

An aerial photograph of a two-lane asphalt road that curves through a dense, lush green forest. To the left of the road, a calm body of water reflects the sky. Several vehicles are visible on the road: a white truck in the foreground, followed by a dark car, a white car, and another dark car further ahead. The overall scene is peaceful and scenic.

# *Decarbonisation Roadmap*

The logo for Routes de France, featuring a stylized white 'RF' monogram on a dark background.

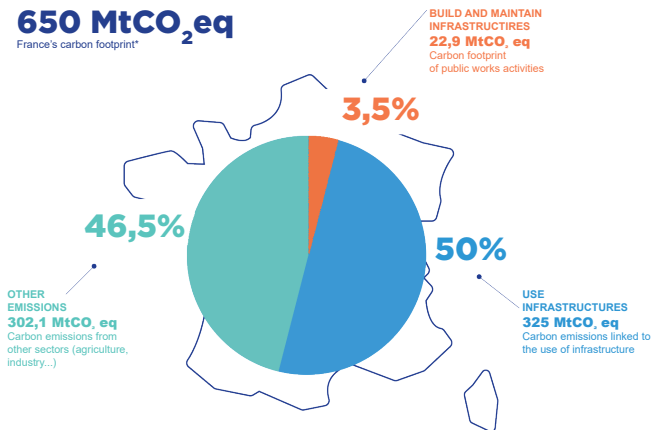
**ROUTES  
DE FRANCE**

## Context

France's National Low Carbon Strategy (SNBC) aims to achieve carbon neutrality by 2050.

**650 MtCO<sub>2</sub>eq**

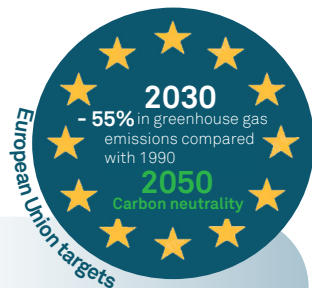
France's carbon footprint\*



**OTHER EMISSIONS**  
**302,1 MtCO<sub>2</sub>eq**  
Carbon emissions from other sectors (agriculture, industry...)

**USE INFRASTRUCTURES**  
**325 MtCO<sub>2</sub>eq**  
Carbon emissions linked to the use of infrastructure

\* Domestic emissions excluding exports + emissions associated with imports



Construction and maintenance of infrastructure (roads, earthworks, engineering structures, pipelines, electricity and telecommunications networks, etc.) account for 3.5% of France's carbon footprint.

(Study FNTF/Carbone 4- Data 2018)

## The road industry in France

Actions already taken by road industry to reduce greenhouse gas emissions:

- Warm mix asphalt: **24%** of all asphalt mixes in 2022;
- Average rate of reclaimed asphalt pavement from deconstruction work in mixes: **22%** in 2022;
- **Eco-comparator SEVE** software **recognised by all stakeholders** (project owner, project manager, road contractors);
- Upgrading industrial equipment: improving energy performance and using less carbon-intensive energy sources.

BILAN ENVIRONNEMENTAL

RAPPORT ANNUEL - DONNÉES 2022

Annual publication of an **environmental report** by Routes de France (since 2011).



SEPTEMBRE 2023



PACTE D'ENGAGEMENT  
DES ACTEURS DES  
INFRASTRUCTURES  
DE MOBILITÉ

Routes de France signed the **IDRRIM Commitment Pact**.



JANVIER 2021





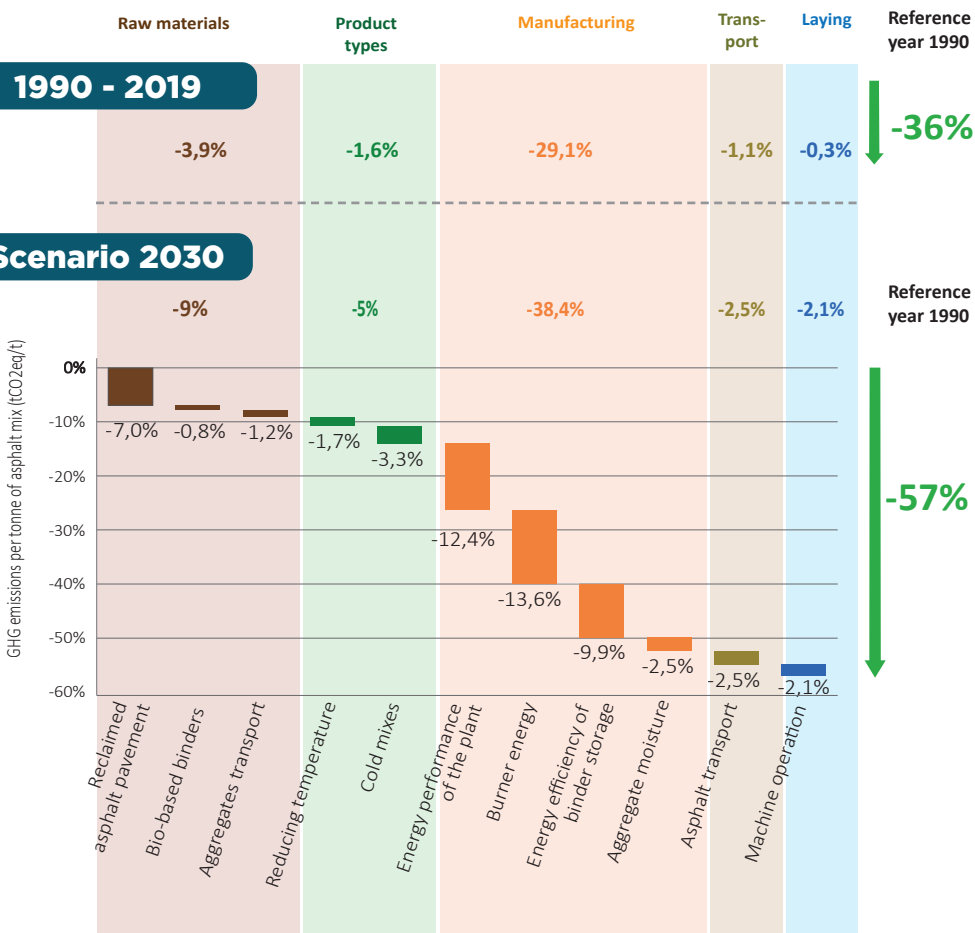
# Roadmap for the road industry

- Commit the industry in a global approach and encourage companies to adopt low-carbon techniques
- Support project owners in their decarbonisation process

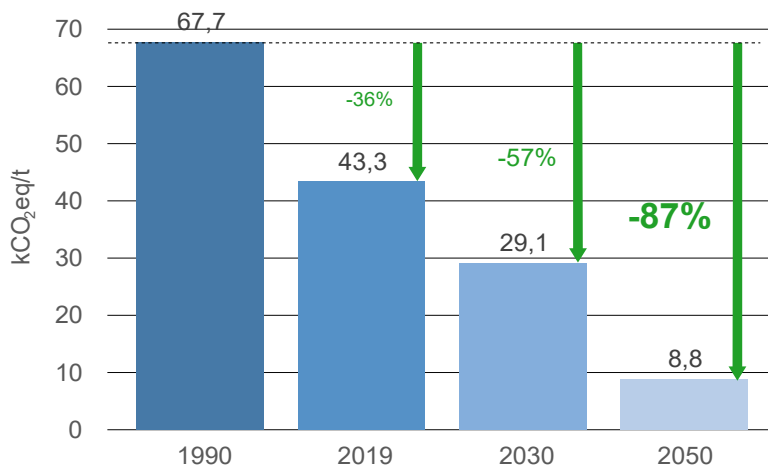
## Scope of calculation:



## Decarbonization levers



## Scenario 2050



### Main assumptions:

#### ■ Raw materials

- Average rate of Reclaimed Asphalt Pavement: **50%**
- Zero impact of biobased binders (biogenic carbon stock offsets fossil carbon emissions)

#### ■ Plants: **100%** biobased/decarbonated fuel

#### ■ Products adapted to use

- Asphalt mixes produced at medium temperature 120°C
- Cold mixes (plant and on site recycling)

#### ■ Transport and implementation : 75% electric, 25% biofuel

### All stakeholders must be involved:

#### Project owner and project manager

- Systematically open up contracts to environmental alternatives
- Reinforce environmental selection criteria and evaluating offers using the SEVE eco-comparator
- Promote technical innovations

#### Companies

- Develop industrial facilities and equipment using low-carbon solutions (asphalt plants, lorries, machinery)
- Pursue innovation efforts
- Propose alternative solutions