

21. EKI-Fachforum

# Großwärmepumpen

– Projekte und Potenziale in Schleswig-Holstein –

**Begrüßung**

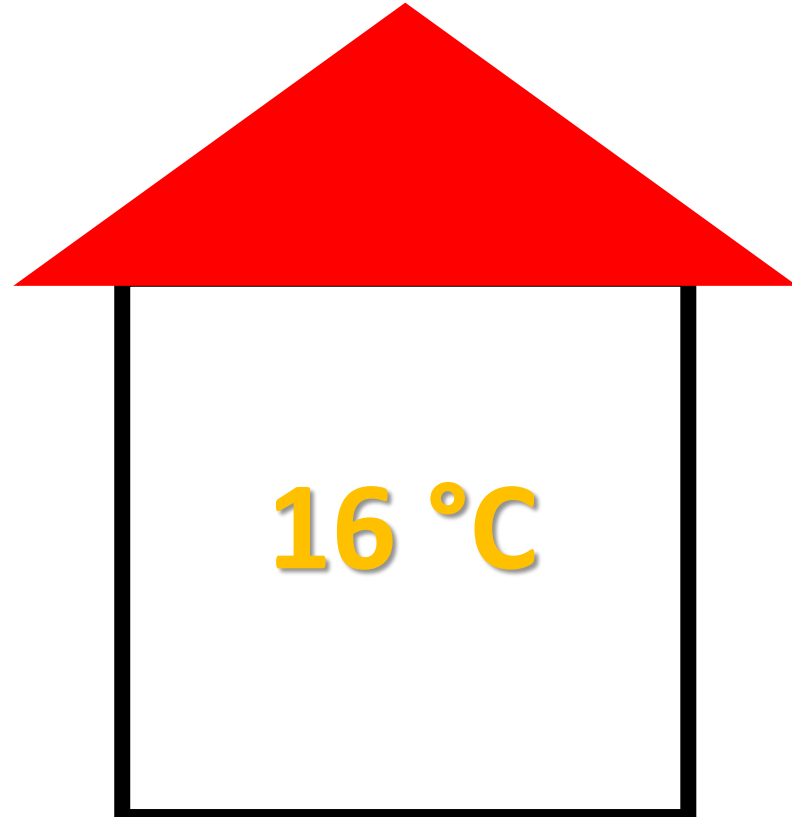
Michael Berger  
FH Westküste / ITE

# Und es geht doch!

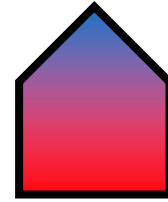
5 °C +

16 °C

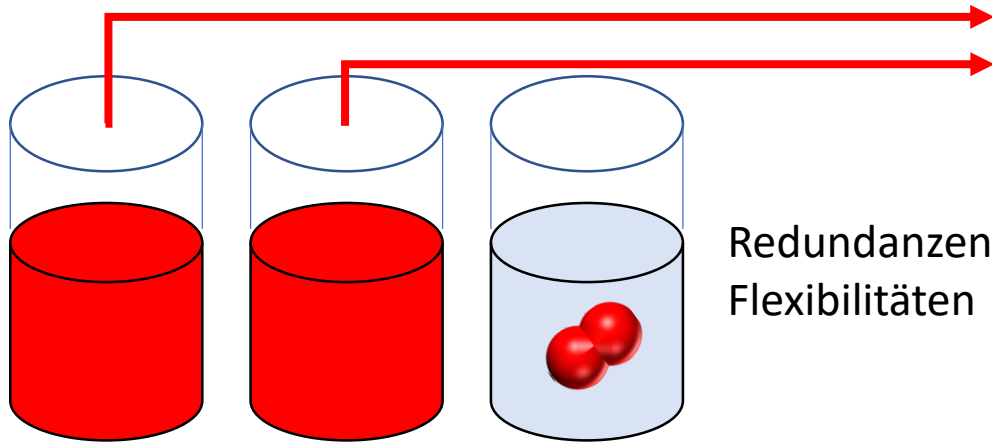
= 21 °C



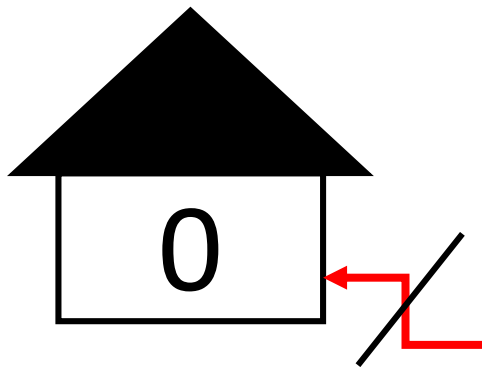
# Gute Ideen



# Systemaspekte

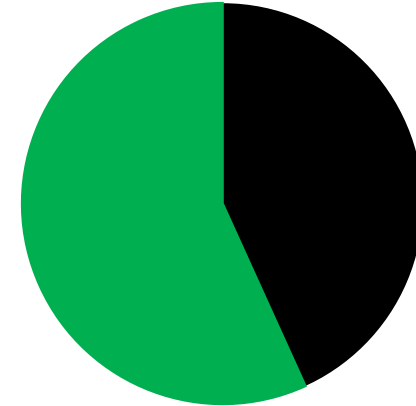


Redundanzen  
Flexibilitäten



Bedarfe

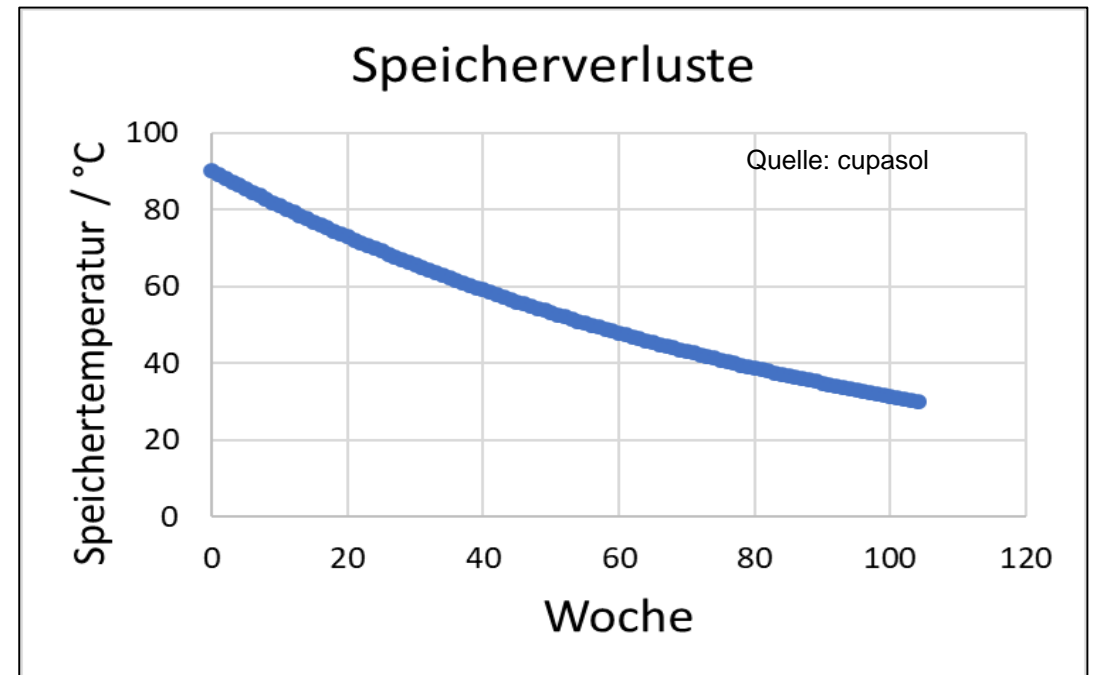
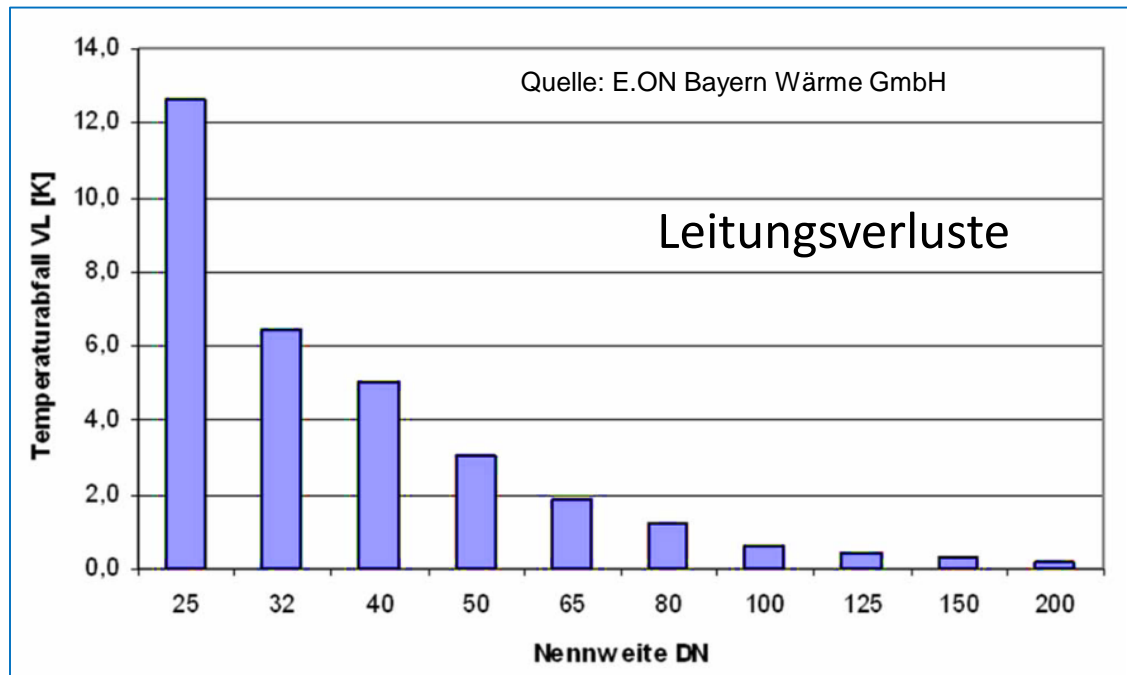
Strom-Mix



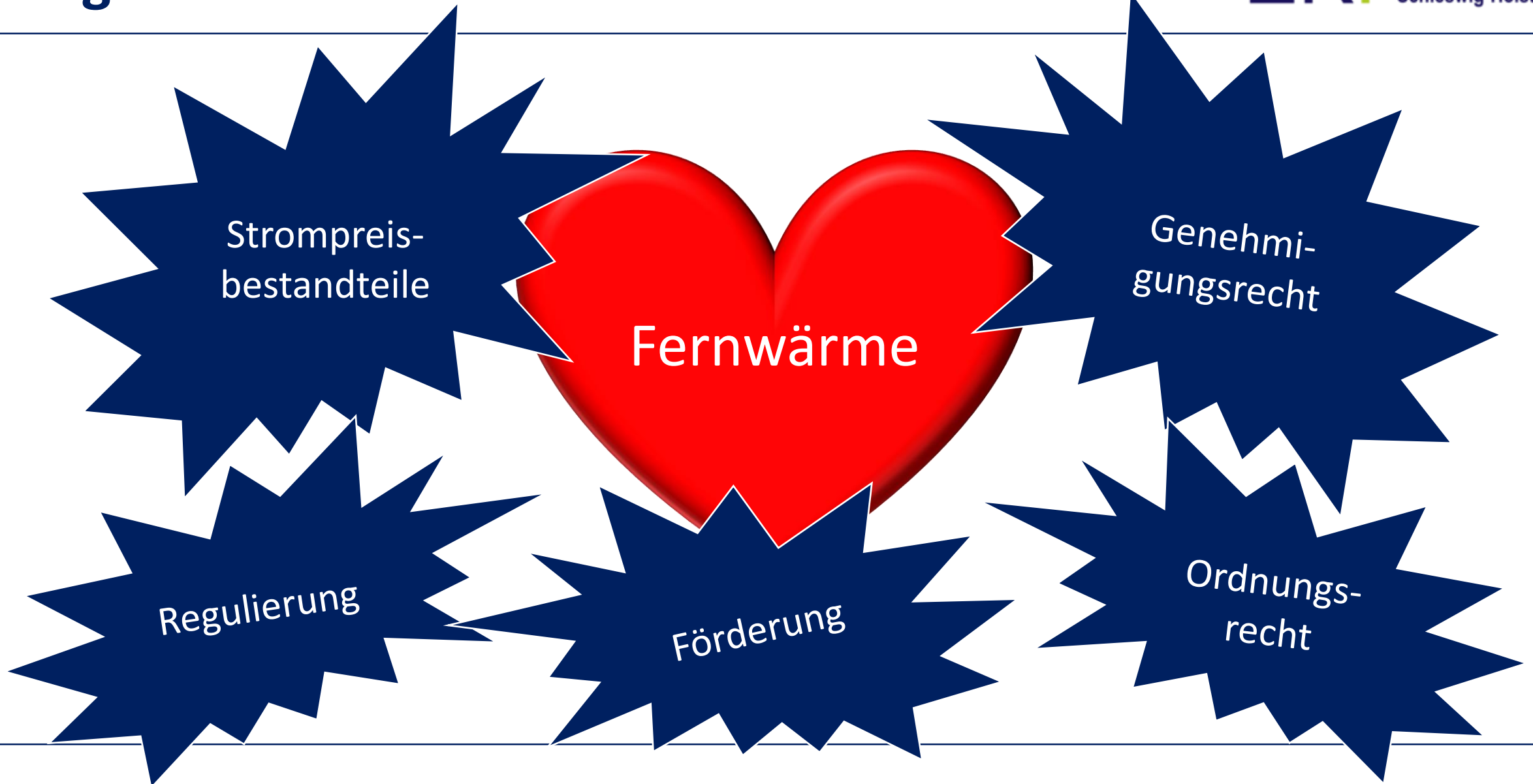
Wettbewerb



# Physikalische Grenzen



Wärmeverluste sind prinzipiell nicht zu verhindern.



# Das Prinzip „Dennoch“



Strom-  
verbrauch  
SH  
14,4 TWh/a

Wärmebedarf  
SH  
40 TWh/a

Es lohnt sich!