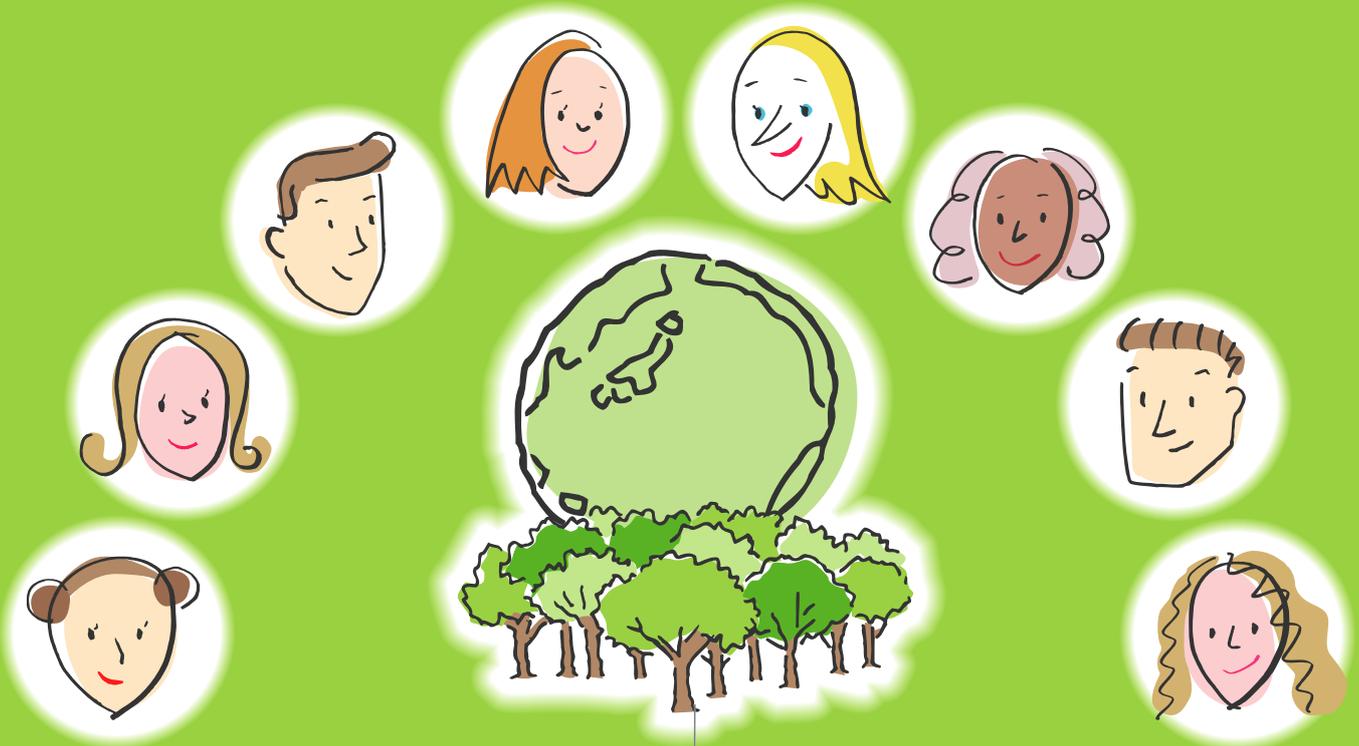


# Prius Green Report

Prius cuts CO<sub>2</sub> throughout its life cycle for the good health of our planet



# PRIUS



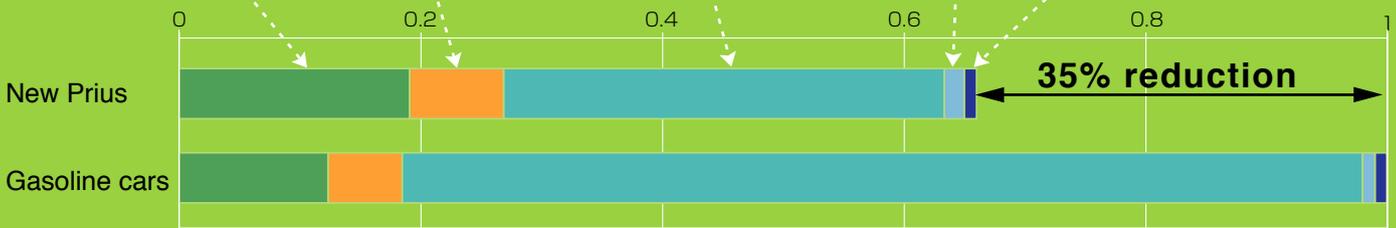
With the Prius\* we looked at a car's whole life cycle – how it's made, how it's driven, how it's disposed of. And then we cut CO<sub>2</sub> emissions.

\*(model displayed at New York & Shanghai Auto Shows)

- Materials production ●
- Vehicle production ●
- Driving ●
- Maintenance ●
- Disposal ●



Comparison of CO<sub>2</sub> emissions during the life cycle (Index)



\*Based on 10 years use, and 100,000km mileage

\*Gasoline car' is of a similar size to a Prius. All the gasoline vehicles used for comparison in this pamphlet are the same model

**Prius. Because a forest doesn't grow overnight.**



Imagine you drive a Prius for 10 years, or for 100,000km. You'll have saved 7.5 tons more CO<sub>2</sub> than with a gasoline car.

Which means...



Even I can be kind to our planet!



One tree\*<sup>1</sup> absorbs around 14kg\*<sup>2</sup> of CO<sub>2</sub> each year. So you'd be doing the annual workload of a forest with 536 trees.

\*<sup>1</sup> Measured using Japanese cedar

\*<sup>2</sup> CO<sub>2</sub> equivalent

In 1997, the Prius became the world's first mass-produced hybrid car to go on sale. 2003 sees the advent of an even more environmentally friendly Prius.

I wonder how they improved the Prius.

Let's show you how we cut CO<sub>2</sub> in each stage of the car's life cycle.



# Production



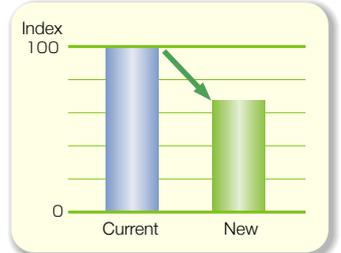
1

## We made the batteries smaller and more efficient.

The hybrid batteries in the Prius are now even more powerful. But they are also a lot smaller. And CO<sub>2</sub> emissions are 33% less than during the manufacture of ordinary batteries.



■ Comparison of CO<sub>2</sub> emissions



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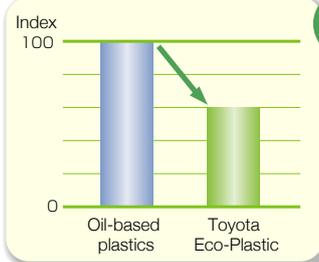
## We used plastic made from plants.

Through the use of Toyota Eco-Plastic, which is made from CO<sub>2</sub>-absorbent plants, we were able to make further CO<sub>2</sub> reductions. It's also used in parts of the floor mats.



Toyota Eco-Plastic floor mat

■ Comparison of CO<sub>2</sub> emissions



Now I see!  
The Prius tries to reduce CO<sub>2</sub> right from the manufacture stage.

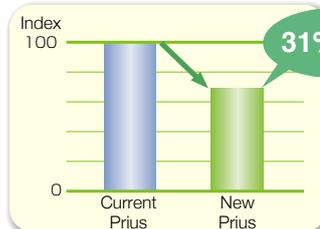


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## We tried to make the ultimate clean car

We also tried to improve the manufacturing process for the Prius. This resulted in a drop in the amount of energy needed during manufacturing, and therefore a huge cut in CO<sub>2</sub> emissions. All Toyota's factories are run in compliance with ISO 14001 environmental management standards, enabling us to carry on making clean cars with a minimal environmental impact.

■ Comparison of CO<sub>2</sub> emissions



31% cut



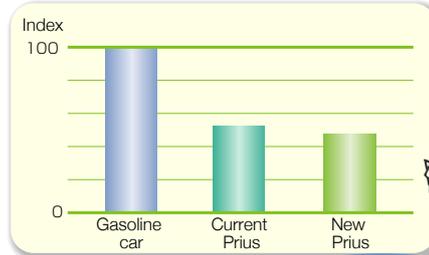
# Driving

The car maximizes the strengths of the engine and the motor, giving you incredible fuel efficiency.

The car divides the characteristics of the engine and the motor while you drive, meaning a dramatic reduction in fuel used and a huge cut in CO<sub>2</sub> emissions.

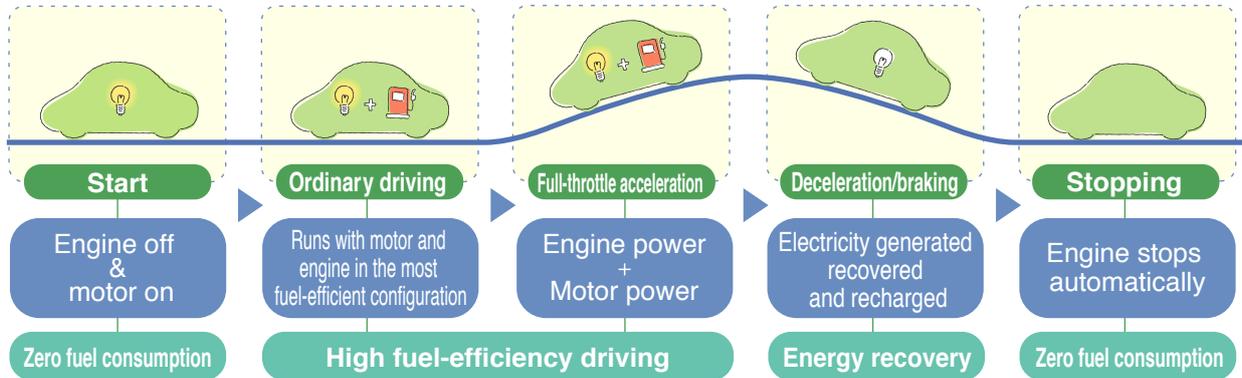
Burning 1 liter of gasoline produces around 2.4kg of CO<sub>2</sub>.

Comparison of CO<sub>2</sub> emissions when driven for 100,000km



So burning less gas means less CO<sub>2</sub>, doesn't it?

## Hybrid cars running on a motor and an engine

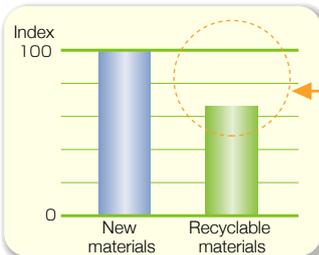


# Recycling

We use recyclable plastics

Using recyclable materials helps us to conserve resources, and leads to a reduction in CO<sub>2</sub> across the life cycle compared to when new materials are used. We have increased the proportion of recyclable plastic we use in the Prius.

Comparison of CO<sub>2</sub> emissions



Using recyclable materials helps us to reduce CO<sub>2</sub> substantially across the life cycle compared to when new materials are used.

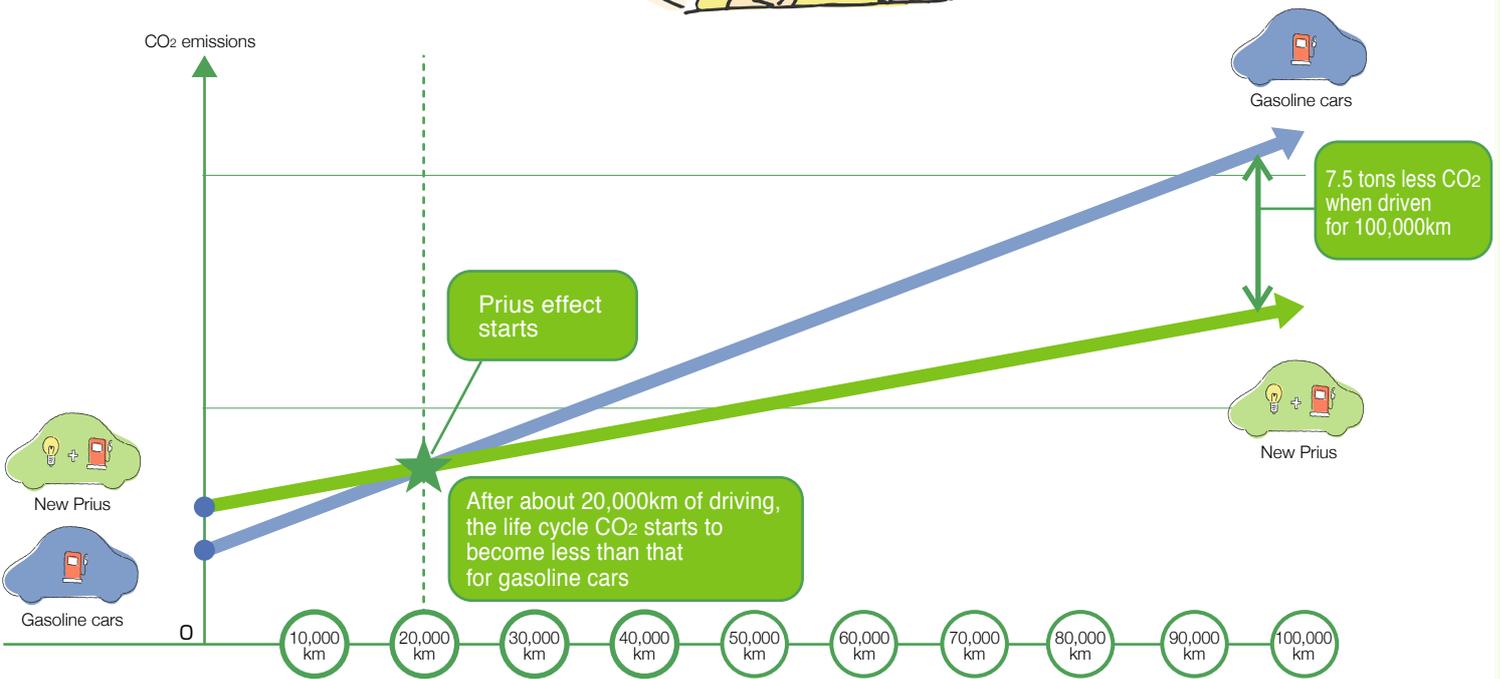
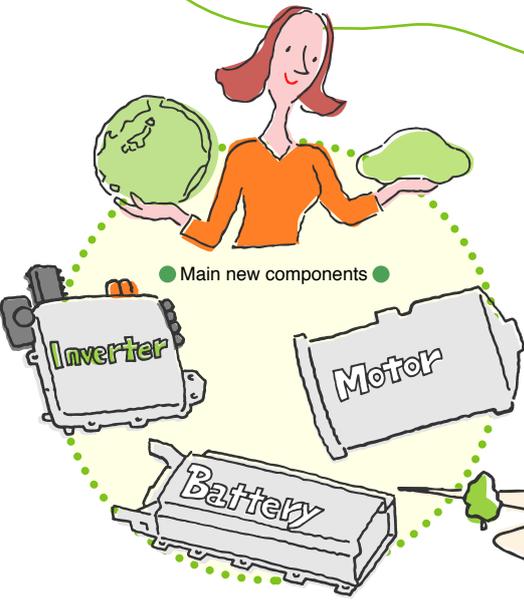
So recycling resources cuts CO<sub>2</sub> as well.



# A great deal of ingenuity makes some big cuts in CO<sub>2</sub> across the life cycle possible

When we make a hybrid car, even more CO<sub>2</sub> is emitted than when we make a gasoline car. But thanks to the ingenious steps we have just outlined, the Prius actually creates a lot less CO<sub>2</sub> than ordinary gasoline cars throughout its life cycle.

Amazing!  
The more you drive hybrid cars, the more beneficial they become!

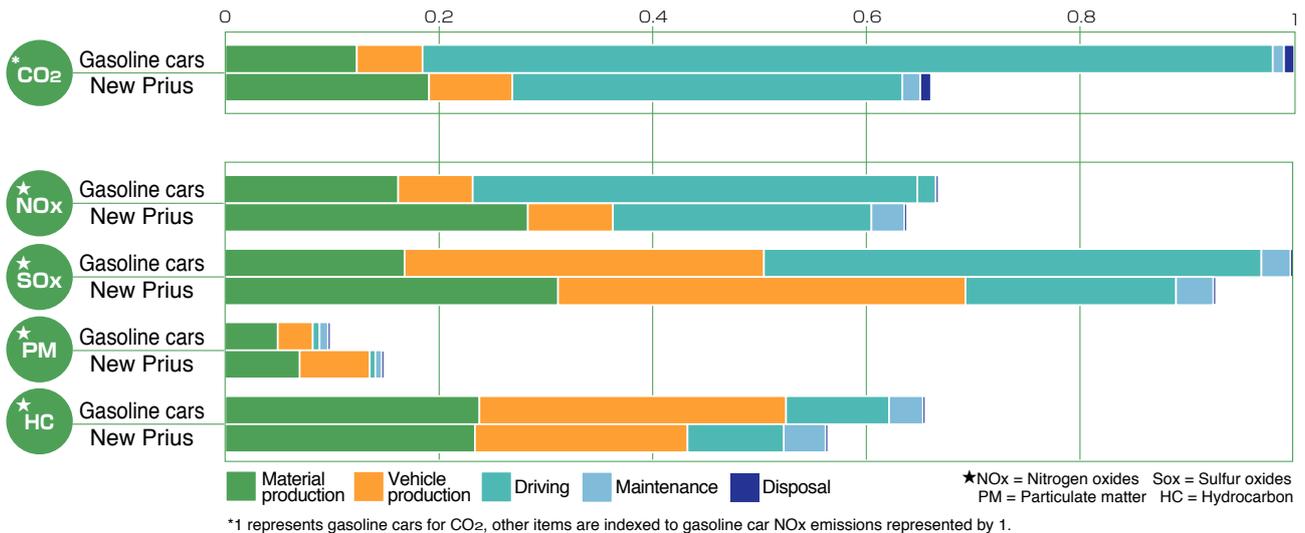


# Toyota examines environmental burden at every stage of a car's life cycle

## Have you heard of LCA – Life Cycle Assessment ?

LCA is a method of evaluating in advance a product's environmental impact throughout its whole life cycle, from manufacture to disposal.  
International standards for this method have already been set under the ISO14040 series.

### New Prius LCA Results (Airborne emissions: Index)



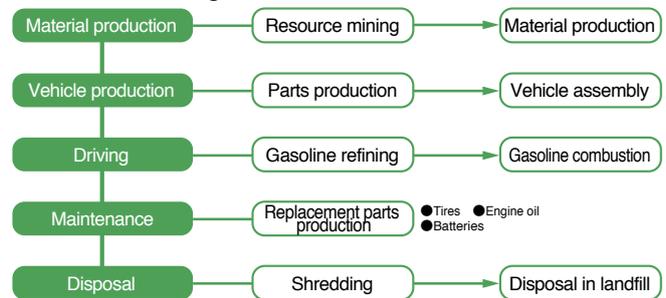
### Vehicle of evaluation targets

(Fuel efficiency and exhaust emissions were measured in the 10-15 Japanese test cycle)

Vehicle name	Vehicle weight	Engine displacement	Exhaust emissions
New Prius	1,250kg	1.5 l	NO <sub>x</sub> : 0.02g/km HC : 0.02g/km
Gasoline cars *1	1,240kg	2.0 l	NO <sub>x</sub> : 0.02g/km HC : 0.02g/km

\*1 Gasoline car of a similar size to a Prius, based on 10 year use, and 100,000km mileage during the life cycle.

### Assessment range



## The greening of cars –totally, globally.

With all the members of the Toyota group around the world joining hands, Toyota is aiming to create a mobile society that can co-exist with the environment. On a global scale, it is trying to reduce the environmental impact of cars, taking into consideration a car's entire life cycle, from R&D, to production, usage and disposal.