the exhilarating experience offered by Mirai.



Everything just how you want it. The control panel (1) lets you adjust both cabin and seat temperatures, while the Toyota Touch® 2 screen (2) allows you to check your route and command the 11-speaker JBL sound system.

1



2



EMPOWERING TECHNOLOGY

From intuitive cockpit displays and informative high-definition TFT screens to the rear-view camera and convenient wireless charger, Mirai uses the very latest technology to make your drive better. Another intelligent feature moves the steering wheel forward and the driver's seat back so you can step out, and in again, with ease.



DRIVEN BY **SAFETY**

When it comes to safety, we consider every possibility, no matter how remote. The hydrogen tanks have been extensively tested for strength and durability over many years including, more recently, at Le Mans. In the event of a collision, Mirai's unique frame is designed to distribute the impact throughout the car's body, effectively protecting everyone inside.

Mirai is equipped with multiple sensors designed to detect hydrogen. So in the unlikely event of a leak, the sensors would shut the supply off immediately, preventing further leakage. And with all hydrogen-carrying parts of the car located outside the cabin, the hydrogen would escape quickly and harmlessly into the atmosphere.



Safety guides everything we do. The hydrogen tanks are wrapped in a carbon-fibre-reinforced polymer (1). Eight airbags (2) are situated around the cabin.

PROTECTED BY INTELLIGENT SAFETY FEATURES.



Lane Departure Alert

Detects lane markings in the road ahead and alerts the driver with audible and visual warnings should the vehicle start to deviate from its lane without the turn indicator being applied.

Pre-Collision System

The Pre-Collision System uses a radar to detect other vehicles in the road ahead. When the possibility of a collision is detected the driver is alerted with audio and visual warnings and brake assistance is activated. If the driver fails to brake in time the brakes automatically engage to prevent or mitigate a collision.

Automatic High Beam

Detects the lights of oncoming vehicles and traffic ahead while monitoring the brightness of streetlights, to allow automatic switching between high and low beam for safer night-time driving.

The Blind Spot Monitor

Allows the driver to manoeuvre more safely during lane changes. If the rear-mounted radar sensors detect a vehicle in your side or rear blind spot, a warning indicator will illuminate on the appropriate side mirror.

Rear Cross Traffic Alert

Allows you to reverse out of a parking space safely by detecting other vehicles approaching your blind spot area. RCTA alerts you with a buzzer and flashing indicators on the outer mirrors.



2NL White Frost*/Astral Black



2MR Sonic Silver[§]/Astral Black

CHOICES, CHOICES

The exterior comes in a selection of six striking paint colours, while the interior features soft Toyota E-Text upholstery available in three variations, each combining a primary colour with secondary accents across seats, door panels and armrests.



2MS Magnetic Black[§]/Astral Black



2NM Regency Red[§]/Astral Black



2MT Pacific Blue[§]/Astral Black * Pearlescent paint. [§] Metallic paint.

17" alloy wheels (7-spoke) Standard



*COMFORT OR STYLE?
WHY NOT BOTH.*



**White Toyota E-Tex with
dark blue bolsters**
Standard

**Dark blue Toyota E-Tex
with black bolsters**
Standard

**White Toyota E-Tex with
black inserts**
Standard

2NV Aqua Breeze^s/Astral Black

SPECIFICATIONS

ENVIRONMENTAL PERFORMANCE	Fuel cell stack Hydrogen e-CVT
Fuel consumption (applicable legislation)	
Combined (kg/100 km)	0.76
Urban (kg/100 km)	0.69
Extra urban (kg/100 km)	0.80
Number of tanks	2
Total hydrogen tank capacity (kg)	5
Sound level (applicable legislation)	
Sound level drive by (dB(A))	69.0

The fuel consumption and noise values are measured in a controlled environment on a basic production vehicle, in accordance with the requirements of European law published by the European Commission. For further information, please contact Toyota Motor Europe NV/SA. The fuel consumption of your vehicle may vary from those measured. Driving behaviour as well as other factors (such as road conditions, traffic, vehicle condition, installed equipment, load, number of passengers, ...) play a role in determining a car's fuel consumption.

ENGINE	Fuel cell stack Hydrogen e-CVT
Maximum power output (DIN hp)	154
Maximum power output (kW/rpm)	113/6144
Maximum torque (Nm/rpm)	335/0-2048
Electric Front Motor: Type	Nickel-metal hydride
Electric Front Motor: Maximum output (kW)	113
Electric Front Motor: Maximum torque (Nm)	335
Hybrid vehicle battery: Number of battery modules	34
Hybrid vehicle battery: Battery capacity (3HR) Amp.hr.	6.5
Volume power density	3.1
Fuel cell stack type	Solid polymer electrolyte fuel cell
Nominal operating pressure	700

PERFORMANCE	Fuel cell stack Hydrogen e-CVT
Maximum speed (km/h)	175
0-100 km/h (secs)	9.6
Drag coefficient	0.29
SUSPENSION	
Front suspension	Macpherson strut
Rear suspension	Torsion beam
BRAKES	
Front brakes	Ventilated disc
Rear brakes	Disc
INTERIOR DIMENSIONS & LOAD VOLUME	
Luggage capacity (up to tonneau cover) (litres)	361
Interior length (mm)	2040
Interior width (mm)	1465
Interior height (mm)	1185
Luggage overall length, rear seat up (mm)	728
Luggage overall width (mm)	1612
VDA luggage capacity, up to tonneau cover, rear seat up (litres)	361

EXTERIOR DIMENSIONS, WEIGHTS & TOWING CAPACITY

Fuel cell stack
Hydrogen e-CVT

Exterior length (mm)	4890
Exterior width (mm)	1810
Exterior height (mm)	1535
Front tread (mm)	1535
Rear tread (mm)	1545
Front overhang (mm)	1080
Rear overhang (mm)	1030
Wheelbase (mm)	2780
Gross vehicle weight (kg)	2180

EXTERIOR DIMENSIONS, WEIGHTS & TOWING CAPACITY

Fuel cell stack
Hydrogen e-CVT

Kerb weight (kg)	1850
Towing capacity with brakes (kg)	0
Towing capacity without brakes (kg)	0

WHEELS

17" alloy wheels (7-spoke)	●
Tyre repair kit	●

● = Standard



1535 mm

1810 mm



1030 mm

2780 mm

1080 mm

4890 mm

1535 mm



1545 mm

1810 mm

EQUIPMENT

EXTERIOR STYLING

Piano black upper front grille	●
Chrome insert on lower front side grille	●
Body-coloured front bumper	●
Front spoiler	●
LED rear light guide	●
Body-coloured rear bumper	●
Black rear under-run	●
Body-coloured door mirrors	●
Piano black insert on door mirrors	●
Body-coloured door handles	●
Darkened glass rear pillar design	●
Full bi-tone exterior look	●
Shark-fin antenna	●

EXTERIOR COMFORT

Dusk sensor	●
Automatic headlight cut-off	●
Headlight cut-off reminder	●
Rain sensor	●
Boot door release with key	●
Remote boot door release on key	●
Remote boot door release in cabin	●
Power-adjustable door mirrors	●
Memory function on door mirrors	●
Rain repellent door mirrors	●
Heated door mirrors	●
Remote door lock	●

EXTERIOR COMFORT

Automatically retractable door mirrors	●
Smart Entry & Start System	●

INTERIOR STYLING

Soft-touch texture on upper dashboard	●
Silver insert on upper dashboard	●
3-spoke leather steering wheel	●
Piano black centre console	●
Black stitching on steering wheel	●
Frameless rear-view mirror	●
Bright Silver insert on centre console	●
Chrome insert on centre air vents	●
Chrome insert on side air vents	●
Parking foot brake	●
Leather armrest	●
Padded armrest	●
Soft-touch front door trim	●
Soft-touch front door armrests	●
Chrome interior door handles	●
Soft-touch rear door trim	●

INTERIOR COMFORT

Push-button start	●
Power-tilting steering wheel	●
Power-telescopic steering wheel	●
Heated steering wheel	●
Memory function on steering wheel	●

INTERIOR COMFORT

Electric Power Steering (EPS)	●
Electrochromatic rear-view mirror	●
Static guide lines on rear-view camera display	●
Dual-zone automatic air conditioning	●
Clean air filter	●
Rear passenger air vents	●
Sliding central armrest	●
Driver armrest	●
Front passenger armrest	●
Power-sliding driver seat	●
Power-sliding front passenger seat	●
Power-reclining driver seat	●
Power-reclining front passenger seat	●
Power-height-adjustable driver seat	●
Power-height-adjustable front passenger seat	●
Power-adjustable lumbar support on driver seat	●
Power-adjustable lumbar support on front passenger seat	●
Memory function on driver seat	●
Power-tilting cushion on driver seat	●
Heated driver & front passenger seats	●
Rear door armrests	●
Rear armrest	●
Heated rear seats	●
Front power windows	●
Rear power windows	●
Auto up & down function on all power windows	●
Anti-jam protection on power windows	●

INTERIOR COMFORT

Power passenger window lock	●
UV-filter on driver & front passenger windows	●
Water-repellent driver & front passenger windows	●
Noise reduction layer on front windows	●
UV-filter on rear windows	●
Noise reduction layer on windshield	●
Thermal insulated windshield glass	●
Front wiper de-icer	●
Front room lamp (LED type)	●
Driver & front passenger personal lamps (LED type)	●
Centre room lamp	●
Boot lamp	●
Illuminated entry system	●
Door courtesy lamp	●
Lamp on driver sun visor	●
Lamp on passenger sun visor	●
Mirror on driver sun visor	●
Mirror on passenger sun visor	●
Rear passenger 12V power outlet	●
Wireless mobile phone charger	●
Power door lock	●
Child safety door lock	●
Key reminder warning	●
Coloured TFT information display	●
4.2" screen for information display	●
ECO-driving Indicator	●
Hybrid System Indicator	●

● = Standard

EQUIPMENT

INTERIOR COMFORT

Gear Shift Indicator (GSI)	●
Power mode switch on centre console	●
Drive Mode Selector	●
Coloured TFT temperature control panel	●
4.2" screen for temperature control panel	●
Air conditioning ECO mode switch	●
Audio switches on steering wheel	●
Information display switches on steering wheel	●
Telephone switch on steering wheel	●
Voice recognition switch on steering wheel	●
Adaptive Cruise Control switch on steering wheel	●
Lane Departure Alert switch on steering wheel	●
Water release switch	●
Automatic High Beam (AHB) on/off switch	●
Front overhead assist grips	●
Rear overhead assist grips	●

STORAGE

Centre console box	●
Lid on centre console box	●
Lockable glovebox	●
Slow-opening on glovebox	●
Front door pockets	●

STORAGE

Front bottle holders	●
0.5 litre bottle holder	●
Front cup holders	●
Rear cup holders	●
Rear passenger coat hooks (2)	●
Sunglasses holder	●
Driver & passenger seatback pockets	●
Rear console box	●
Hard tonneau cover	●
Shopping bag hooks	●

MULTIMEDIA

Toyota Touch® 2 with Go navigation system	●
7" multimedia display	●
Digital Audio Broadcast (DAB)	●
Toyota Touch® 2 multimedia system	●
JBL premium sound system	●
11 speakers	●
Aux-in connector	●
USB connector	●
Bluetooth® hands-free system	●
Wi-Fi connectivity	●
Voice recognition	●

SAFETY

Brake Assist (BA)	●
Emergency Brake-light Signal (EBS)	●
Anti-lock Braking System (ABS) with Electronic Brake force Distribution (EBD)	●
High-mounted stop lamp (LED type)	●
LED rear brake lights	●
Vehicle Stability Control (VSC)	●
Rear combination lamps (LED type)	●
LED headlamps	●
Automatic High Beam	●
Automatic headlamp levelling	●
Daytime running lights (LED type)	●
Blind Spot Monitor (BSM)	●
Turning signal integrated in door mirrors	●
Memory on speed limiter	●
Adjustable Speed Limiter (ASL)	●
Adaptive Cruise Control	●
Front parking sensors	●
Rear parking sensors	●
Rear-view camera	●
Immobiliser	●
Intrusion alarm	●
Traction Control (TRC)	●
Hill-start Assist Control (HAC)	●

SAFETY

Downhill Assist Control (DAC)	●
Pre-Collision System	●
Lane Departure Alert	●
Rear Cross Traffic Alert (RCTA)	●
Road Sign Assist	●
Tyre Pressure Warning System (TPWS)	●
Supplemental Restraint System (SRS) airbags – 8 airbags	●
Front passenger airbag on/off switch	●
Front seat belt reminder	●
Adjustable front driver seat belt extender	●
Adjustable front passenger seat belt extender	●
Pre-tensioners and force limiters	●
Driver & front passenger active headrests	●
ISOFIX seat fixing	●
Rear seat belt reminder	●
Rear headrests (2)	●
Adjustable rear headrests	●

PERFORMANCE, TRANSPORT AND PROTECTION

Pitch & Bounce control	●
Front mudguards	●
Rear mudguards	●

● = Standard

Toyota Environmental Challenge 2050

Toyota has set out 6 environmental challenges to be completed by 2050. The objective being to achieve sustainable development together with society.



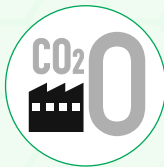
Challenge 1

New Vehicle – Zero CO₂ Emissions Challenge.



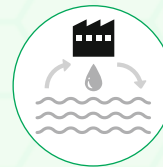
Challenge 2

Life Cycle – Zero CO₂ Emissions Challenge.



Challenge 3

Plant – Zero CO₂ Emissions Challenge.



Challenge 4

Challenge of Minimising and Optimising Water Usage.



Challenge 5

Challenge of Establishing a Recycling-based Society and Systems.

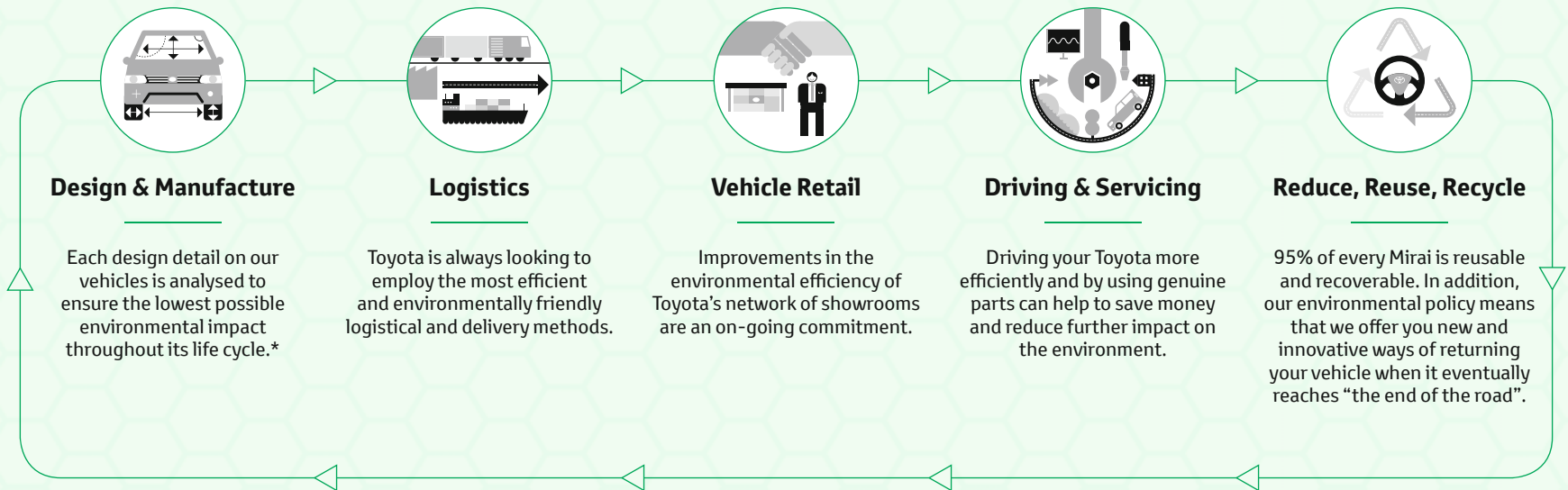


Challenge 6

Challenge of Establishing a Future Society in Harmony with Nature.

Toyota's Lifecycle Approach to Environmental Issues

Toyota has been working on developing sustainable mobility for many years, driven by our vision of zero emissions and zero waste.



* The Mirai, 4JM Fuel Cell Stack (154 hp), shows substantial environmental performance in many life-cycle impact categories in Europe. In the case of Global Warming Potential (GWP), (representing the greenhouse gases emitted into the atmosphere in the vehicle life cycle, expressed in units of CO₂) which is the

greatest concern of car manufacturers, Mirai shows a reduction of 40–70% compared with conventional petrol vehicles. The Mirai emits 0 g/km CO₂, 0 g/km NO_x, 0 g/km PM, 0 g/km NMHC during the use phase. Further, Mirai achieves a fuel economy of 0.76 kg/H₂/100 km.



Complete peace of mind with Toyota



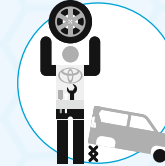
Quality Service

Your Toyota will need a Health & Safety check at least once every 2 years/30,000 km (whichever comes sooner). An intermediate check is necessary every year or 15,000 km.



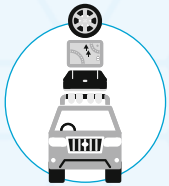
Low Maintenance Costs

All Toyota vehicles are designed and engineered to minimise your maintenance costs.



Genuine Parts

Providing the reassurance of Toyota quality, only genuine and approved components are used on your vehicle.



Genuine Accessories

Toyota accessories are designed and manufactured with the same care, quality and attention to detail as Toyota vehicles. All accessories are covered by a 3-year warranty when purchased together with the vehicle*.



Comprehensive Warranty

Every new Toyota comes with a 3-year/100,000 km vehicle warranty*, which covers any defect caused by a manufacturing fault[§]. The Mirai's fuel cell components are covered by a 5-year/100,000 km warranty[¶].



Toyota Eurocare

Enjoy peace of mind driving with complimentary Toyota Eurocare roadside assistance in 40 European countries for 3 years**.



Added Security

Toyota's comprehensive security system withstands the insurance industry's rigorous 5-minute attack test.

* Check with your retailer for specific warranty details. [§] Transport to the nearest authorised Toyota repairer will also be covered. In addition 3-year/unlimited mileage paint warranty protects against defects and surface rust caused by a manufacturing fault. Every new Toyota is covered by a 12-year/unlimited mileage anti-perforation warranty against perforation of body panels caused by a manufacturing fault in materials or workmanship. [¶] The Fuel Cell Component coverage includes: 1. Battery Pack, 2. Battery ECU, 3. FC Air Compressor, 4. FC Boost Converter, 5. FC ECU, 6. FC H₂ Tanks, 7. FC PCU (Power Control Unit), 8. FC Stack, 9. HF ECU (H₂ Fuelling ECU), 10. Power Management ECU (HV ECU) ** Belgium 5 years/Portugal, Norway and Denmark 1 year.

HYDROGEN-POWERED

MIRAI

**100% VISIONARY
0% EMISSIONS**

Mirai is a truly visionary car. From the hydrogen fuel cell stack at its heart to the absence of any harmful emissions, from the advanced technology to the superior driving experience, this is a car that is changing the way we drive. And as more and more people embrace the Mirai vision, the greater that change will become.

LET'S MAKE TOMORROW BETTER.





ALWAYS A
BETTER WAY

HYDROGEN-POWERED MIRAI. 100% VISIONARY. 0% EMISSIONS.

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