

## Creating new value and achieving the ultimate goal of zero

**DENSO's mission is to contribute to a better world and to help power society's shift to green, safe and worry free mobility. Everything it does is to advance it towards its two great causes: Green and Peace of Mind**

To achieve its vision for Green, DENSO aims to achieve net zero CO<sub>2</sub> emissions and a carbon neutral society by capturing CO<sub>2</sub> both in its production facilities and with its products. When it comes to Peace of Mind, its aim is to realise zero traffic fatalities. In both domains DENSO will achieve its ultimate goal of zero.

### Green

DENSO aims to realise carbon neutrality for its production activities by 2035 by further promoting the environmental efforts in which it has already been engaged. To make this ambition a reality, it will continue to pursue its efforts in the three fields of: *Monozukuri* (manufacturing), mobility products and energy use, while making use of green innovation funds and other frameworks.

### Peace of Mind

For a company like DENSO, which aims to contribute to the happiness of people, part of its mission is to provide peace of mind to society by resolving social issues through its business activities. This ambition combines three pillars: the elimination of fatalities from traffic accidents, the creation of comfortable spaces and support for working people, and will allow DENSO to become a leading company that provides Peace of Mind to society.

With global issues such as environmental problems and a shortage of resources, DENSO seeks to deliver value by contributing to the mobility field and a recycling orientated society, and strives to increase the value of mobility and beyond.

In the future, as vehicles become more advanced and connected to drivers and infrastructure, DENSO is committed to creating new products and services by combining diverse technologies. It will also strengthen its ability to adapt to change, continue to create new value with its partners and increase recycling for mobility and society as a whole.

### Activities and achievements

## **CO2 neutral In European Manufacturing Plants**

In its efforts to reduce CO<sub>2</sub> emissions throughout the supply chain, by its 2022 fiscal year, 16 of DENSO's European manufacturing facilities had successfully achieved carbon neutrality for Scope1: Direct emissions of greenhouse gases from activities under the control of the organisation, such as fuel combustion and industrial processes, and Scope2: Indirect emissions resulting from the consumption of purchased electricity, heat, or steam. Its objective is to achieve Scope 3: Other indirect emissions, including those from activities not owned or controlled by the reporting organisation, but related to its activities, by 2030.

## **Remanufacturing**

Remanufacturing plays a pivotal role in the transition towards a circular economy, where products are reused, refurbished and recycled to minimise environmental impact and extend their lifespan, a principle that DENSO wholeheartedly embraces. DENSO Remanufacturing program delivers high quality products of the same standards as the original component on the vehicle but manufactured in an environmentally friendly and sustainable way. Although some of these are currently only available to vehicle manufacturers, , DENSO is actively advancing the remanufacturing of alternators, starters, diesel products (including injectors and pumps), and hybrid vehicle batteries

## **Eco-friendly Aftermarket Packaging**

In pursuit of its goal to reduce its environmental impact and ensure a sustainable future, DENSO Aftermarket is undergoing a three phase plan to fundamentally change its product packaging and support material.

After completing an inner packaging review, the final phase is to redesign the outer packaging, which, as well as saving 258 kg of paint every year, will also allow DENSO to unify the branding and use a common box design that takes less time to repack, is more efficient to stack and improves the overall logistics process.

The new design will also encompass a revised labelling system, which simplifies the handing and distribution procedure and includes a QR Code that allows access to installation instructions, technical details and warranty information. In addition, with clear and well recognised recycling logos printed on the labels, end users can recycle the packaging easily and by scanning a second QR Code, can also find out more information about DENSO's green initiative.

## The Power of Hydrogen

Although there are still many obstacles to overcome, hydrogen is a clean energy resource that generates no CO<sub>2</sub> emissions during usage. As a result, the DENSO Corporation and DENSO Fukushima Corporation, in collaboration with Toyota Motor Corporation, started a project to produce green hydrogen at its plant as part of the initiative to realise carbon neutral manufacturing.

Subsequently, DENSO is developing solid oxide electrolysis cells (SOECs) and solid oxide fuel cells (SOFCs) by using proprietary technologies cultivated in the mobility field, with the former targeting more efficient hydrogen production, and the latter focused on hydrogen usage, capable of generating electricity through the oxidation of hydrogen. Recently, DENSO announced that it has signed a manufacturing license agreement with Ceres Power Holdings (CWR.L), a leading developer of solid oxide cell stack technology. DENSO aims to advance the early practical application of SOECs that produce hydrogen through water electrolysis.

More information about DENSO's commitment to sustainability is available online at: [www.denso-am.eu](http://www.denso-am.eu)

## ENDS

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# Press release

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