



Progress beyond

# COP26

## OUR SUSTAINABLE SOLUTIONS FOR CLEAN MOBILITY



The **COP26** summit has highlighted Clean Mobility as a key driver to reduce greenhouse gas emissions to net zero globally by mid-century.

Solvay is committed to play its part in reaching this ambitious climate target.



### DRIVING CLEAN, SAFE AND ENERGY-EFFICIENT SOLUTIONS

Growing concerns about sustainability and stringent regulations on CO<sub>2</sub> have led the automotive industry to develop cleaner, safer and more energy-efficient solutions. And Solvay is in the driving seat...

#### SOLVALITE™

Thermoset composites enabling lighter and more energy-efficient vehicles / 100 million such cars = **100bn kg of CO<sub>2</sub> saved**

#### AMODEL® BIO PPA

Sustainable polymer for EV e-motor & power electronic performance  
Reduced global warming potential with partially bio-sourced products made of **100% renewable energy**

#### KETASPIRE® PEEK

Lightweight alternative for turbocharged engines = **less CO<sub>2</sub> emissions** through increased efficiency and better drivetrain technology

#### OPTALYS®

Inorganic oxygen buffer helping industry meet more stringent vehicle emissions regulations = over **90% of exhaust pollutant reduction**

#### SW PREMIUM RANGE

Sustainable tires with reduced resistance = up to **16Mt of yearly CO<sub>2</sub> savings**

#### SOLEF® PVDF

A polymer enabling better and more durable Li-ion batteries = up to **1.67Mt of CO<sub>2</sub> savings** over vehicle lifecycle



### LIFTING OFF FOR A MORE SUSTAINABLE AEROSPACE FUTURE

In the aerospace market, there is high demand for advanced solutions to accelerate build rates at a lower cost and produce lighter, more fuel-efficient aircraft.

Using Solvay's composite materials instead of aluminium can reduce maintenance hours by 44% to 65% and cut CO<sub>2</sub> 50% emissions by 2050.

#### CYCOM®

Lighter aircraft structures = up to **-25% fuel consumption** and up to **79Mt of CO<sub>2</sub> emission savings**

#### APC

Inherently recyclable, lighter and safer aircraft structures / Thermoplastic composites enabling **circular economy** for aircraft lifecycle

#### HALAR®

Lighter and more durable LEAP engines = **CO<sub>2</sub> emissions reduced by 15%** compared to traditional engines



### CONTRIBUTING TO NEW MOBILITY SOLUTIONS

With their ability to significantly reduce both weight and manufacturing costs compared to metal, our materials and solutions have an important role to play in urban clean mobility. They can be used for primary and secondary structures and non-structural parts in a number of vehicles.



Cargo drones & air taxis



e-scooters



e-bikes



e-motorbikes

More than half of Solvay's portfolio is now solidly positioned as Sustainable Solutions with sales generated in markets related to strong sustainability trends including clean mobility.

Clean Mobility is here, it's real and it's now. And Solvay is ready.

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