

**WALDHAUSER ENERGIE +
+ HERMANN HAUSTECHNIK
INGENIEURE**

SIMULATIONEN FÜR DEN NEUBAU AMT FÜR UMWELT UND ENERGIE BASEL-STADT

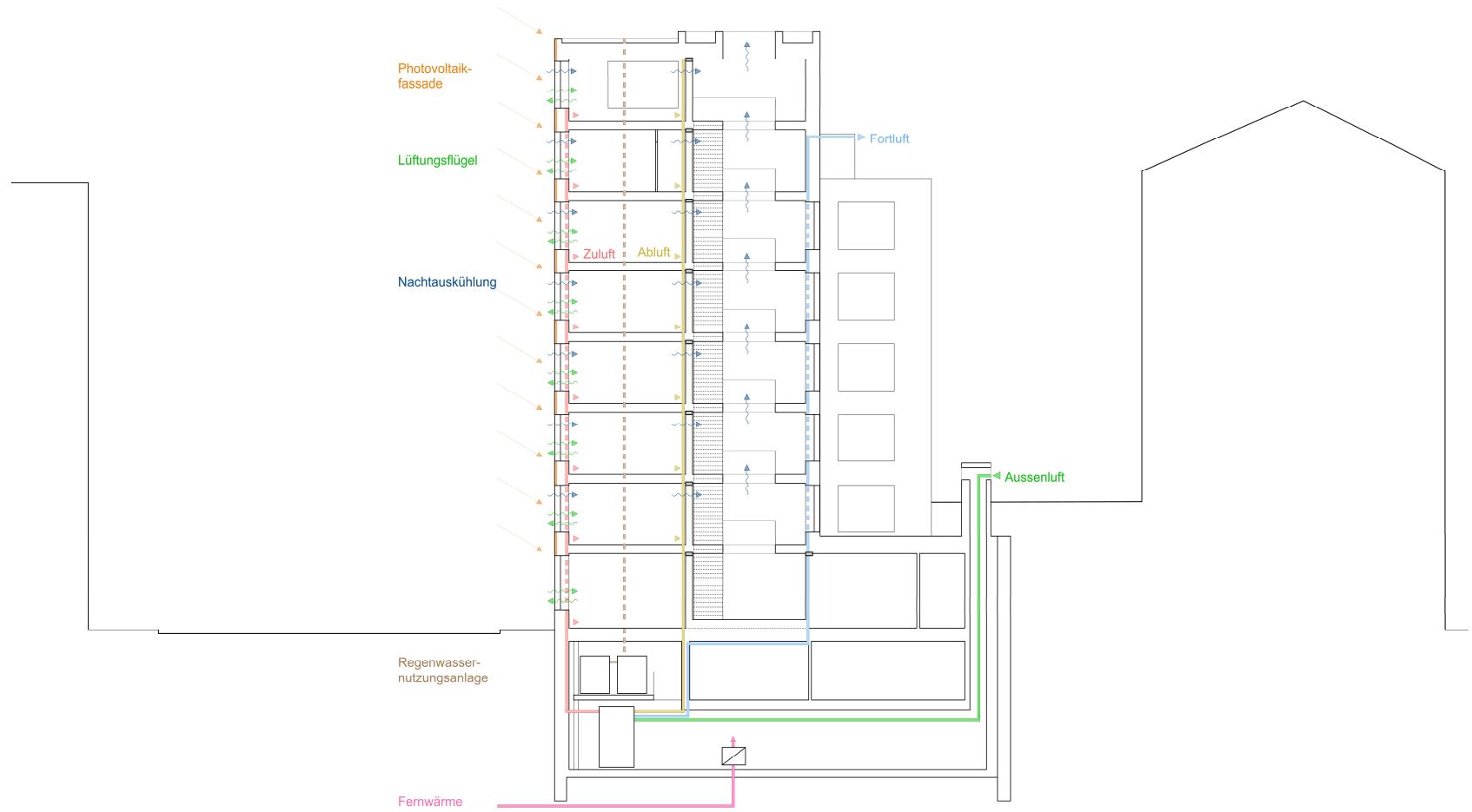
2. Energieapéro beider Basel 2019

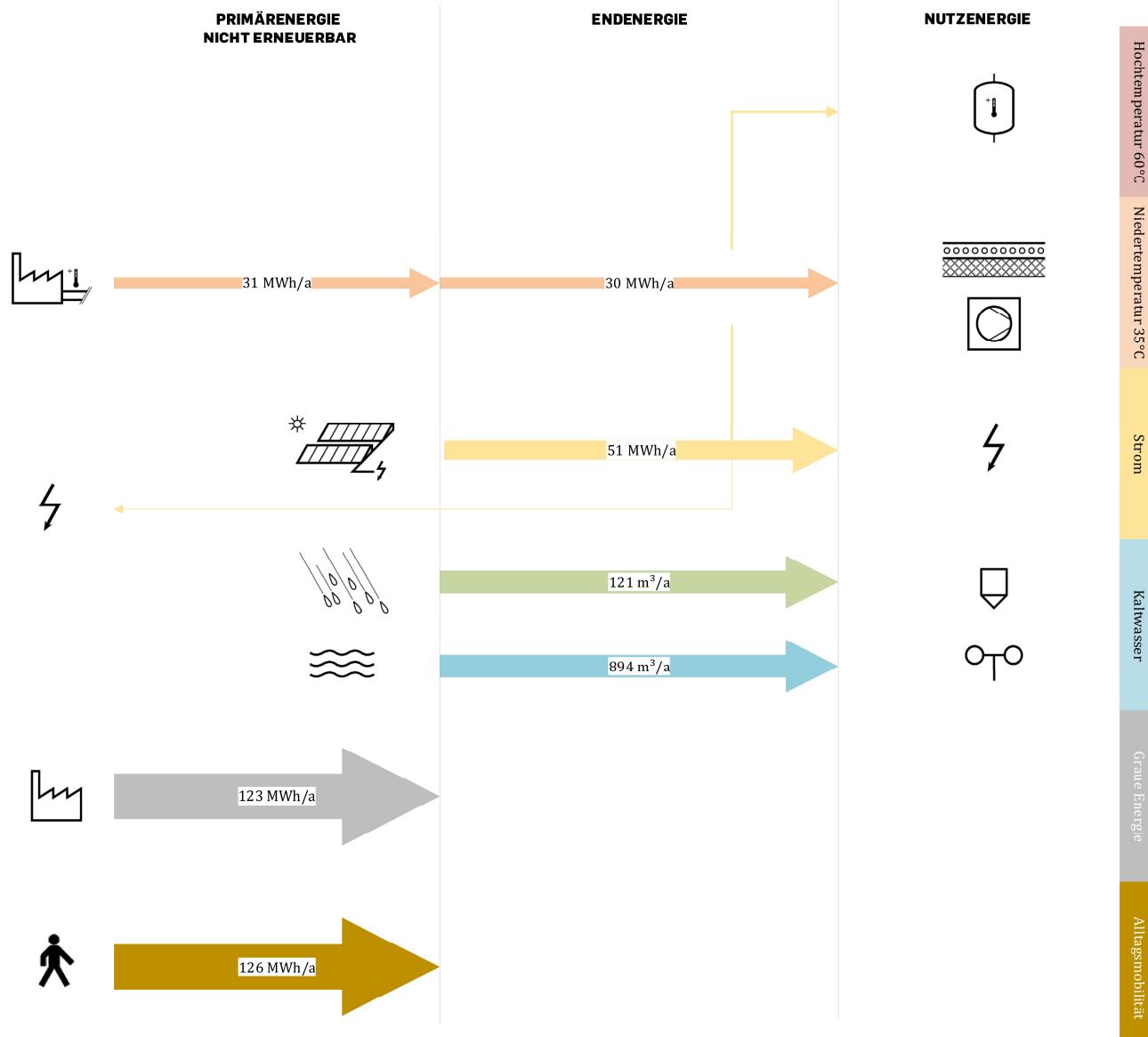
Gabriel Borer, Waldhauser + Hermann AG

"Wenn die technische Entwicklung der Lebensqualität dient, sind wir einverstanden.
Sonst nicht."

Vittorio Magnago Lampugnani, "Die Modernität des Dauerhaften", 1990

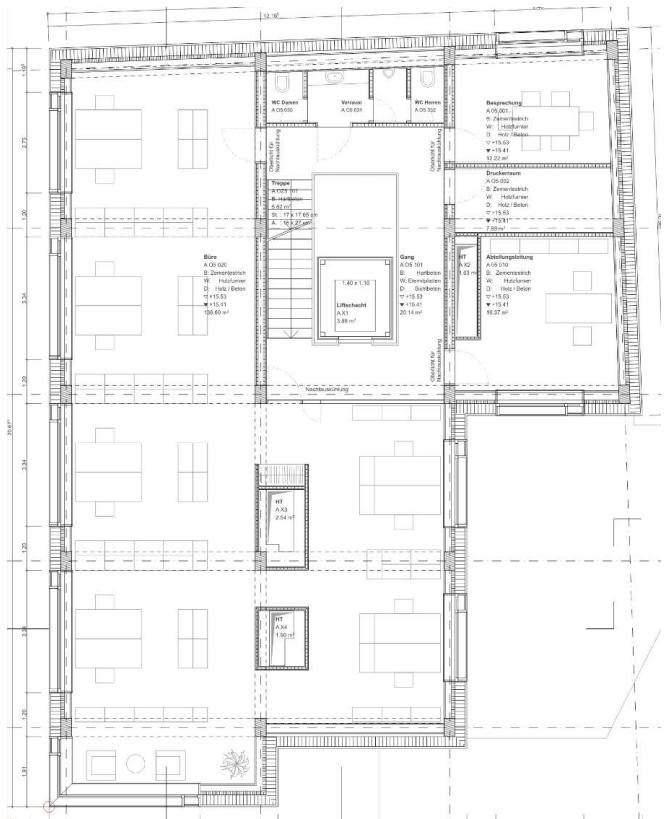
Gesamtenergiekonzept



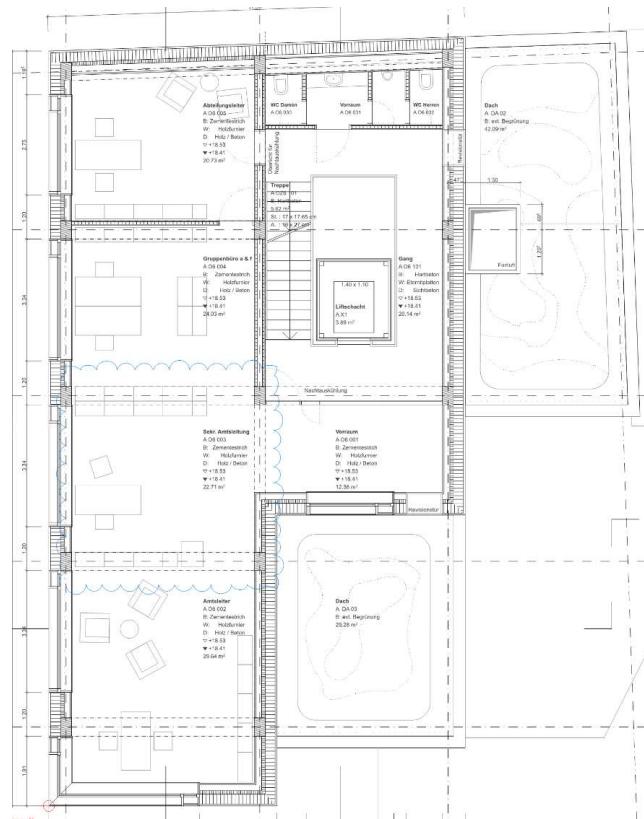


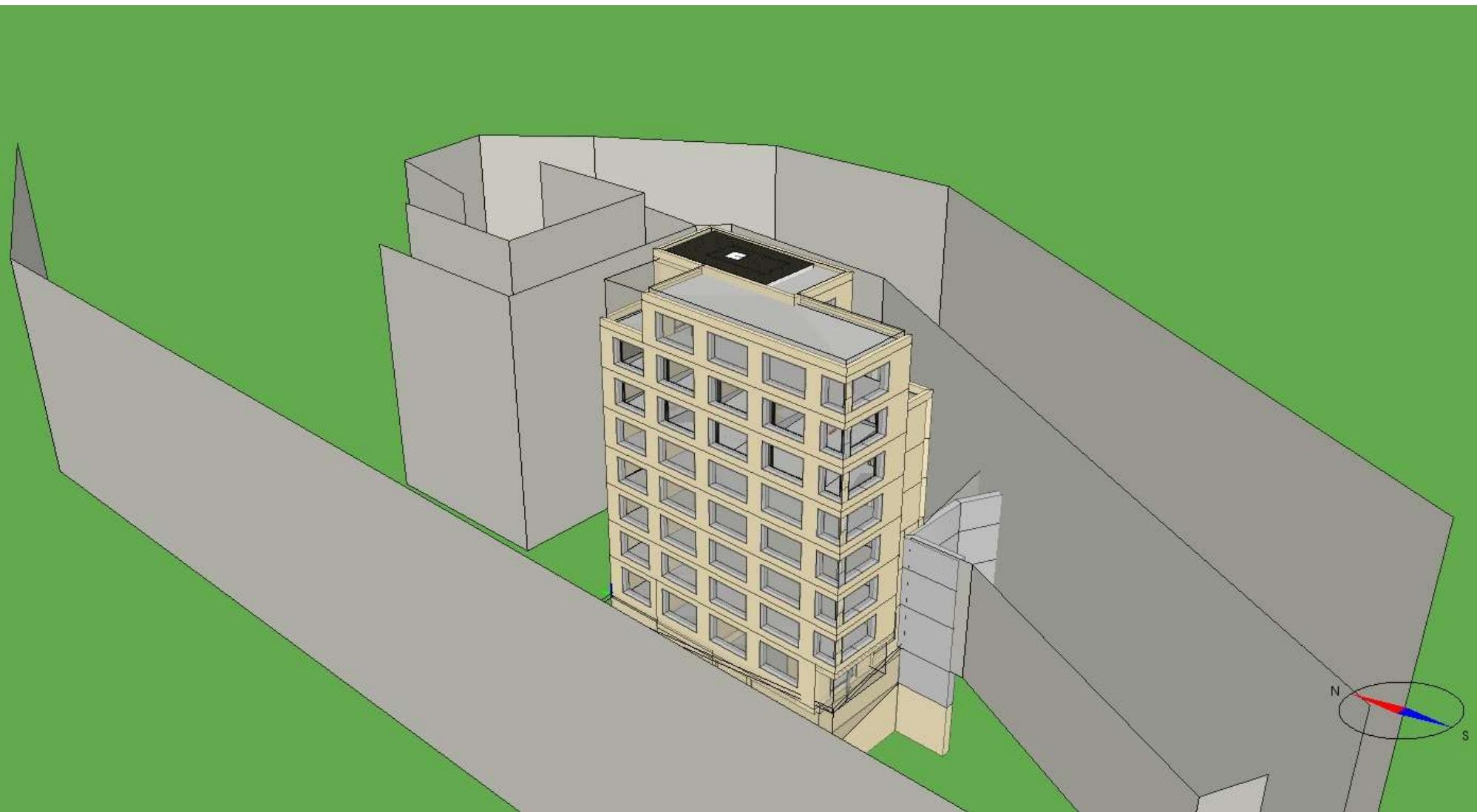
Der Weg ist das Ziel

5. OBERGESCHOSS

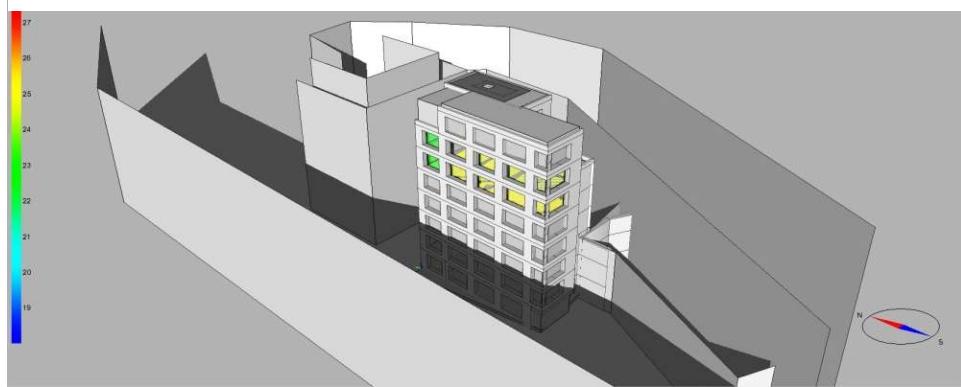


6. OBERGESCHOSS

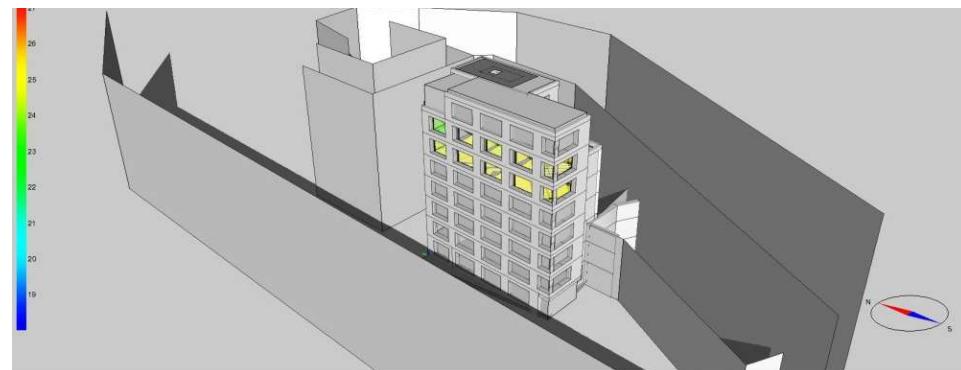




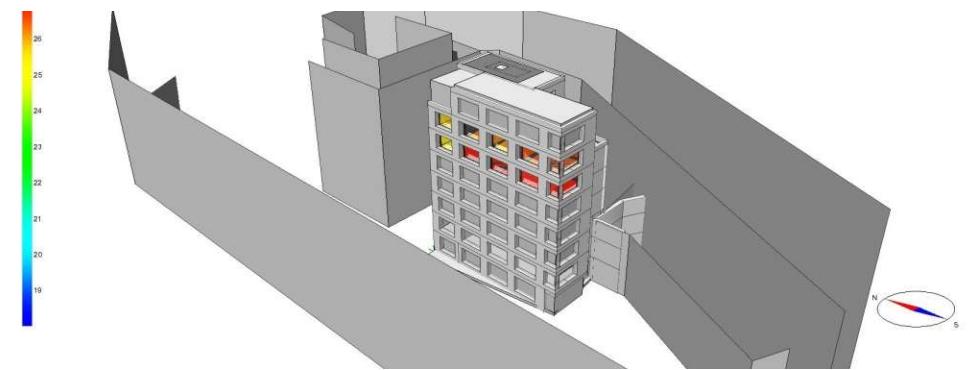
21. MÄRZ UM 16:00 UHR



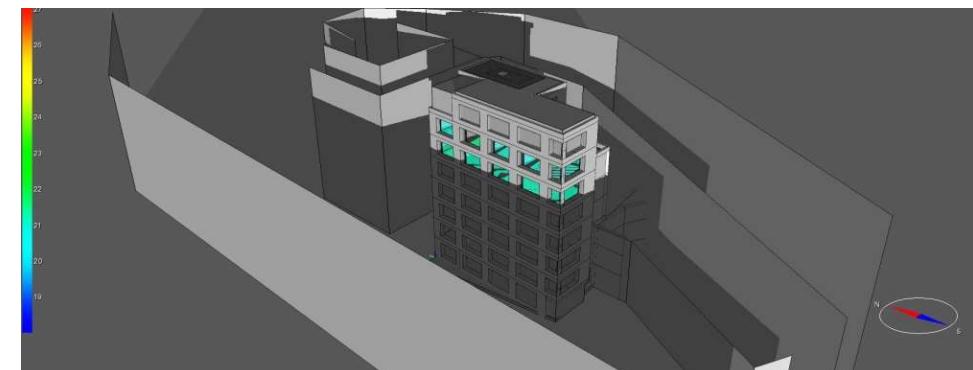
21. SEPTEMBER UM 16:00 UHR



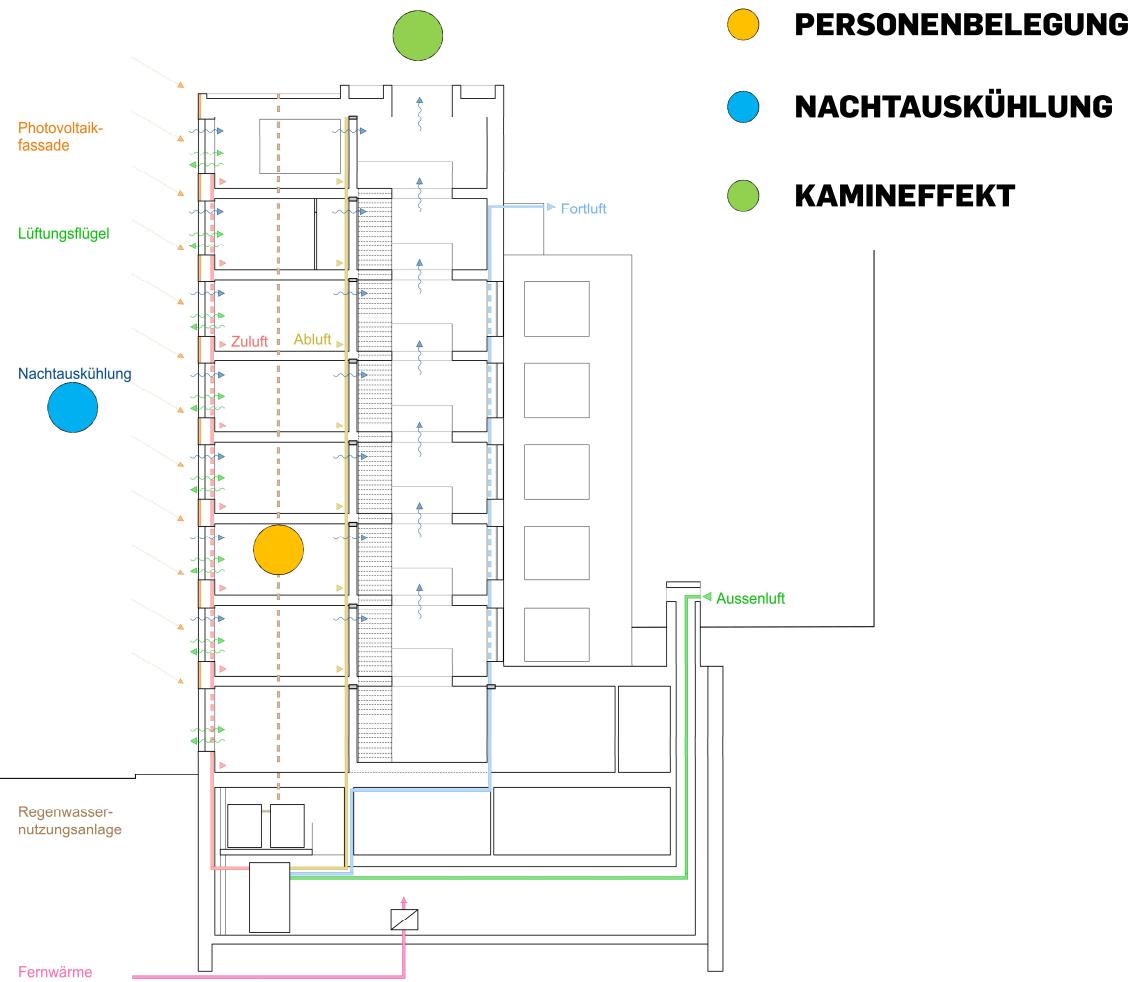
21. JUNI UM 16:00 UHR

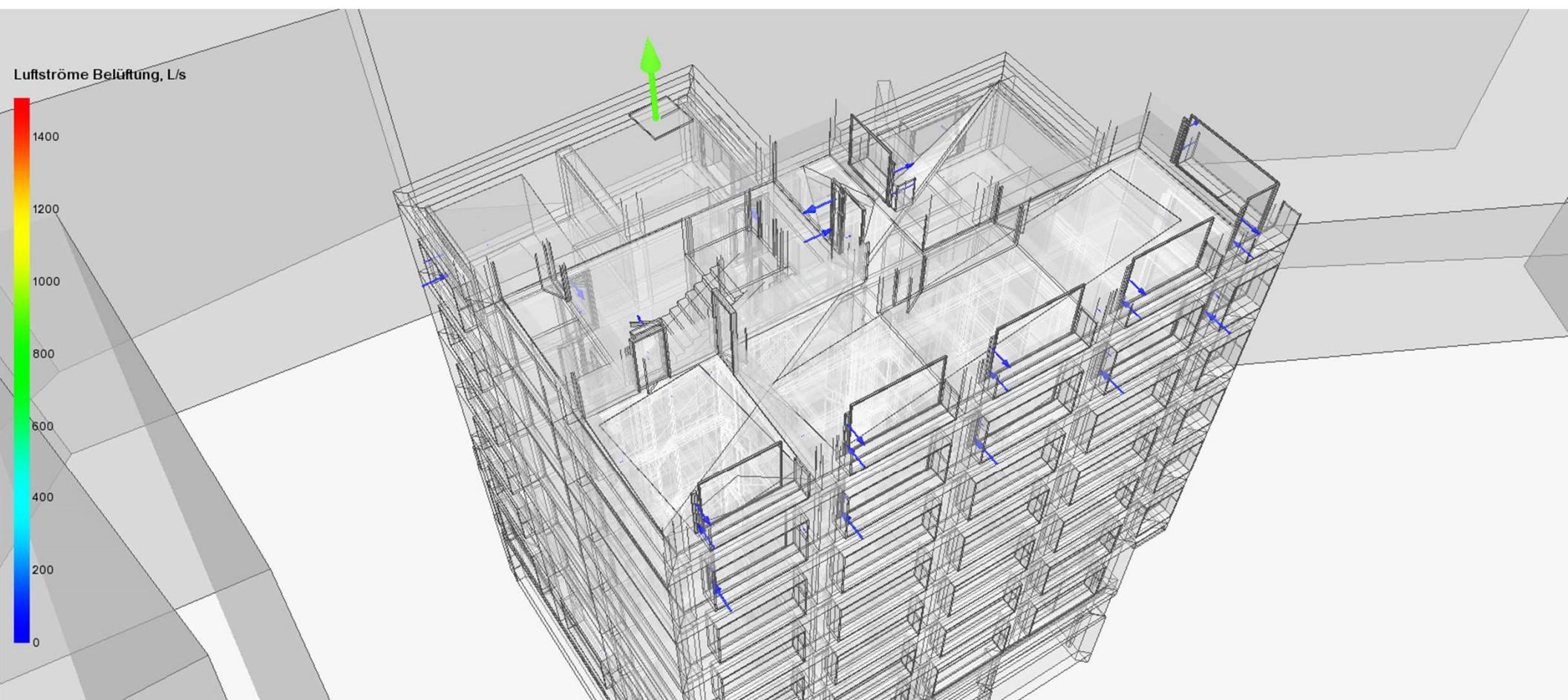


21. DEZEMBER UM 16:00 UHR

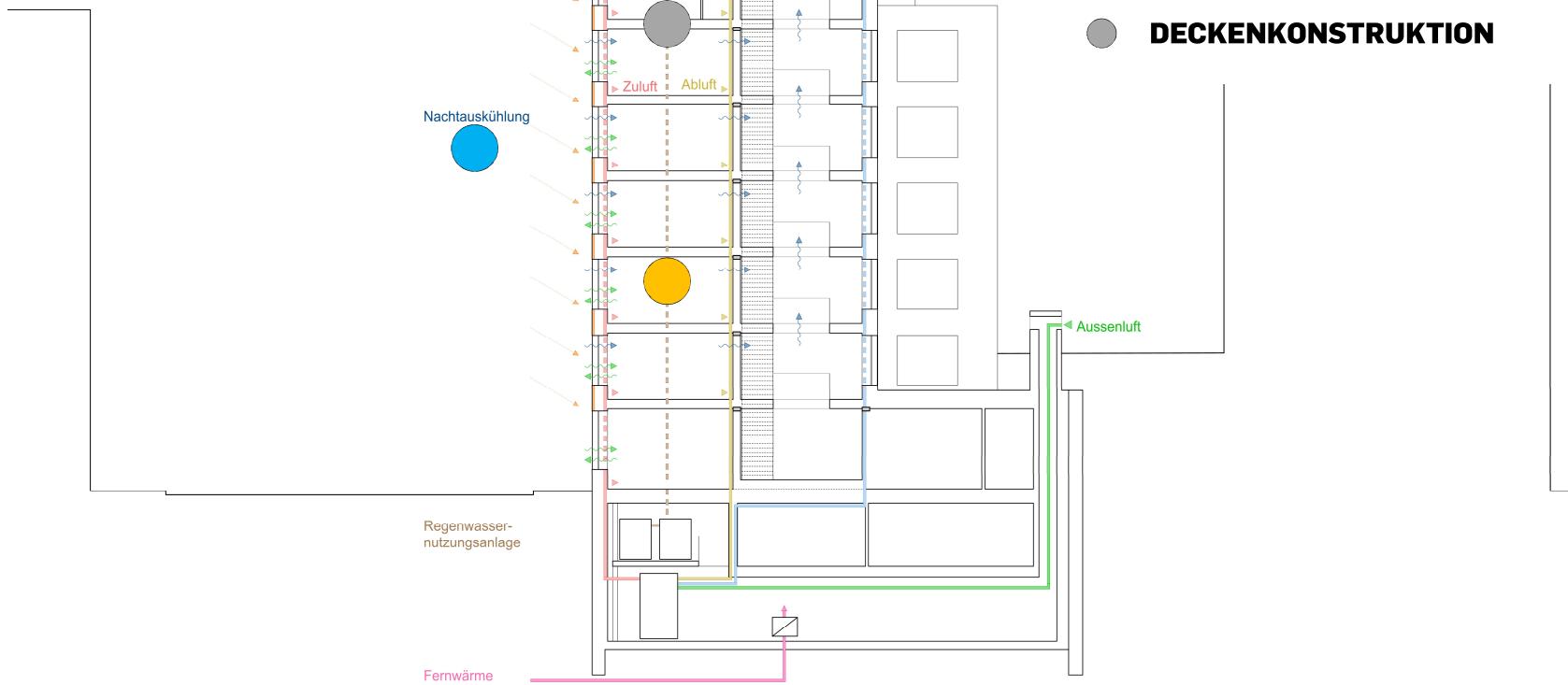


THEMENBEREICHE



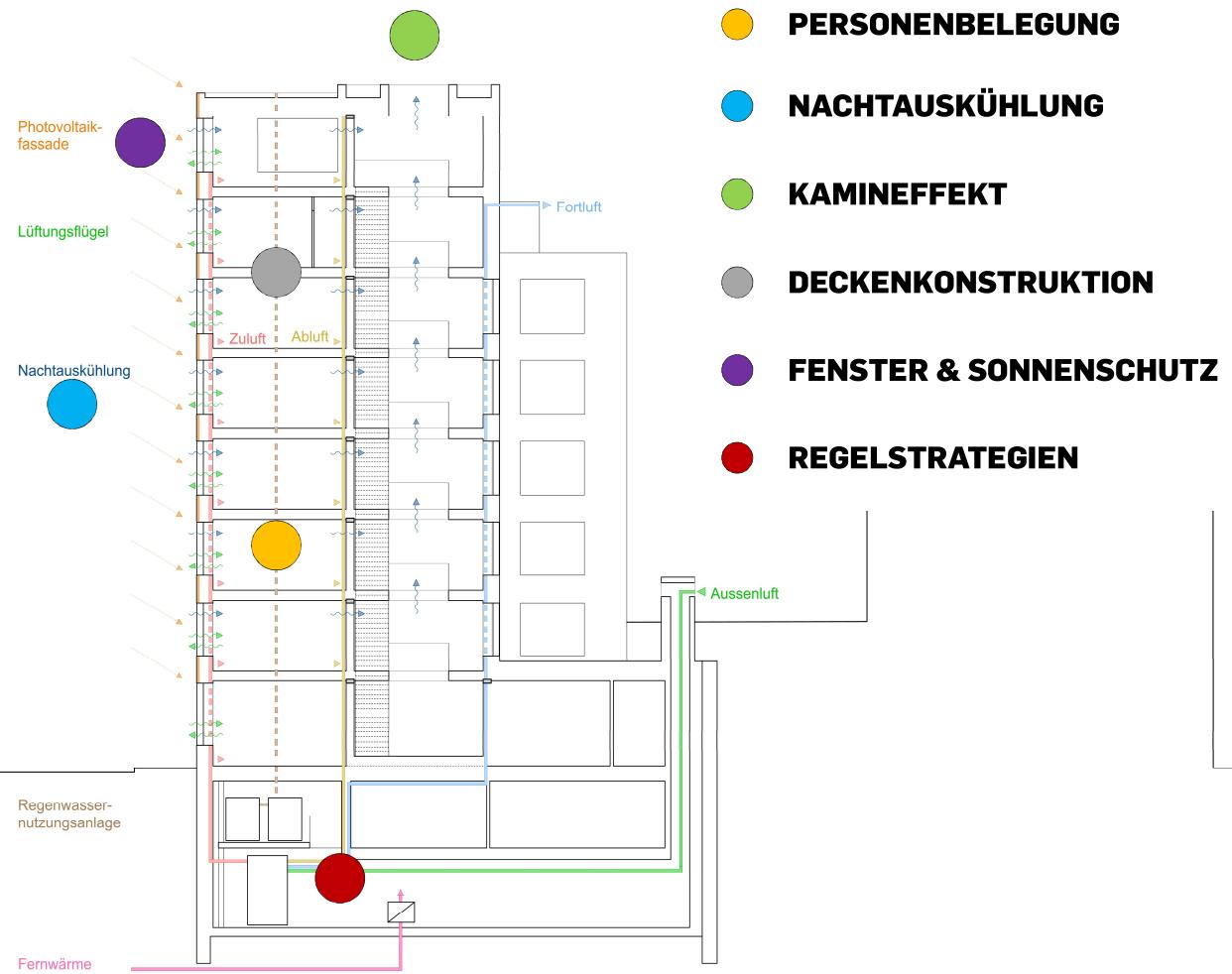


THEMENBEREICHE



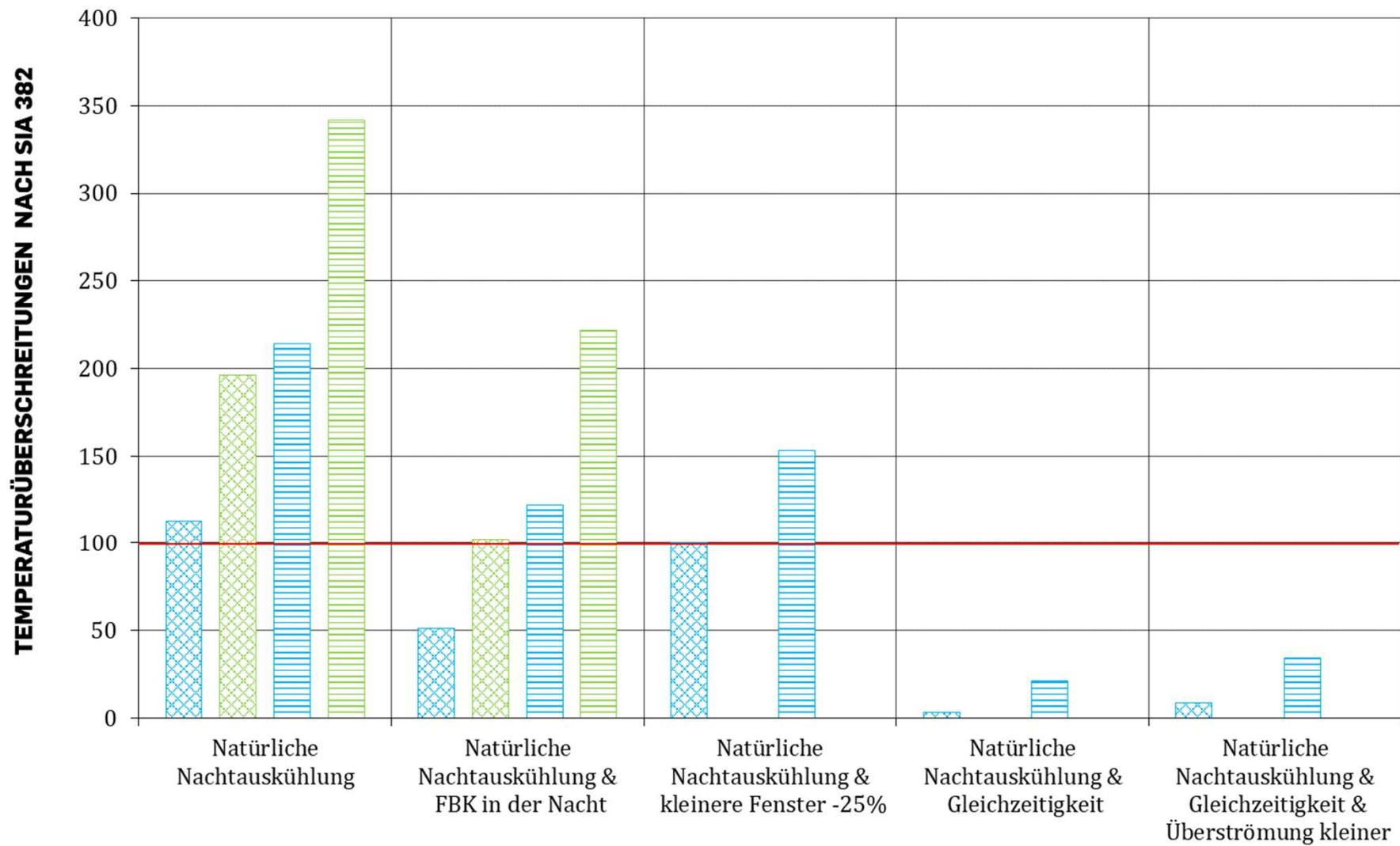


THEMENBEREICHE



Konzentrat aus der Variantenstudie

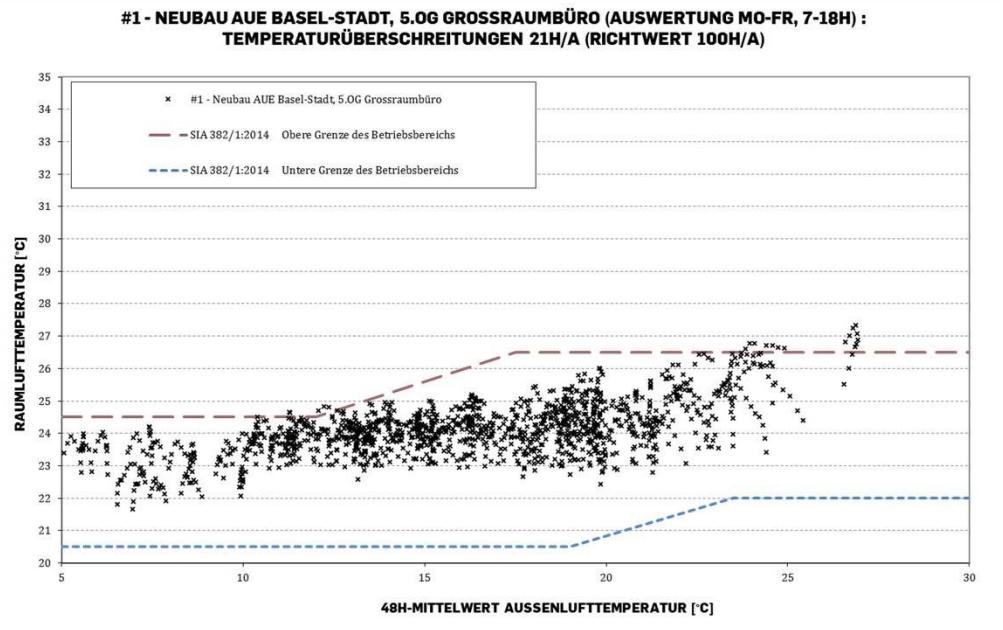
▣ g-Wert 32% ; Stahlbeton □ g-Wert 48% ; Stahlbeton ▨ g-Wert 32% ; Holzverbund ▨ g-Wert 48% ; Holzverbund



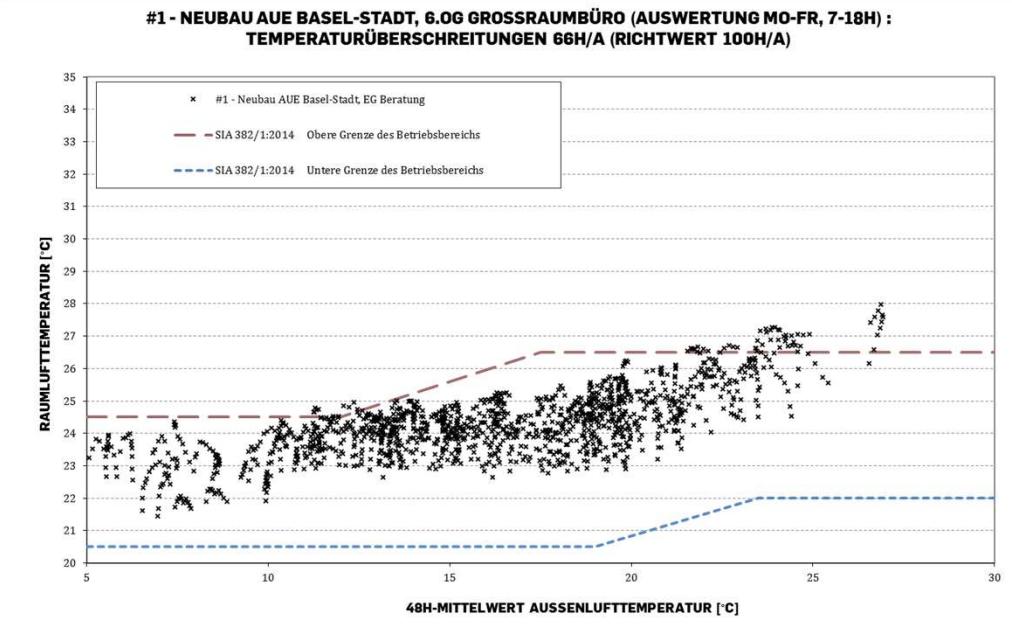
Projektvariante

SOMMERLICHER WÄRMESCHUTZ NACH SIA 382

5. OBERGESCHOSS

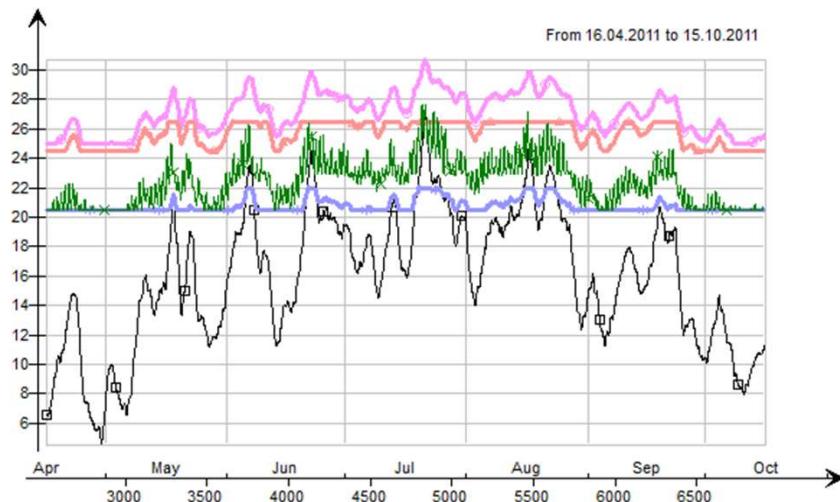


6. OBERGESCHOSS

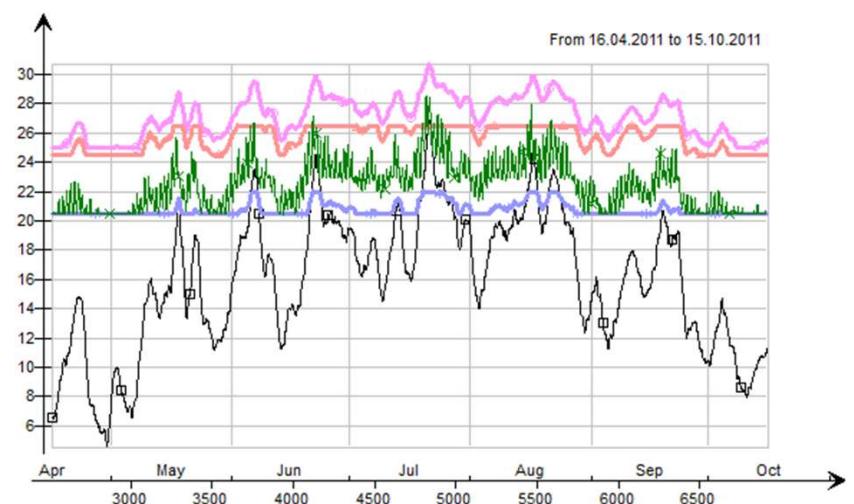


SOMMERLICHER WÄRMESCHUTZ NACH SIA 180 C.1

5. OBERGESCHOSS



6. OBERGESCHOSS



Fazit

- natürliche Nachtauskühlung
- Lüftungsflügel
- Kamineffektes
- Simulationen
- Bereitschaft der Bauherrschaft
- Grenzen

"Man ist nie alleine intelligent."

Ruth Dreifuss, Altbundesrätin, 2013

Ende