

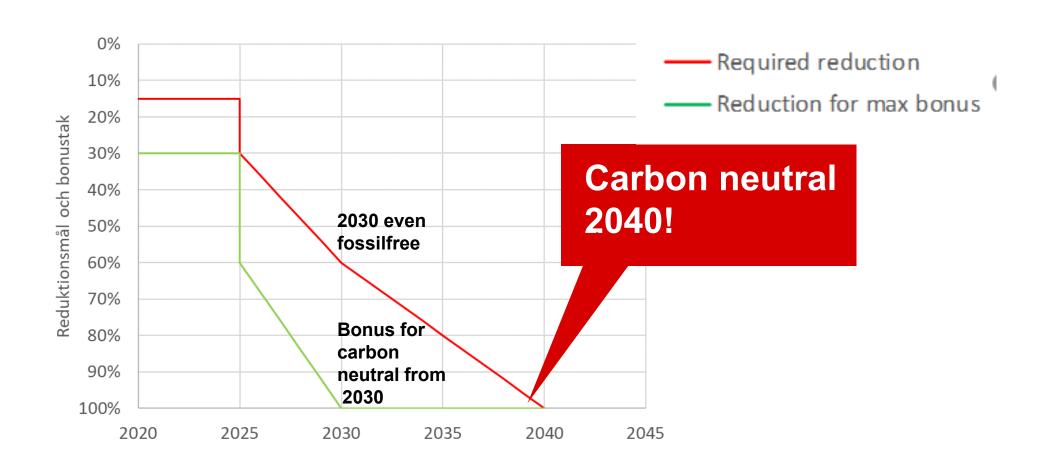
# Creating demand through public procurement, examples from Trafikverket

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Swedish Transport Administration (Trafikverket)



#### Sharper goals since April 2022

### - A climate neutral transport infrastructure 2040





#### From goals to action – climate requirements in procurements

- For larger projects, a decrease of greenhouse-gas emissions, compared to a baseline, is required (contract clause rather than evaluation criteria).
- Climate requirements on specific materials and on fuels, and requirements on the products purchased by Trafikverket as technically approved material

Climate calculations

Final climate declaration

Final climate declaration

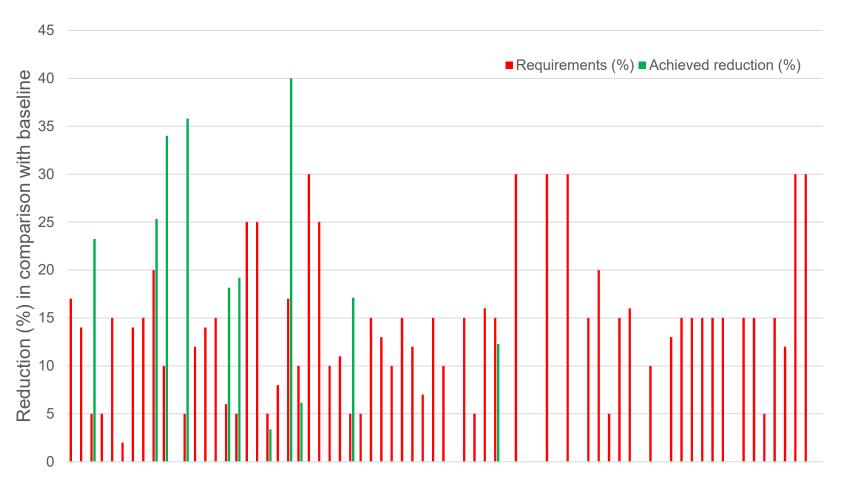
Final climate declaration

Design

Construction



#### Requirements and results for investments ≥ 50 MSEK



Achieved 23 % reduction in average

Requirements 18% reduction in average

Obs. The figure is incomlete, follow up is in progress



#### Qualitative evaluations with involved stakeholders

- The STA climate requirements are interpreted as a forceful signal of the importance of the climate issue to the industry
- Participation process and dialogue was found to be necessary for the requirements to be successfully implemented
- Anticipation that the requirements will further contribute to the contractors' future financial or competitive benefits



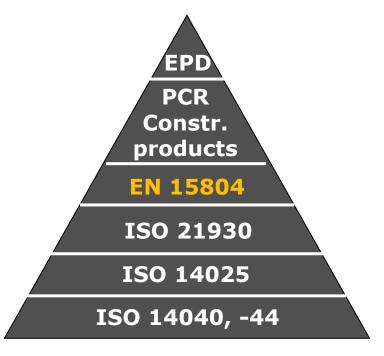
#### Climate requirements on technically approved material

- Material that is procured, tested and scrutinised by Trafikverket
- Mostly railway material, for example slipers, rail
- About 290 contracts, 230 suppliers
- Climate requirements are considered if volumes exceeds 25 tonnes per year
- EPDs are required and, if possilble, combined with limit values



# EPDs are required as verification documents for the climate performance of material

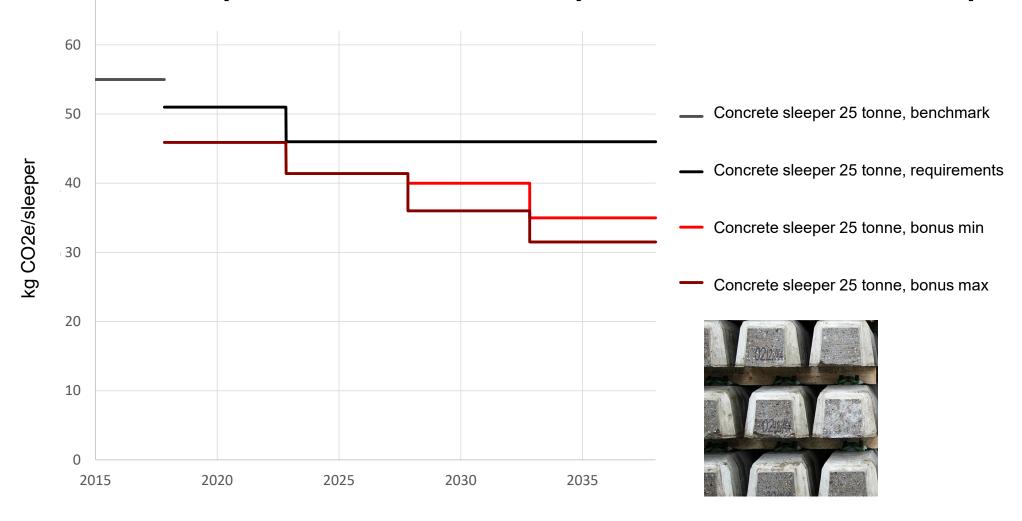
- EN 15804 is required the "rules for calculations"
- Fair, feasible and predictable LCA based climate requirements, mostly positive response from contractors and suppliers
- EPDs are received and interpreted centrally at the Transport
   Administration a service for the project leaders and important for
   updating default values



(Erlandsson 2011, IVL report B2019)

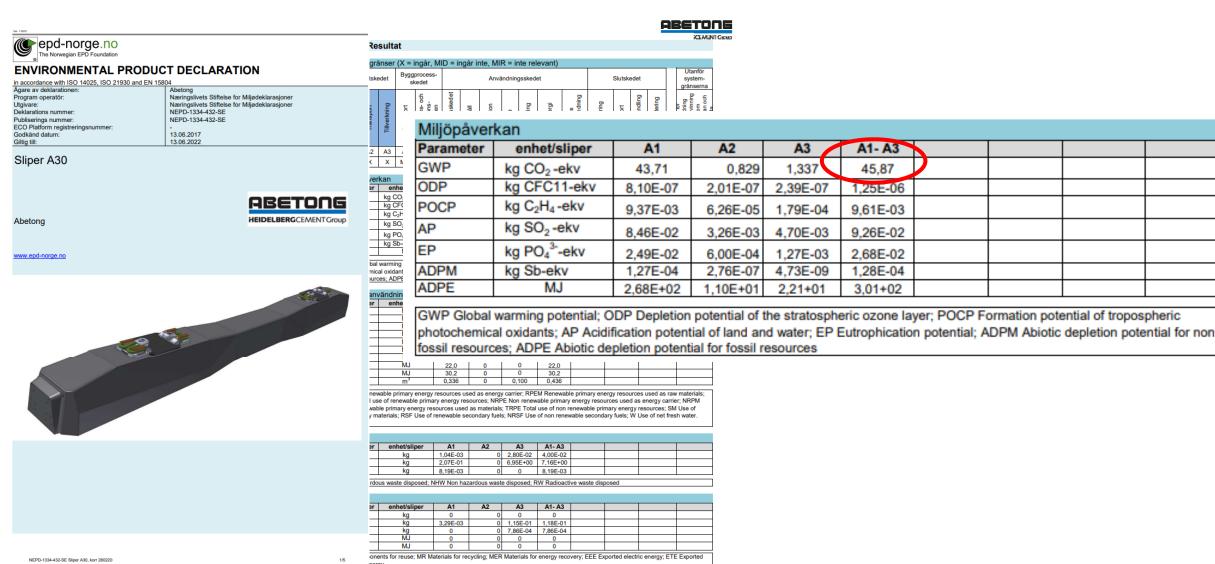


## Climate requirements example - concrete sleeper





#### **Example EPD: Slipers A30 from Abetong**



9,0 E-03 = 9,0\*10-3 = 0.009



# Challenges

- Improved follow up of the overall impact of using climate requirements
- Finding the right levels for each project/material, especially demanding in long contracts
- Upcoming question resource efficiency and circular economy
- Strategies for consideration of compensation measures and negative emissions
- Life cycle assessment method for climate calculations that considers existing policy instruments (such as ETS), impact on the whole transport system and alternative use of resources (i.e. consequential LCA)



#### Thank you for your attention!

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Further information (mainly in Swedish):

https://bransch.trafikverket.se/for-dig-i-branschen/miljo---for-dig-i-branschen/minskadklimatpaverkan/klimatkrav/

https://bransch.trafikverket.se/klimatkalkyl

