



Progress beyond

COP26

WHY DOES CLEAN MOBILITY MATTER?

Over 130 countries are contemplating or have already committed to reducing emissions to net zero by mid-century. Meanwhile, COP26 has pinpointed Clean Mobility as a key driver to achieve this climate-neutral target. **Let's find out why.**

WHAT IS CLEAN MOBILITY?

Clean mobility spans all modes of transportation that use **alternative fuels** or **advanced technology** to reduce greenhouse gas emissions. This can include plug-in hybrid and electric vehicles, or hydrogen, biofuel, natural gas, ethanol, and even propane-powered vehicles.

THE NEED FOR CLEAN MOBILITY

At **COP26**, countries will be asked to present ambitious targets to achieve a climate-neutral society by 2050 by addressing:



Phasing out **coal**



Curtailing **deforestation**



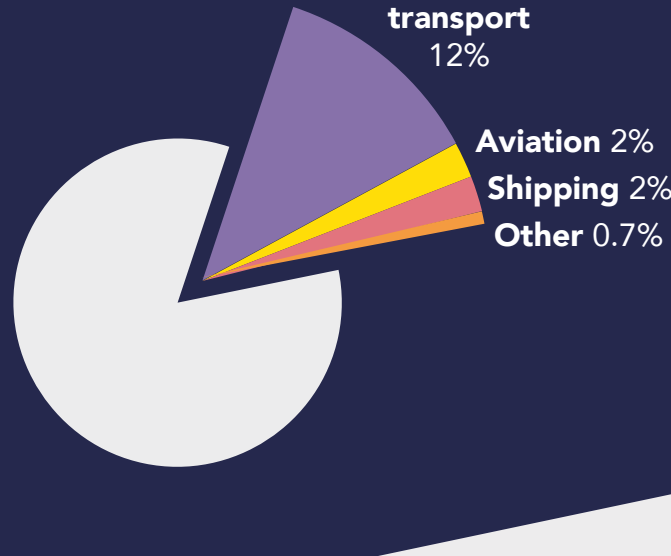
Encouraging investment in **renewables**



Speeding up the transition to **electric vehicles**

DID YOU KNOW?

Transportation currently accounts for **16%** of global greenhouse gas emissions



THE MARCH FOR CLEAN MOBILITY

To **accelerate the switch to electric vehicles**, several forward-looking nations have introduced **green stimulus packages** that include the automotive industry's transition to electric and hybrid transportation as a key component to revive their economies.

This is where Solvay's contribution particularly stands out.

50%
of vehicles

in global production will be electric or hybrid by 2030

25%
CAGR growth

in batteries expected between 2018 and 2030

Key figures

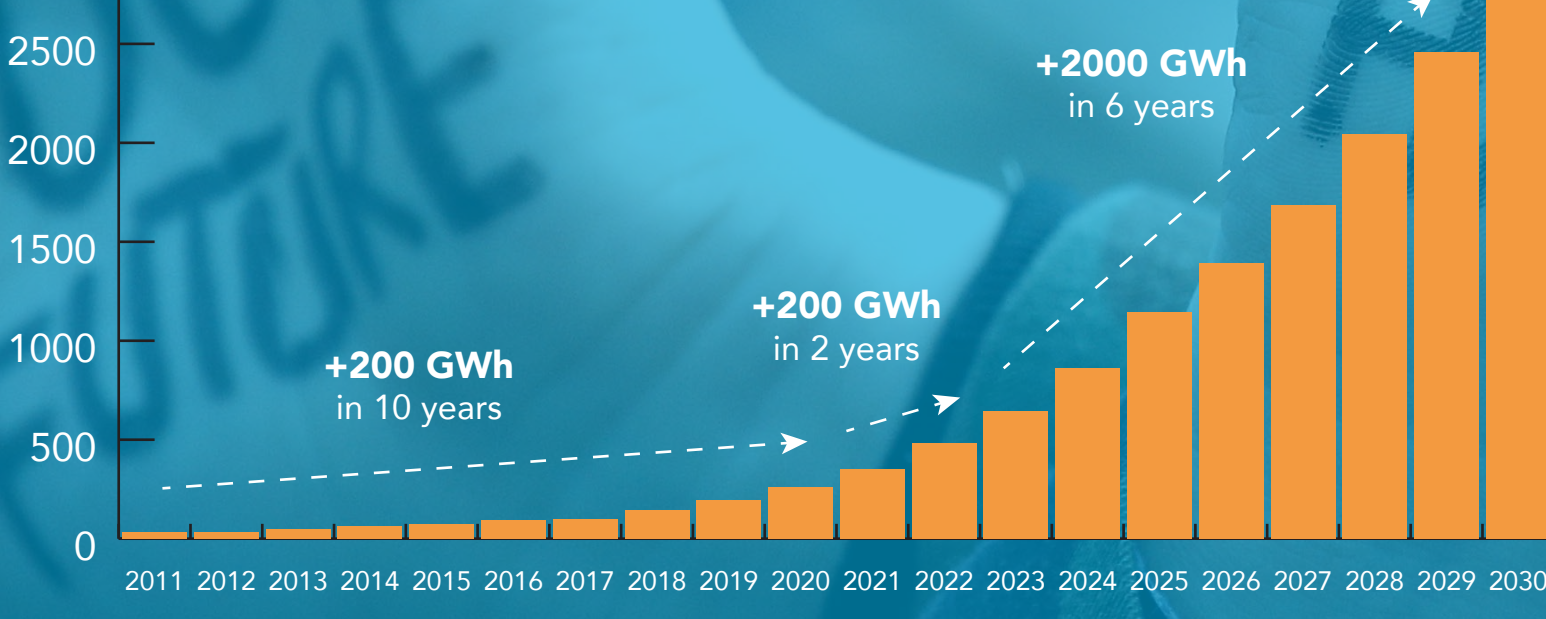
170 million

will be the global passenger electrical vehicles fleet on the road by 2030

1.5Gt
CO₂ per year

expected global CO₂ emissions reduction enabled by electric vehicles by 2050, equivalent to Russia's current emissions

LI-ION BATTERY MARKET DEMAND FORECASTS



THE CHALLENGES FOR CLEAN MOBILITY

With the positive message surrounding clean mobility, we tend to forget that the concept poses challenges for **Original Equipment Manufacturers (OEM)** wanting to make it affordable for consumers:

DID YOU KNOW?

€600m
each year

What the EU could lose each year without full-value end-of-life battery metals recovery

18x more lithium
5x more cobalt

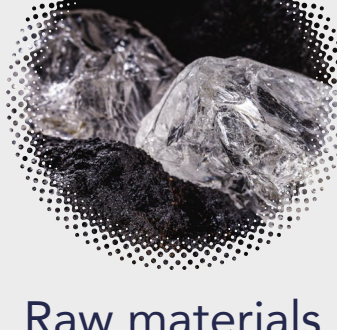
What the EU will need to manufacture enough EV batteries and energy storage systems by 2030



Scaling up **infrastructure**



Reducing vehicle mass and rolling resistance



Raw materials **availability**



More efficient **recycling process**

Chemistry and scientific innovation are key to providing solutions to OEM's challenges, promoting clean mobility and creating a closed-loop process for the EV batteries of the future.

Solvay is uniquely positioned to provide solutions in clean mobility, now and in the future.

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