Environmental Sustainability Roadmap Let's make mobility sustainable together

February 2022



We make it **possible**



Moving forward together





Mobility on land, at sea and in the air are our main fields of action.

We have the technology, capabilities and global reach to embrace the Electrification and Sustainability challenges and opportunities.

Together with our 38,000 employees, customers, suppliers and all stakeholders, we want to achieve 50% reduction of our carbon emissions for Scopes 1 and 2 by 2030 and we aim for net carbon neutrality for all Scopes by 2050.

Helene Moreau-Leroy Chairman and CEO



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Our path towards net carbon neutrality



CO_2 emissions

Scope 1: 120 kt Scope 2: 275 kt Scope 3 Upstream: 2,200 kt

2022



 CO_2 life cycle of our products assessed



All sites ISO 50001 certified

50001





25% recycled or bio-based materials in our new products





50% reduction of our carbon emissions for Scopes 1 and 2^*

Aim for *net carbon neutrality* for all Scopes

2050







Our assets and contribution







A history of innovation serving all mobility needs

Elastic suspension

Pioneer in elastic suspension for vibration dampening

Primary suspension for Trains

On board the first TGV for passenger comfort









Hydraulic suspension for engines

Pioneer in hydraulic engine suspension for superior passenger comfort

Pioneer in magnetic sensors for accurate rotational speed measurements

Cabin fire protection

Pioneer in fireproof materials for thermal & acoustic insulation systems for aircraft and space

Elastic belt for electric vehicles

Auto-tension Elastic belt for easy fit and energy saving







Magnetic sensor encoders for ABS

Thermoplastic air conditioning 100p

Pioneer for lightweight systems





Creating value through Science and Technology Internal network of R&D competences

Multi-material engineering





Polymer alloy modeling



Composites

Fiber placement technology

.







Research & Development: 2,300 people, 5% of sales





lassachusetts Institute of [echnology

Pullforming process



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System characterization

Aerospace composite duct testing in anechoic chamber



Vehicle Thermal Management System (VTMS) test bench

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Mechatronics & connected systems



Test of active vibration cancellation system



Multi physics modeling

Turbulence modeling in fluid dynamics





Aeroacoustic modeling









Connecting our technologies to multiple industry applications





Leveraged expertise





Providing sustainable solutions to our customers



Reducing CO₂ footprint

Multi-material engineering

Automotive door seals ... -25% CO₂ over product lifecycle



Multiphysics modeling

Automotive bracket for engine mount 40% lighter





Multi-way valve reduces CO₂ emission up to 3%

Composite technologies with *function integration*

.

Connection rods in aircraft 30% weight savings



Mechatronics & connected systems

Data acquisition systems for predictive maintenance

Energy efficient thermal management













Fostering the circular economy





Recover, reuse waste and upcycle

New process to recover & reuse rubber waste through micronization of rubber



OUR TARGET: 25% of recycled or bio-based materials *in new products in 2025*

Use recycled materials

95% energy saved compared to first fusion aluminum

Extend operations lifetime

Maintenance Repair Overhaul (MRO) for aerospace and railway

Extend product lifecycle

Helicopter Lead-lag damper with sensor to optimize maintenance

Developing sustainable products through eco-design

EXAMPLE

Full thermoplastic door seal

Weight saving 49% lighter..

vs metal insert

35% CO, emission saving

100% recyclable

with 4 premium vehicle programs

OUR TARGET: *CO*₂ *lifecycle assessment of our products* serving eco-design purpose

Jaguar Land Rover engineer

Extending innovation with partners

Hutchinson innovates with its partners to create new sustainable ways to travel.

Battery thermal insulation

Thermal insulation for batteries in electrical buses eCitaro

Wireless charging

Wireless charging system of electrical vehicles Electreon

Acoustic solutions

Multi-material assemblies for VTOL mechanical and *acoustic performance* eVTOL partner

B Reducing our environmental impact

Rolling out an energy efficient roadmap at our sites

EXAMPLE: CO₂ REDUCTION IN LODZ PLANT (POLAND)

Energy recovery from VOC burner - 100 T CO ₂ /year	
White roof instead of black -1000TCO ₂ /year	
Blinds on all windows - 20TCO ₂ /year	
Machine program update for automatic disconnection - 300TCO ₂ /year	
	CRASS DENNISCE

140 oxytrees planted -5TCO,/year

OUR TARGET: By 2025, 100% of all sites certified with ISO 50001 standard

The key success factor with our ISO 50001 certification has been to implement the standard through 4 steps: energy policy design, training & awareness improvement, data collection & analysis, and involvement of all stakeholders for implementation.

Rosario Lerida,

Plant Manager Madrid, Spain & Tangier, Morocco

Gives a framework to monitor energy management.

Committed to renewable energies

We have started multiple initiatives at our sites worldwide to move to multiple renewable energies.

Solarization

Install panels on our plants, according to a pluriannual solarization roadmap

EXAMPLE: WUHAN PLANT (CHINA)

3,280 solar panels 1,500 MWh produced -900TCO,/year

Bio gas

Explore contracts with biomethane suppliers to replace fossil gas

CONTRIBUTION TO OUR TARGET: 50% reduction of our carbon emission for Scopes 1 and 2 by 2030

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Wind power

Develop partnerships for existing and future projects to secure long term contracts on renewable power

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Solar PV farm

Contract with existing renewable energy suppliers

TotalEnergies

As part of TotalEnergies, a world leader of renewable energies, Hutchinson has access to PPA (Purchase Power Agreements)

Reducing environmental impact - water and waste

Water management

Hutchinson is committed to a better use of natural resources: we promote best practices for reducing water withdrawal for our teams around the globe.

OUR TARGET: -25% water withdrawal by 2025

Gives a framework to monitor and improve resource efficiency and waste reduction.

ISO 14001 certification for 100% of our sites by 2025. 70% of our sites are already certified.

Waste avoidance & reduction

We avoid waste by using AI tools, process improvements and breakthrough product design. We also foster reusing, recycling and reducing nonvalue added waste. This is part of the Excellence Production Standards.

Our employees are engaged with local communities

Offering staff a new experience based on biodiversity and local economy

The Dovecote area welcomed all the teams to exchange their knowledge on biodiversity. Employees planted 100 fruit trees from forgotten and rare species. During World Bee Day, honey can be harvested.

Chalette-Sur-Loing, France - 2020-2021

66

In Reynosa, employees suggested replacing fluorescent lighting with LED lighting and motion detectors leading to cost reduction and improved lighting.

Víctor Garza, HR Director Reynosa, Mexico

Each month, employees and their families visit the Earth House, a place that allows visitors to view and observe climate change and environmental issues.

Celaya, Mexico - 2020

Creating team cohesion through planting of trees

Employees joined to plant Paulownia trees that can capture 10 times more CO_2 and release 4 times more oxygen than ordinary trees.

Lodz, Poland – 2021

Collecting litter with children

Employees worked with the primary school to pick up 500kg of litter on the roads. This operation helped the young generation develop an awareness of environmental protection.

Lodz, Poland – 2019

Agroforest project in Brazil

Employees have planted 30,000 trees around the building over the last 10 years to contribute to reforestation and conservation of the local flora.

Monte Alto, Brasil - 2021

4 *Partnering* with our suppliers

Acting with our suppliers

Reducing the impact of Scope 3 is essential. We are rolling out an extensive roadmap with our suppliers.

5 requirements to fulfill

Carbon neutrality

Circular economy

Short-term objectives

Supplier day to align our supply base with Hutchinson expectations

Integration of our requirements in the purchasing strategy

Suppliers commitment ••••••

140 suppliers identified as key contributors

Raw materials and components: chemicals, textile and metal

Goods and services:

packaging, transport and temporary labor

Renewable electricity

Life cycle analysis

Governance

Long term objectives

A compliant supply base

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responsibility to achieve net carbon neutrality.

sustainable mobility.

Because the only way to meet that challenge is together.

- Employees, customers, suppliers and all stakeholders have a shared
- Let's join forces to continue designing innovative solutions to shape a

Let's make mobility sustainable together

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