

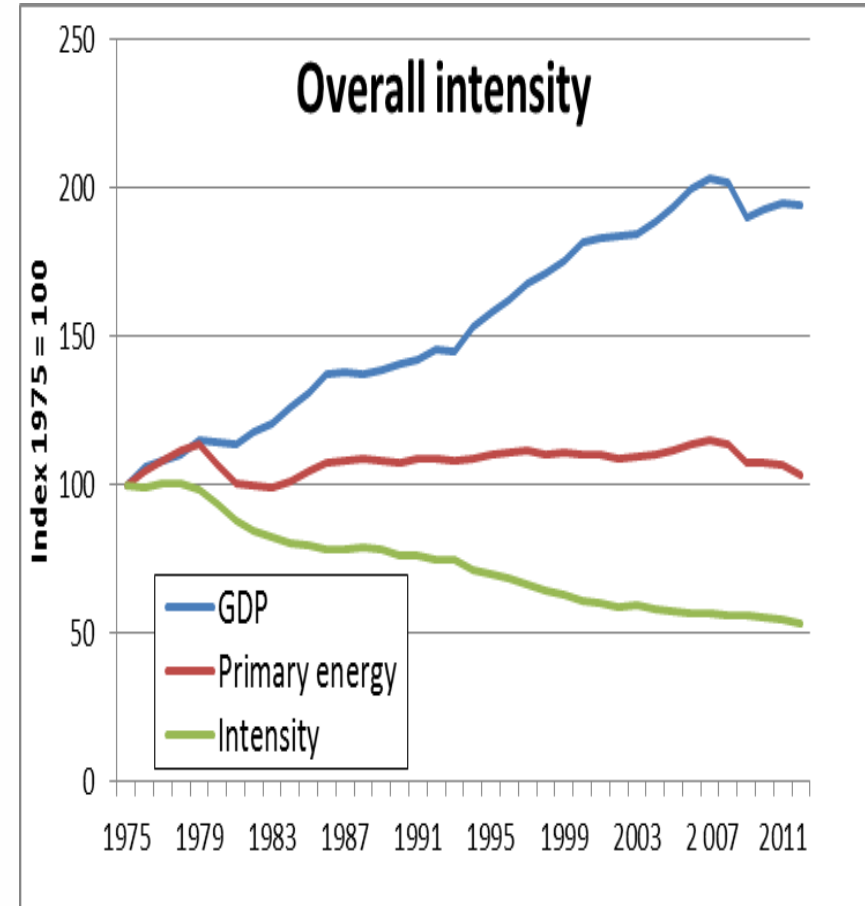
Energy Efficiency in Denmark - Lessons learned

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EE in Denmark - overview

- Strong EE improvements
- De-coupling energy consumption and economic growth
- Also under the actual economic crises
- Combination of several policies and measure
 - Energy taxes
 - Regulation
 - Information and awareness



Energy efficiency obligations

Annual saving target

- Focus on realization
- Freedom to deliver
- Market based
- Help to implementation

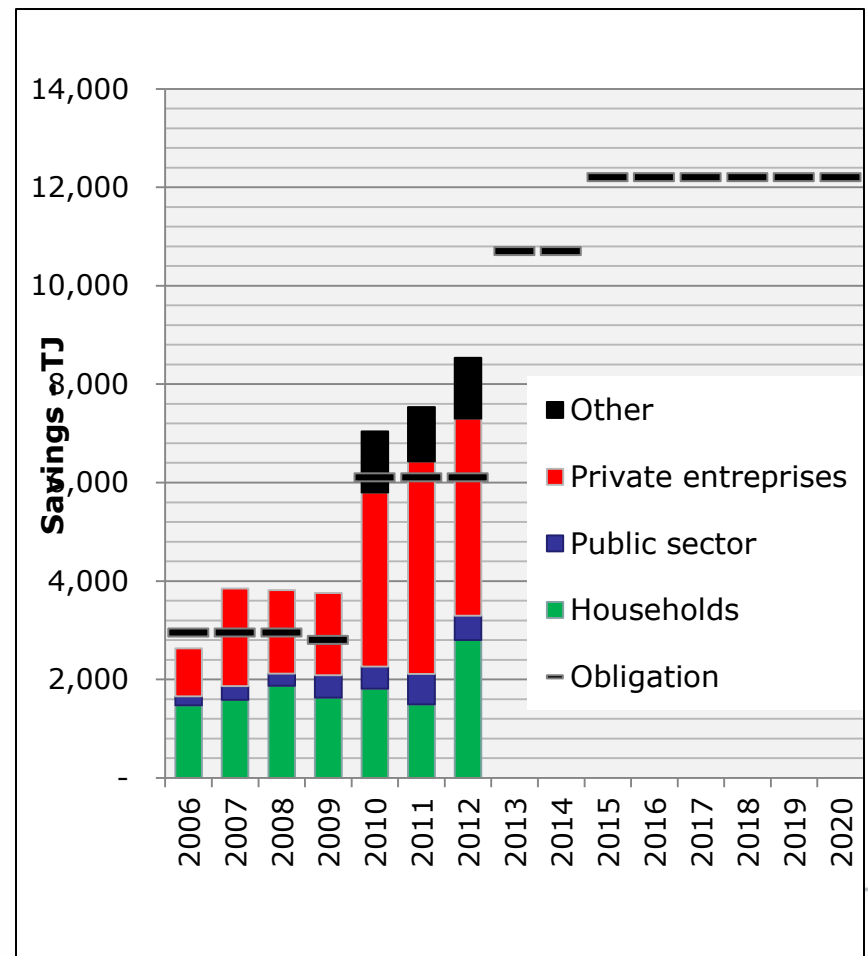
Selling energy services – not only kWh

- Transforming the energy utilities

Financed by the tariffs

- Not from the state budget

Strong cost-effective measure

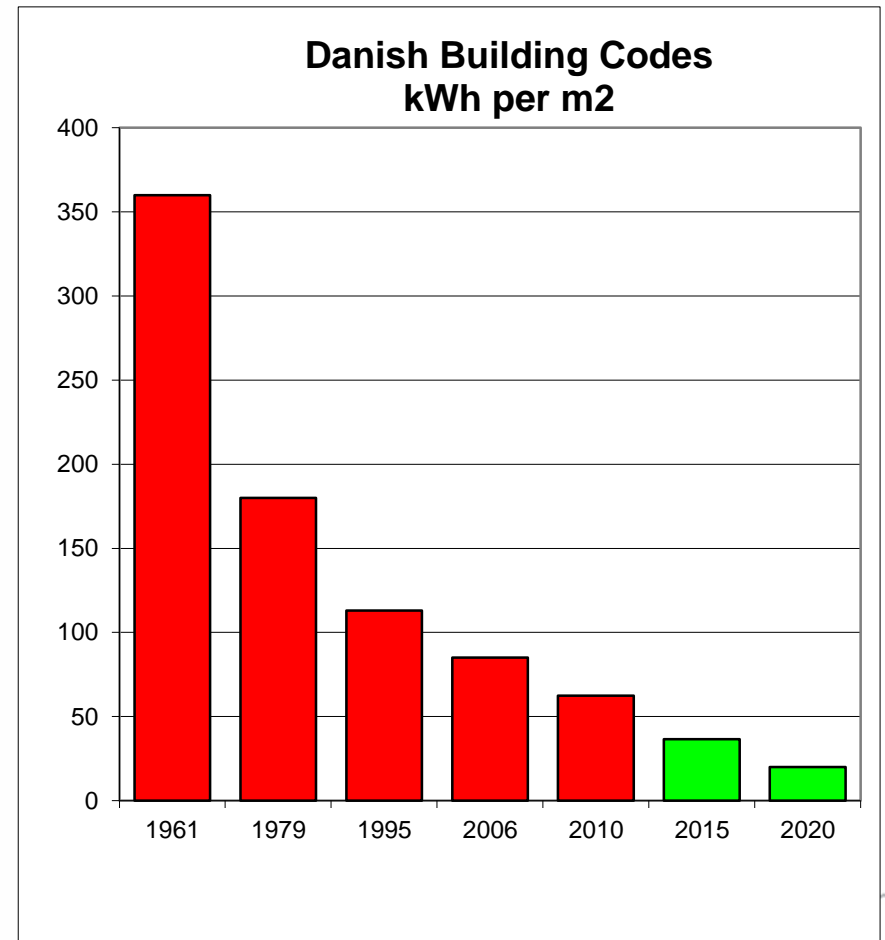


Building codes for new buildings

Dynamic development of building codes

- Regularly update
- Early announcement of next steps
- Voluntary low energy classes
- Time to adapt
- Brings cost down – cost-effective

Enforcement important
Big effects especially in
developing countries



Voluntary agreements for industry

Part of CO₂-tax packet

- Rebate on CO₂-tax by signing EE agreement

Elements in agreement:

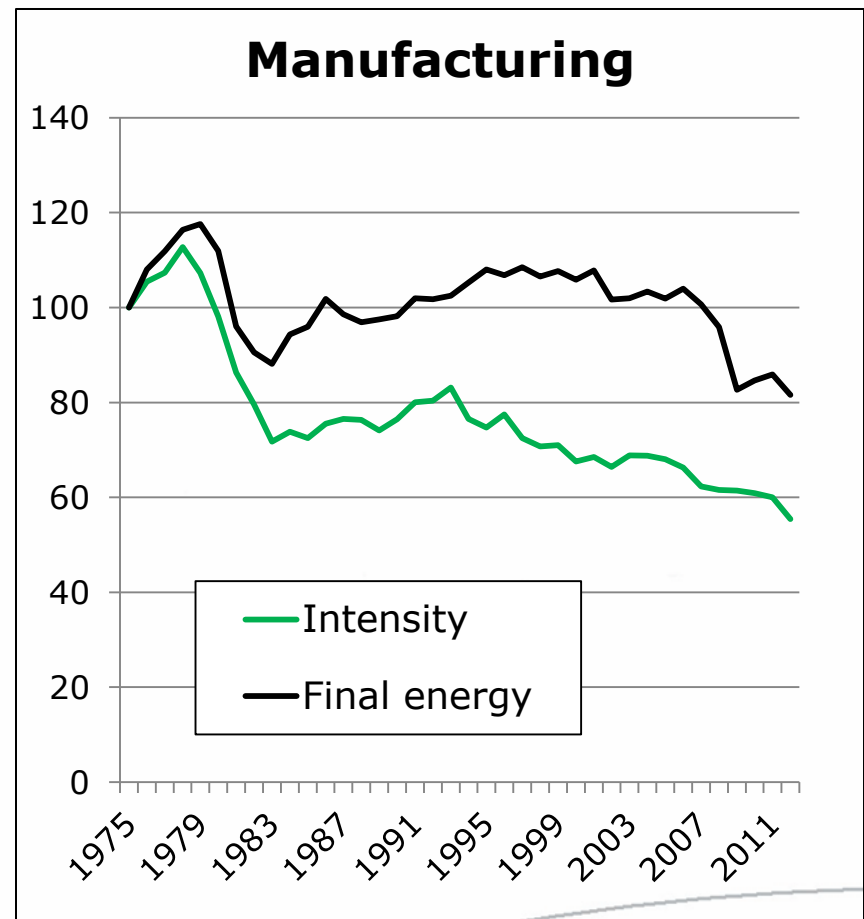
- Energy management
- Special investigations
- Implement cost-effective projects

Annual reporting

- The tax have to be paid if the agreement not is implemented

More then 10% saving

- Very cost-effective



Lessons learned

- Several barriers for implementing cost-effective energy savings
 - The market will not deliver enough
- No single silver bullet
- Combination of measures are needed
 - Economic incentives – energy prices
 - Regulation – standard, norms, etc.
 - Information and change of behavior
- Thank you for your attention
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