

Decarbonisation Roadmap

Version 2 / July 2025



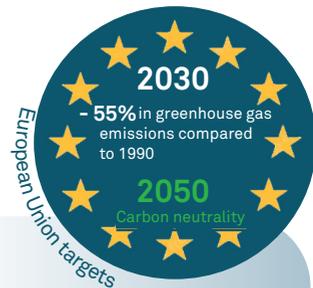
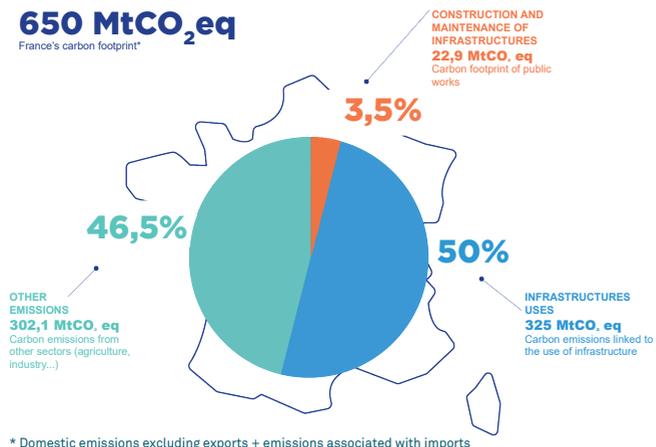
**ROUTES
DE FRANCE**

Context

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

650 MtCO₂eq

France's carbon footprint*



Construction and maintenance of infrastructures (roads, earthworks, water management systems, electricity and telecommunications network, etc.) account for 3.5% of France's total carbon footprint.

(Study FNTP/Carbone 4- Data 2018)

The road industry in France

Actions already implemented by road construction companies to reduce greenhouse gas emissions:

- Warm-mix asphalt: **19,6%** of total asphalt production in 2024;
- Average use of Reclaimed Asphalt Pavement (RAP) in Asphalt Mixes: 25,3% in 2024 ;
- **SEVE-TP Eco-comparateur recognized by all stakeholders** (project owners, project manager, construction companies); SEVE-TP is referenced on www.achats-durables.gouv.fr
- Evolution of Asphalt Plant: improved energy performance and use of lower-carbon energy sources.

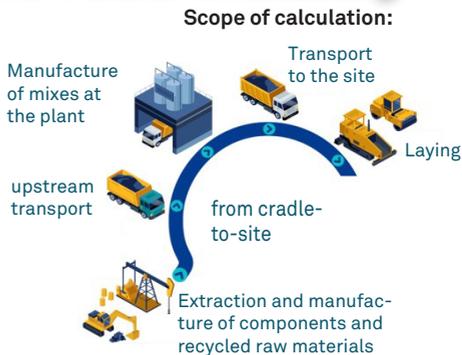
Why a version 2 ?

Integration of the new bitumen life cycle assessment (LCA Eurobitume, March 2025):

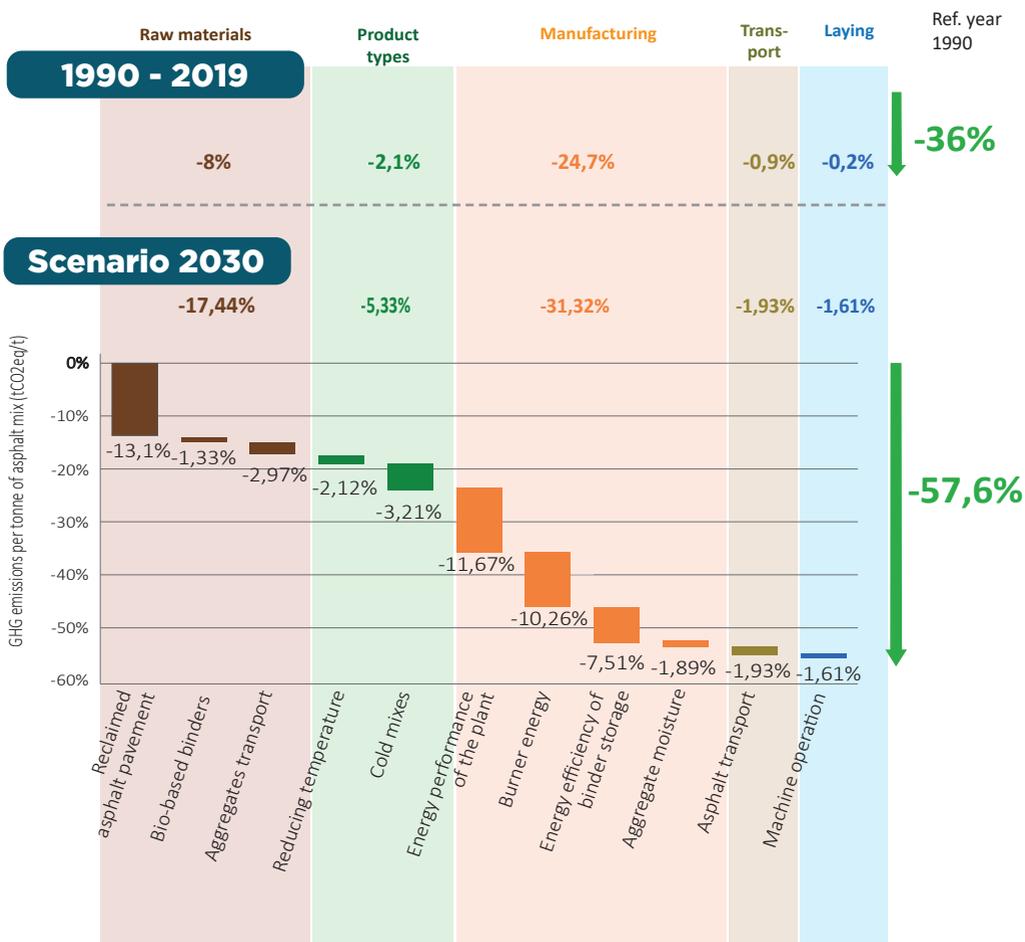
- Bitumen carbon footprint increased from 216 kg CO₂eq (LCA 2022) to 530 kg CO₂eq (LCA 2025)
- Database change: improved assessment of methane emissions from crude oil (direct emissions, leaks, flaring)
- Crude oil mix evolution: supply data from 17 refineries in Europe – average over 3 years (2021 – 2023)
- Refinery: change of allocation methodology

Roadmap for the road industry

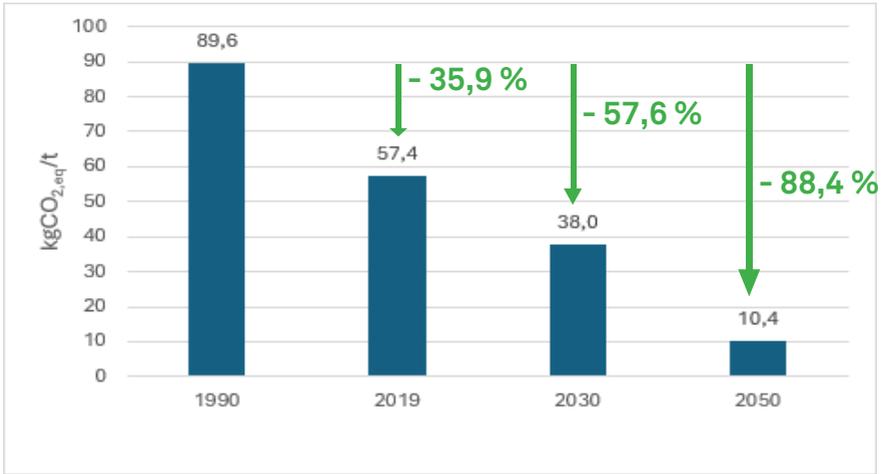
- Commit the industry in a global approach and encourage companies to adopt low-carbon techniques
- Support project owners in their decarbonisation process



Decarbonization levers



Scénario 2050



Main assumptions:

■ Raw materials

- Average use of Reclaimed Asphalt Pavement: 50%
- Zero emission for 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