

Internal and external challenges for the decarbonisation of EU road transport sector and a stronger European rail network

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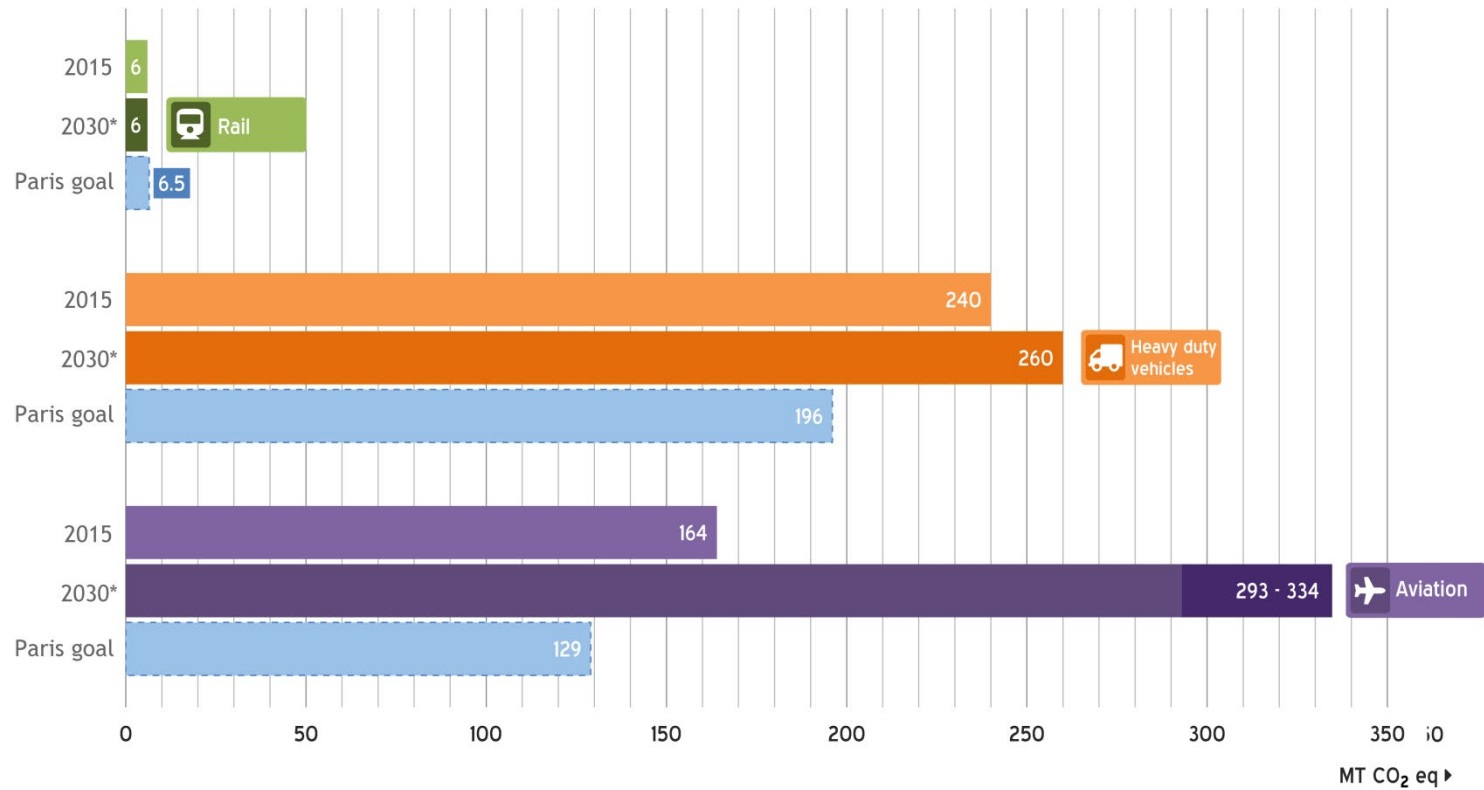
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European Union

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Rail is the only mode of transport in line with the Paris climate goals

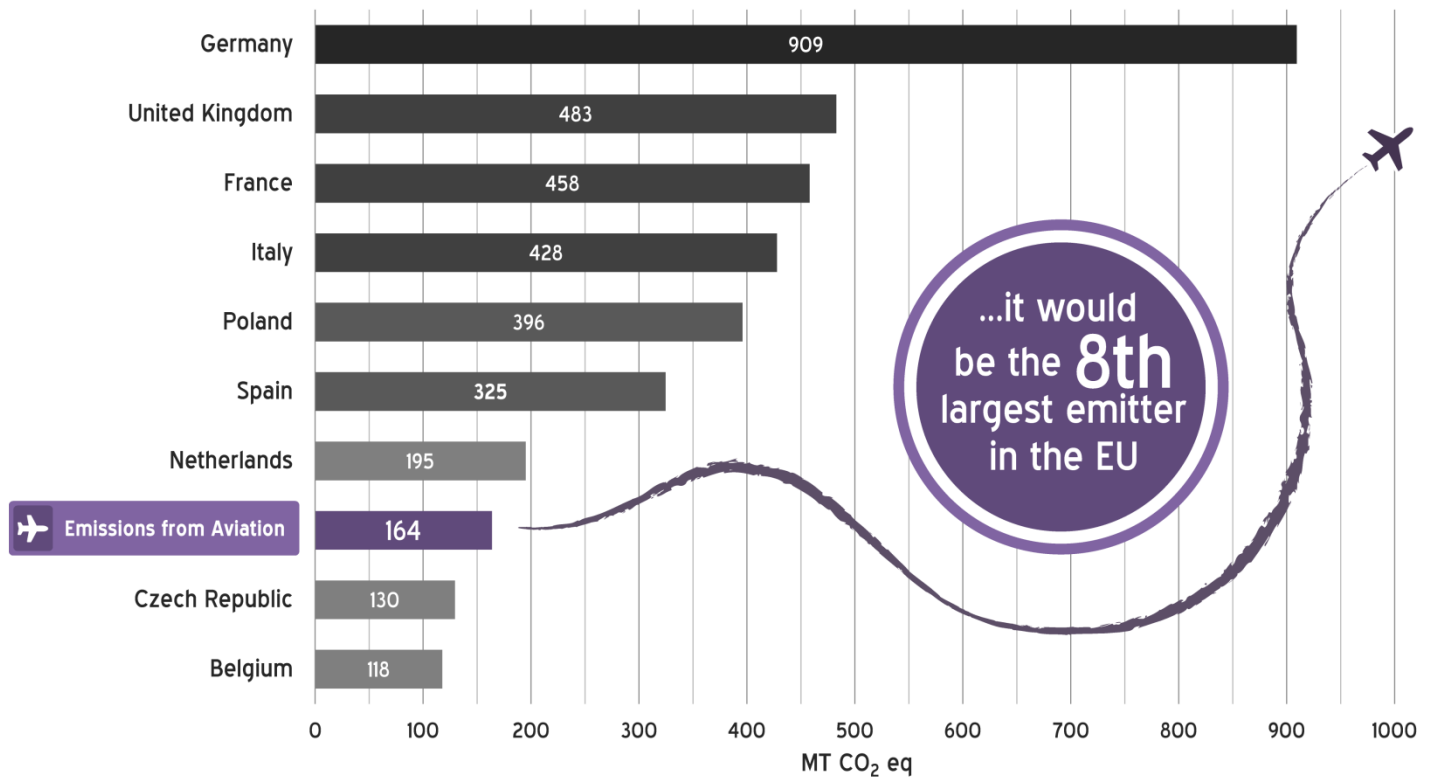
CO₂ equivalent transport sector greenhouse gas emissions in the EU

Source: Eurostat, Alonso et al. 2014, ICCT, own calculations | * Projected



If European air travel was a county... CO₂ equivalent greenhouse gas emissions in 2016

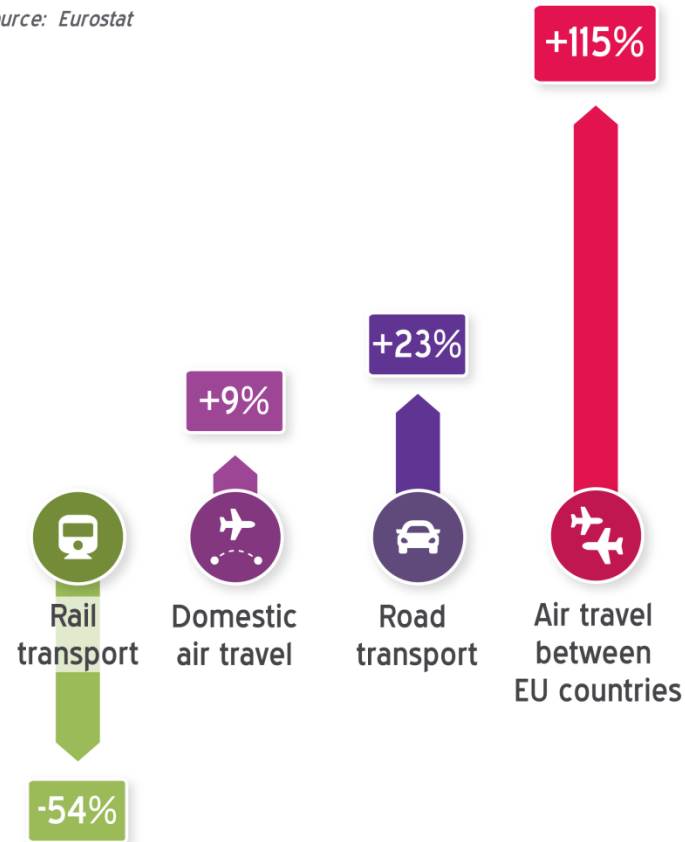
Source: Eurostat



Rail is the most climate friendly mode of transportation

Changes in emissions between 1990-2016

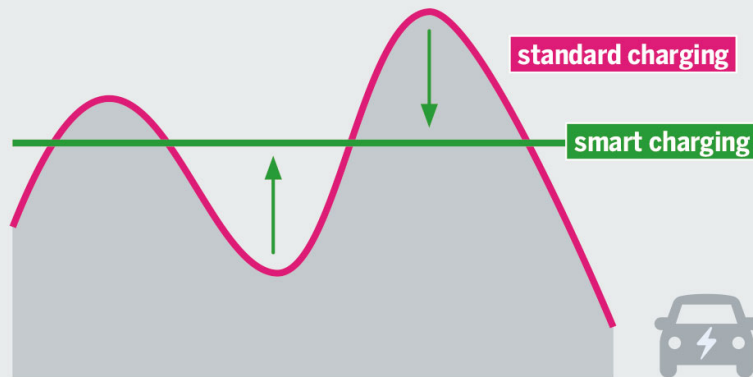
Source: Eurostat



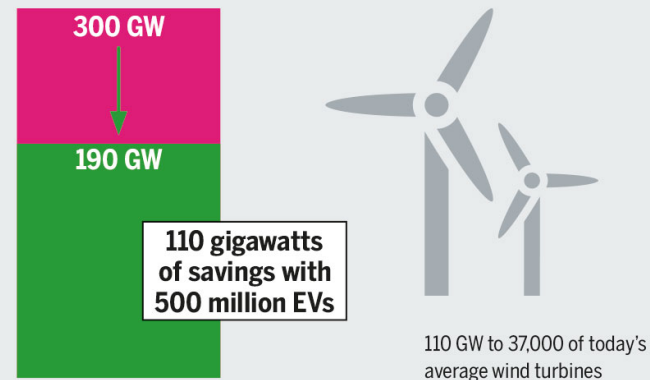
THE CASE OF SMART CHARGING

Peak load avoidance versus standard charging of electric vehicles (EVs), worldwide projection for 2040

EV fleet consumption profile during working days



capacity reduction through smart charging



Charge control becomes all the more effective, the better electricity grids and transport networks **converge**.



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Thank you for your attention!