



## THE WORLD IS ON AN UNSUSTAINABLE PATH AND ACTION IS NEEDED. We are in the United Nations' "Decade of Action". We have

developed a holistic programme to help accelerate the move to a more sustainable future - PATH360.

# THE EFFICIENCY **PATHWAY**



AROUND A QUARTER OF THE WORLD'S ENERGY IS LOST TO FRICTION, CORROSION AND WEAR? Influence of tribology on global energy consumption, costs and emissions Kenneth Holmberg & Ali Erclemir

In one estimate, these improvements can provide almost 40% of the necessary GHG reductions. Today, around a quarter of the world's energy is lost to friction, corrosion and wear<sup>1</sup>.

With 120 years' experience in efficiency and performance, we, at Castrol, have helped our customers save energy by fighting friction, reducing corrosion and minimising wear. Castrol wants to go further, looking at everything we do.

Our approach is 360; holistic, whole system thinking. <sup>2</sup>Energy Technology Perspectives 2020 IEA, page 73

Our approach is 360, holistic, whole system thinking. It's looking at how we can deliver

what we do in a lower carbon, more efficient, more sustainable way, and helping our customers do the same too. A.S. Ramchander, CMO



**OUR 360** 

through performance, we decided to do more.

So we have developed a 360 roadmap for Castrol that embraces circular economy thinking - looking at the life-cycle of every product that we make to see how it can be improved, extended, reused or recycled; and we are driving our business in supporting newer, growing sectors like renewable energy and e-mobility.

# **OUR AIMS**

We are in the United Nations' "Decade of Action". We have examined our entire business and set ourselves goals under our three focus areas of Waste, Carbon and People.

This builds on work we have been doing to make our business more sustainable, and now we are committing to making our operations carbon neutral<sup>3</sup> from 2021.

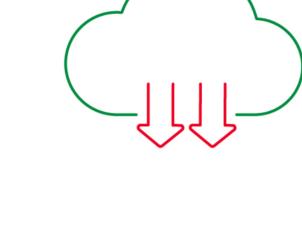
maps our path to becoming a net zero brand by 2050 or sooner.

And we want to do more; our PATH360 plan

<sup>3</sup>Castrol is committed to making its Scope 1 and 2 emissions certified carbon neutral from 2021. The CO2 emissions are calculated in accordance with the Greenhouse Gas Protocol's Corporate Standard and includes life-cycle emissions. The demonstration of carbon neutrality will be assured by an Independent Third-Party and certified to BSI's PAS 2060 carbon neutral specification. See www.castrol.com/cneutral for more information.

BY 2030







**WASTE** Continue to help our commercial customers

SAVING

save energy, waste and water as well as reduce our plastic footprint by half<sup>4</sup>. <sup>4</sup>To promote the responsible design and management of plastic packaging along its life-cycle. Castrol defines its plastic footprint as the amount of virgin plastic included in our packaging per litre that isn't recycled vs our 2019 baseline. See www.castrol.com/info/CastrolPATH360 for more information. <sup>5</sup>vs Castrol's net carbon intensity our products sold in 2019. See www.castrol.com/info/CastrolPATH360 for more information.

#### Halve the net carbon intensity per litre of our products<sup>5</sup>.

REDUCING

**CARBON** 

**PEOPLE'S LIVES** Through our offers and

**IMPROVING** 

support we will continue to work to improve people's lives around the world<sup>6</sup>.

<sup>6</sup>Through offsetting as part of Castrol's carbon neutral programme see www.castrol.com/savings/castrolpath360.com for more information.

## **HOW WE'RE GOING TO DO IT: OUR PATH360 FRAMEWORK**







**AIMING TO BE** 

WASTE

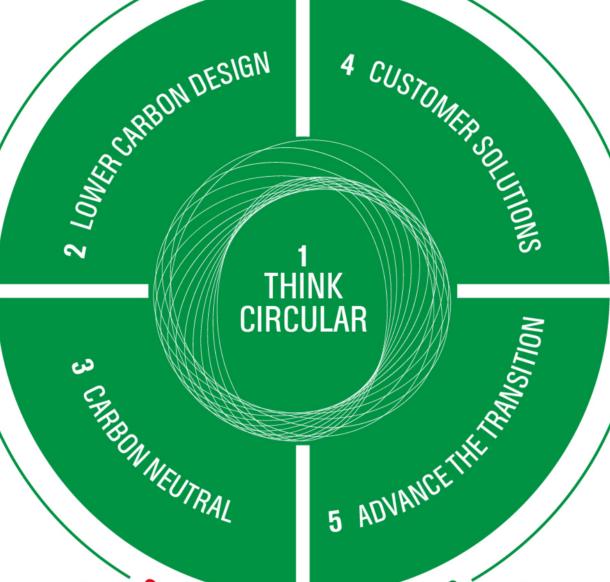
**REDUCING** 

**CARBON** 

**SAVING** 

**IMPROVING** 

**PEOPLE'S LIVES** 



6 IMPROVING PEOPLE'S LIVES

A NET ZERO **BRAND BY 2050 OR SOONER** 

## **THINK CIRCULAR**

## We look at the life-cycle carbon profile of our products from "cradle to grave" and are

using circular economy thinking to help us improve them.

### We consider life-cycle carbon profile as part of our product development process to deliver high performance lower life-cycle carbon solutions.

**DESIGN** 

**LOWER CARBON** 

#### **NEUTRAL** To make a carbon neutral offer we follow the PAS 2060 standard to calculate the life-cycle carbon of the product, develop a carbon

**CARBON** 

carbon offset credits to compensate. Carbon offsetting is an efficient way to compensate a product's life-cycle carbon while we work to bring it down. 6 **IMPROVE** 

reduction plan, purchase and retire sufficient

### We know that the biggest difference we can make is by working together with our customers and partners and helping towards their

**CUSTOMER** 

**SOLUTIONS** 

are focused on high performance solutions to maximise this contribution.

sustainability goals. Our products can help our

customers save energy, waste or water and we

### to renewable energy and sustainable technologies - like lubricants for wind turbines and fluids for e-mobility.

**TRANSITION** 

We are investing in and developing products

and services that support the world's transition

#### And we build in positive outcomes for people around the world as we work. Our activities range from aiming to improve mechanic education, helping to support more sustainable livelihoods

**LIVES** 

and a focus on customer inclusion.

### meet the PATH360 qualifying criteria<sup>7</sup> **MADE UP 24%** OF CASTROL GLOBAL **SALES**

**OUR WHEELS ARE ALREADY IN MOTION -**

WHAT WE'VE DONE SO FAR

In 2020 products and services that would

We estimate that in 2019 our lower viscosity

lubricants saved our passenger car customers

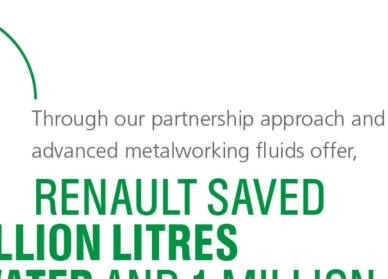
compared to what would have been

LITRES OF FUEL

used by vehicles using an industry average portfolio of lubricants8.

We've redesigned our plastic packaging

to be stronger, lighter and more efficient



**OF WATER** AND 1 MILLION LITRES OF WASTE in their automotive engine plant9.

through distribution. We expect this will REDUCE OUR PLASTIC **USE BY 7,000 TONNES** PER YEAR BY 2023

Since 2014 Castrol has contributed

to improve the lives of over

1.8 MILLION PEOPLE<sup>11</sup>

training and gender equality.

to an offset programme that has helped

through better health, decent work,

We've invested and developed a range

of e-fluids for electric vehicles and today,

**OVER HALF** 

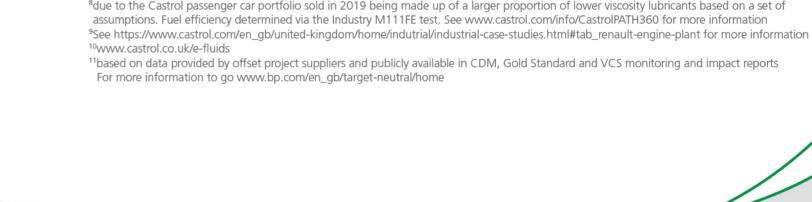
OF THE WORLD'S

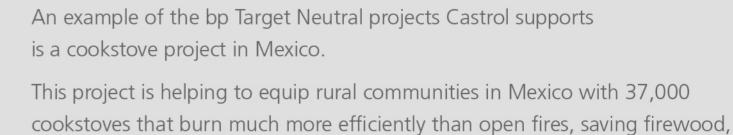
of their factory fill<sup>10</sup>.

major vehicle manufacturers

use Castrol e-fluids as part







12https://www.bp.com/en\_gb/target-neutral/home/offsetting-projects/cookstoves-mexico.html

is saving almost 92,000 tCO2e per year<sup>12</sup>.

COOKSTOVES, MEXICO

**COMPENSATING FOR CARBON AND IMPROVING HEALTH** 

reducing indoor air pollution and improving respiratory health. The project



# Castrol reach net zero by 2050 or sooner. This is about holistic and collective responsibility.

We will take action across our business. I believe that we can also make a positive impact by helping and enabling others with their sustainability goals, and ultimately help accelerate the world's path to a more sustainable future. Mandhir Singh, Senior Vice President, Castrol



