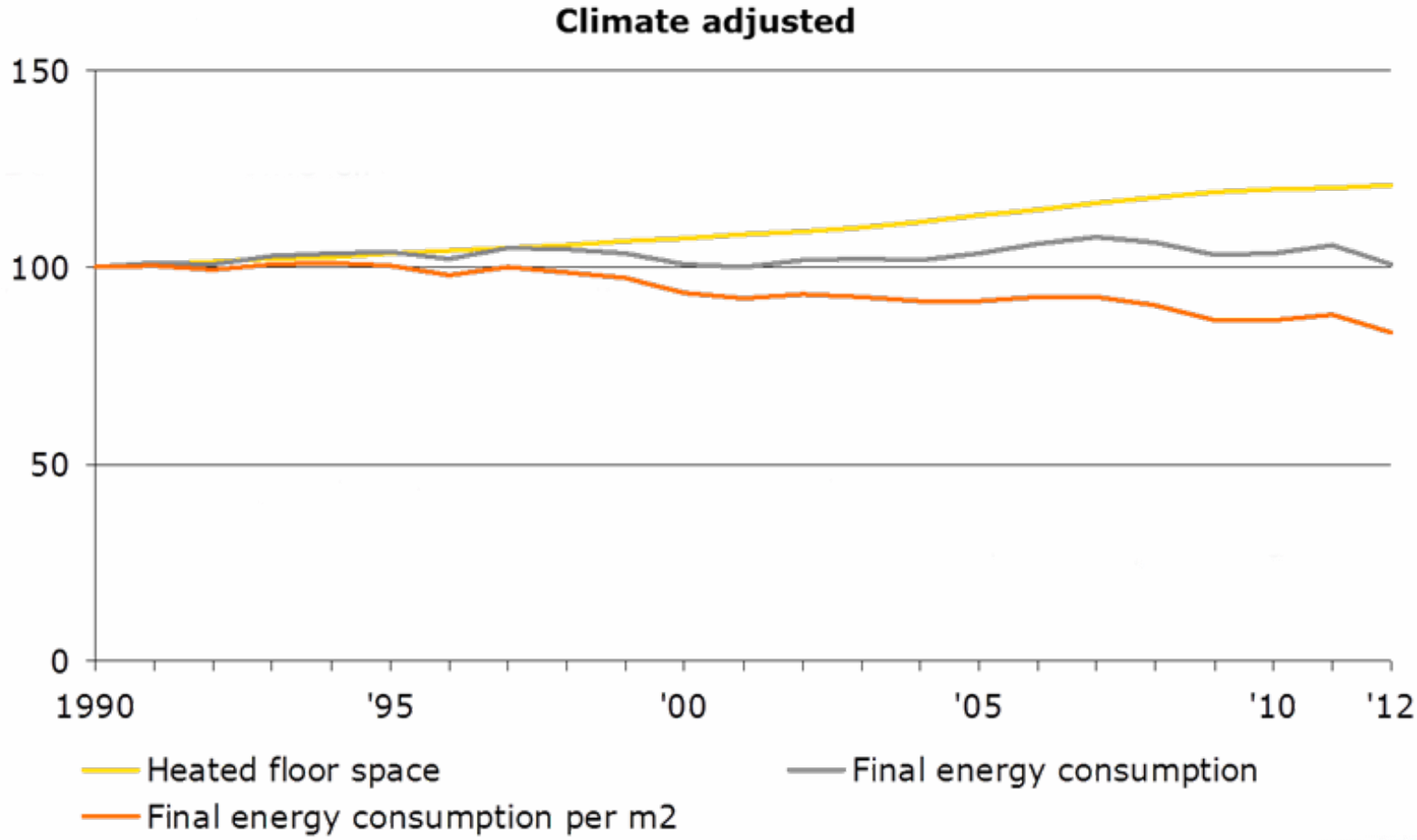
National Energy Requirements for Buildings

Peter Nielsen

Danish Energy Agency

DANISH ENERGY AGENCY

Energy consumption for heating dwellings



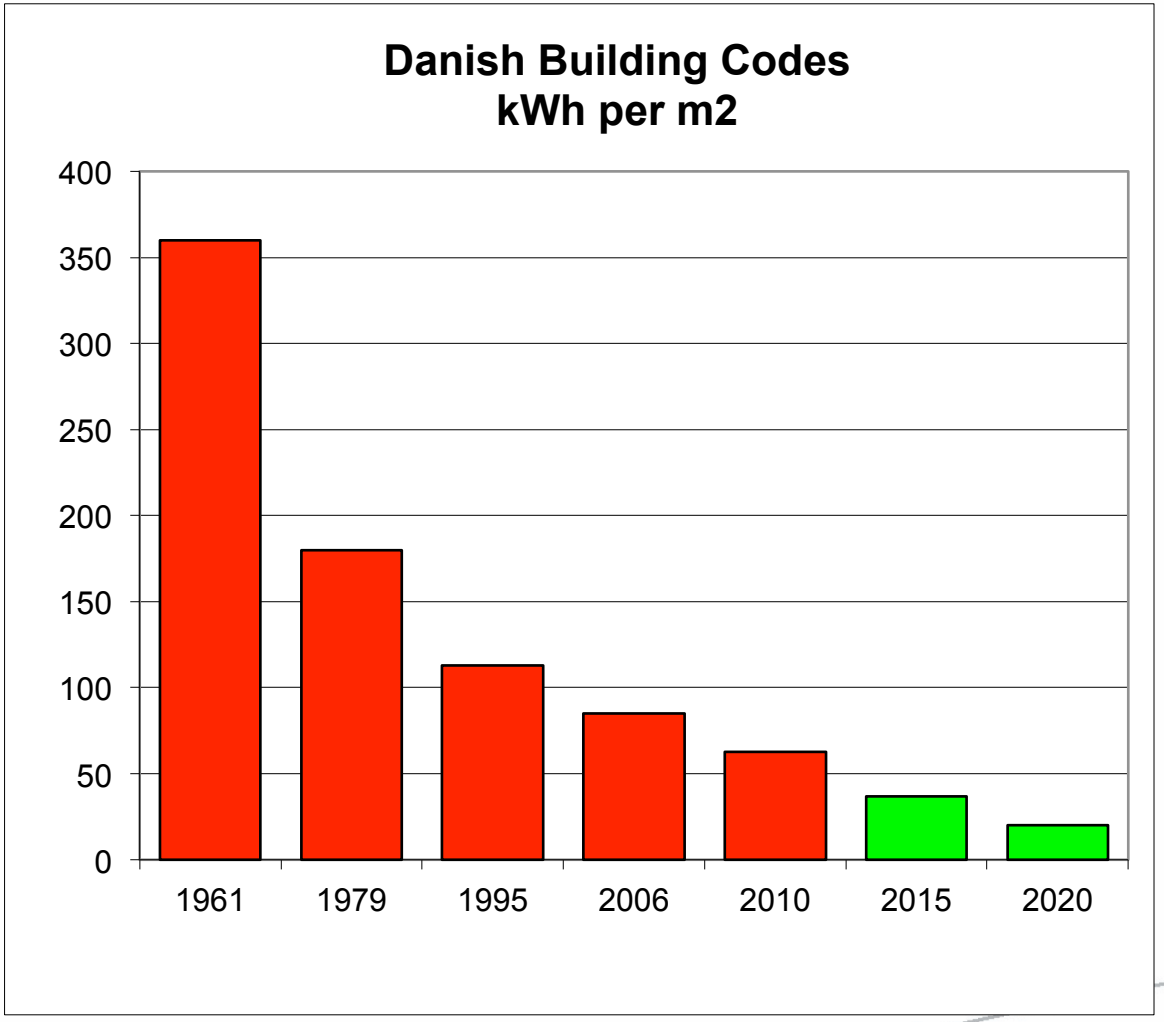
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Danish Building Code

- First edition from 1960
- Energy requirements from 1979 =>
- Building code 2010 include indicative values for energy performance framework in 2015 and 2020

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New buildings



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Danish Building Code

3 levels of regulation

- ***Energy performance framework***
  - ✓ Focus on the entire building and how much energy supply from outside is needed
- ***Design transmission loss***
  - ✓ Building envelope
- ***Building elements***
  - ✓ Services e.g. heating system, ventilation system, cooling system
  - ✓ Units i.e. boilers, circulators, windows

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Ecodesign Directive

Article 6 **Free movement**

1. Member States shall not prohibit, restrict or impede the placing on the market and/or putting into service, within their territories, of a product that complies…… 'This shall be without prejudice to the energy performance requirements and system requirements set by Member States in accordance with Article 4(1) and Article 8 of Directive 2010/31/EU.'.

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Energy Performance of Buildings Directive

Article 8 **Technical building systems**

1. Member States shall set system requirements in respect of the overall energy performance … which shall cover at least the following:

(a) heating systems;

(b) hot water systems;

(c) air-conditioning systems;

(d) large ventilation systems;

or a combination of such systems.

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Article 4 **Setting of minimum energy performance requirements**

1. Member States shall take the necessary measures to ensure that minimum energy performance requirements are set for building elements that form part of the building envelope…….

The Triangular Conflict

- The Energy Performance of Buildings Directive, Ordering MS to set national requirements inter alia for systems and elements
- The Ecodesign Directive Regulations are based on Single Market rules in the Treaty, preventing MS to set national rules
- The Natonal rules – Building code

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Conflict solution?

- Is the Ecodesign Directive suited for products meant to be build in or installed in buildings?
- The European Court of Justice ?
- Revision of Ecodesign and energy labelling Directive

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