

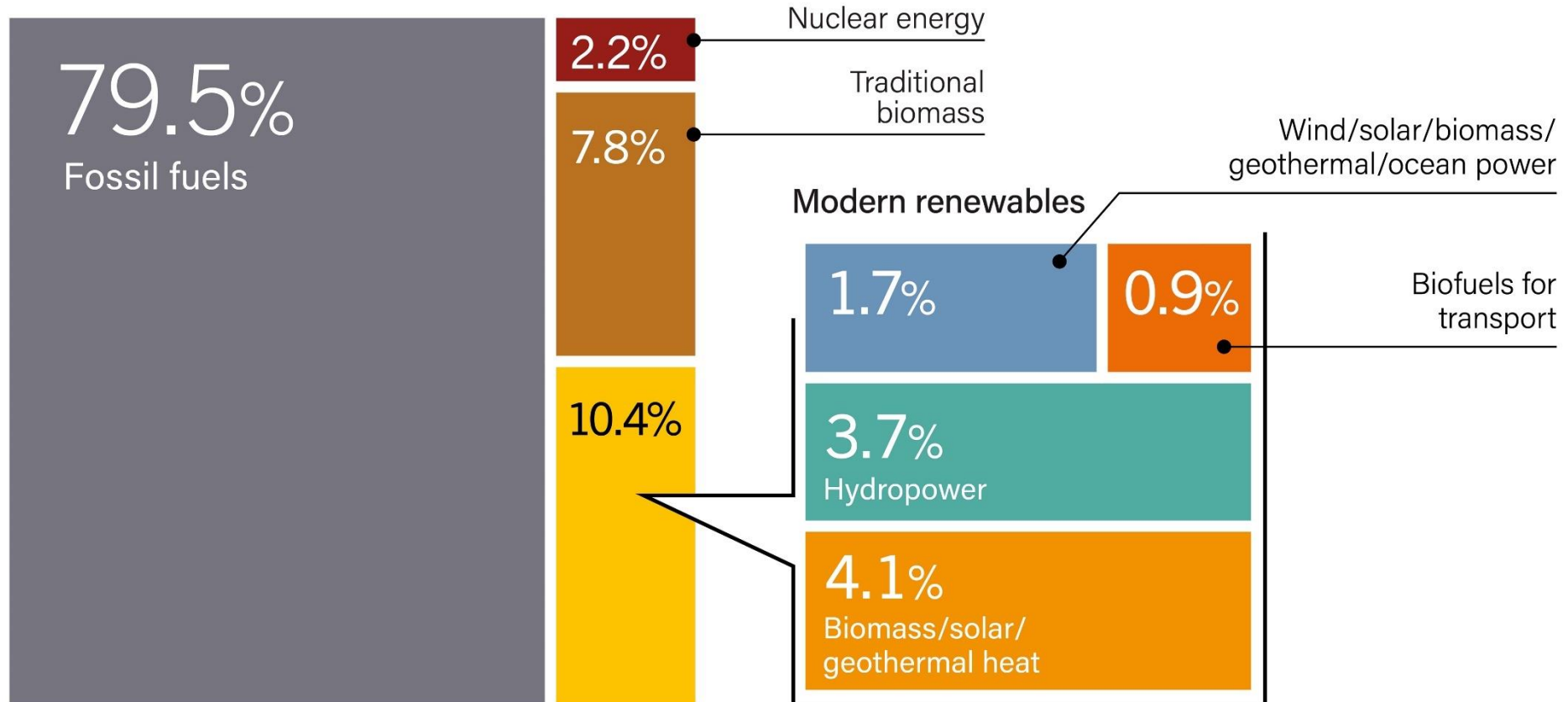
# Solar Thermal in a new era of RES Deployment

DI Roger Hackstock  
Association Austria Solar



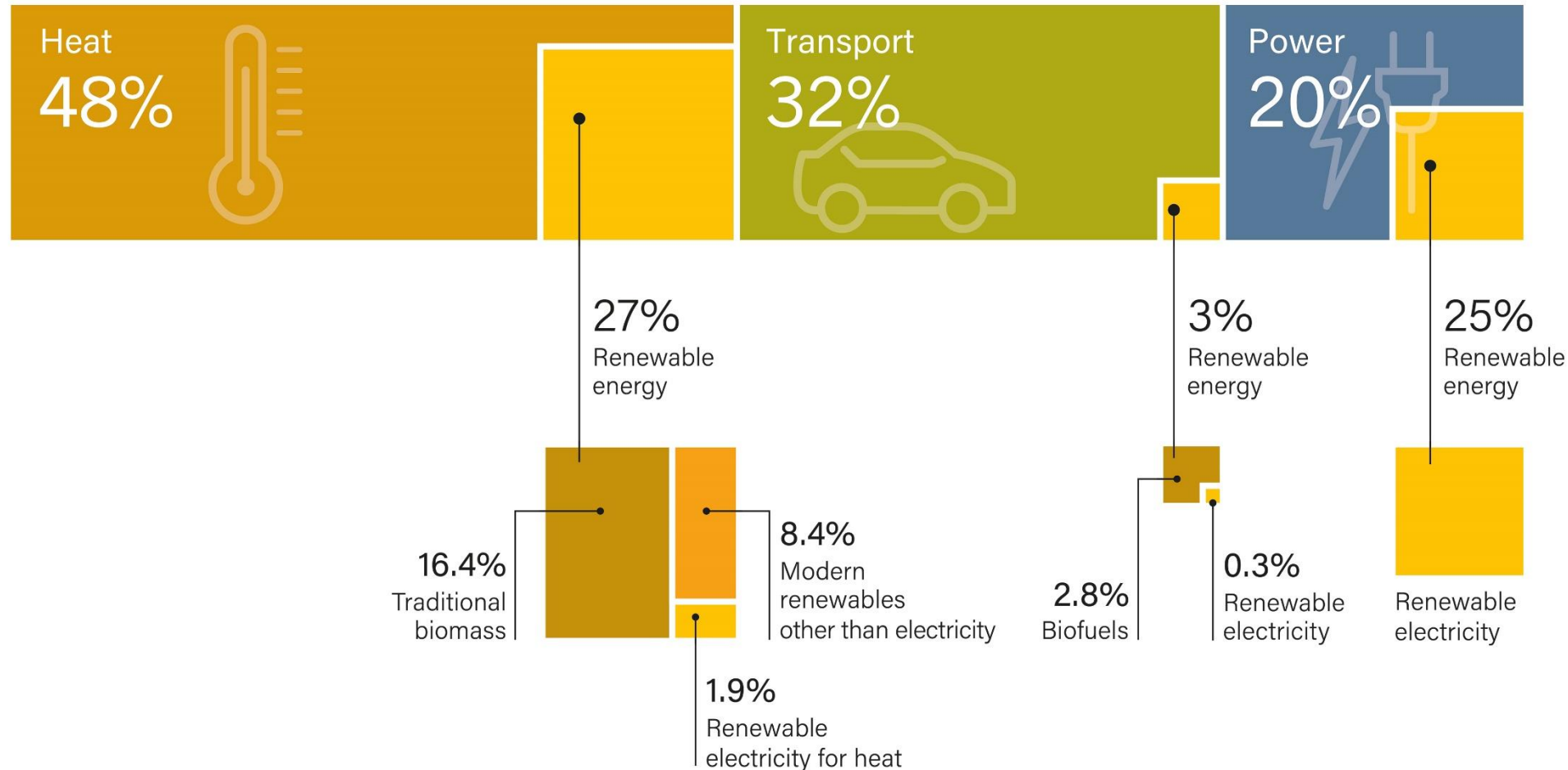
# Renewable energy – a worldwide trend

Estimated Renewable Share of Total Final Energy Consumption, 2016



# Renewable energy in Austria

Renewable Energy in Total Final Energy Consumption, by Sector, 2015



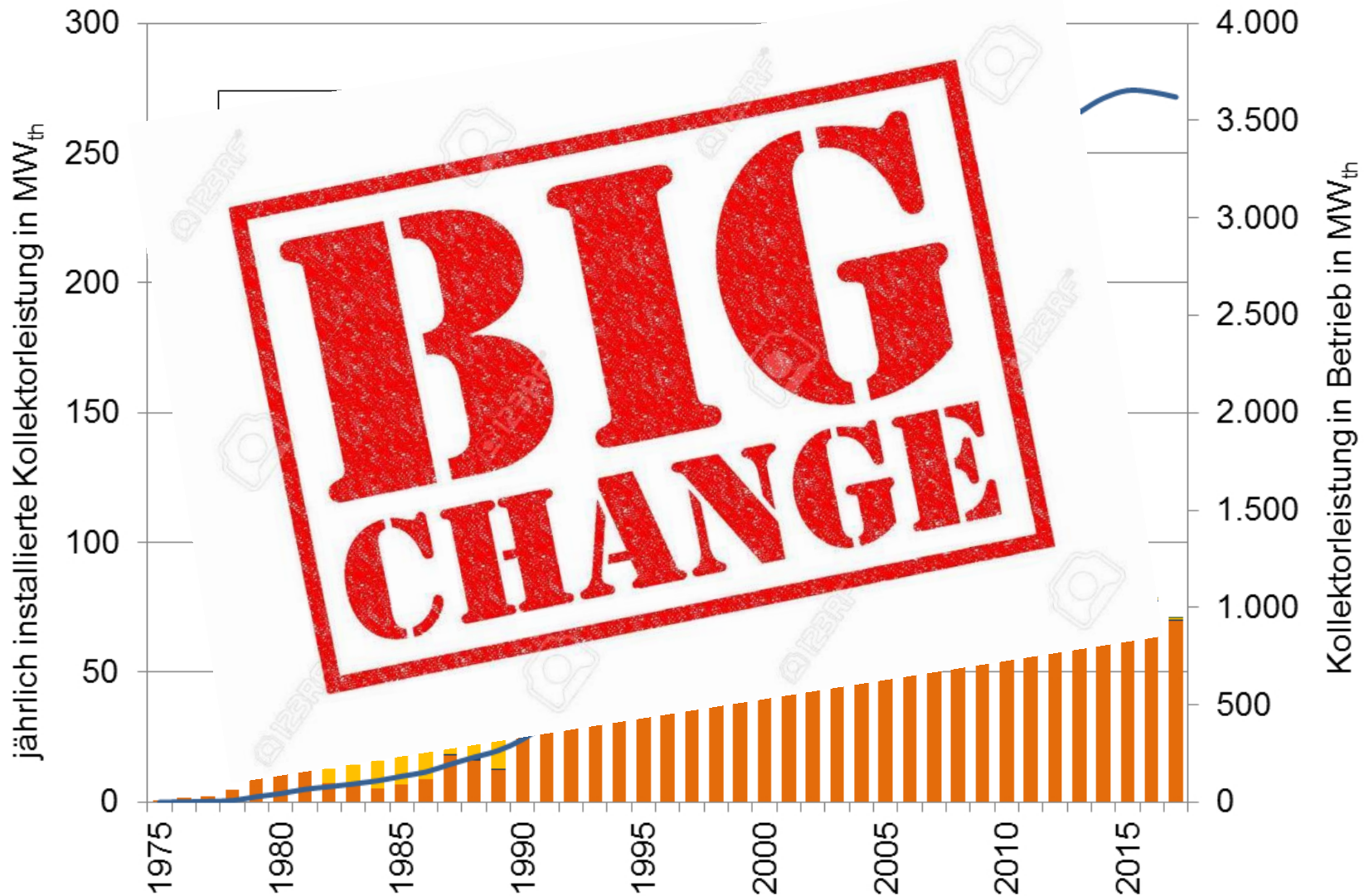
**300.000  
solar systems  
in operation**

**3,6 GW (5,2 Mio. m<sup>2</sup>)  
solar capacity**

**Solar thermal  
„Made in Austria“  
in USA to China**

**Largest plant  
worldwide  
planned for 2020**

# Solar thermal market in transition



# Declining private household market



**Domestic  
space heating**

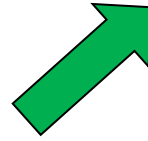


**Domestic hot water**



# 100 % Solar commercial buildings

**Public event hall**  
**100 % Solar heat supply**



# Growing new markets



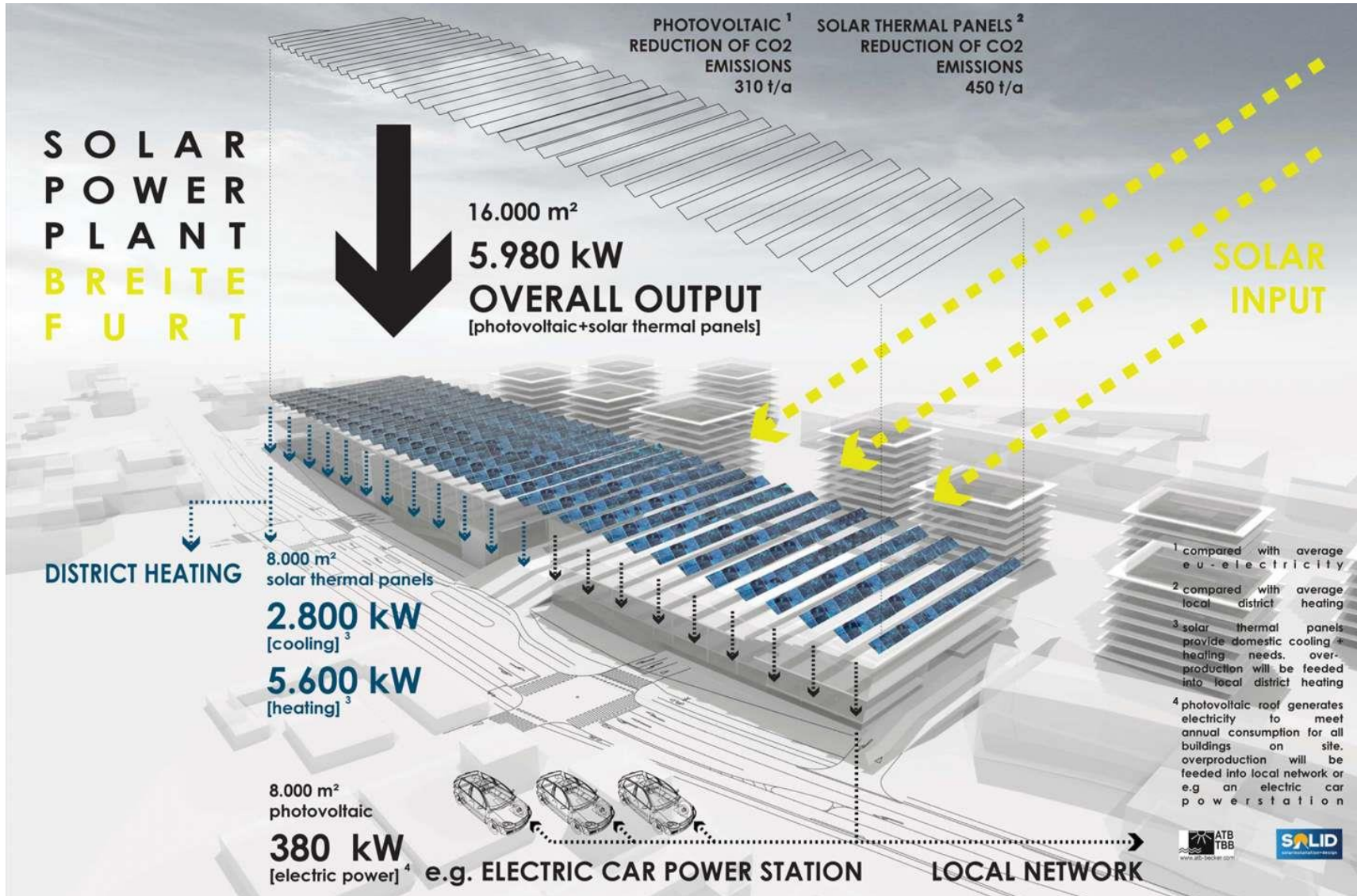
**Solar process heat  
for industrial purpose  
1.400 m<sup>2</sup> (1 MW)**

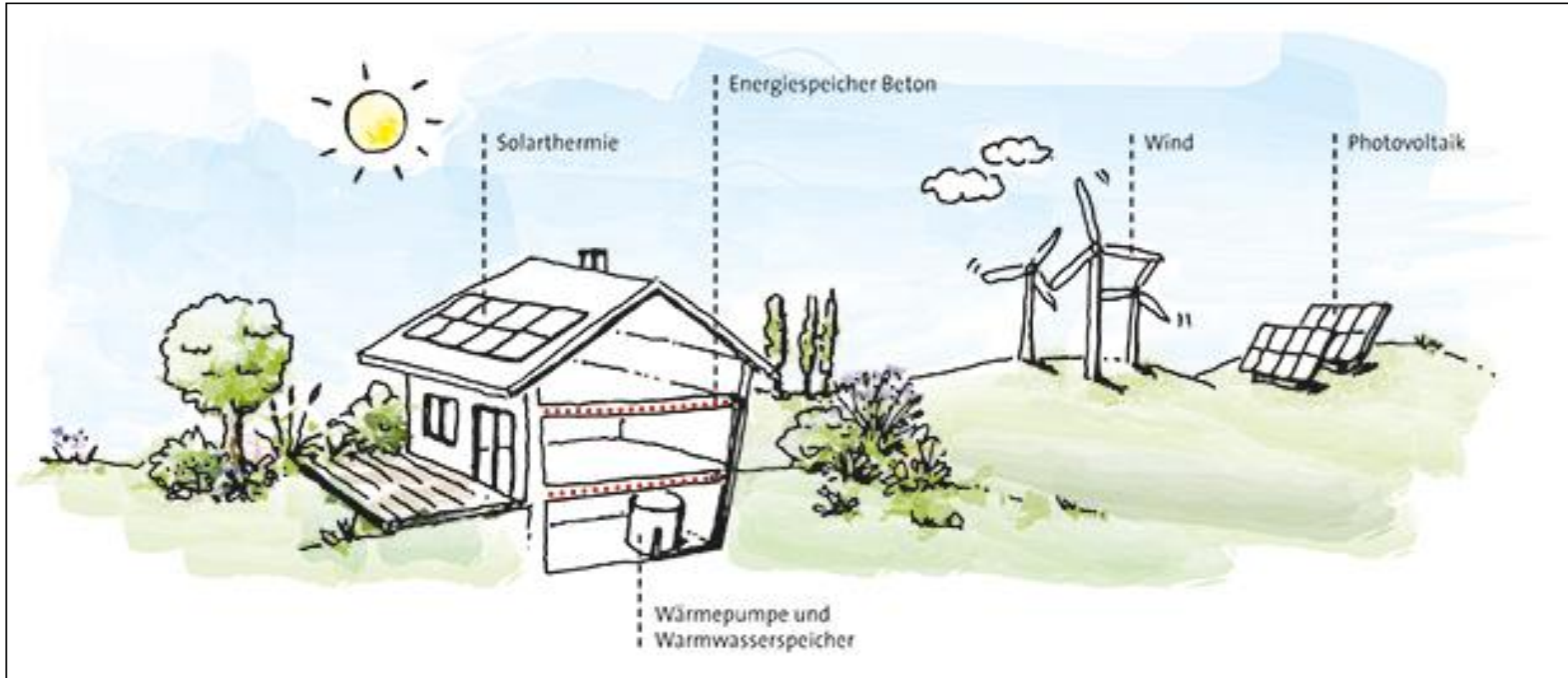
**Solar district heating  
for cities  
7.500 m<sup>2</sup> (5 MW)**





# Combination of power & heat supply





## The house as a flexible storage

# Combining Power/Heat/Mobility @ home



# Future Solar House may be very different



# We need to harvest the sun!

