
Sustainable transport and sustainable energy entwined

Session IX assessing sustainable mobility

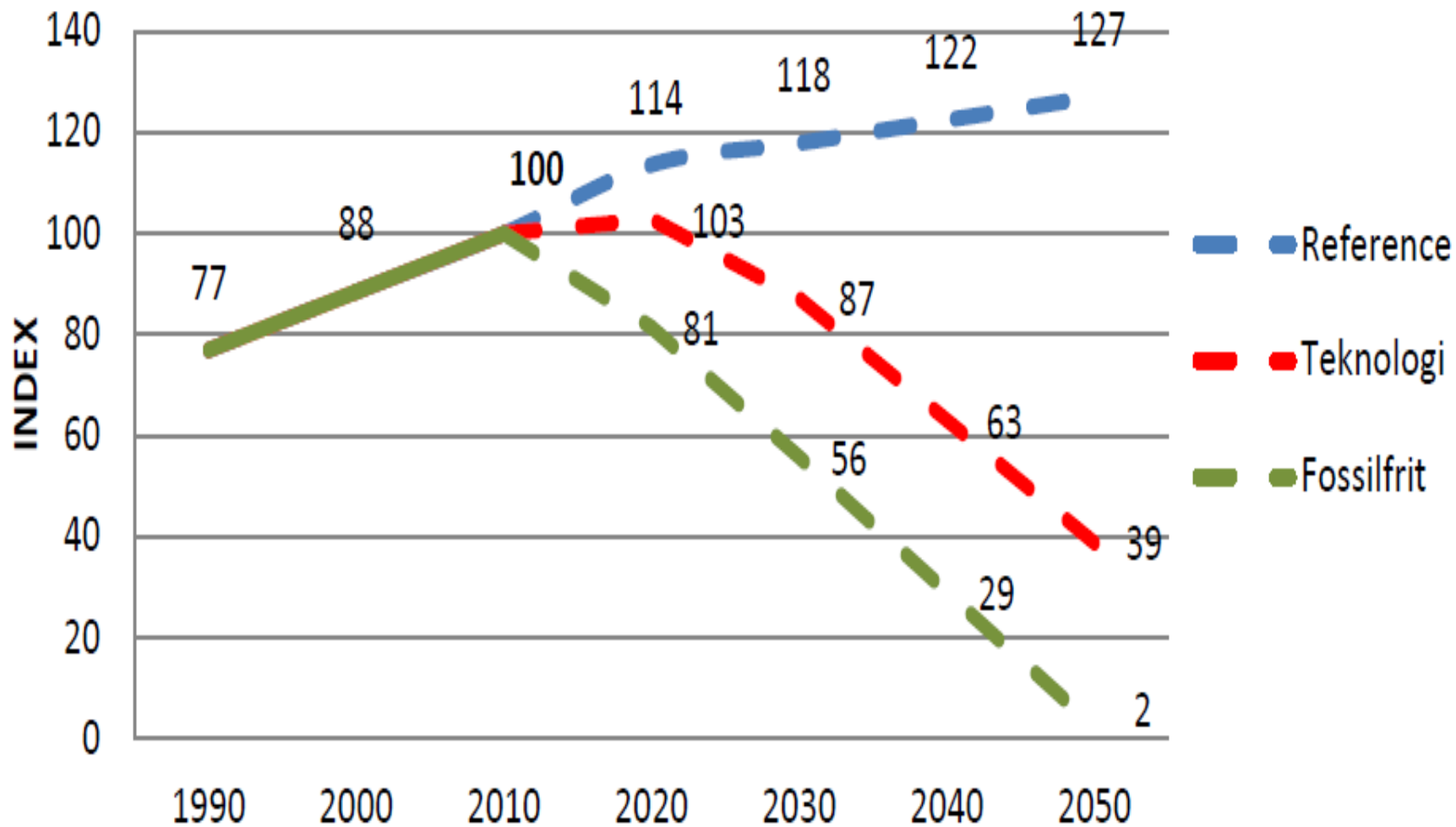
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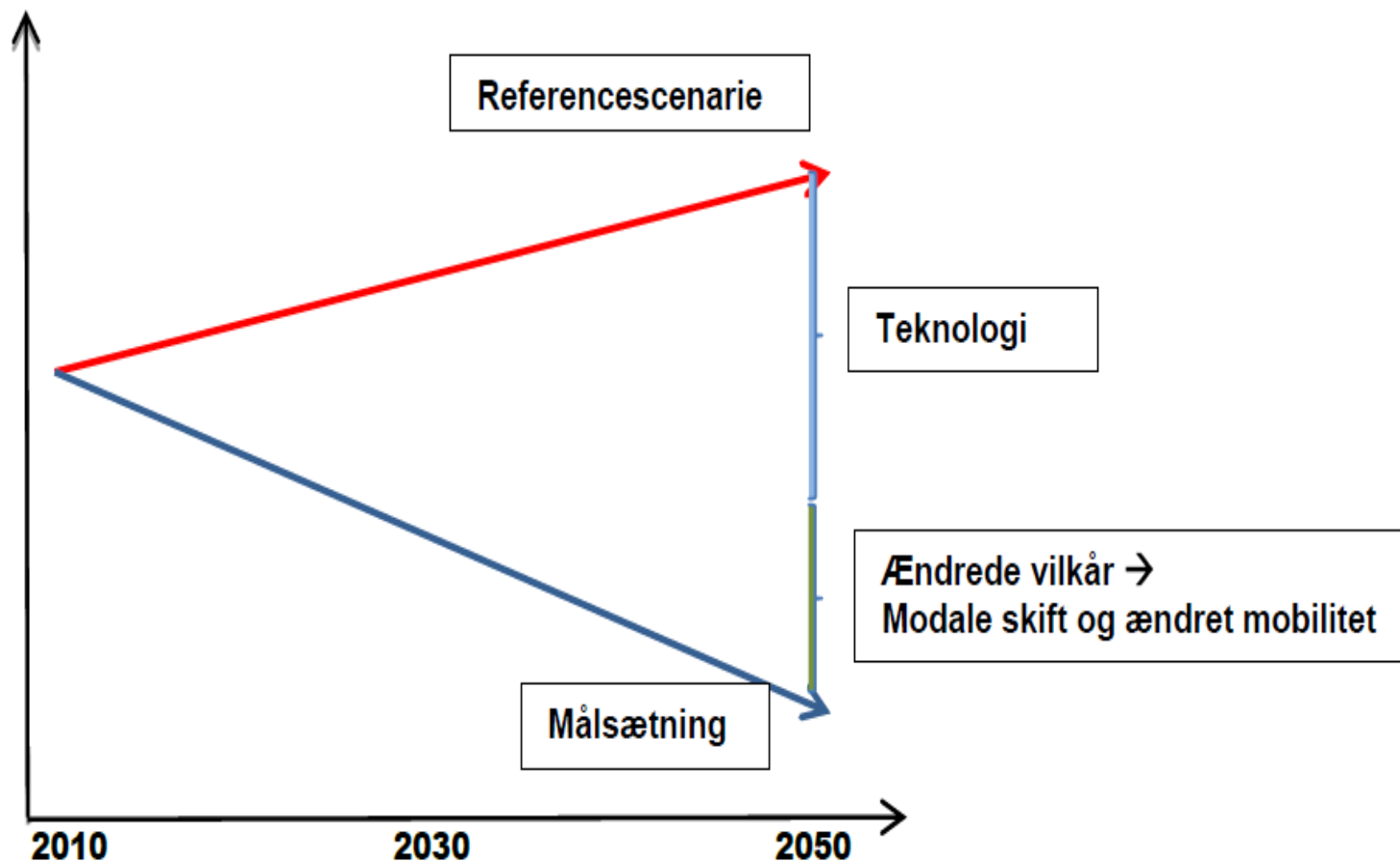
DK transport CO₂ 2010-50

TEKNOLOGI-RÅDET

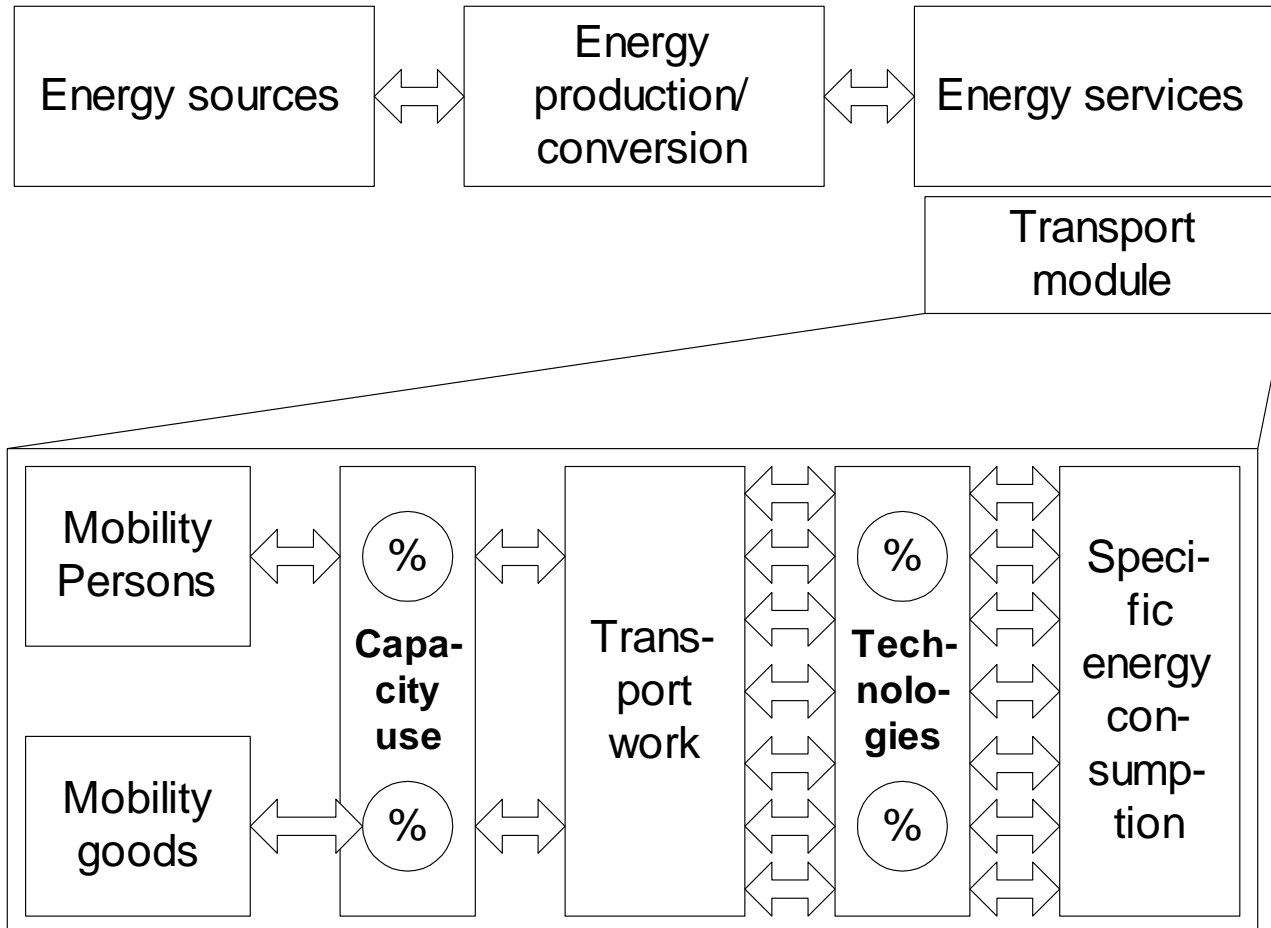


Methodology

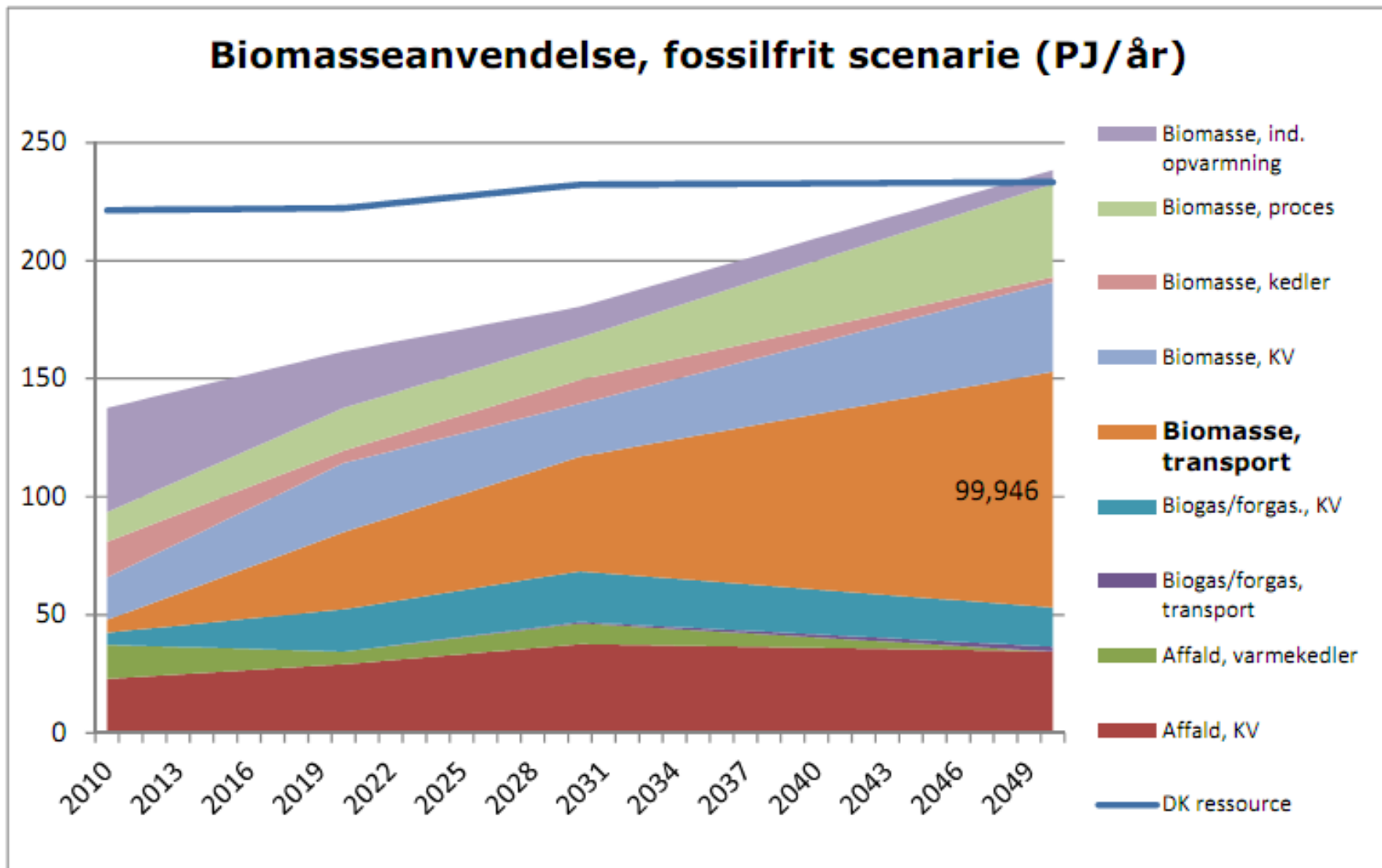
CO2 udslip



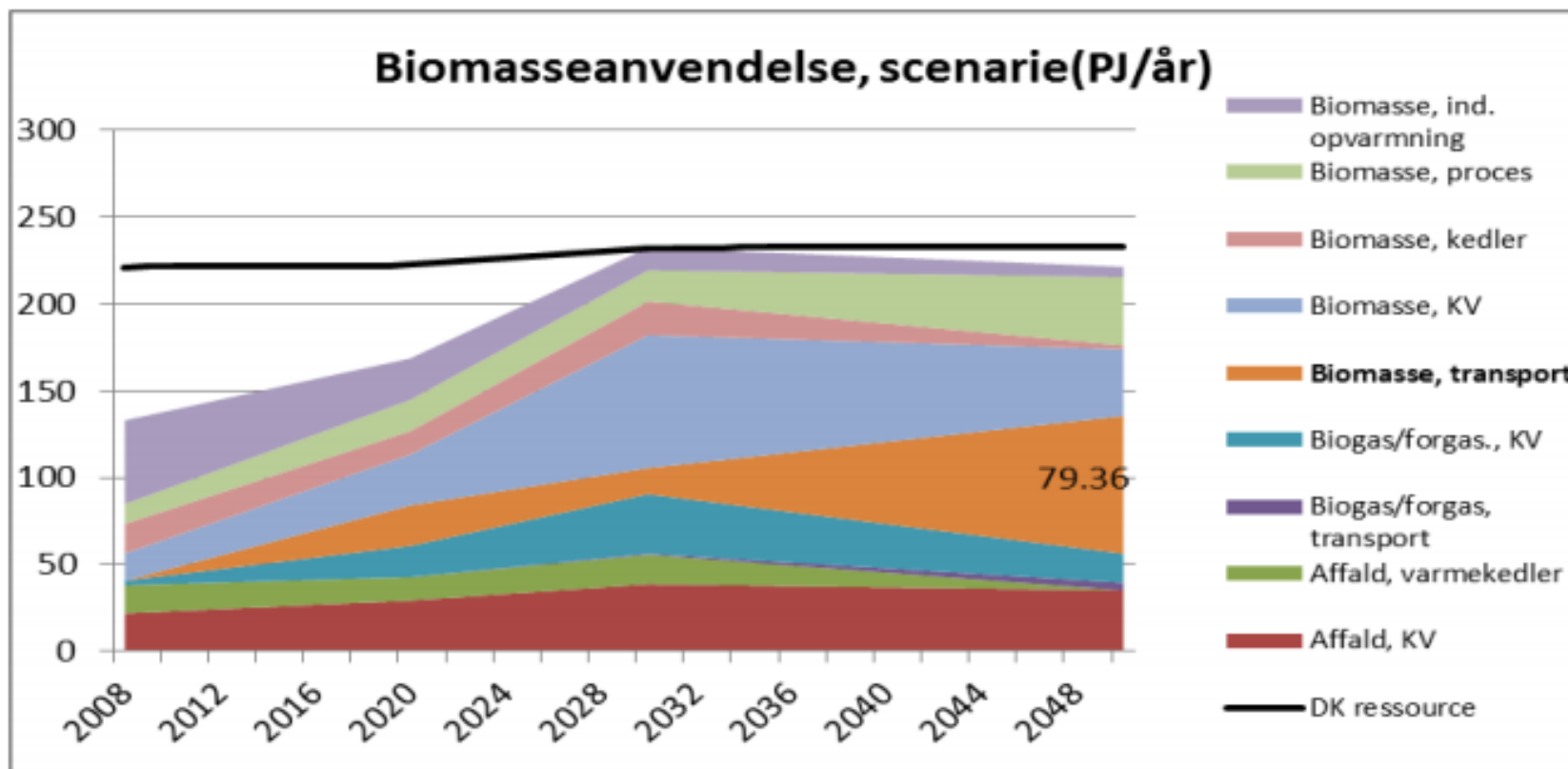
STREAM model



Biomass crucial



Biomass after energy plan



Nearly nothing left for the transformation period until 2030.
But more electric cars earlier.

Suggesting a new approach

- ◆ Many ways to fossil-free transport
 - The way we take now is not one of them!
- ◆ Planning transport AND energy system:
 - Tuning them to each other
- ◆ Maximising mobility under limitations

Prediction → Infrastructure → Growth → Energy demand



Available energy → Effectivity → Transport mix → Mobility

Lessons

- ◆ Transport scenarios are changed when connected to energy system scenarios.
- ◆ More coherent and comprehensive policy analysis can be made
- ◆ Many scenarios possible – message is the same:
 - A fossil-free transport system 2050 is possible
 - But transition needs to begin now
- ◆ For TA methodology: Combining model/scenario systems seems more important than detailing unconnected scenarios