



Danish responses to energy crisis



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Danish strategy for recovering from the 1970s oil crisis

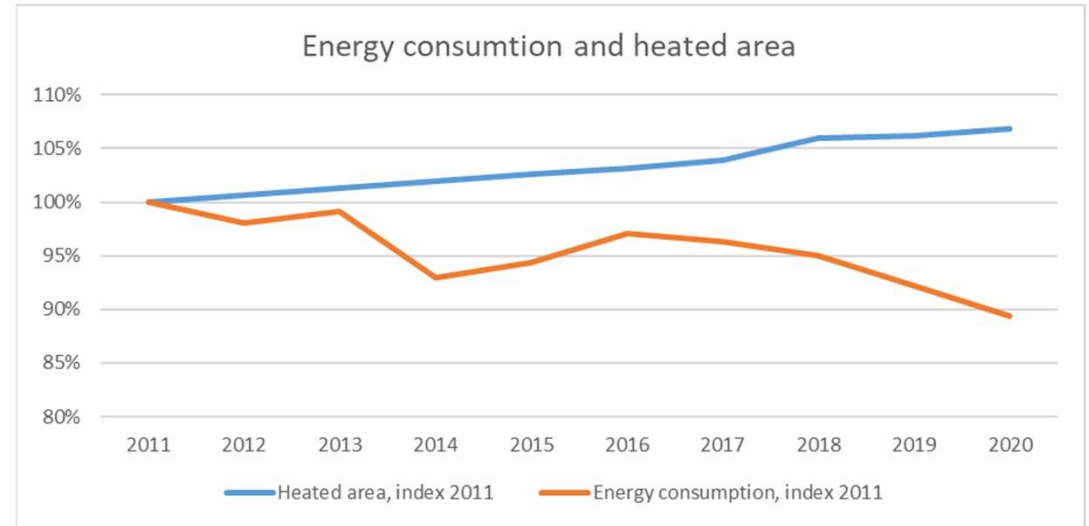
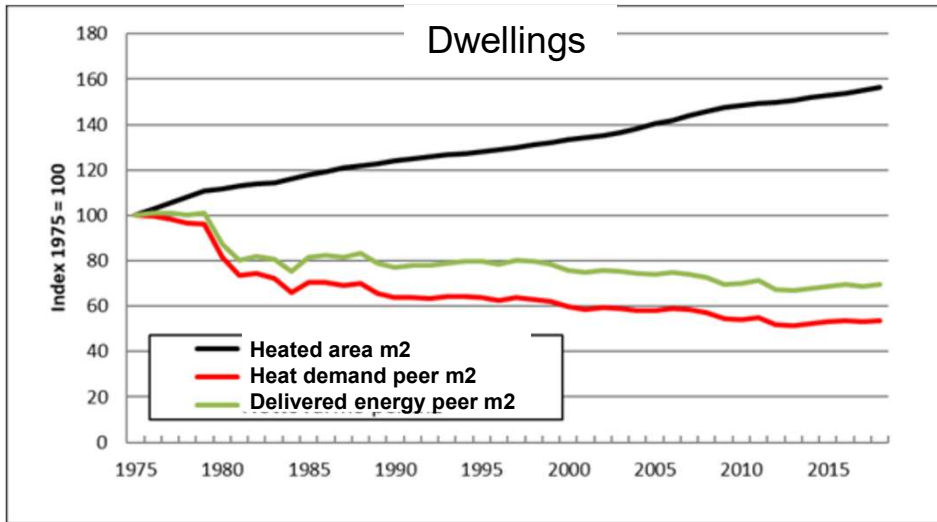


The energy/oil crisis in the 1970s scared the hell out of Denmark. Suddenly we realized that we had become dependent on other not so nice countries. Which is quite similar to today's energy crisis.

First we panicked, however, Danes are reasonable people so we developed a strategy, which now gives us a better position than in the 1970s. The strategy was:

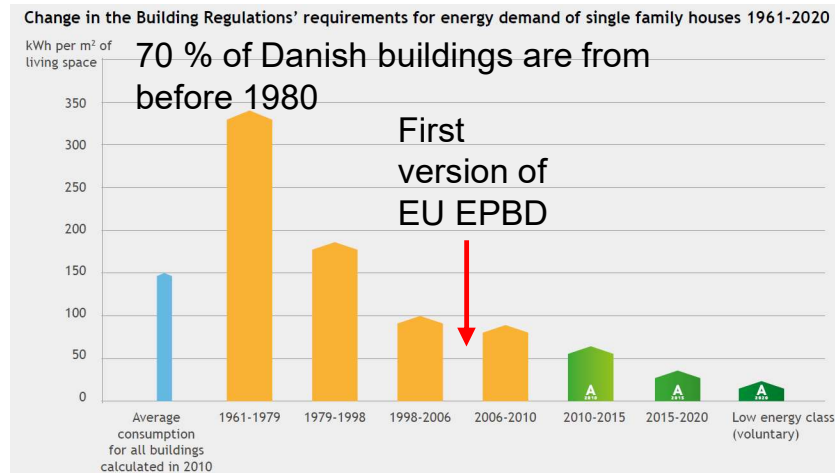
- Energy efficiency in buildings and industry
 - Increase in heat network/district heating
 - Increased exploitation of gas and oil in the North Sea
 - Utilization of wind power
- } Get rid of imported oil

Improving energy efficient of building



1975-1982: 20 % reduction
 1982-2000: no reduction
 2000-2011: 12 % reduction
 2011-2020: 16 % reduction

37 % reduction in gas consumption between 2021 and 2022, not only for buildings

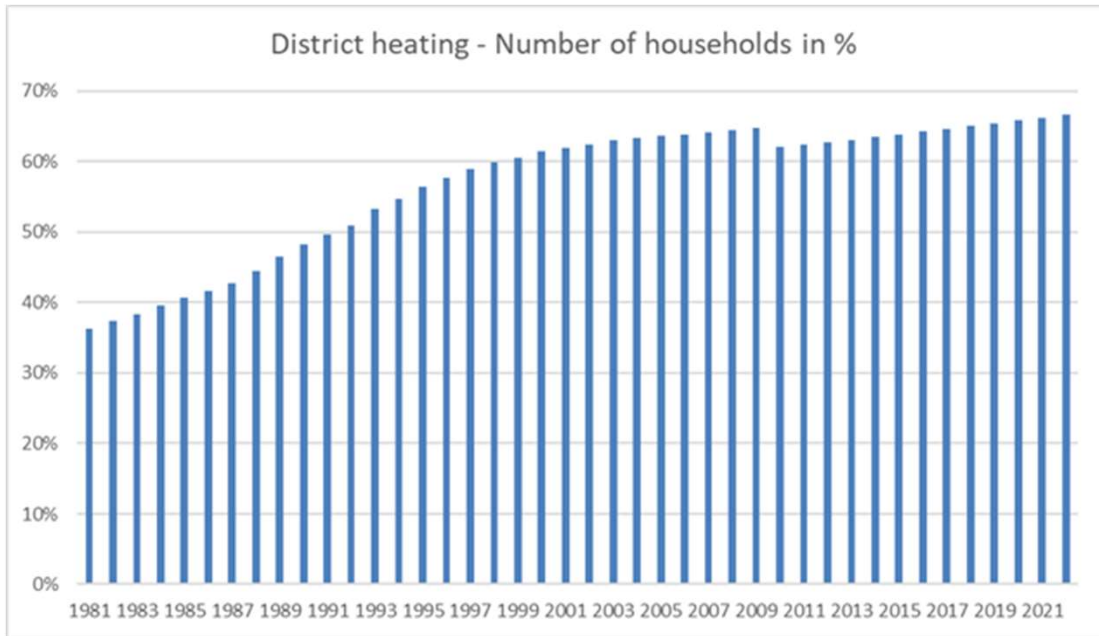


More efficient buildings => healthier buildings



- ❑ Insulation of the thermal envelope: walls, ceiling, floor slabs, windows and doors => less cold surfaces => less or no mold growth
- ❑ New windows and doors => less draft
- ❑ Balanced mechanical ventilation with heat recovery => less allergens due to filters
- ❑ Energy efficient buildings makes it less costly to have a nice indoor temperature

Heat networks/district heating



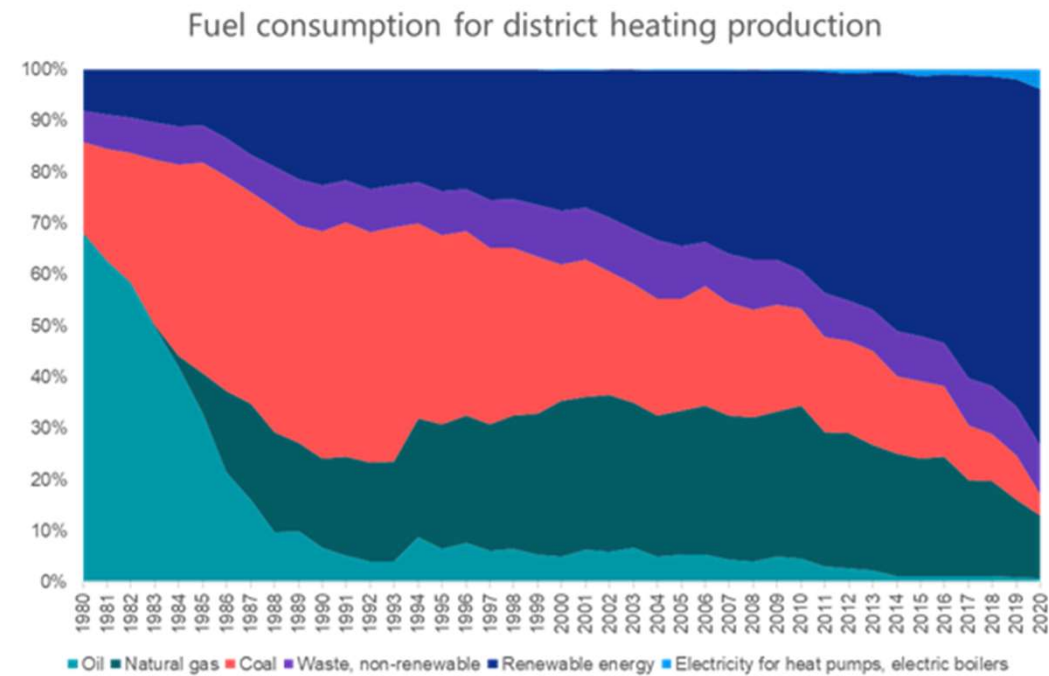
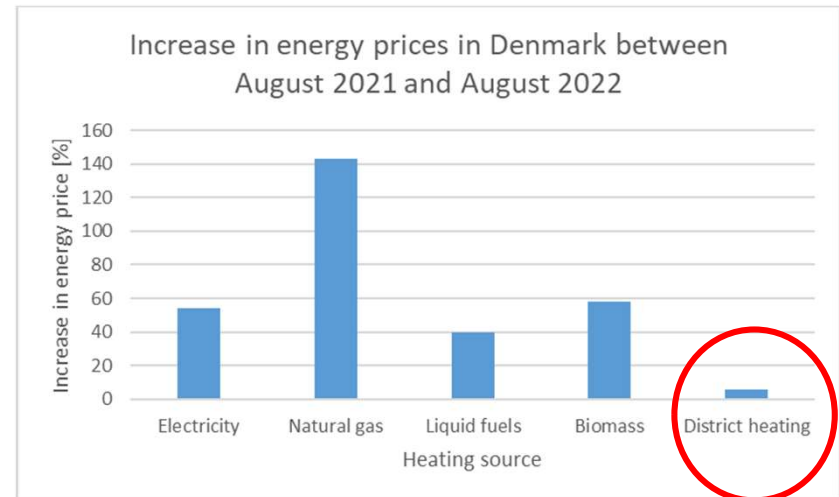
Heating mix 2020:

65 % district heating

23 % gas

7 % wood pellets

5 % oil



Energy security bill



- 😊 Increased roll out of heat networks/district heating
- 😊 Consumer protection
- 😞 Too little focus on making buildings energy efficient

More energy efficient buildings are a prerequisite for obtaining energy efficient heat networks



Thank you