



Energy efficiency in the building sector: The Renovation Wave in the public and private sectors

Julie Kjestrup, Danfoss, 29 June 2021

Our World

27,491

Employees

Worldwide sales

in more than **100** countries

71 factories

in **23** countries

Privately held

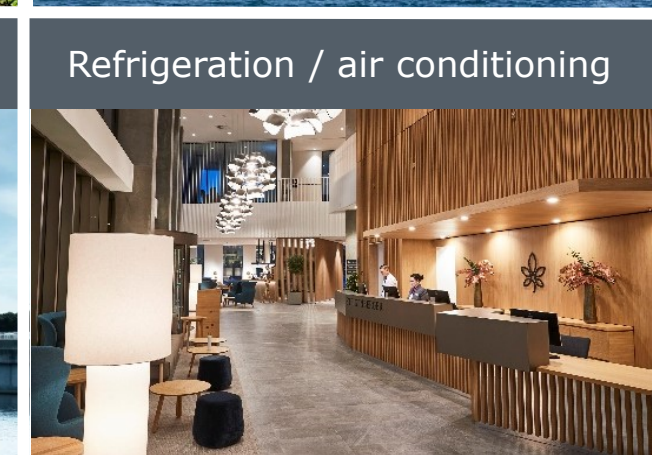
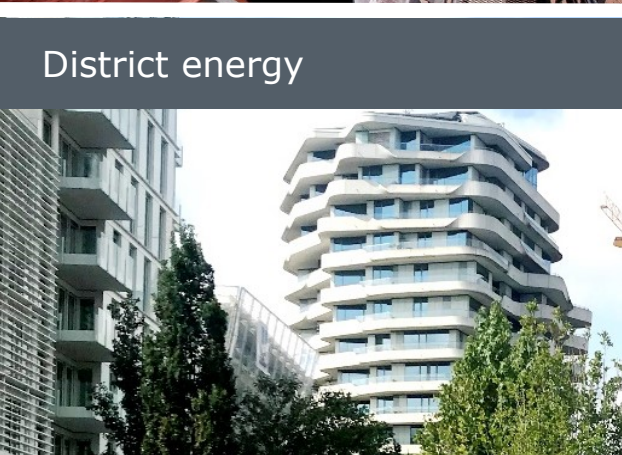
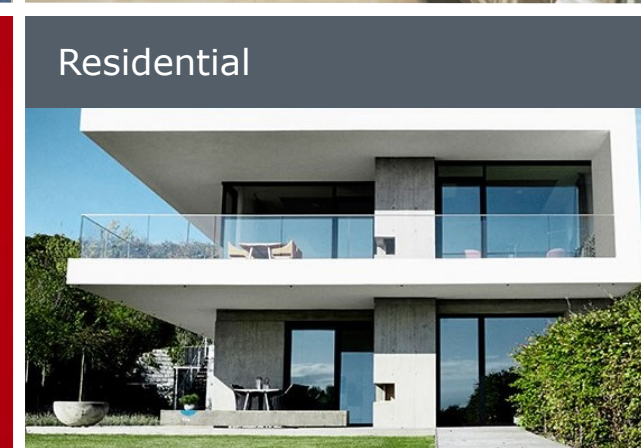
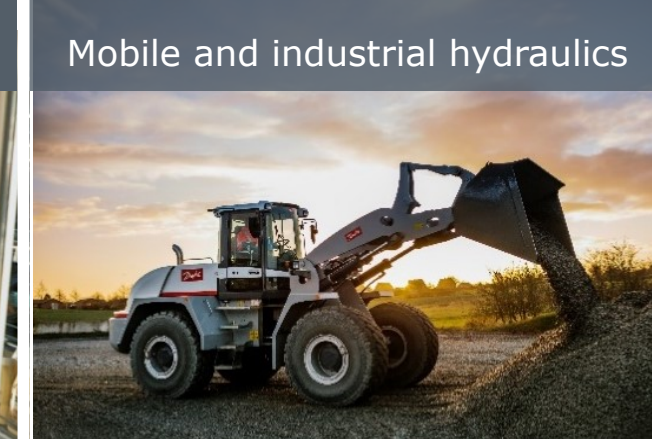
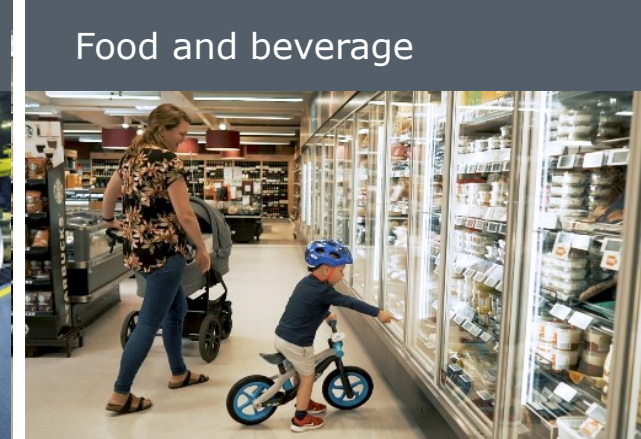
Ownership

**Nordborg,
Denmark**

Headquarters

Top 3 markets





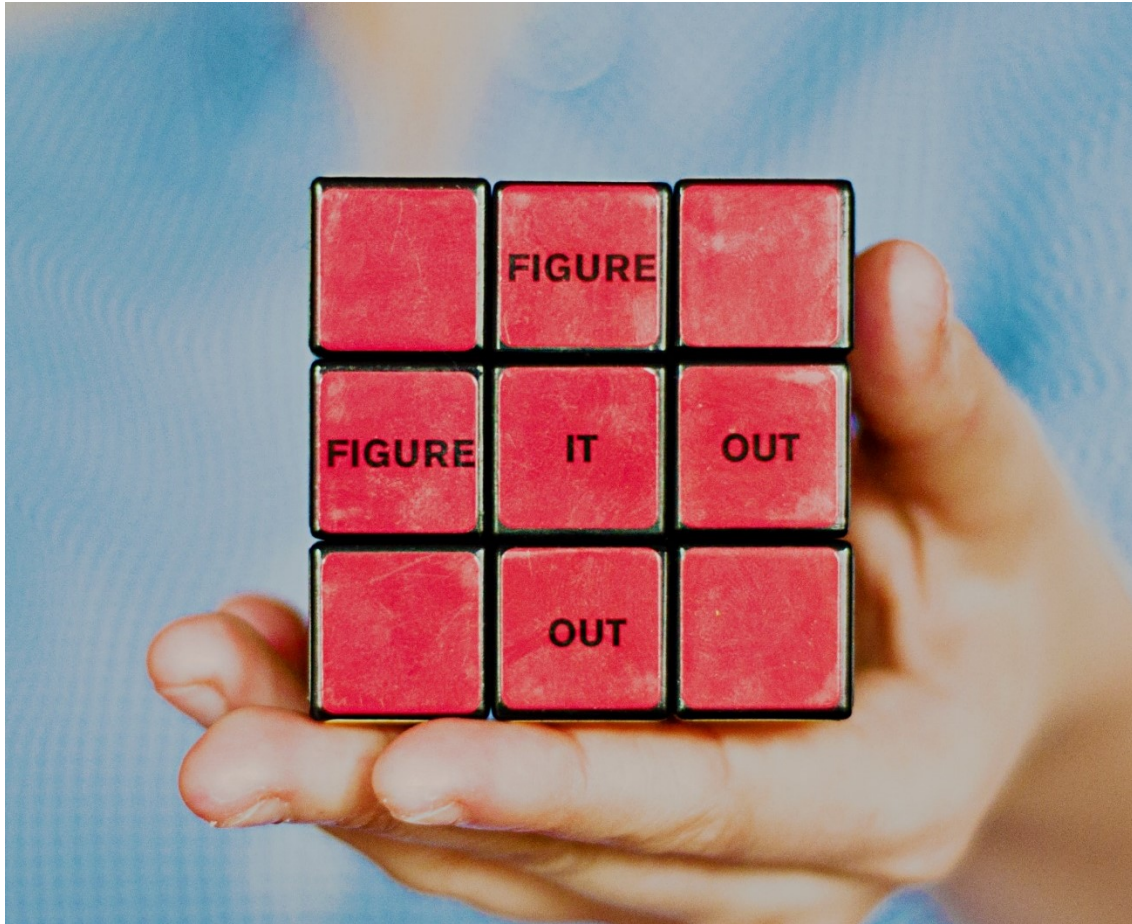
#CarbonNeutralEU to combat Climate Change

- Greenhouse gases increased by 50% since 1990
- Energy efficiency and renewable energy only ways to a low-carbon world
- Energy efficiency delivers largest reductions in greenhouse gases
- #EnergyEfficiencyFirst approach



1.5°
Paris
agreement
goal

Buildings are central



- Buildings consume **around 40%** of the overall energy usage in the EU and are responsible for 36% of CO2 emissions
- The energy demand of the building stock in the EU must be **reduced by 80%** by 2050
- Around **75% of buildings** in the EU are not energy efficient

Renovation is slow

- **85-95% of today's buildings** will still be in use in 2050.
- **Less than 1% of buildings** undergo energy-efficient renovation every year
- The average energy saving for energy renovation projects is **just 9%.**



Renovation Wave

Green Recovery

- ## Buildings: a key sector for national recovery plans:

- Danfoss*

What's needed?

- Ambitious and binding overall EE target to push up ambition
- Ensure coherence and complementarity in the policy framework
 - buildings are central energy infrastructure
- Expand renovation scope to all public owned buildings from central, regional and local authorities
- Promote district approach to make sure that planning for renovation and decarbonised heating and cooling supply happens at the same time and at the right level
- Support easy access to financial/technical support e.g. through 'one-stop shops' to ensure uptake



ENGINEERING
TOMORROW