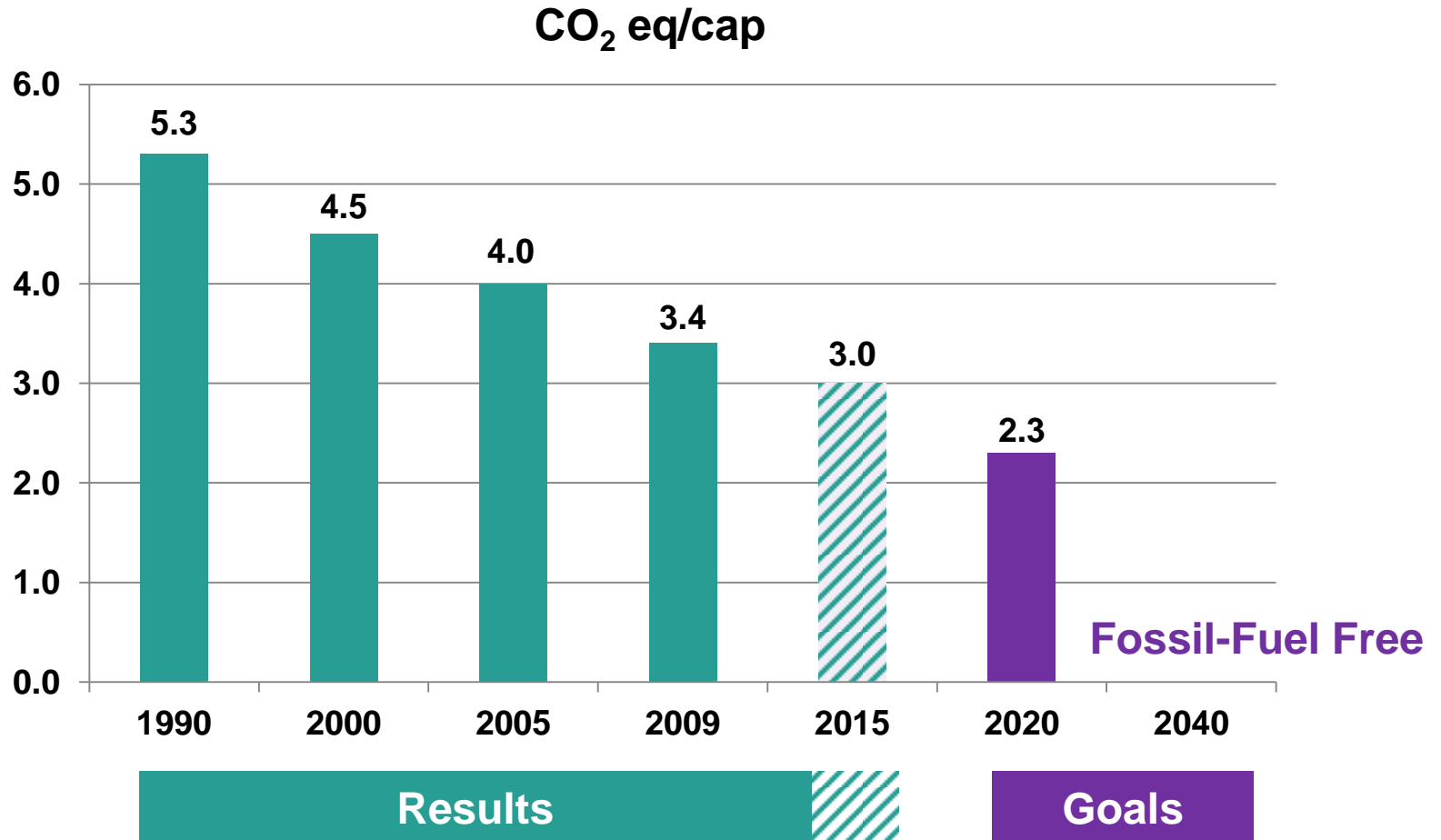


Stockholm 2040

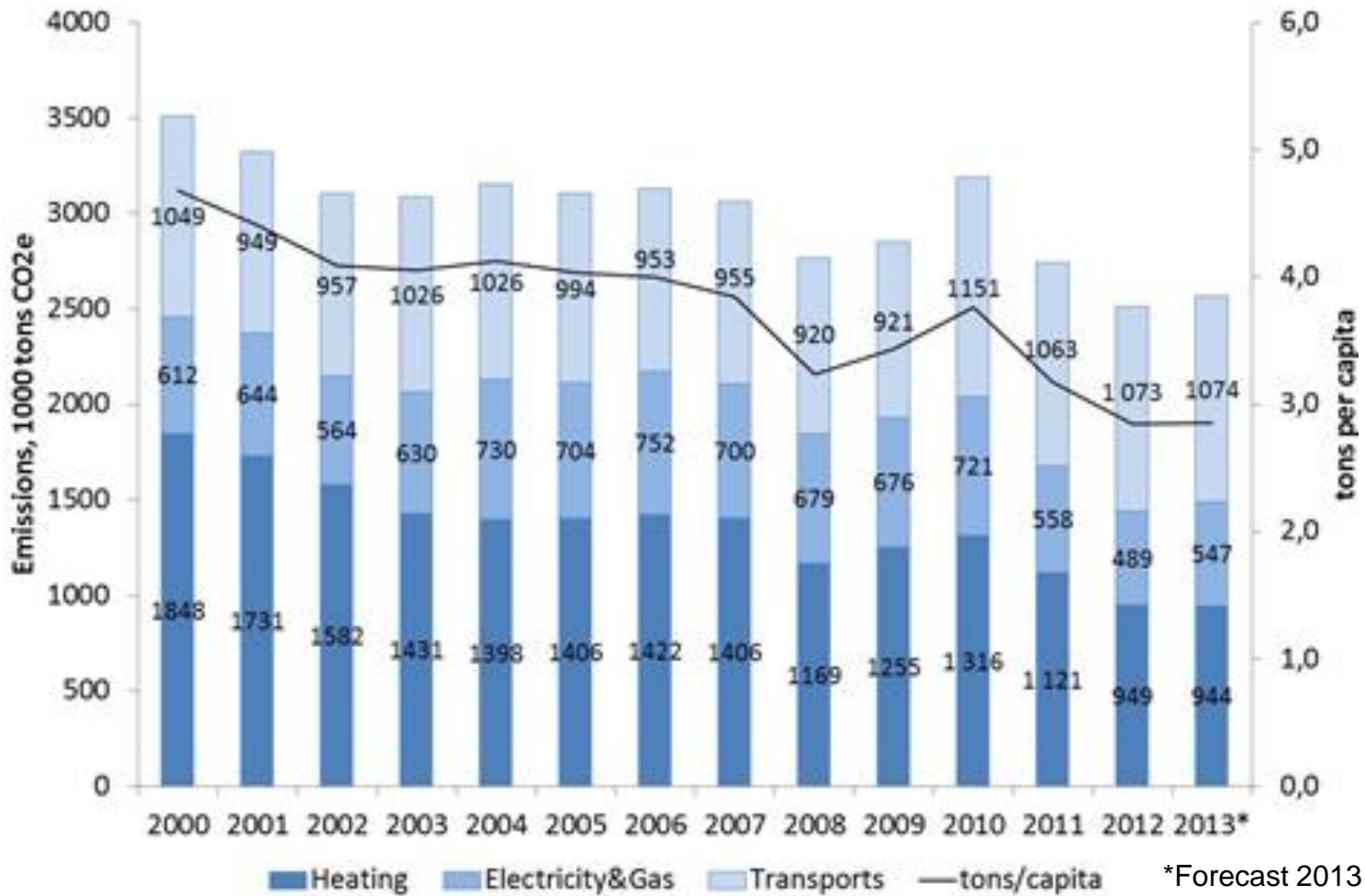
a fossil fuel free city



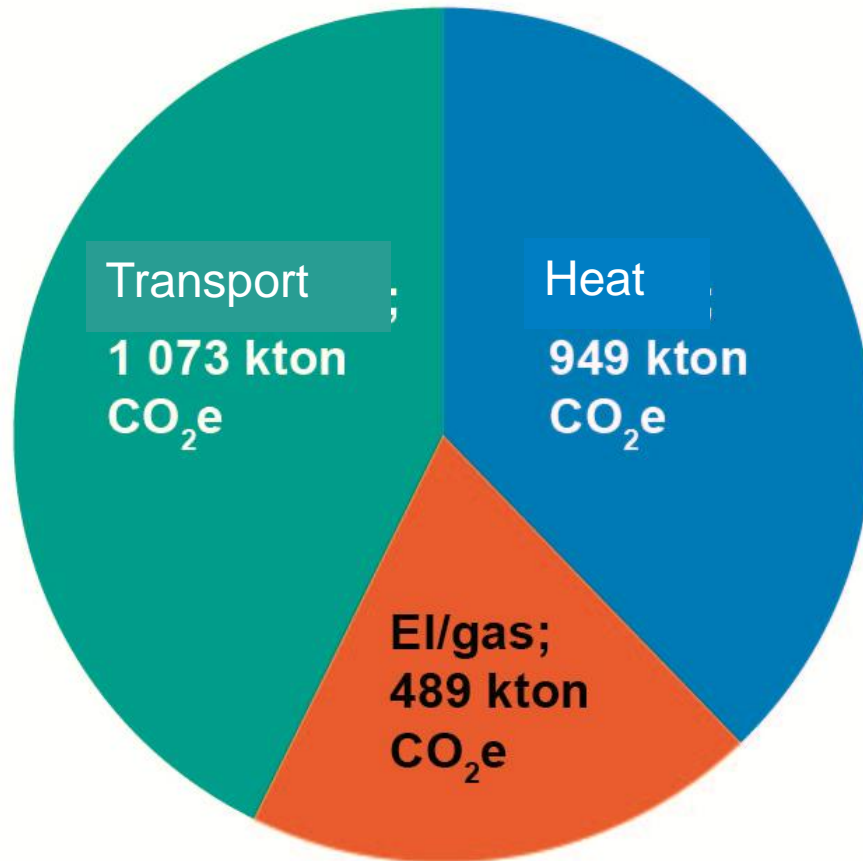
Goals and results



Annual emissions reductions



Emissions per sector 2012



Fossil fuel dependency:

Heat < 20%

Electricity: <20%

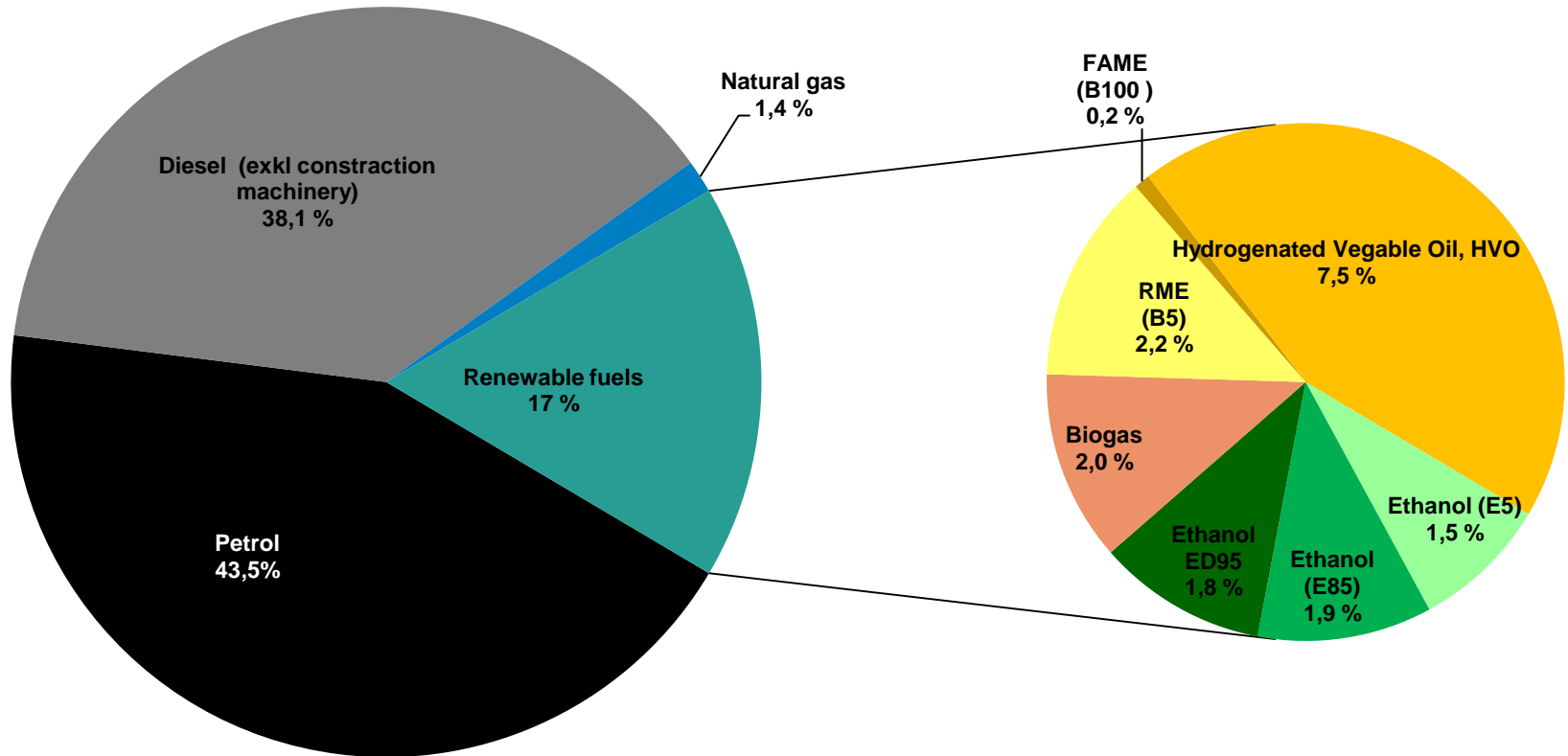
Transport: 89%

Reducing emissions from transport



The road transport sector

Fossil fuels still dominate (83%)



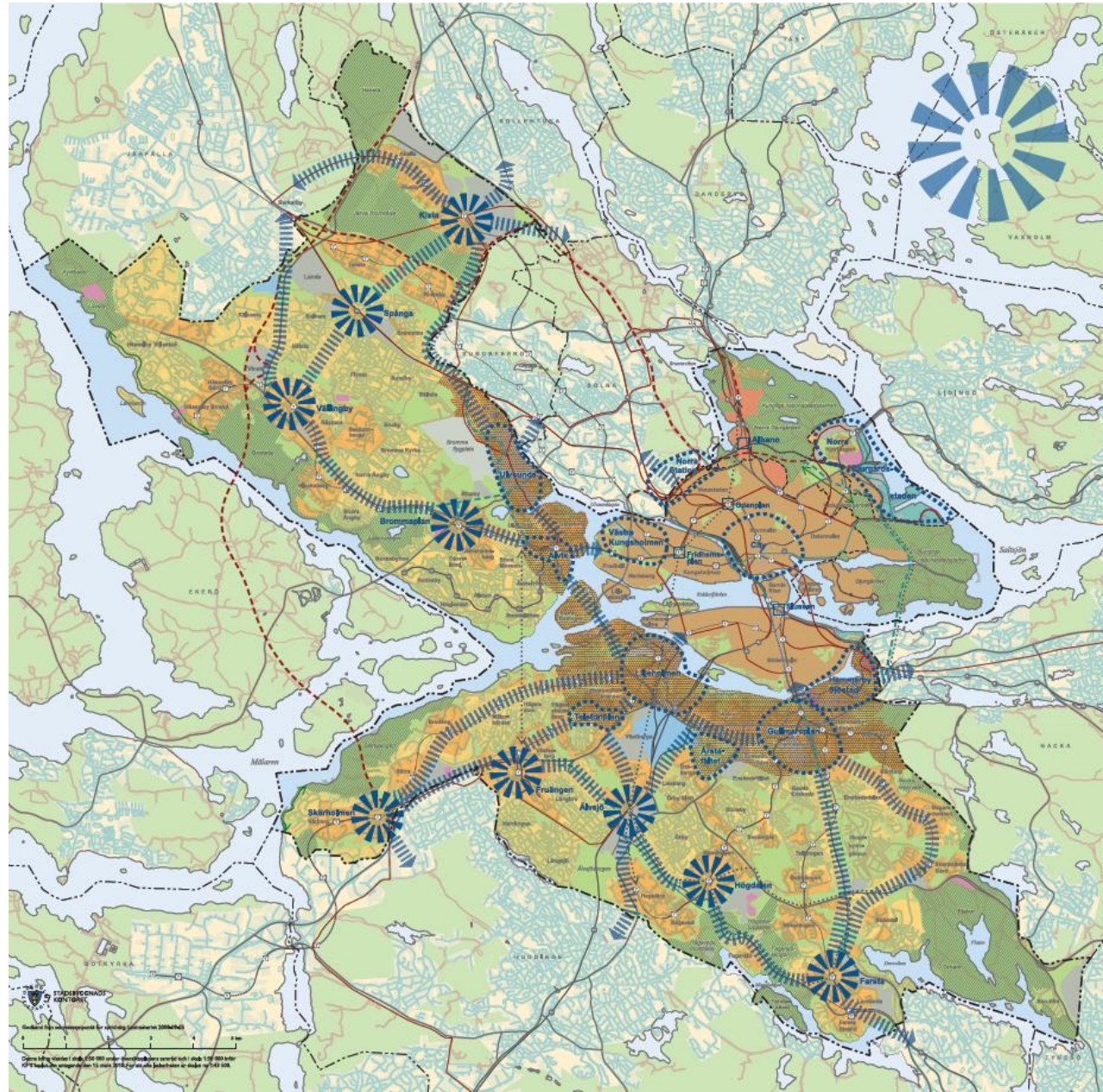
Fossil free transport sector

- Smarter ways of mobility
 - Walking
 - Cycling
 - Public transport
 - Better Good logistics
- More efficient vehicles
- Renewable fuels incl. electricity

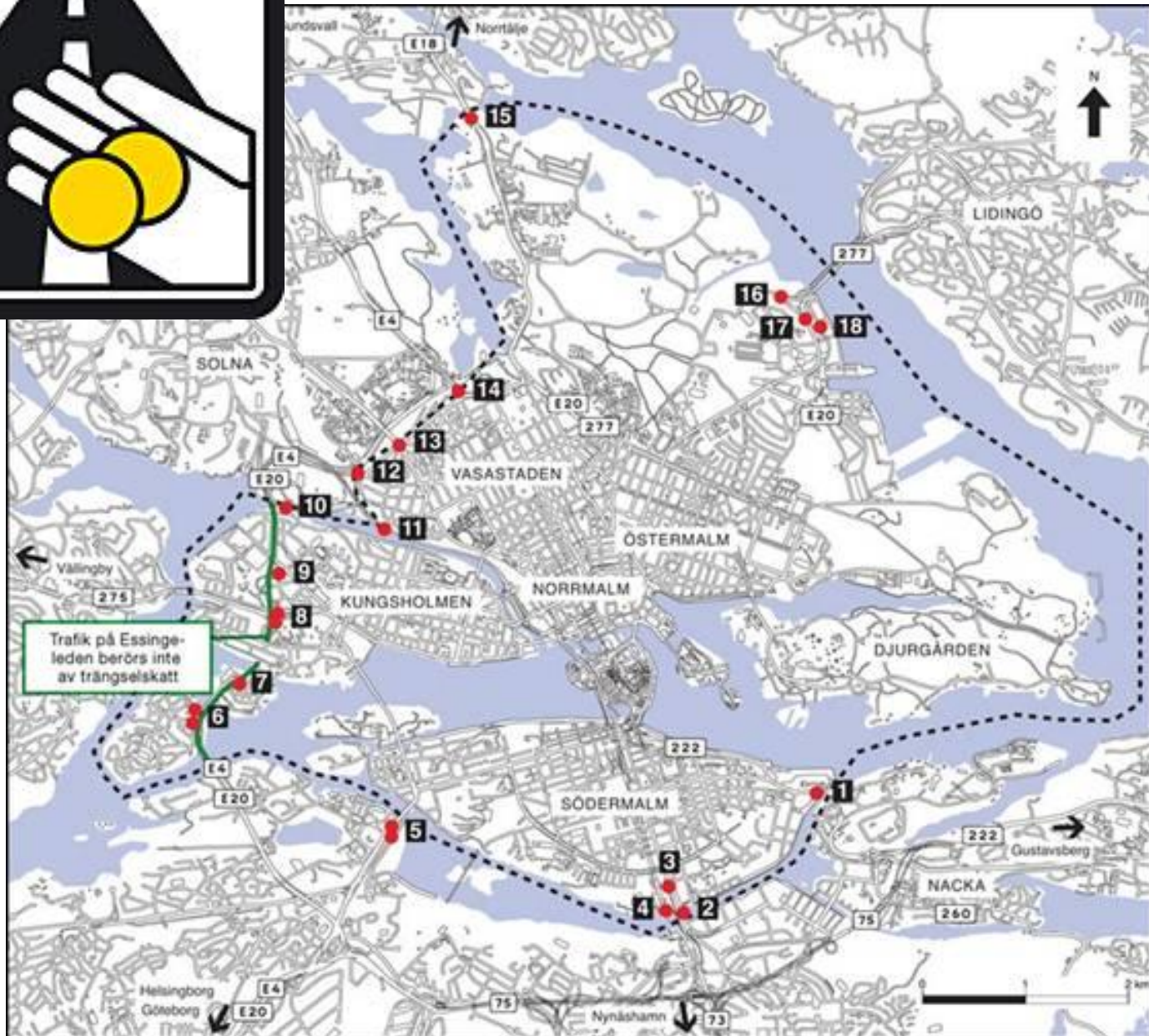


The Structure Plan - *the walkable city* -

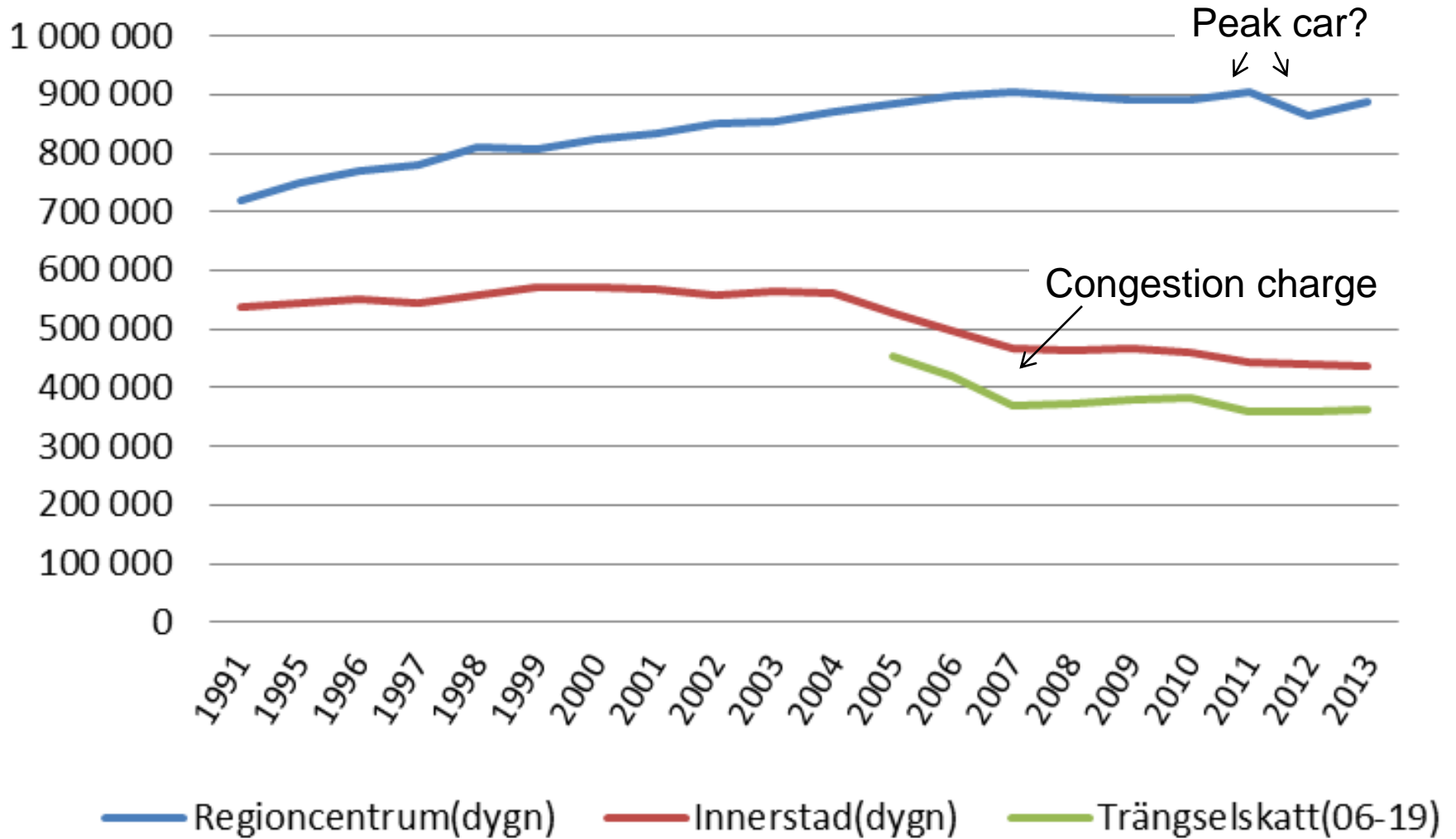
- Build along existing infrastructure and new PT
- Increase densities supports PT
- Mixed use development for cycling and walking
- 140.000 new dwellings to 2030



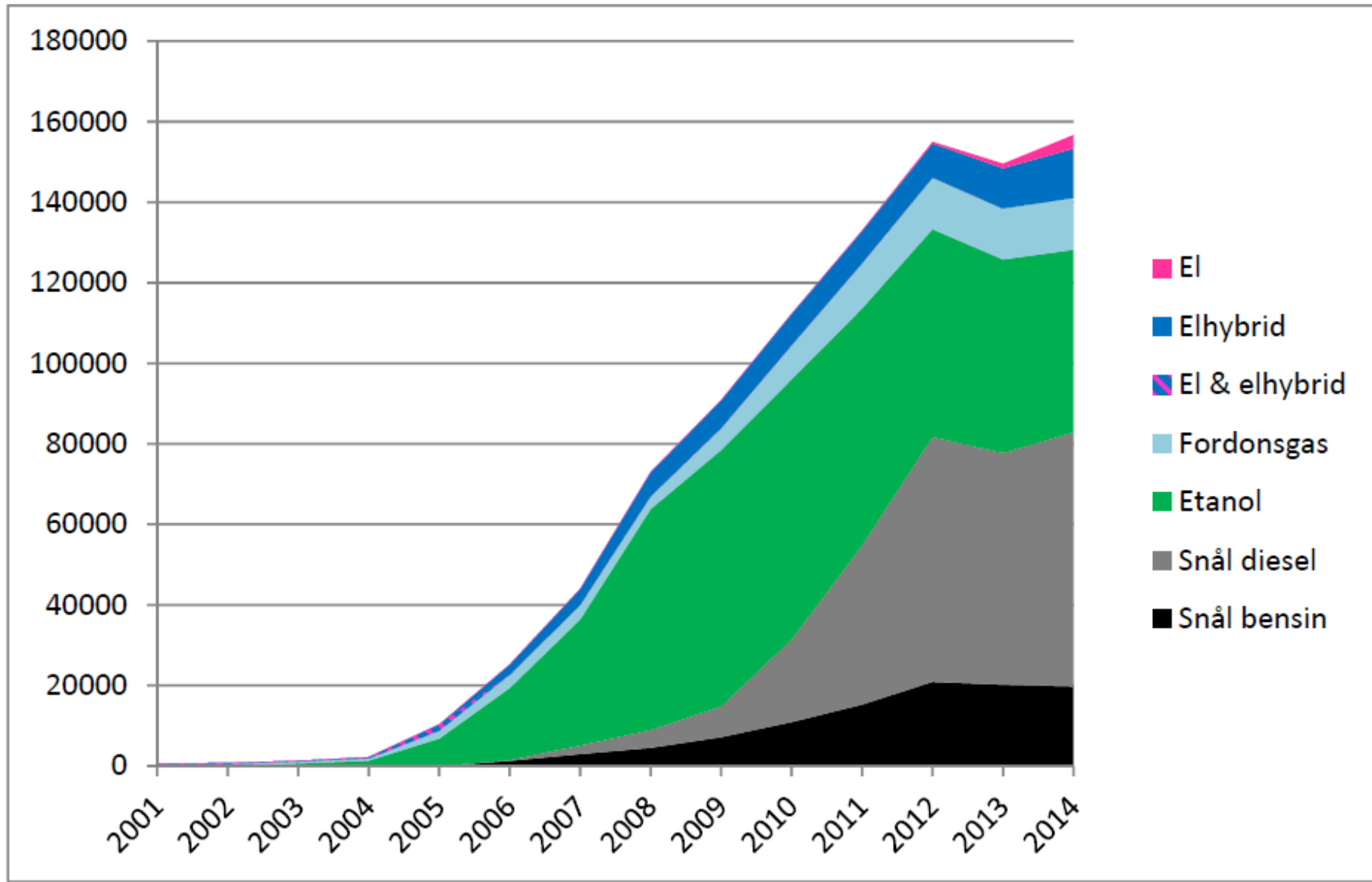
Congestion-charging zone



Reducing car traffic



20 % clean cars 18 % renewable fuels



Busses

63 % renewable fuel (2014)

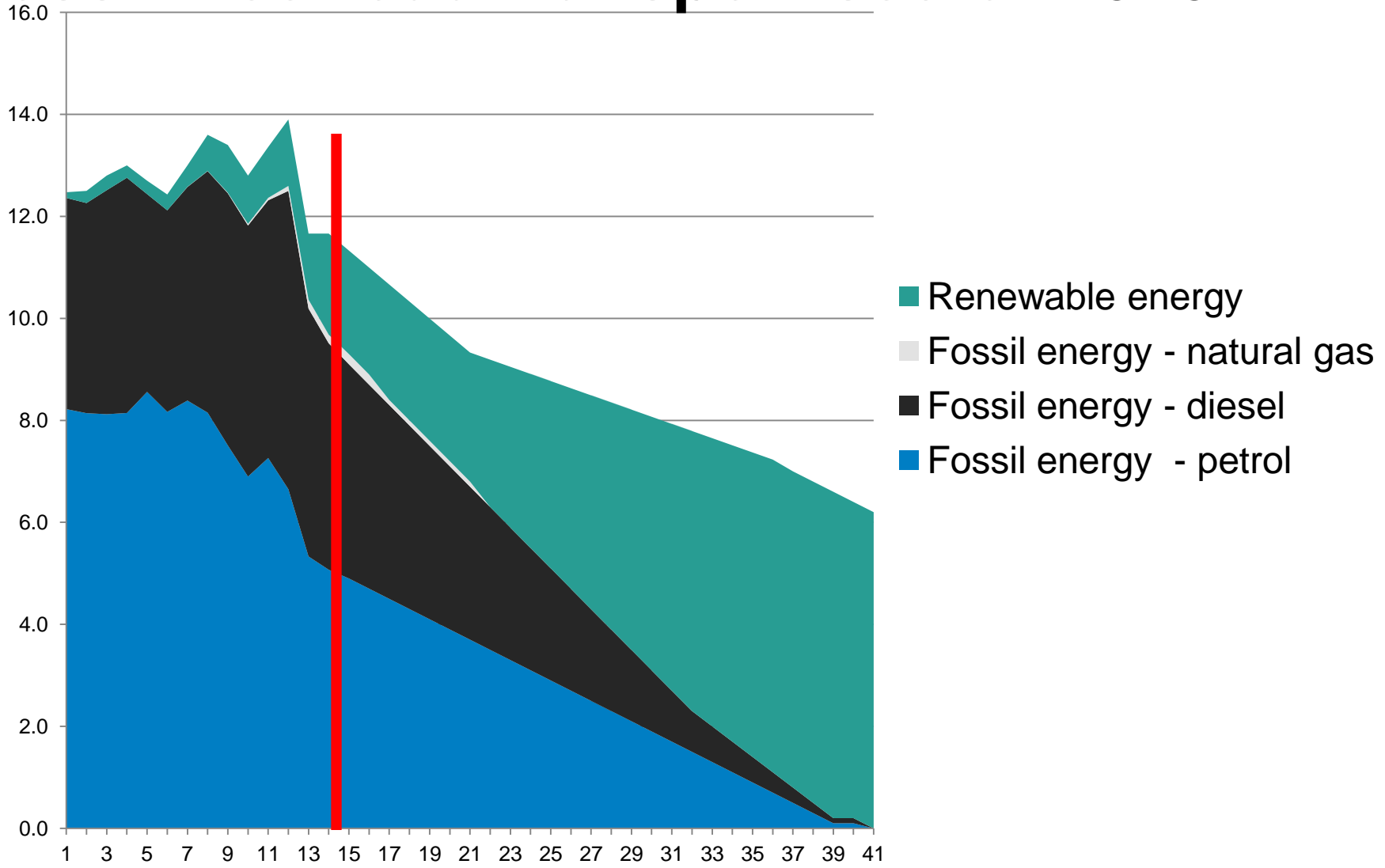


Trucks

3 % renewable fuels



Fossil free road transport sector 2040



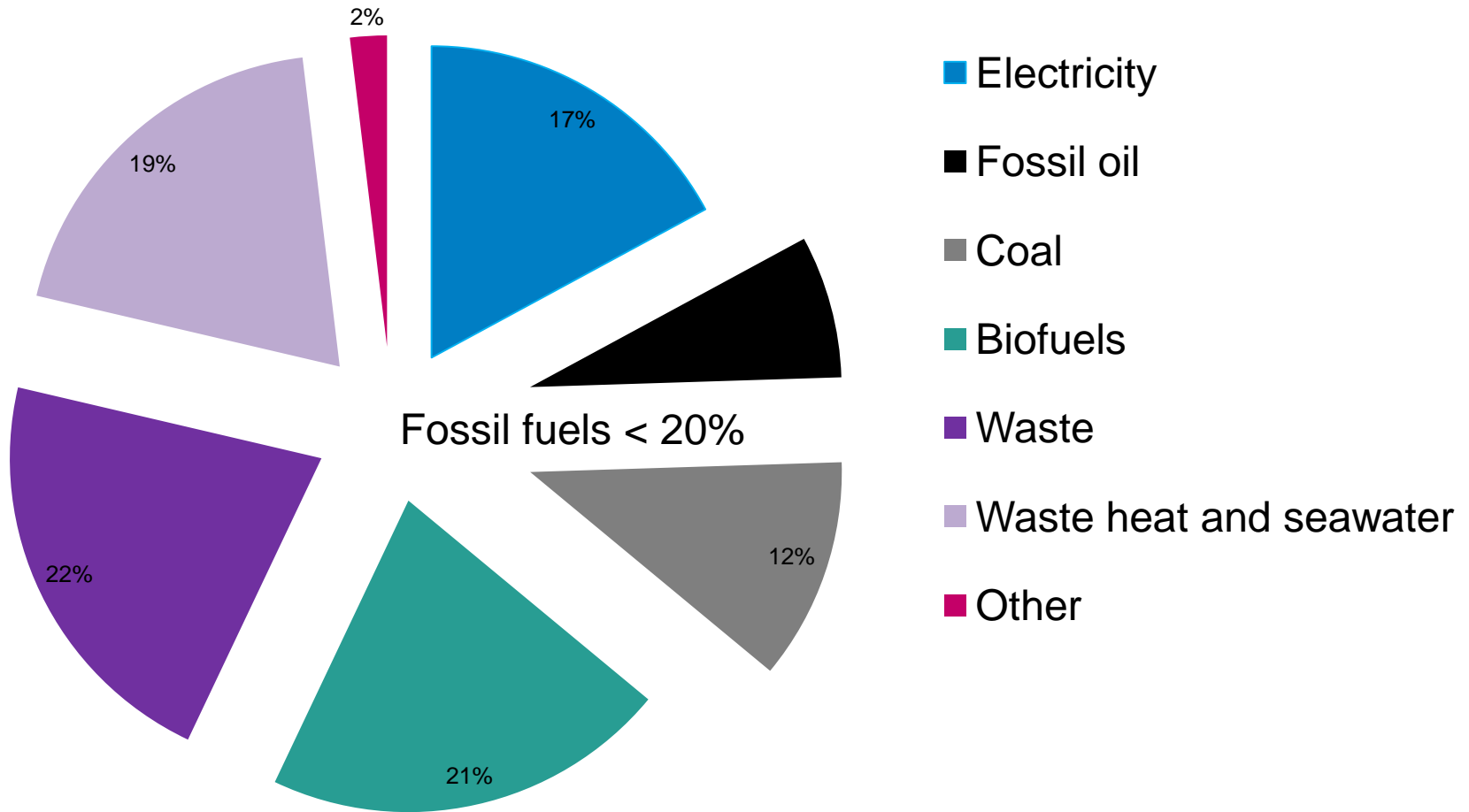
Energy for heating, hot water and cooling in buildings



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Buildings

heating, hot water cooling and building electricity



Combined heat and power

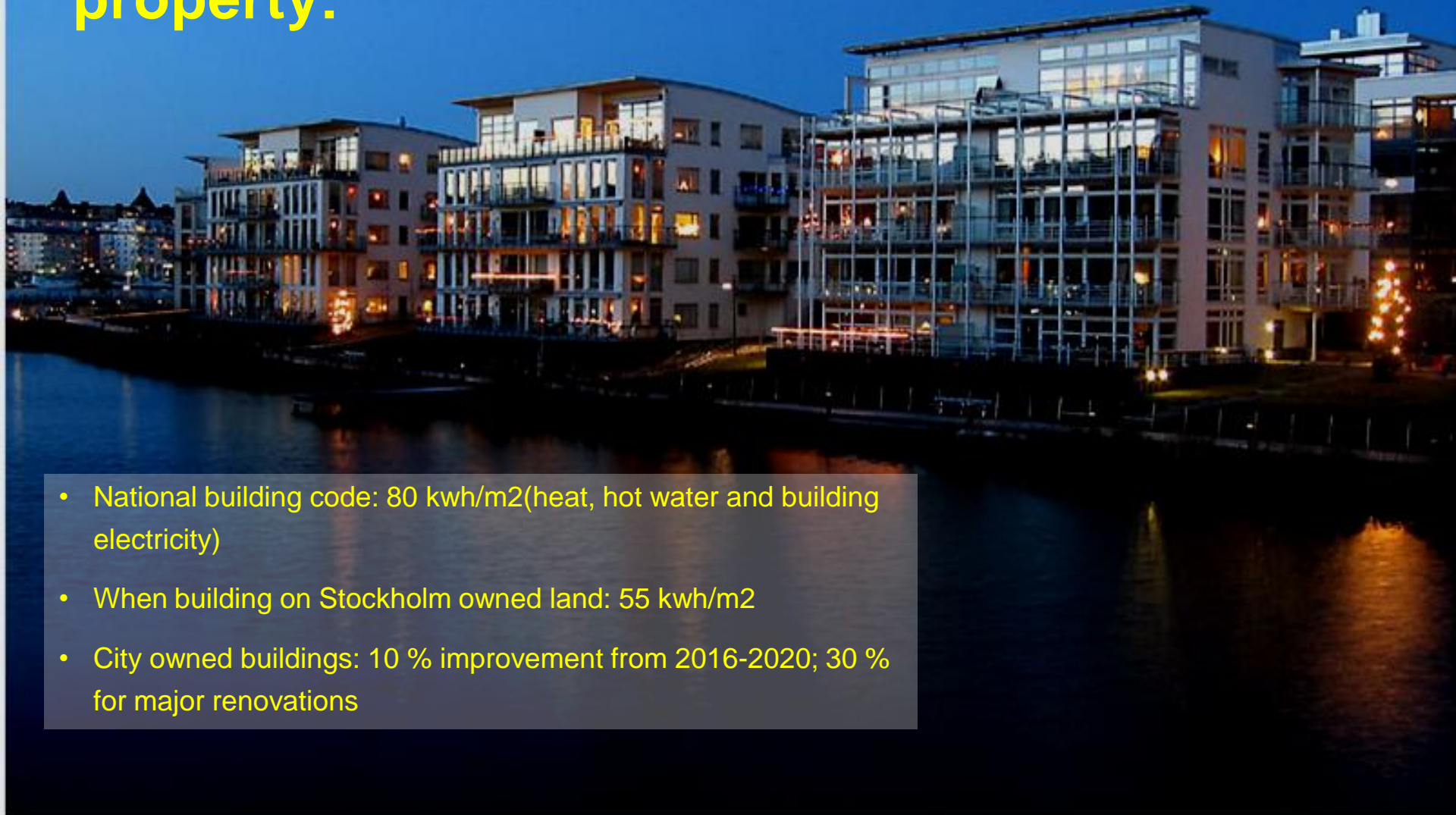
- 80 of all building space connected
- <20 % fossil fuel
- District cooling



Energy efficiency in buildings

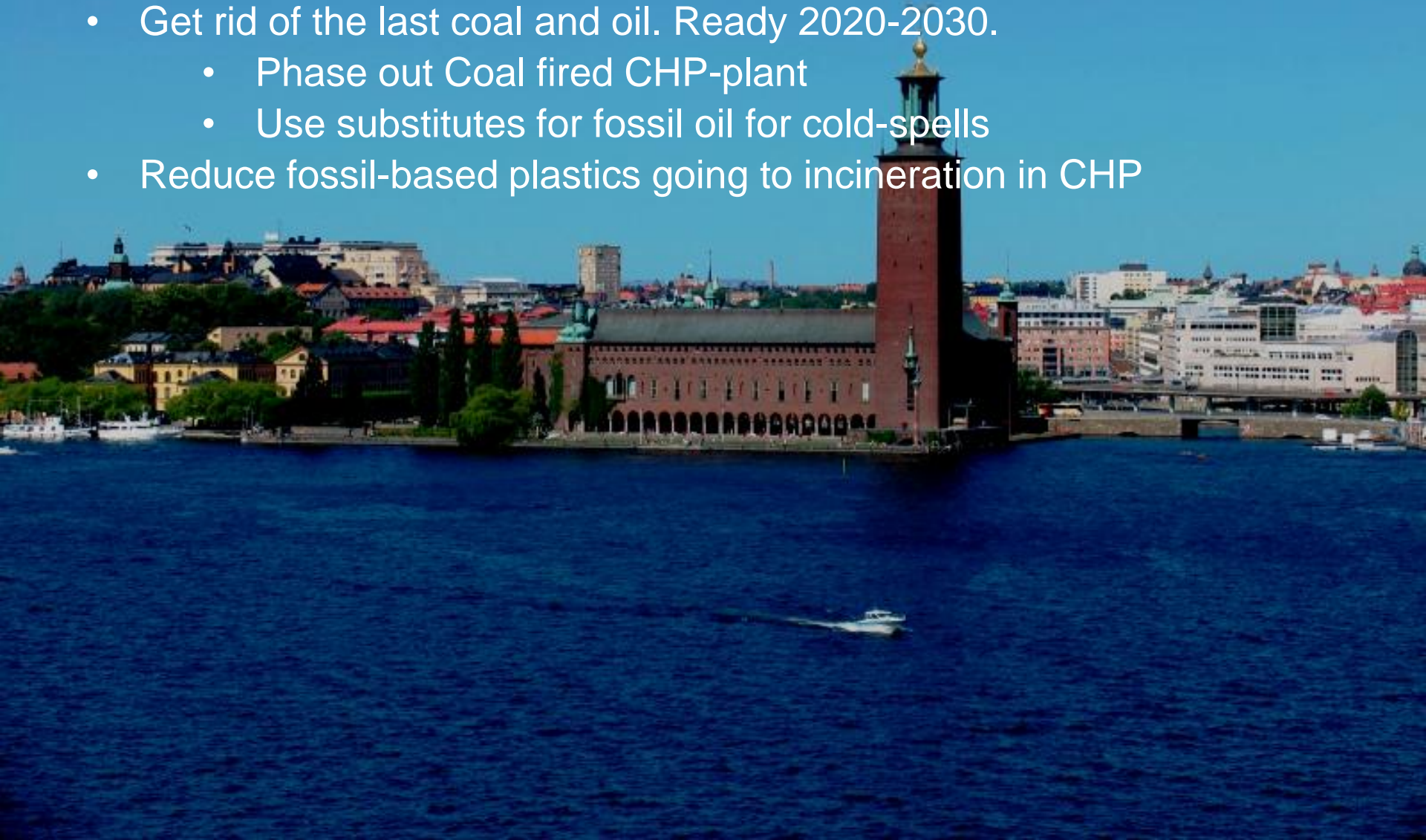
Building on city owned property:

- National building code: 80 kwh/m²(heat, hot water and building electricity)
- When building on Stockholm owned land: 55 kwh/m²
- City owned buildings: 10 % improvement from 2016-2020; 30 % for major renovations

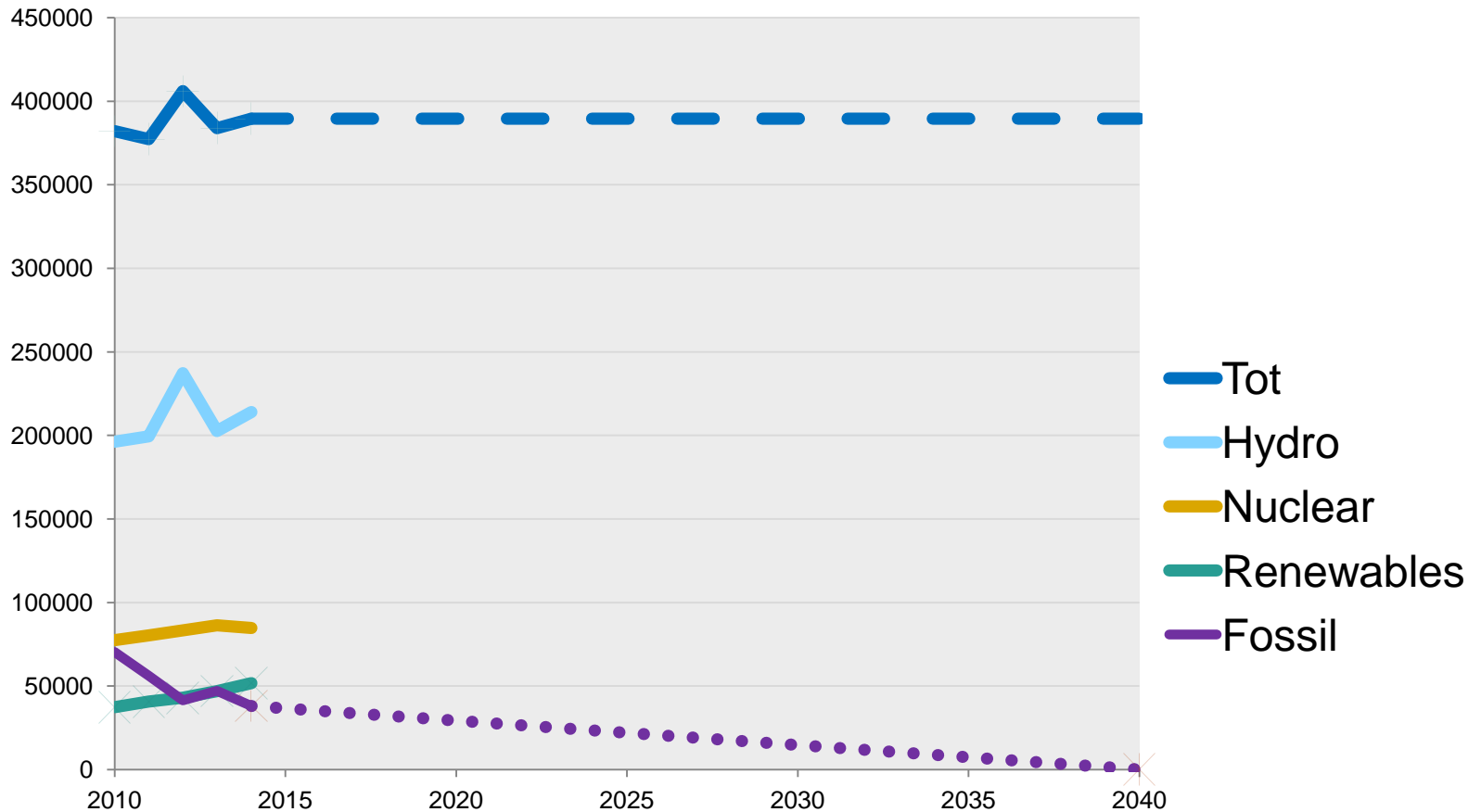


Fossil free heating and cooling of buildings

- Get rid of the last coal and oil. Ready 2020-2030.
 - Phase out Coal fired CHP-plant
 - Use substitutes for fossil oil for cold-spells
- Reduce fossil-based plastics going to incineration in CHP



Fossil free electricity (Nordic mix)



Roadmap 2040

- Forecast for fossil energy use
- Measures to change to renewable fuels
- Process from now to 2040 and how successive decisions need to be taken.
- Propose decisions to the City Council



Questions?



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