

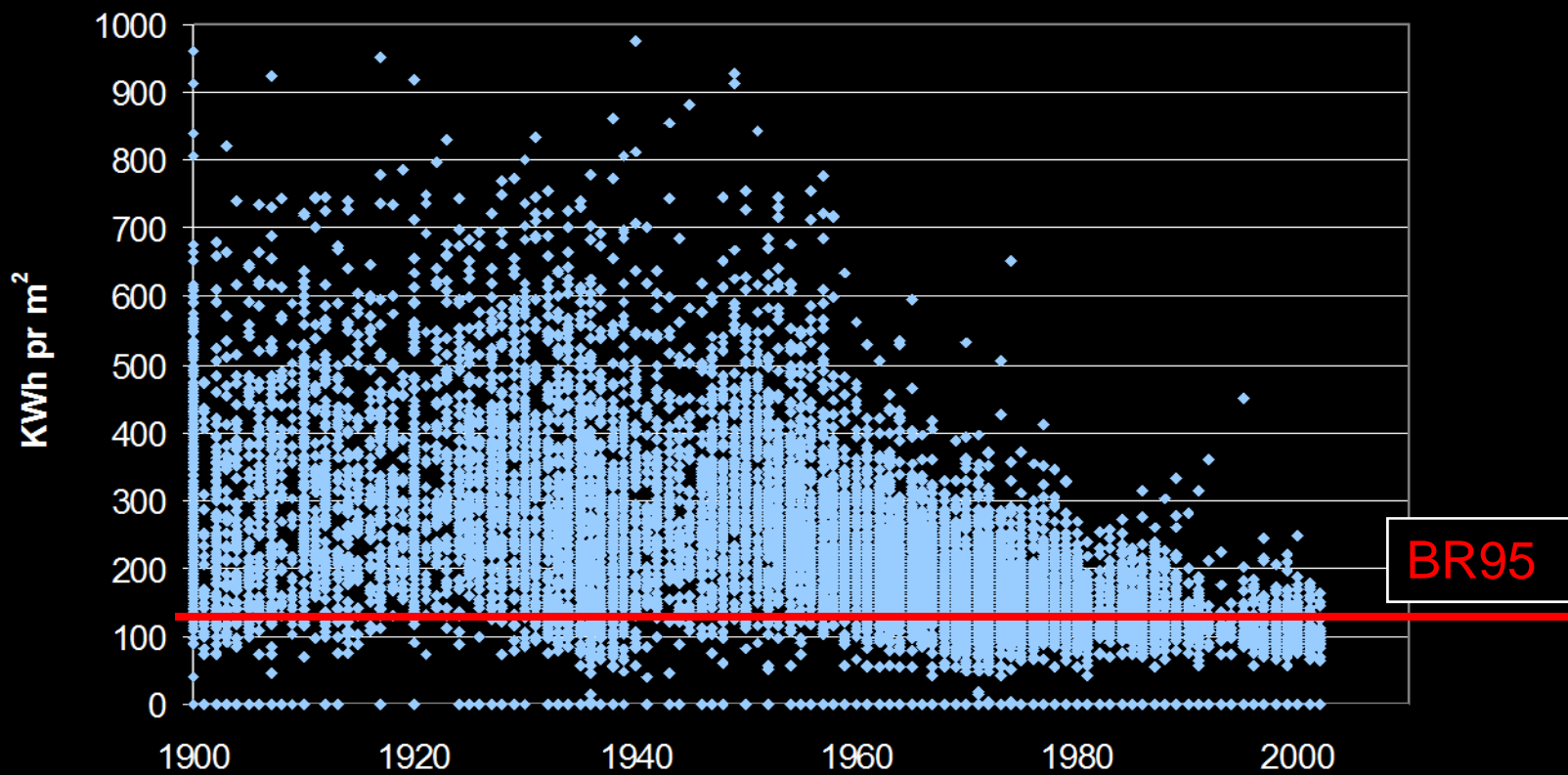


# Varmeforbrugets udvikling og sparepotentialer

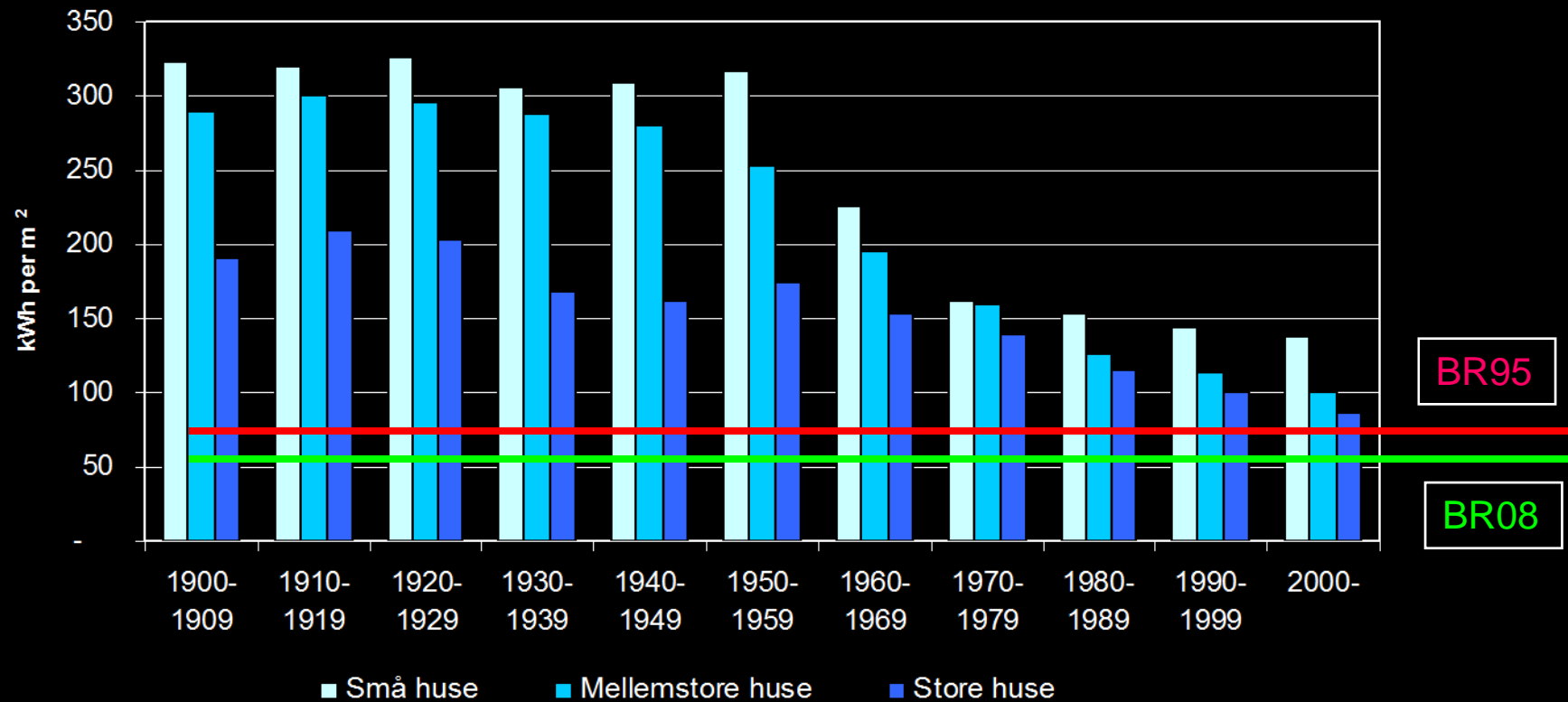
Ole Michael Jensen  
Statens Byggeforskningsinstitut (SBI)

Varmeseminar, VEKS, Københavns E og CTR 9. juni 2008

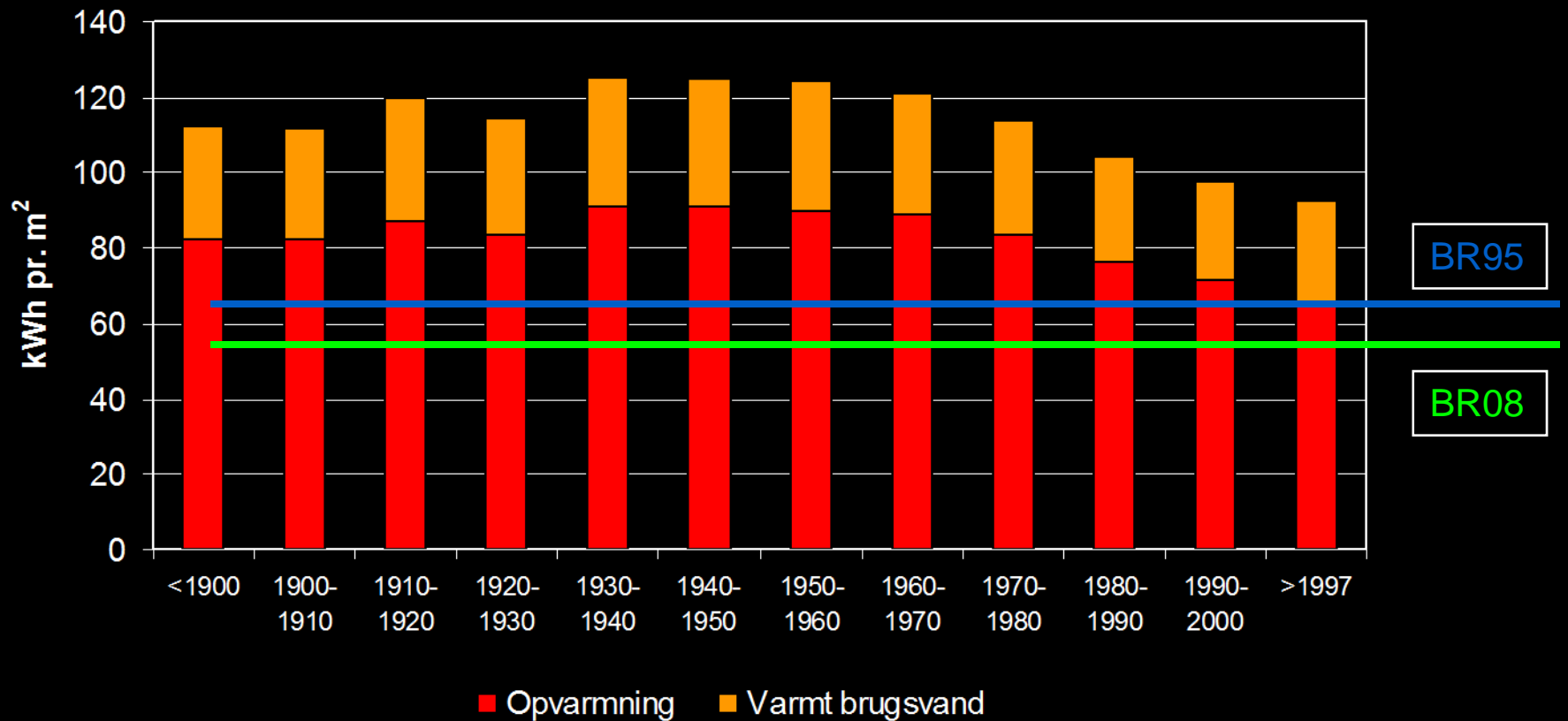
# Energimærkede parcelhuse



# Varmeforbrug i parcelhuse



# Varmeforbrug i etageejendomme

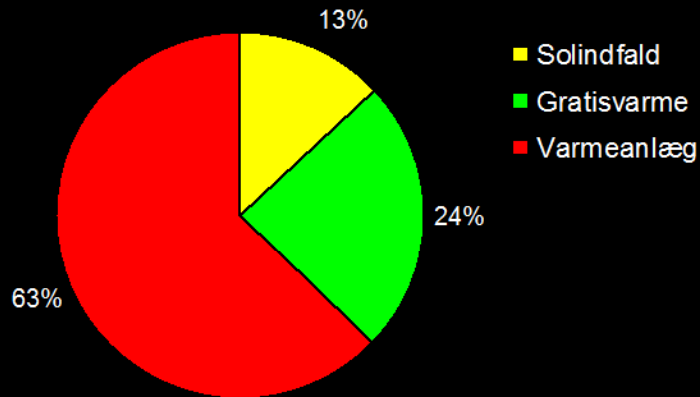


# Varmeforbrug i etageboliger

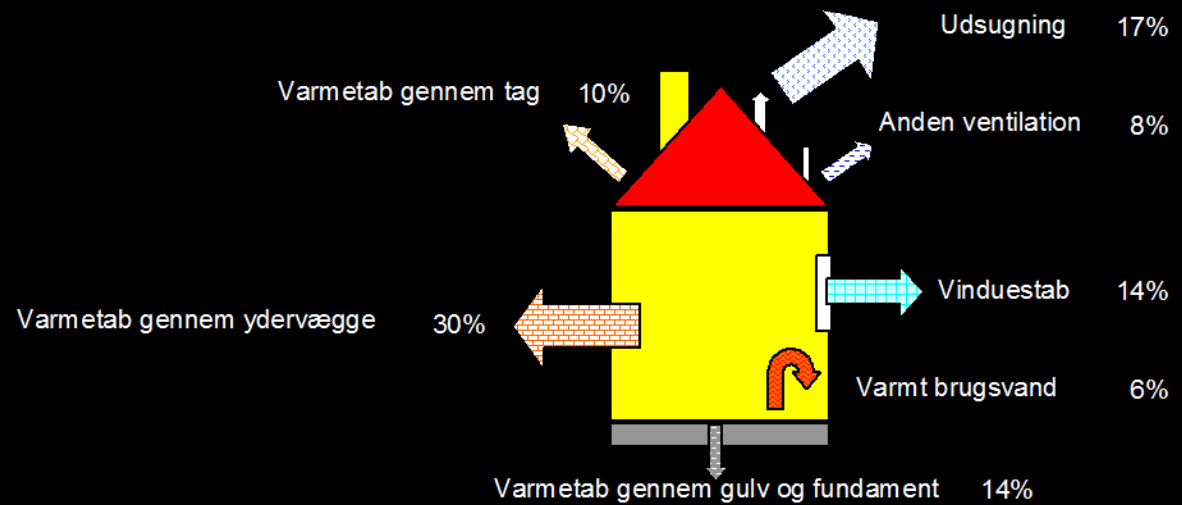


# Varmeforbrug i etageboliger - 1930

Varmetilførsel

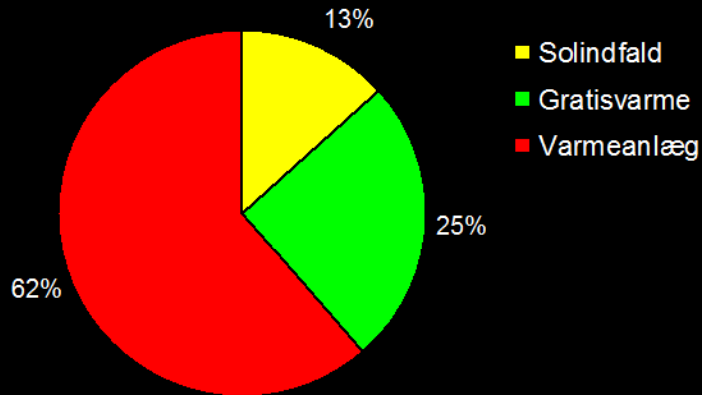


Varmetab

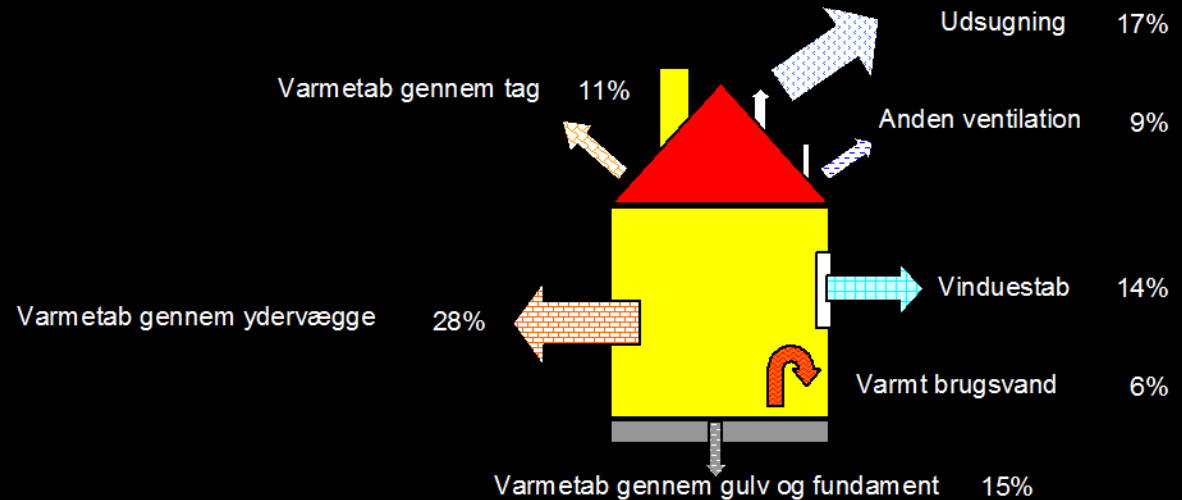


# Varmeforbrug i etageboliger 1931-1950

Varmetilførsel

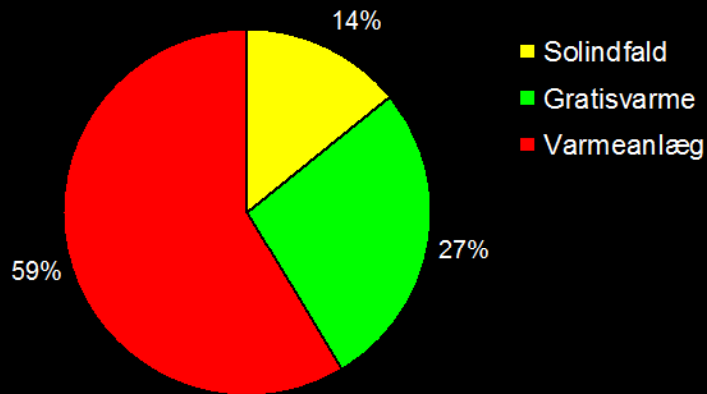


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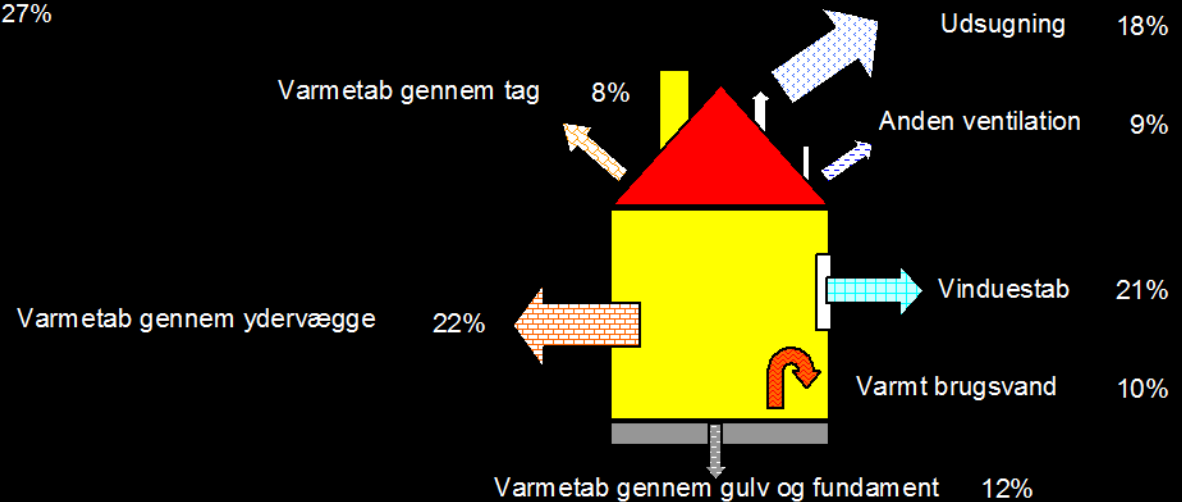


# Varmeforbrug i etageboliger 1951-1960

Varmetilførsel

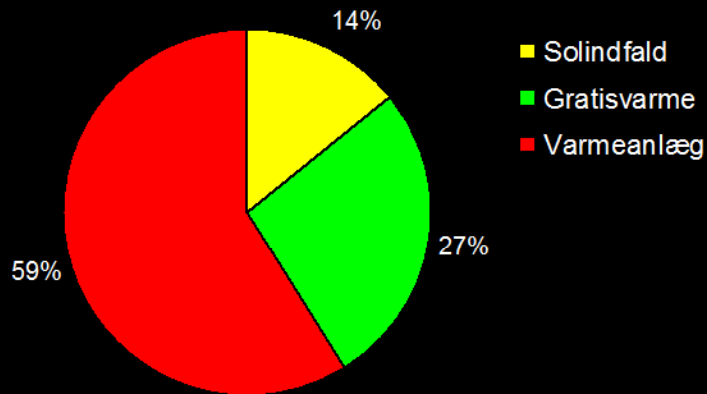


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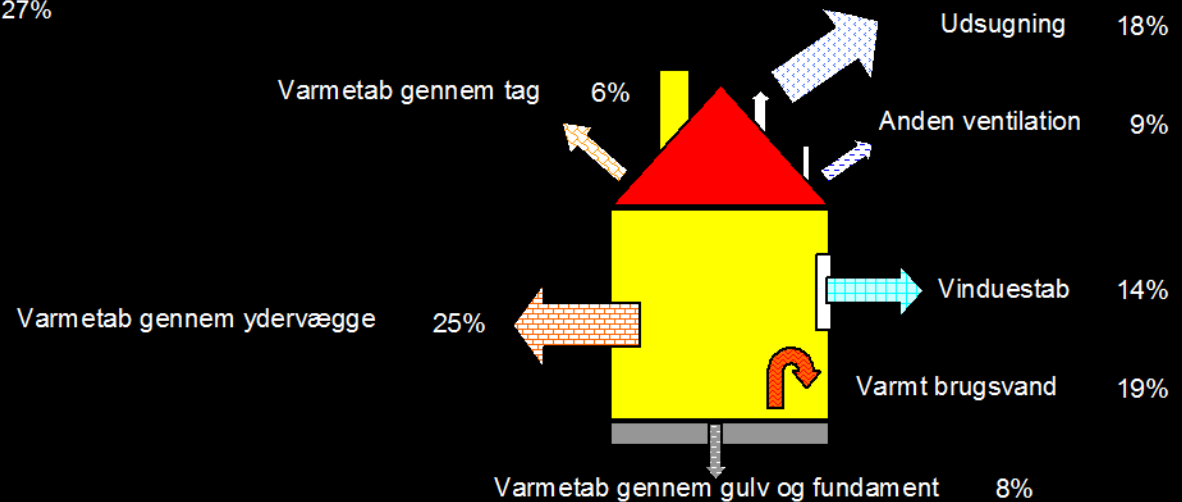


# Varmeforbrug i etageboliger 1961-1972 (BR 61)

Varmetilførsel

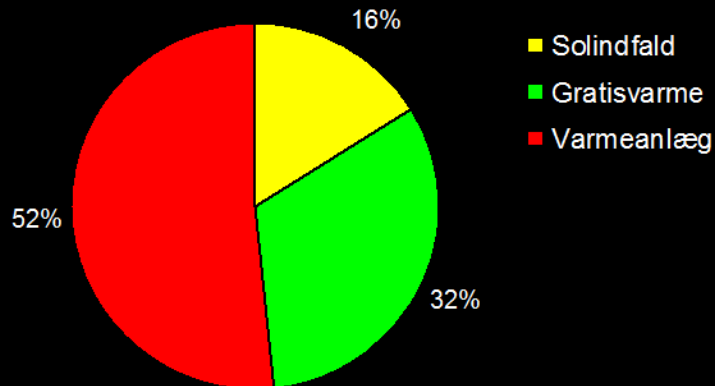


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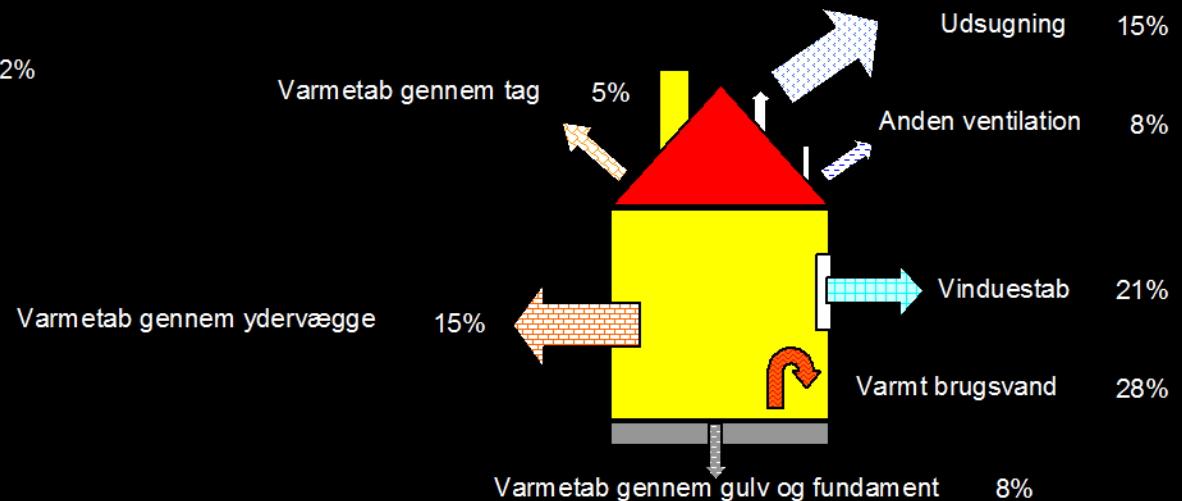


# Varmeforbrug i etageboliger 1973-1978 (BR 72)

Varmetilførsel

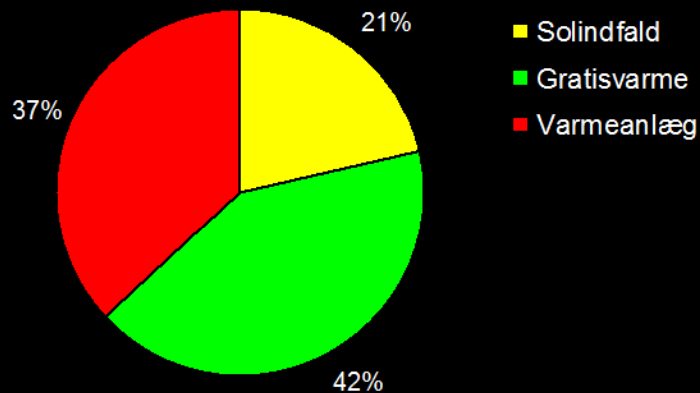


Varmetab

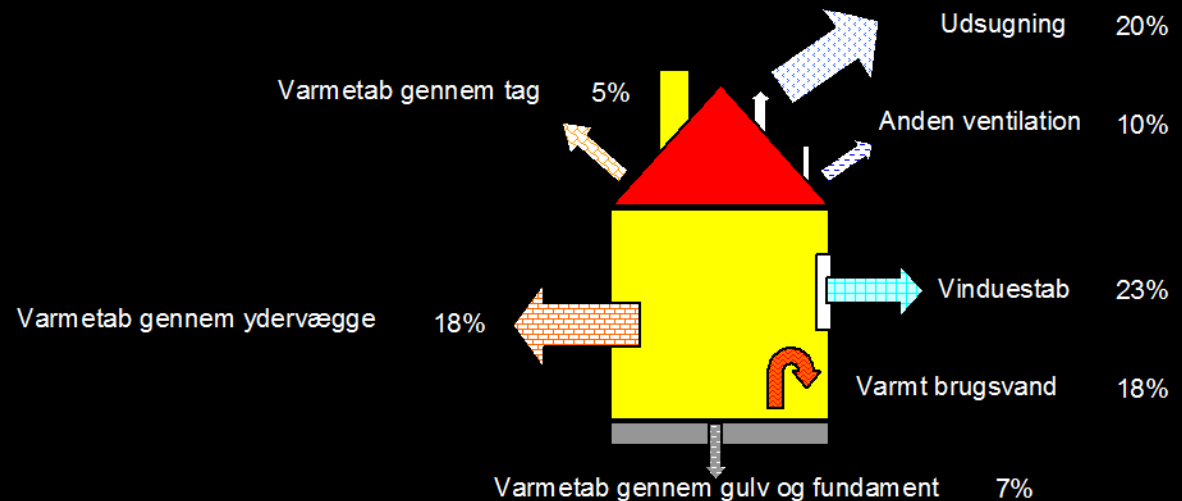


# Varmeforbrug i etageboliger 1979-1998 (BR 77)

Varmetilførsel

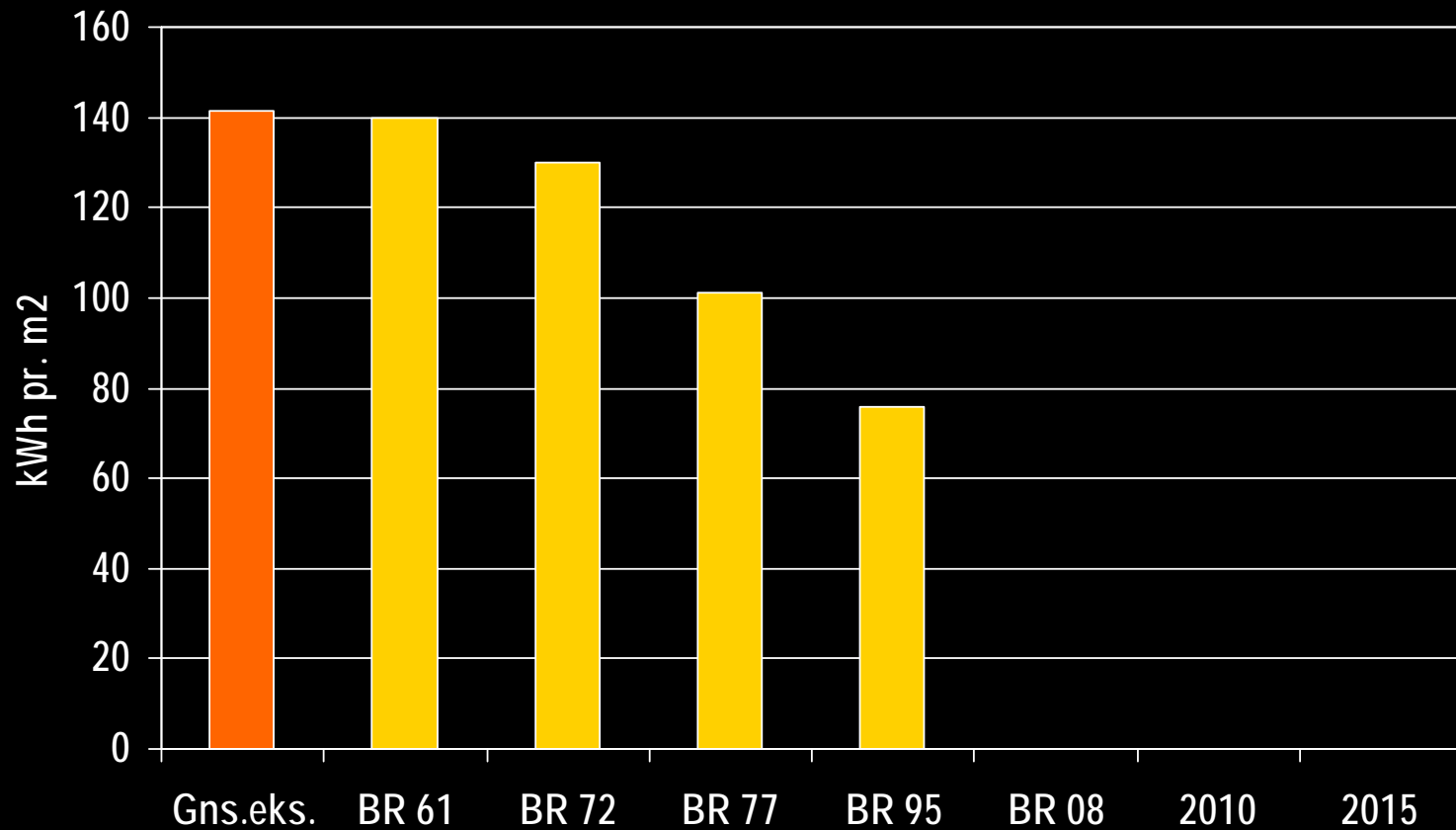


Varmetab



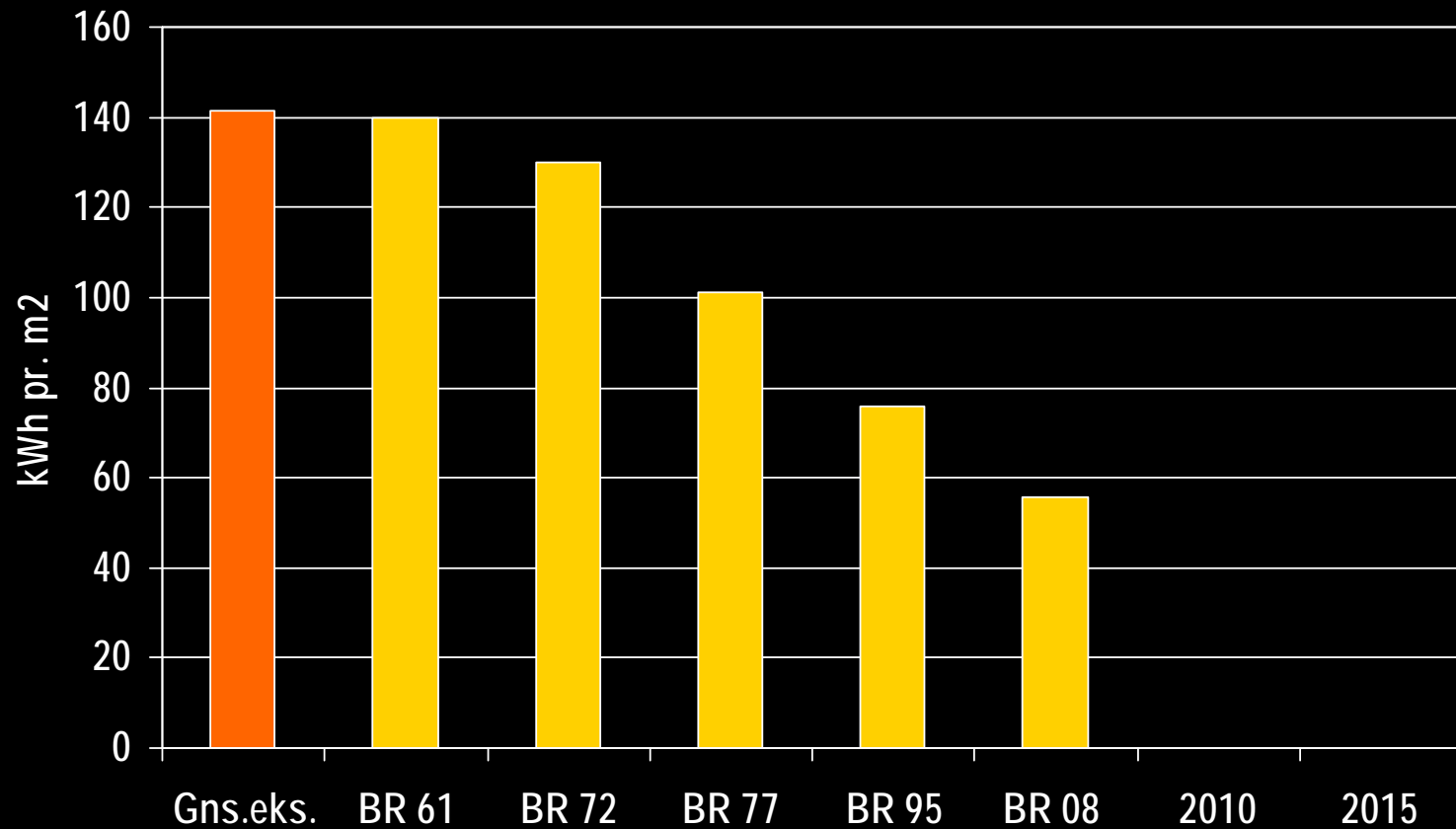
# Energikrav gennem tiderne

BR=Bygningsreglement



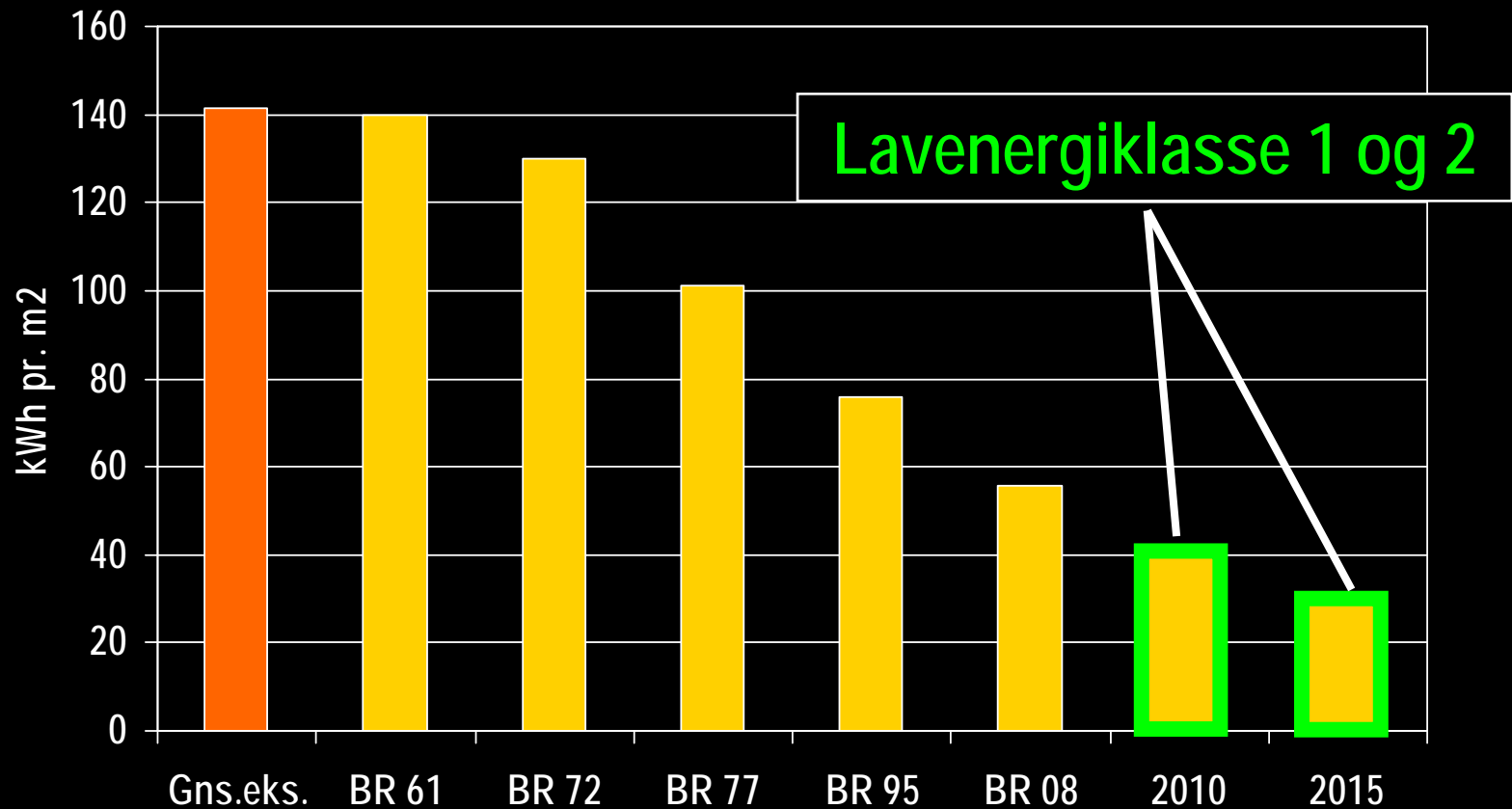
# Energikrav gennem tiderne

BR=Bygningsreglement



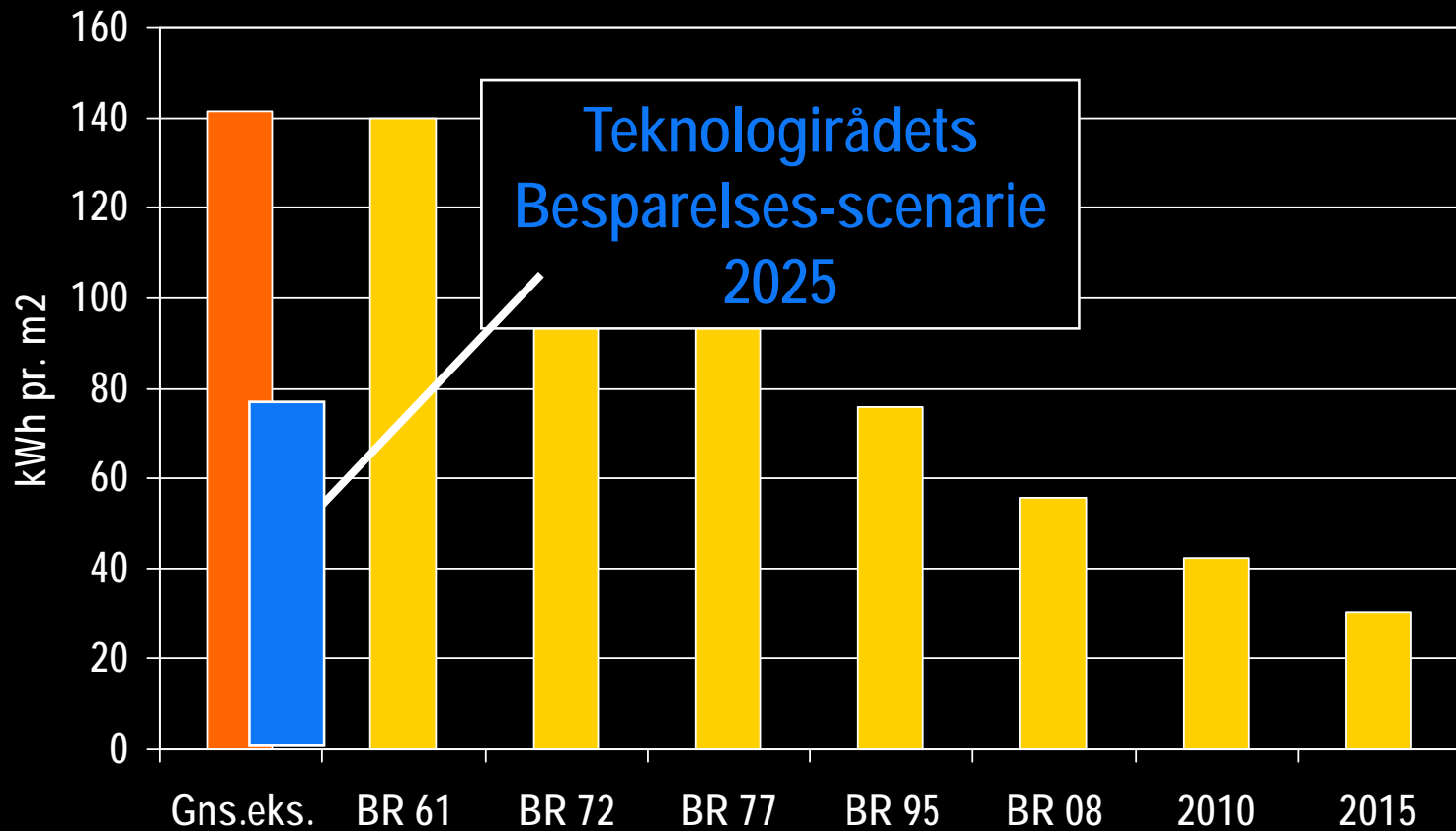
# Energikrav fremover

BR=Bygningsreglement



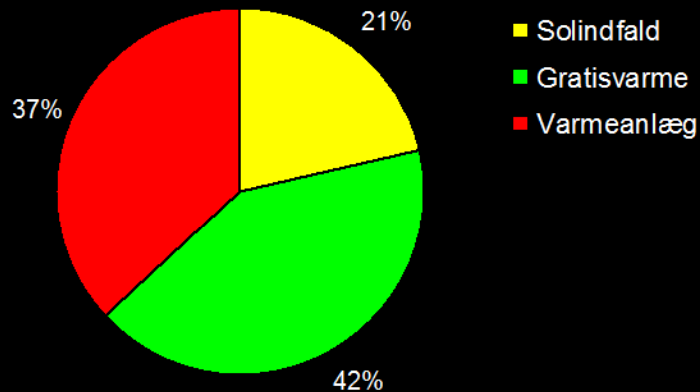
# Besparelses-scenarie

BR=Bygningsreglement

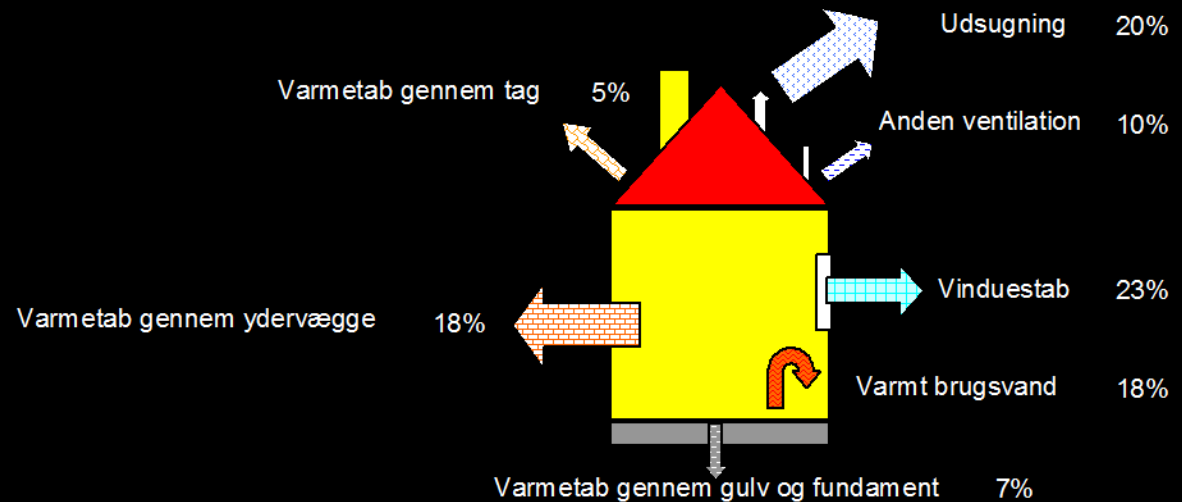


# Varmeforbrug i etageboliger 1979-1998 (BR 77)

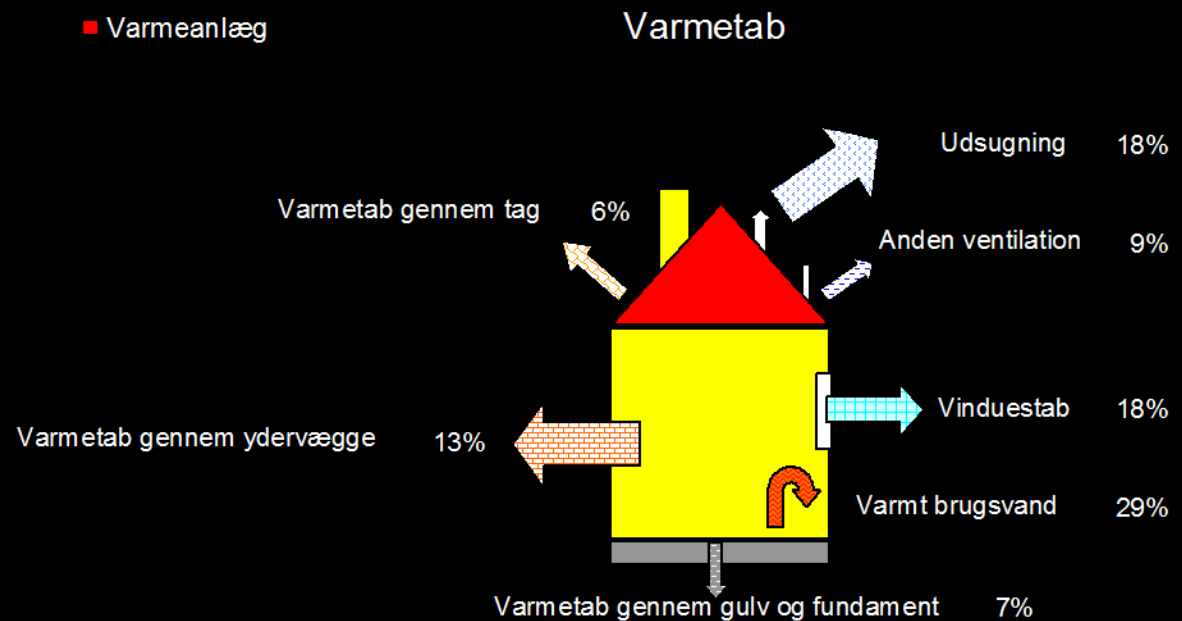
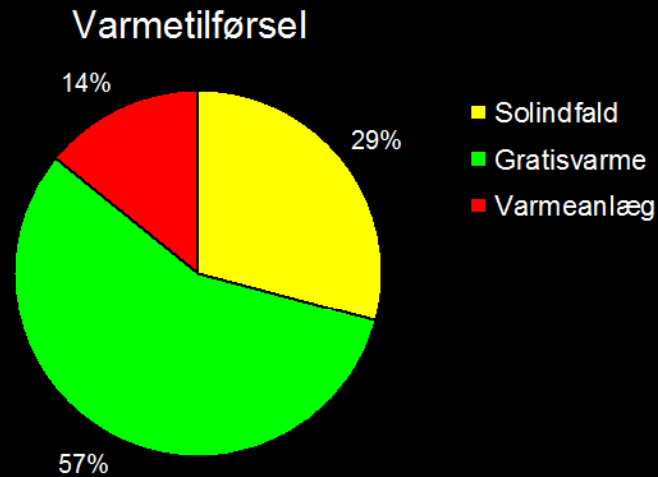
Varmetilførsel



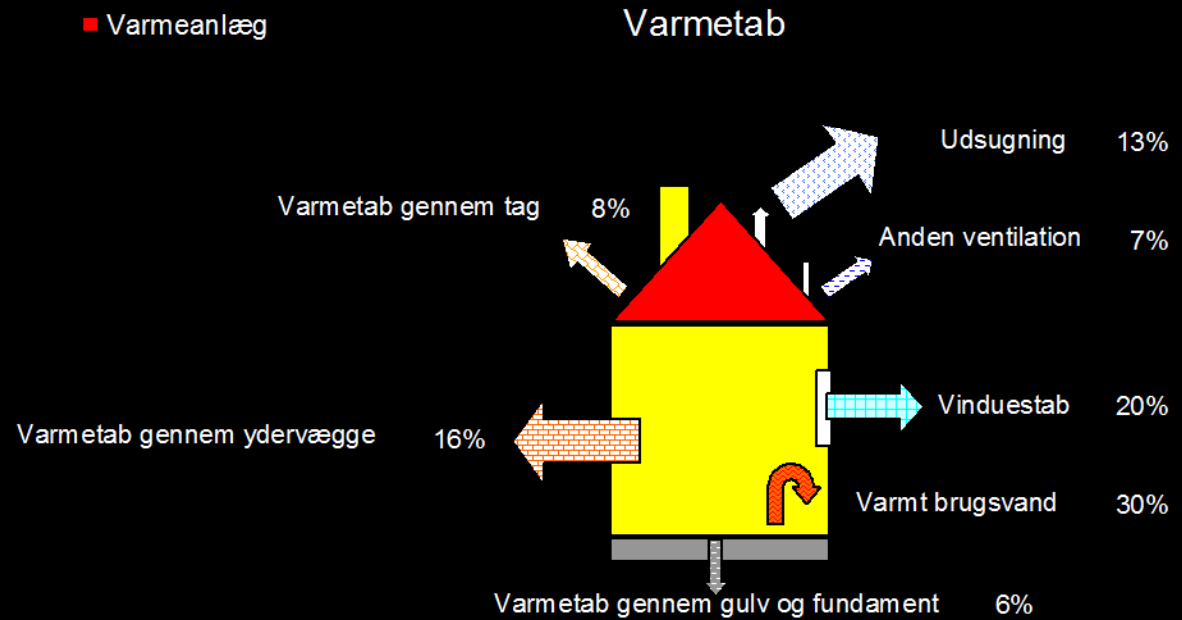
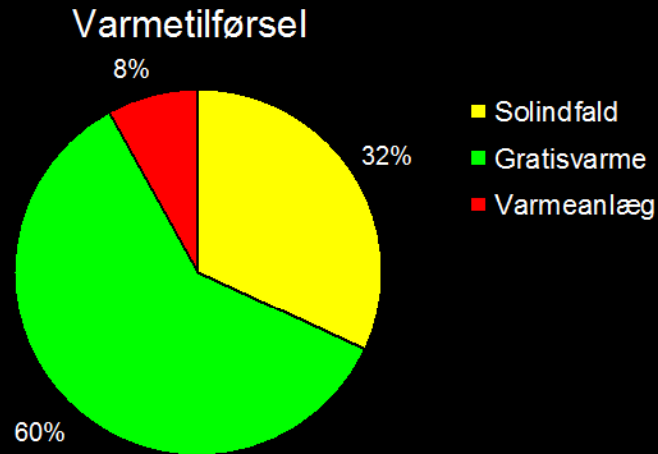
Varmetab



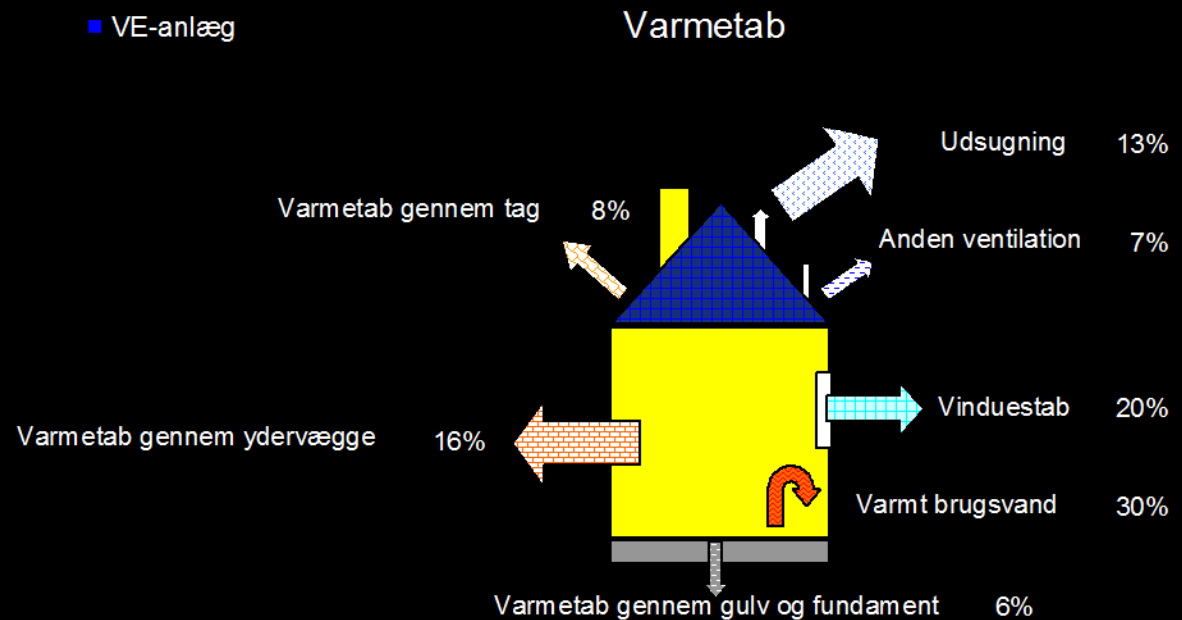
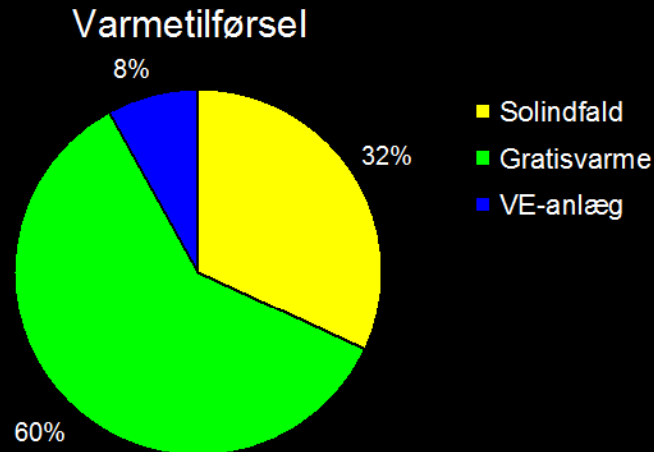
# Varmeforbrug i etageboliger 1999-2003 (BR 95)



# Varmeforbrug i etageboliger 2006-2010 (BR 06 )



# Varmeforbrug i etageboliger 2010-2015



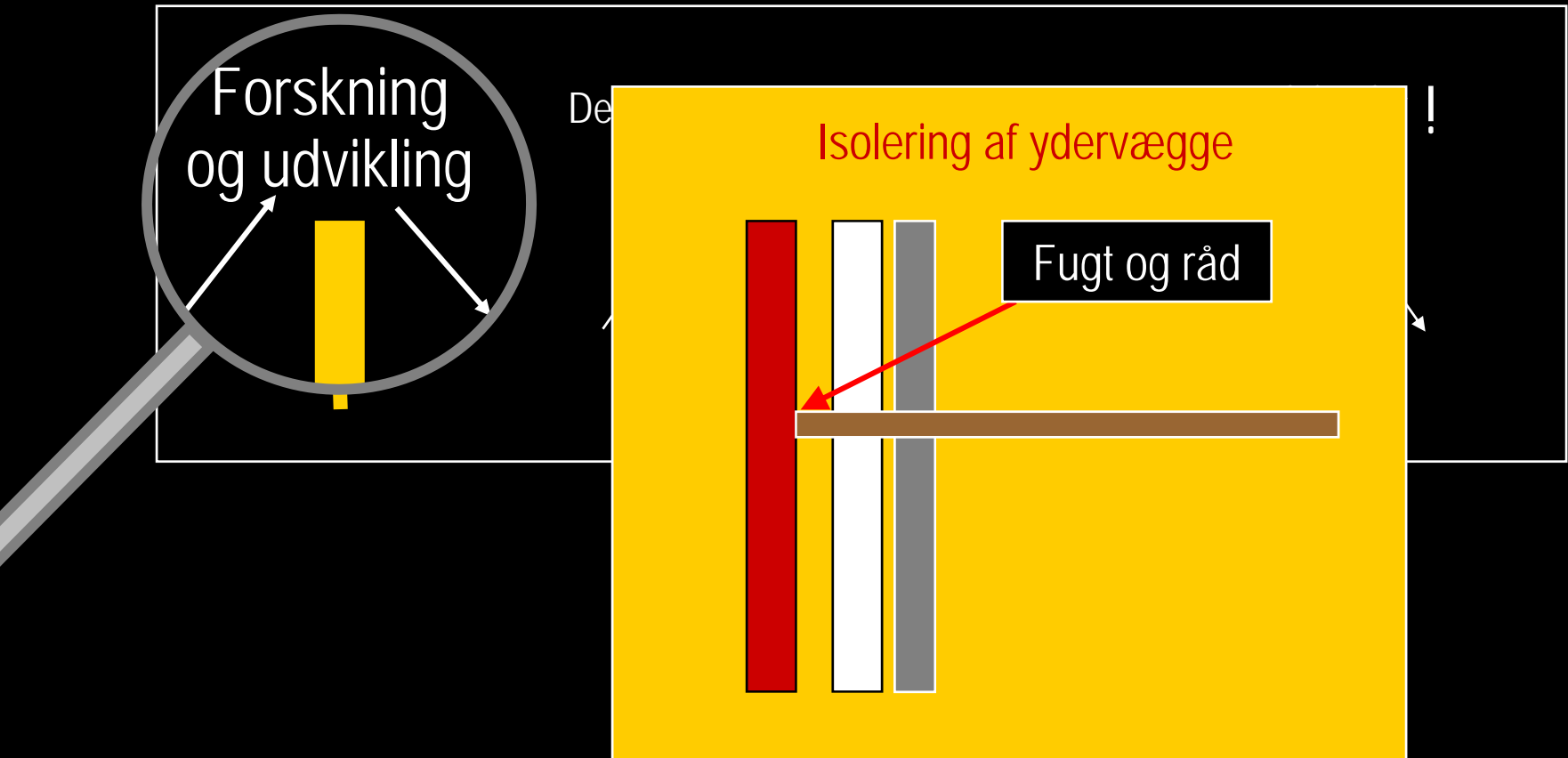


# Energirenovering

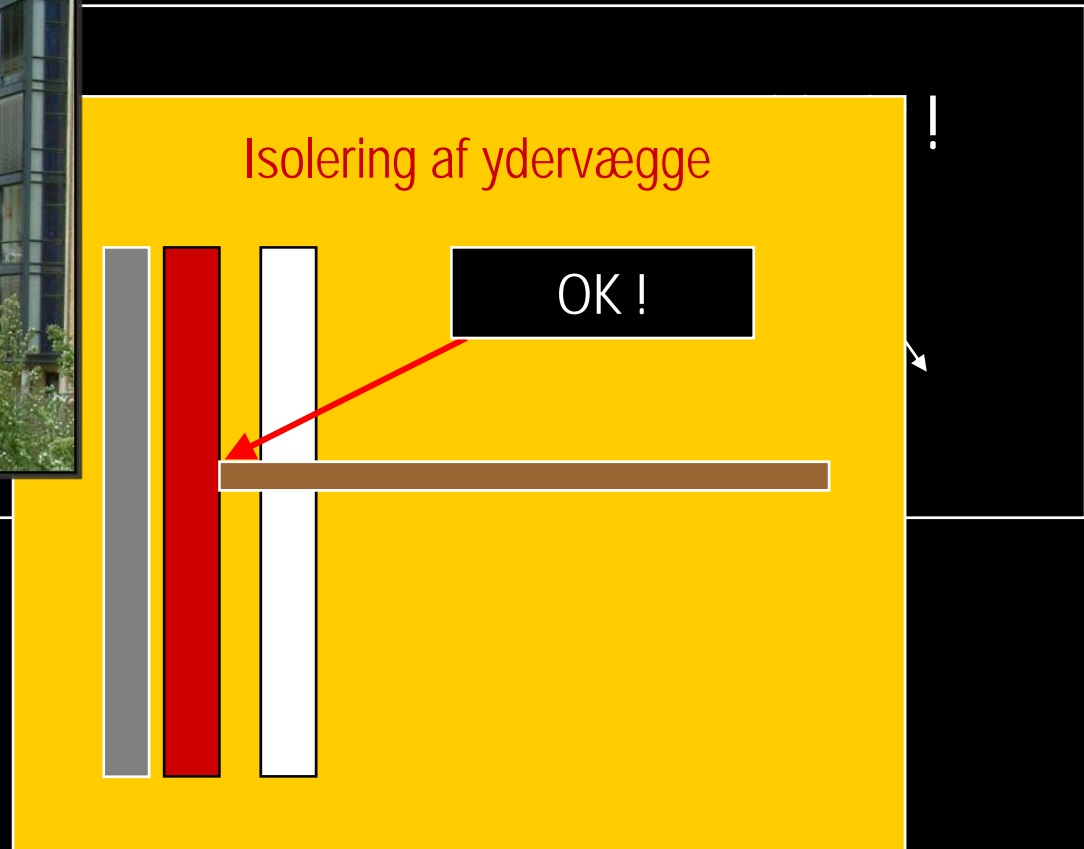
Frem mod 2030

- Klimaskærmsforbedringer 10%

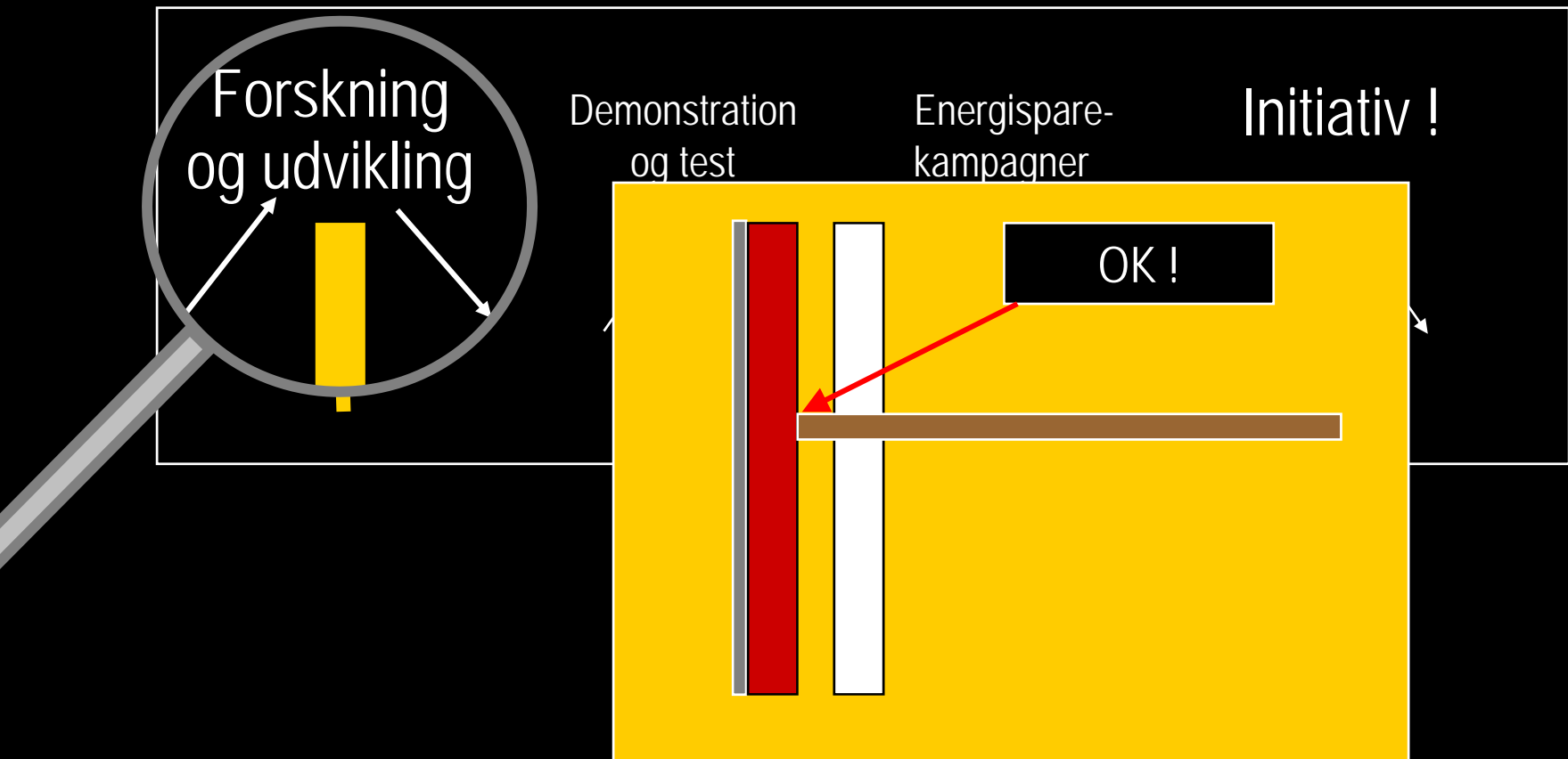
# Barrierer for energibesparelser



# Barrierer for energibesparelser



# Barrierer for energibesparelser



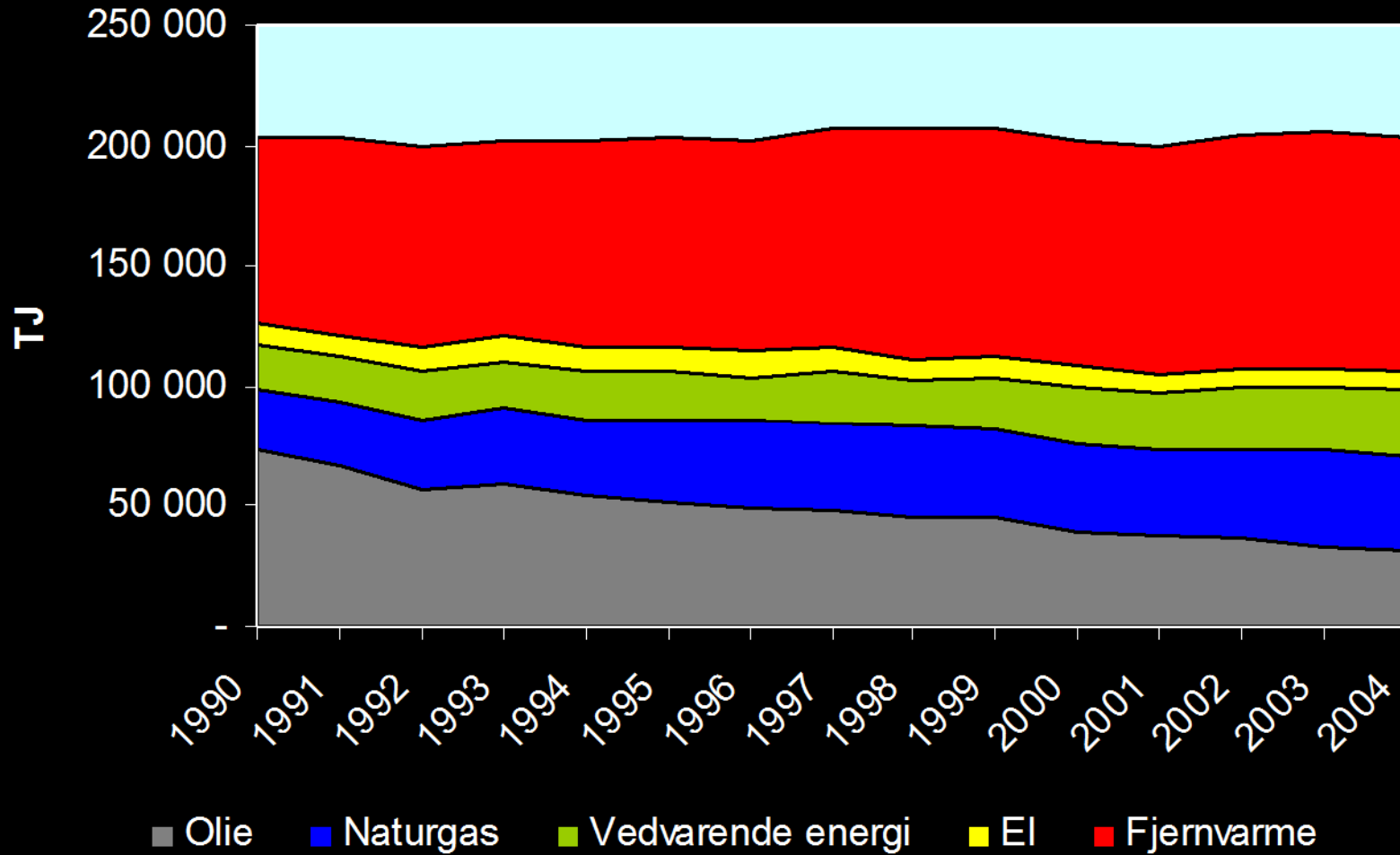


# Energirenovering

Frem mod 2030

- Klimaskærmsforbedringer 10%
- Vindues- og glasrenovering 15%
- Ventilation og tæthed 15 %
- Brugeradfærd mv. 10%

# Varmemarkedet 1990-2005



# Varmemarkedet 1980-2030

