

Boltshauser Architekten

B3 Kolb / Schnetzer Puskas Ingenieure

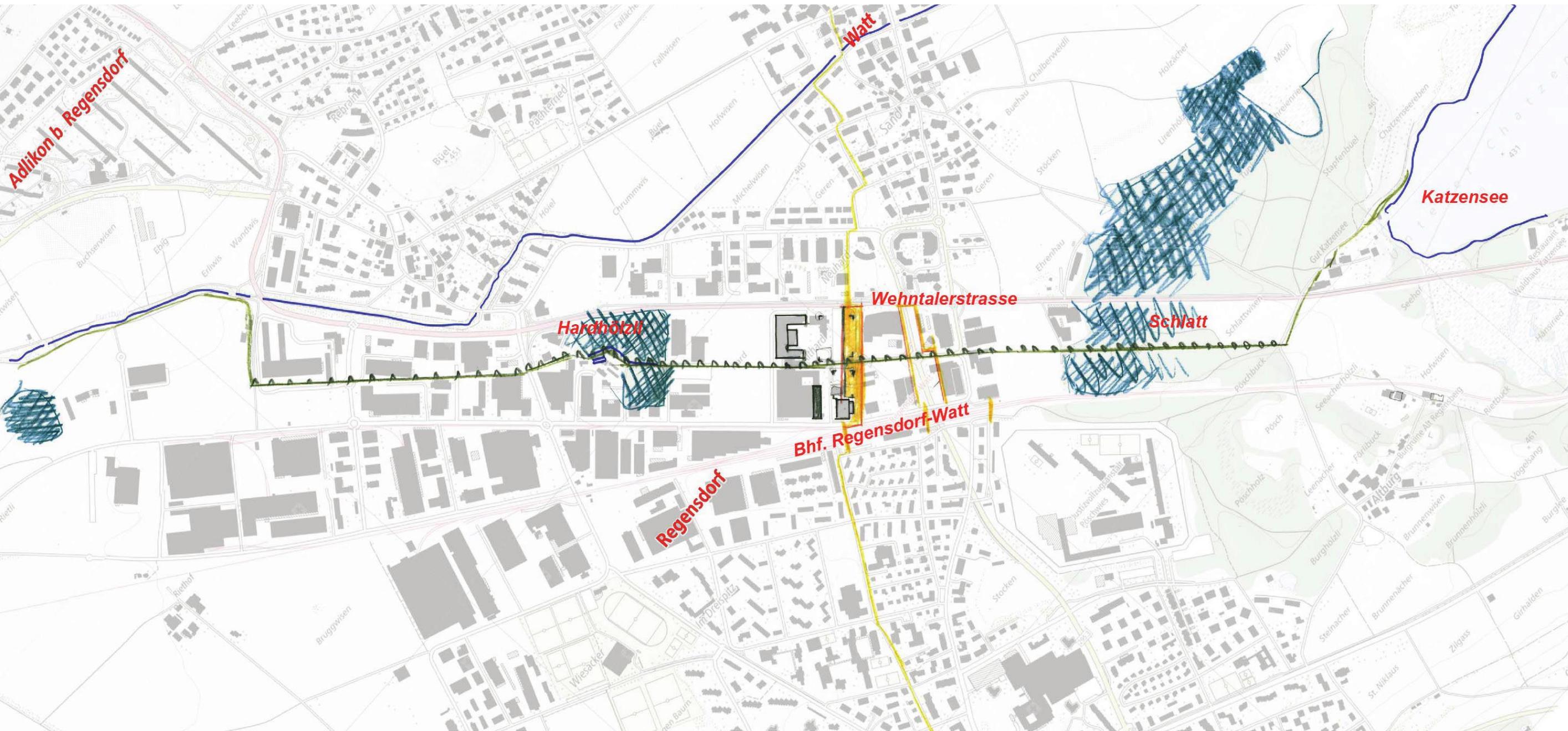
Holzhochhaus H1 auf dem Zwhatt-Areal

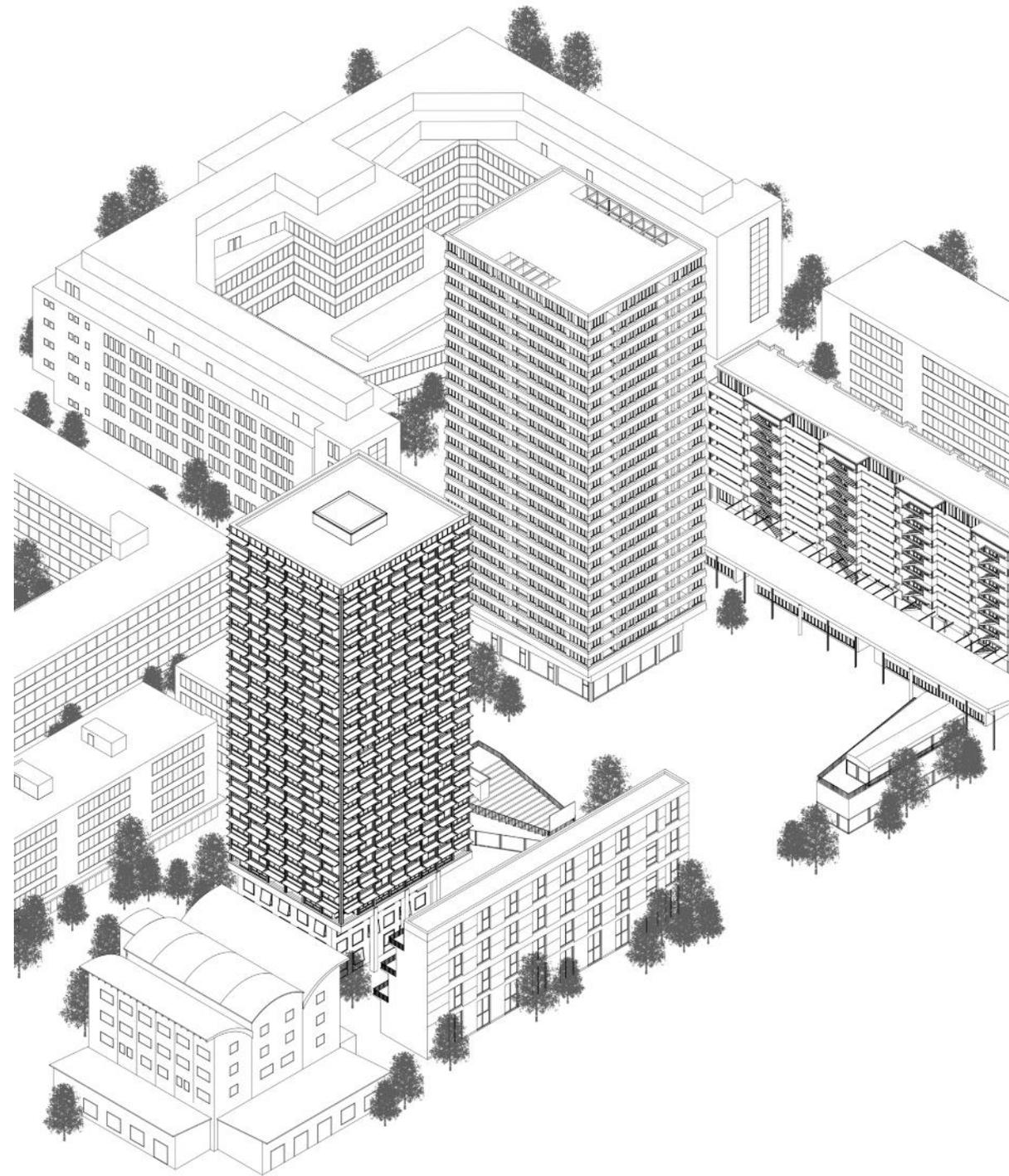
Praxis-Talk Swissbau 2024

Mathias Stocker

Ivan Brühwiler





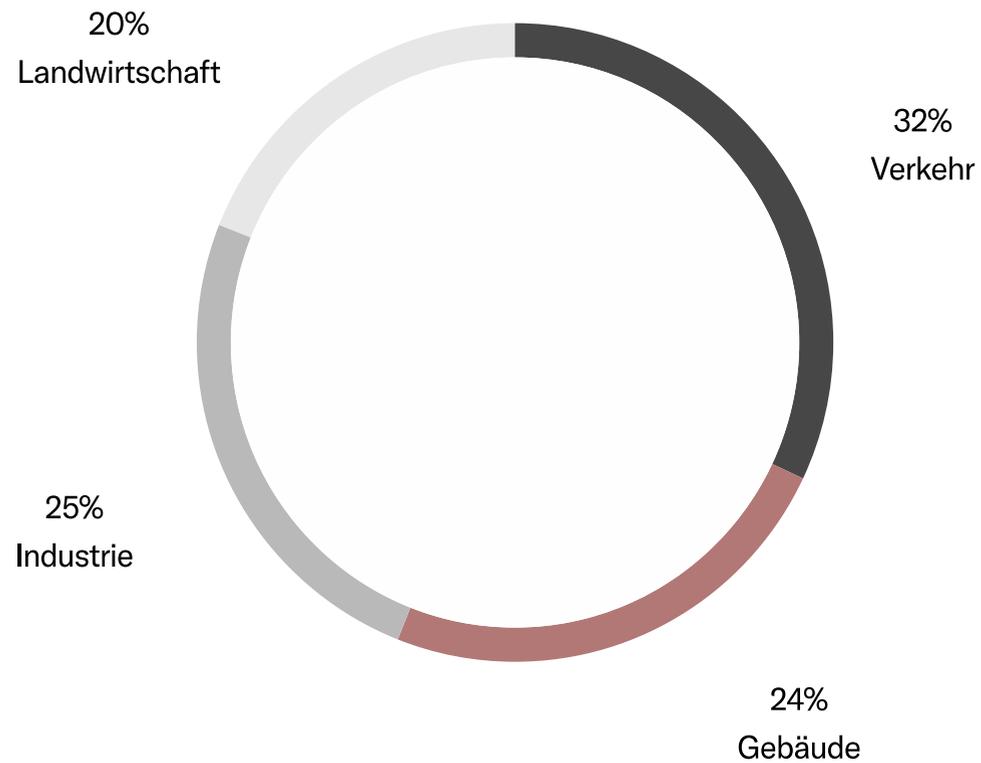


Entwerfen mit dem Faktor Klima

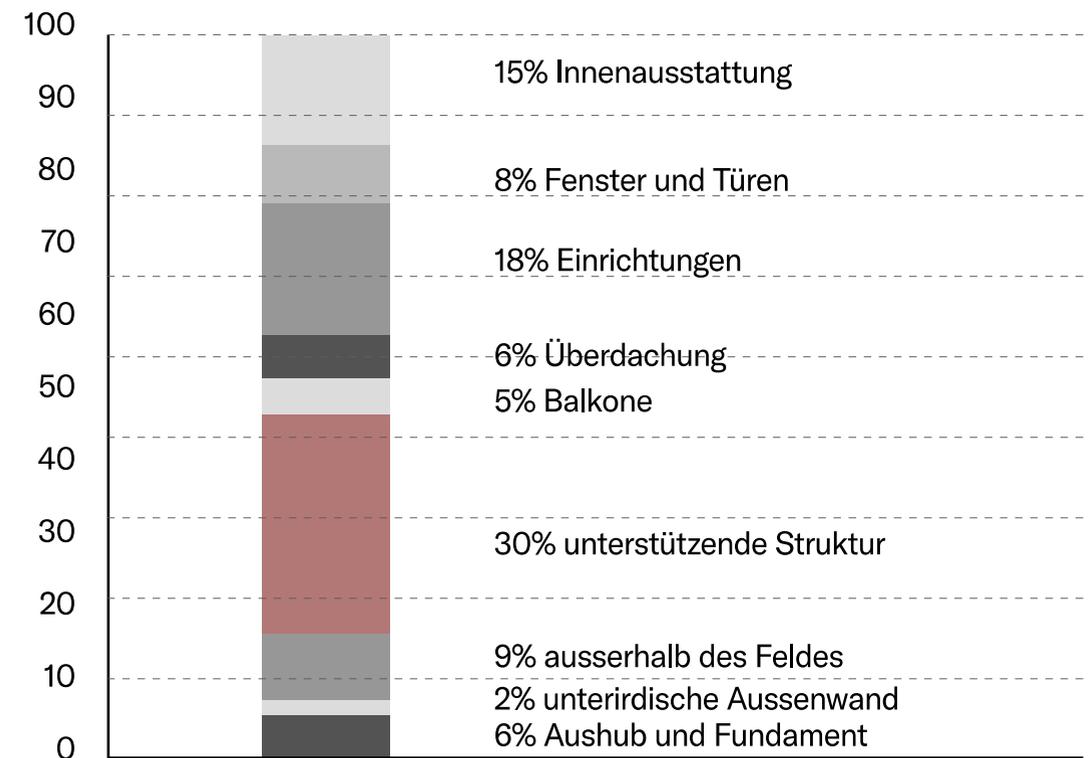
Emissionen Treibhausgase

Wo ansetzen?

Schweiz 2020



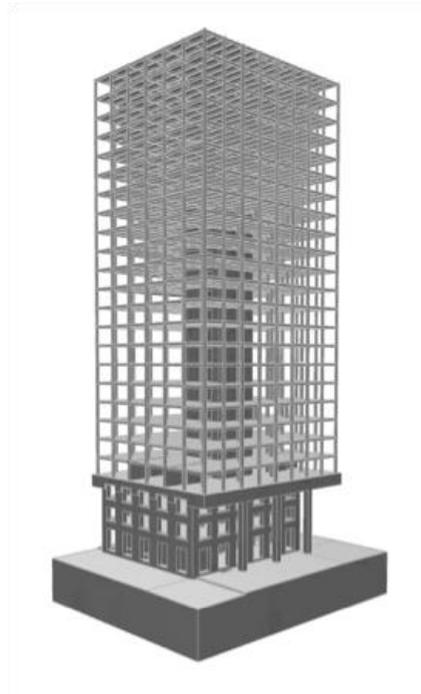
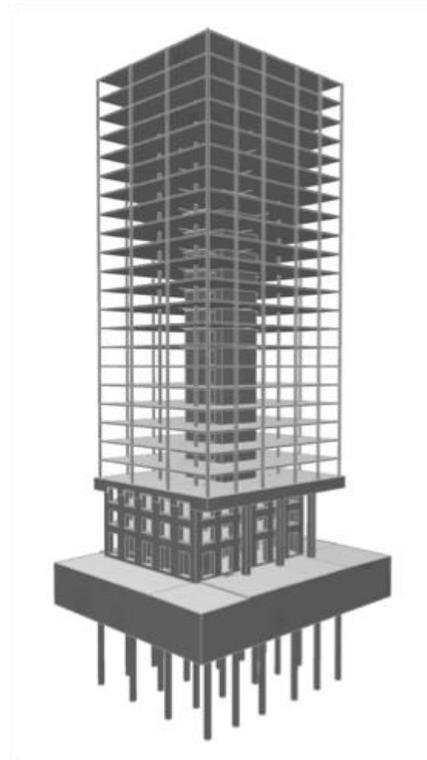
Graue Treibhausgasemissionen pro Jahr



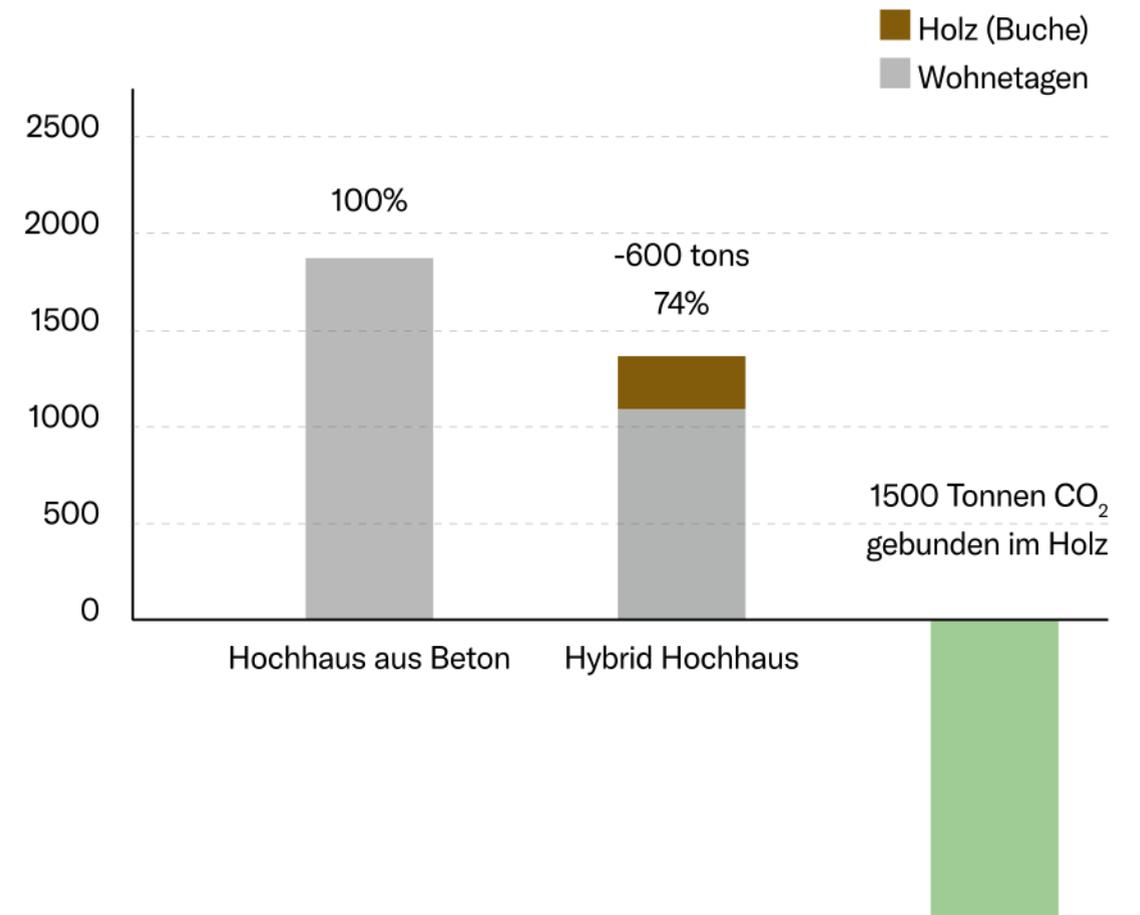
GHG emissions Switzerland, 2020, source:
Swiss Federal Office Meteorology and Climatology MeteoSwiss (bafu.admin.ch)

Grey emissions of building construction according to SIA 2032, source: SIA 2032, 2013

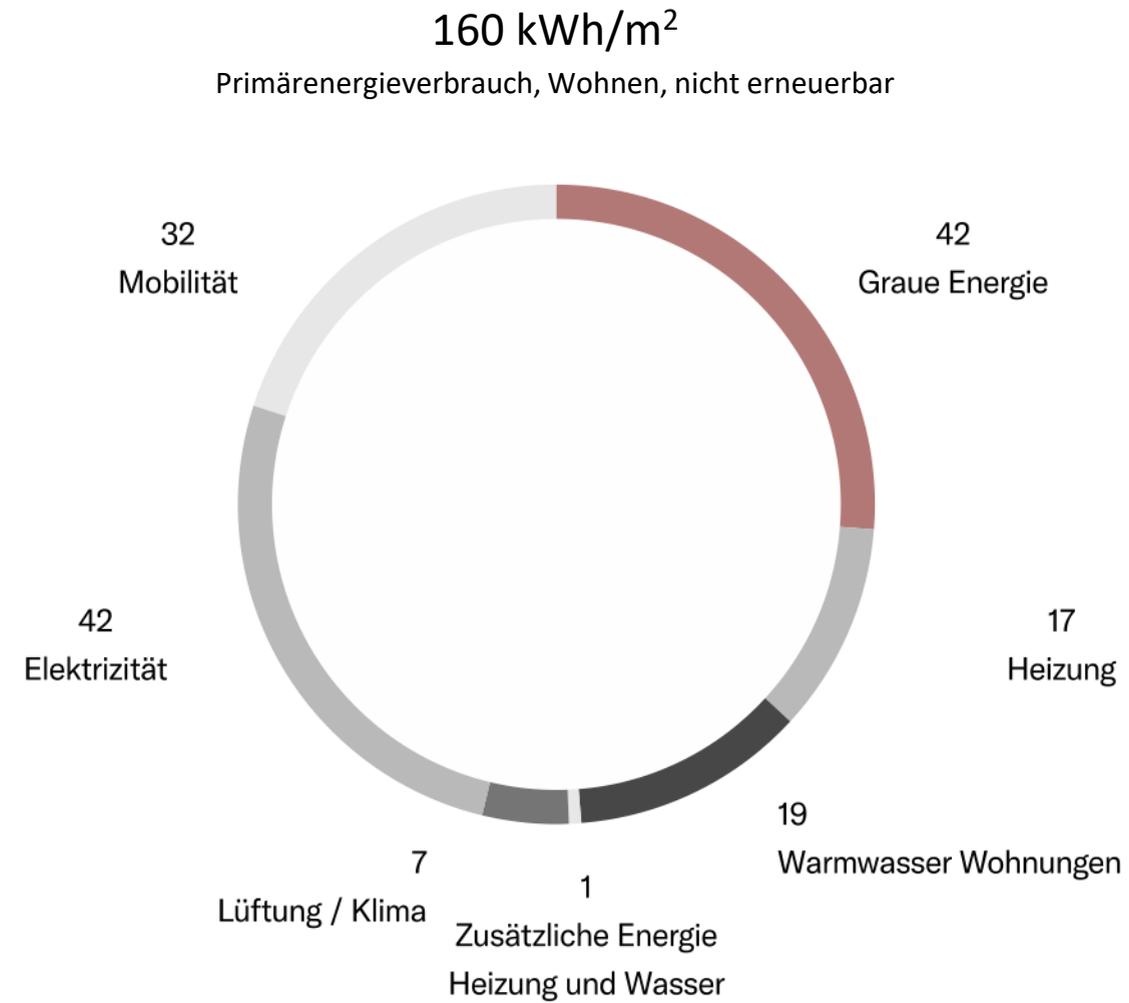
Strukturelle Emissionen



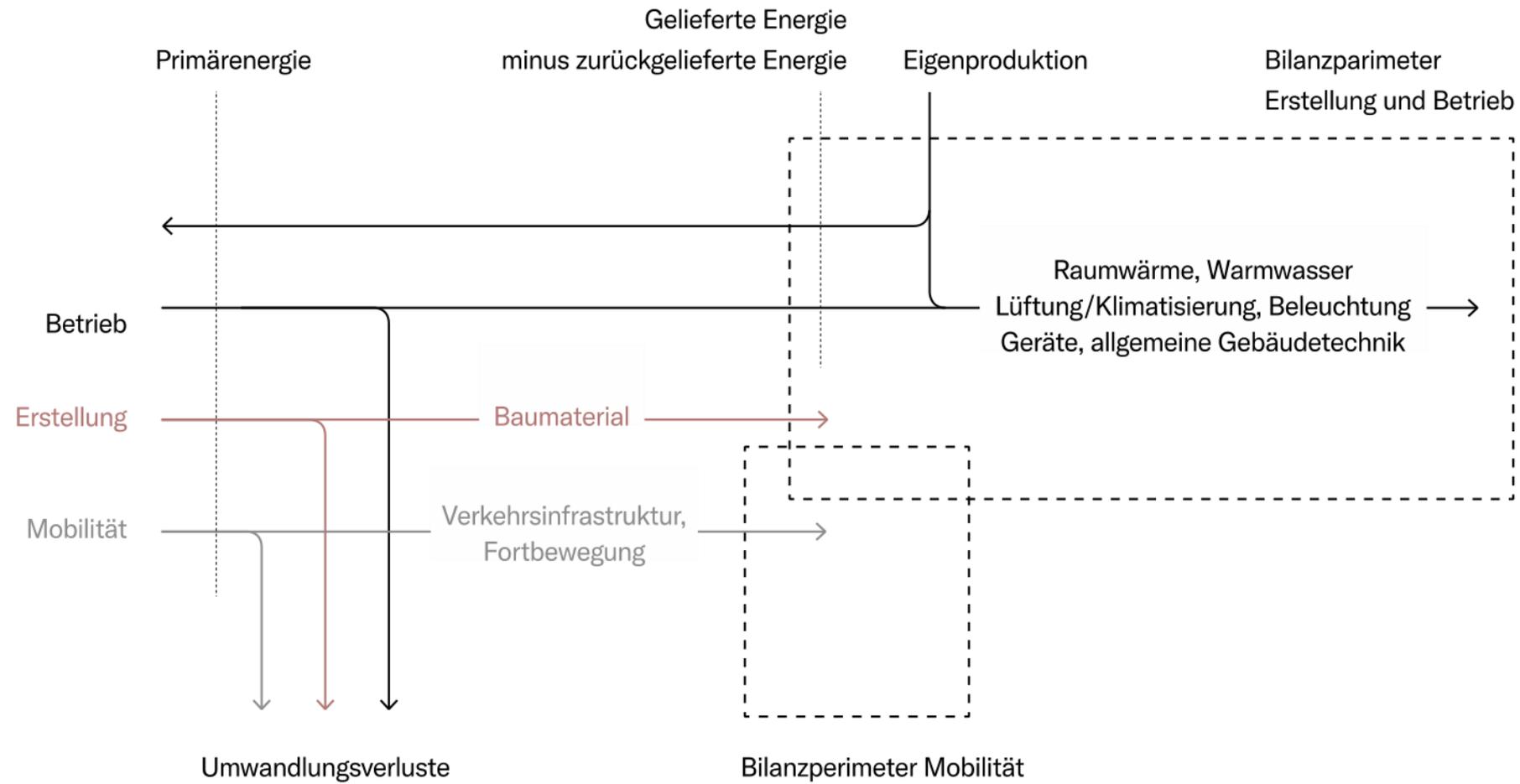
THG-Emissionen
CO₂-Equivalent



Entwerfen mit dem Faktor Klima

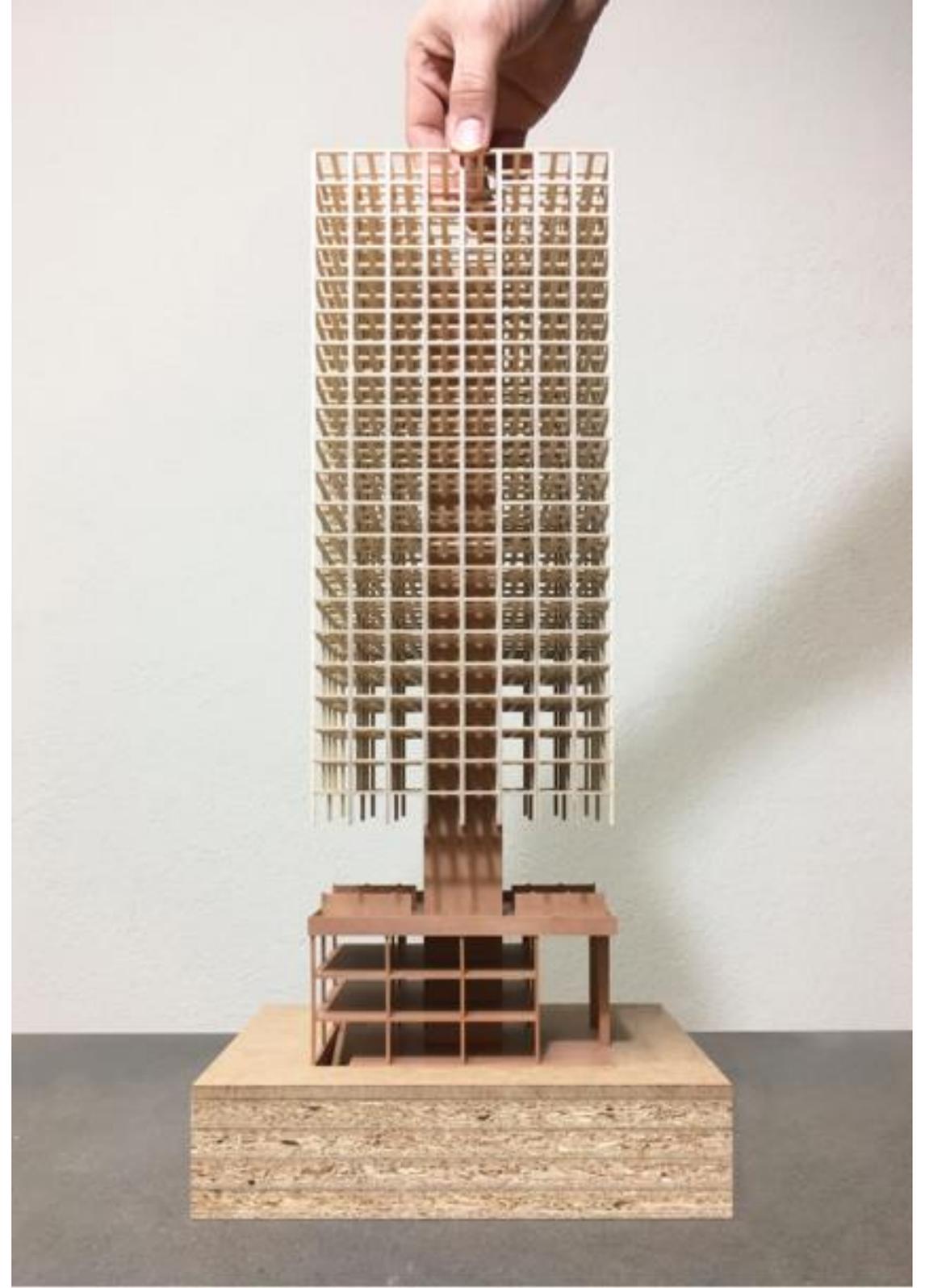
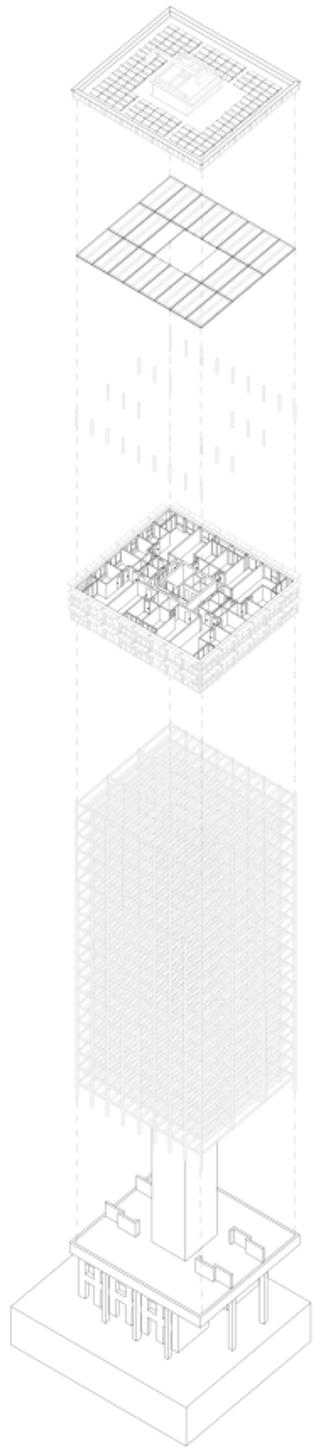


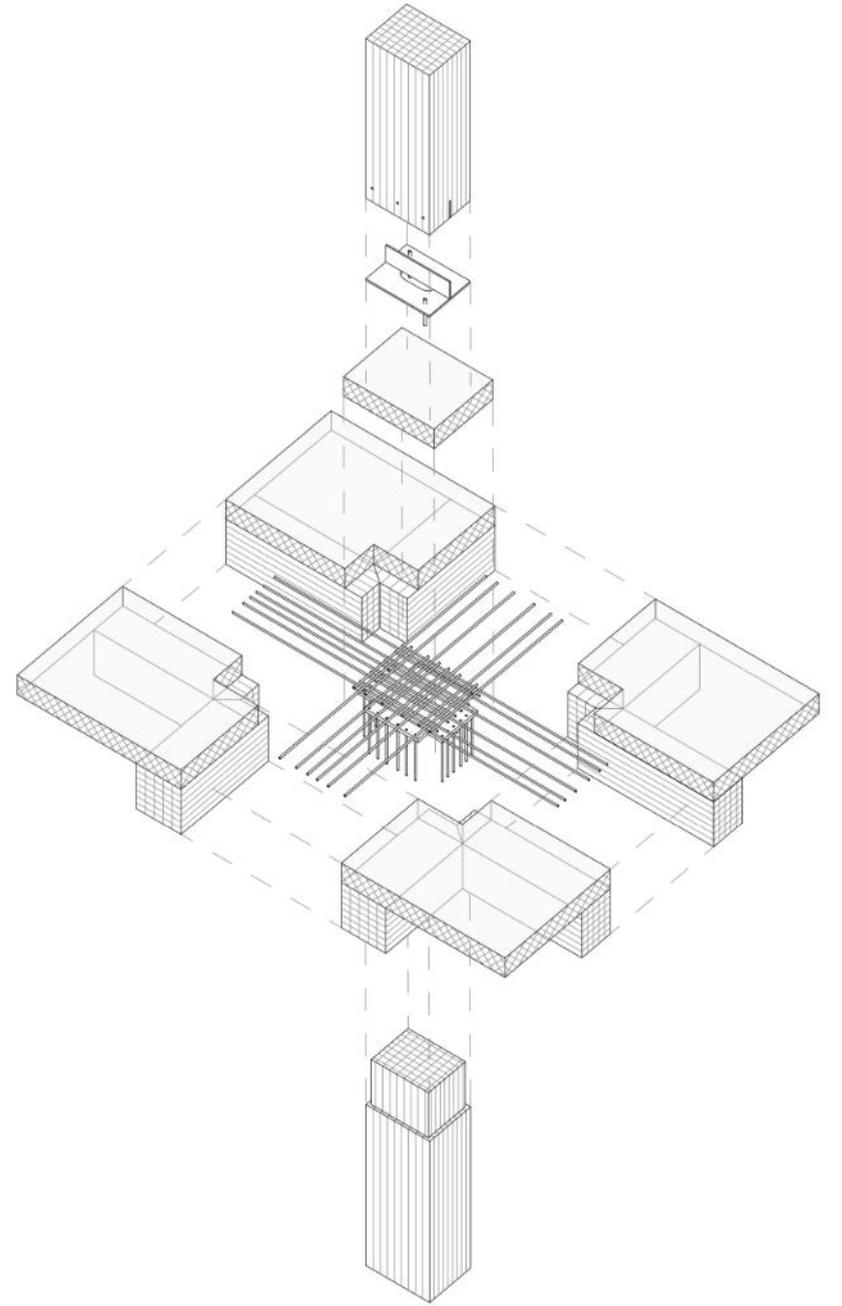
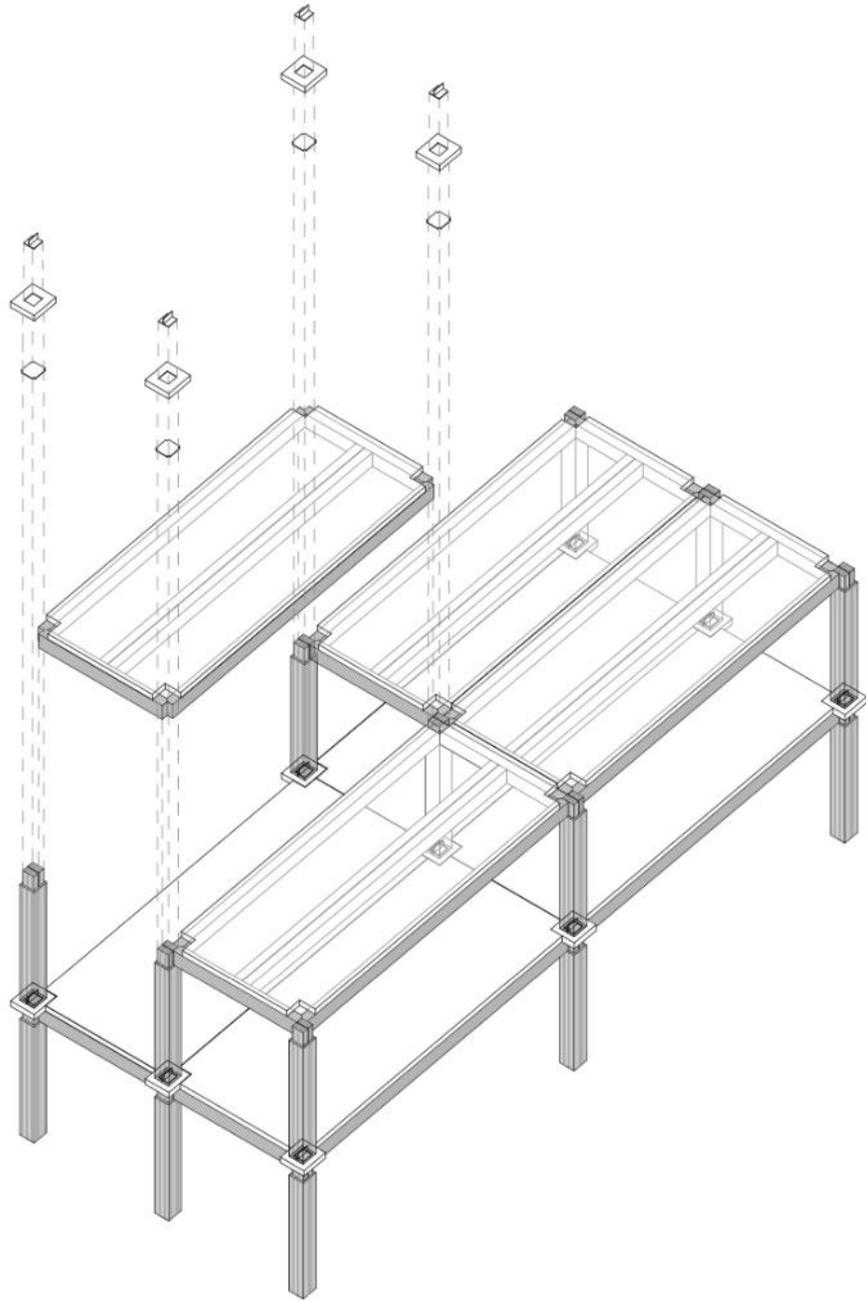
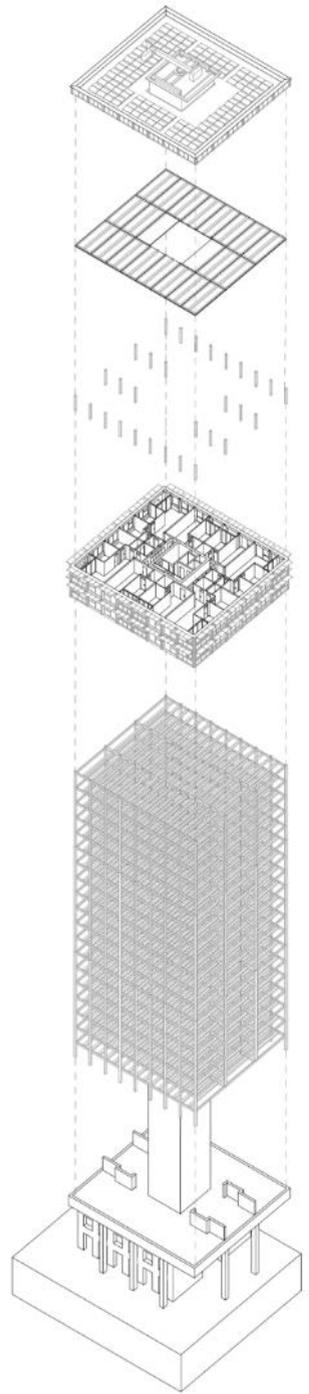
Energiefluss im Gebäudesektor



Hybride Strukturen













2 x 10t
Bauteil 2022

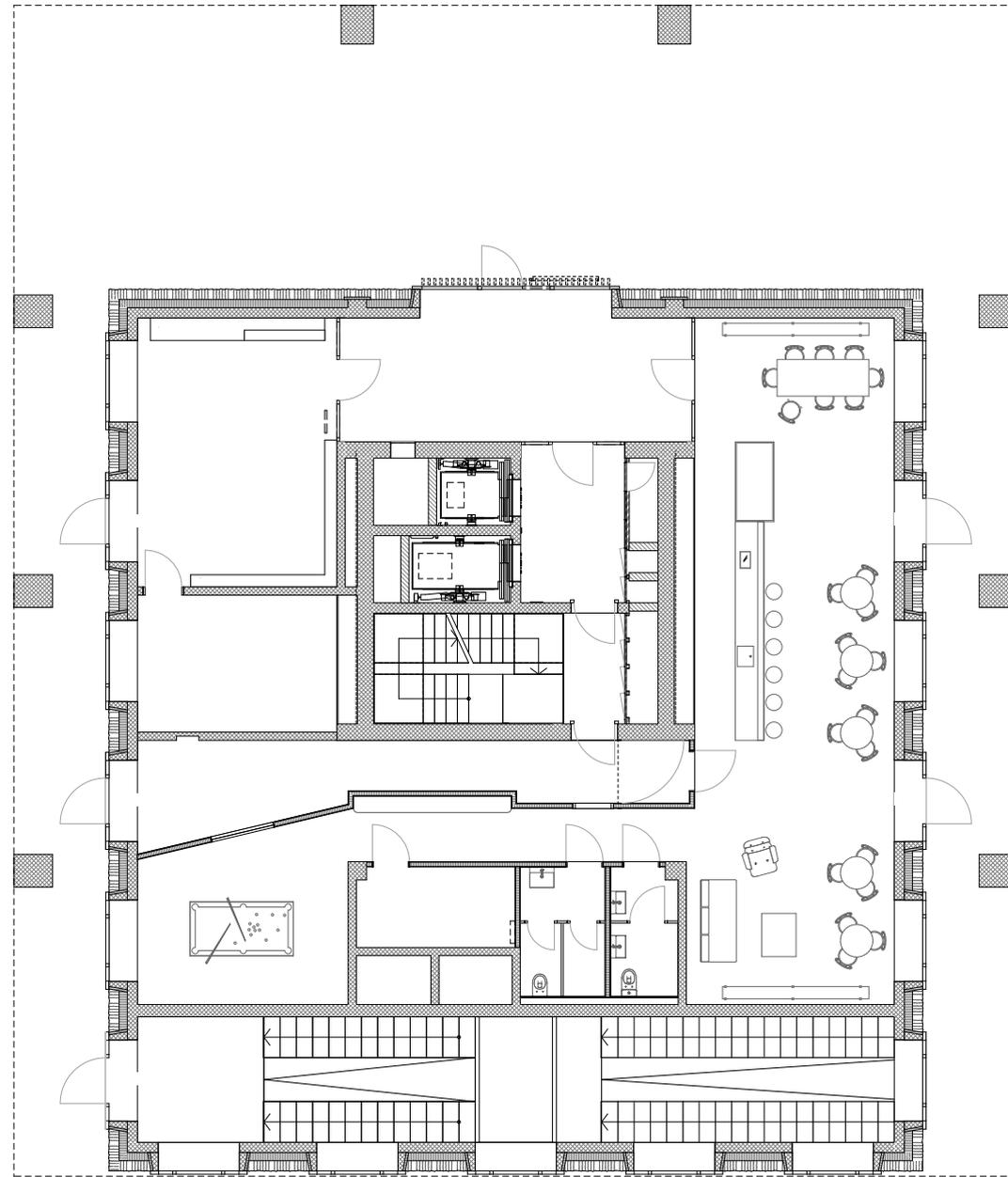
DEMAG 8t

DESBAG

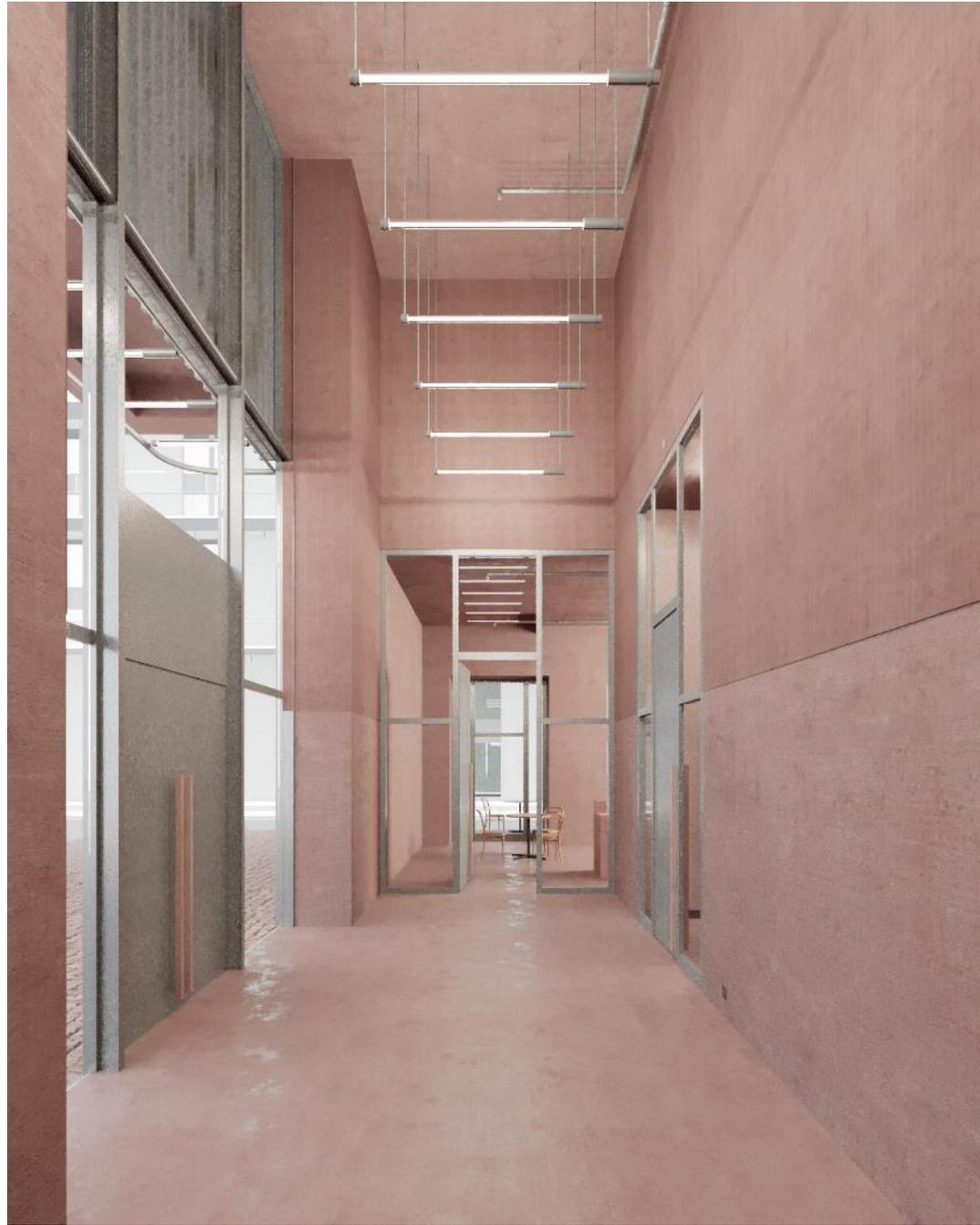


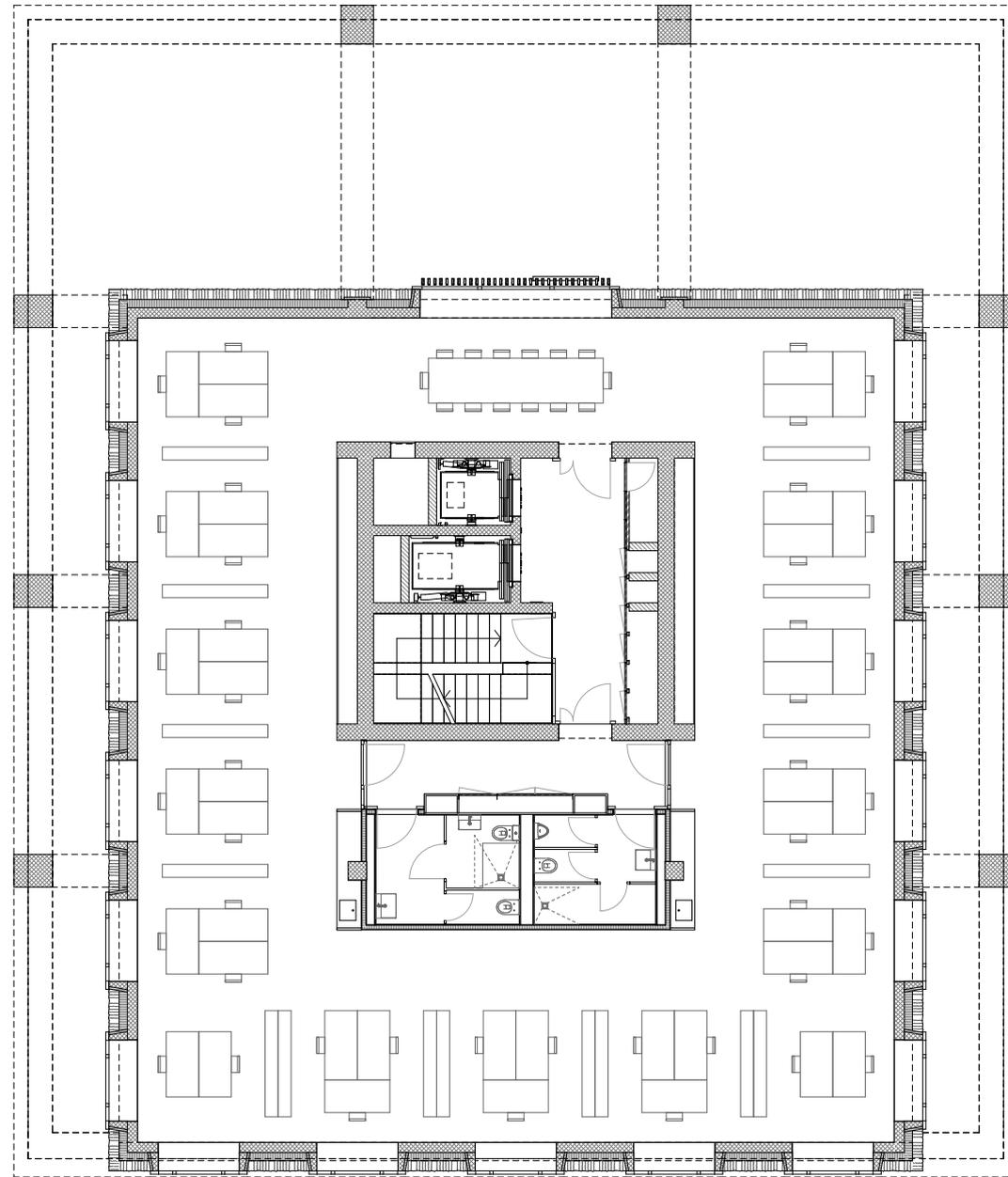


Wandelbare Vielfalt

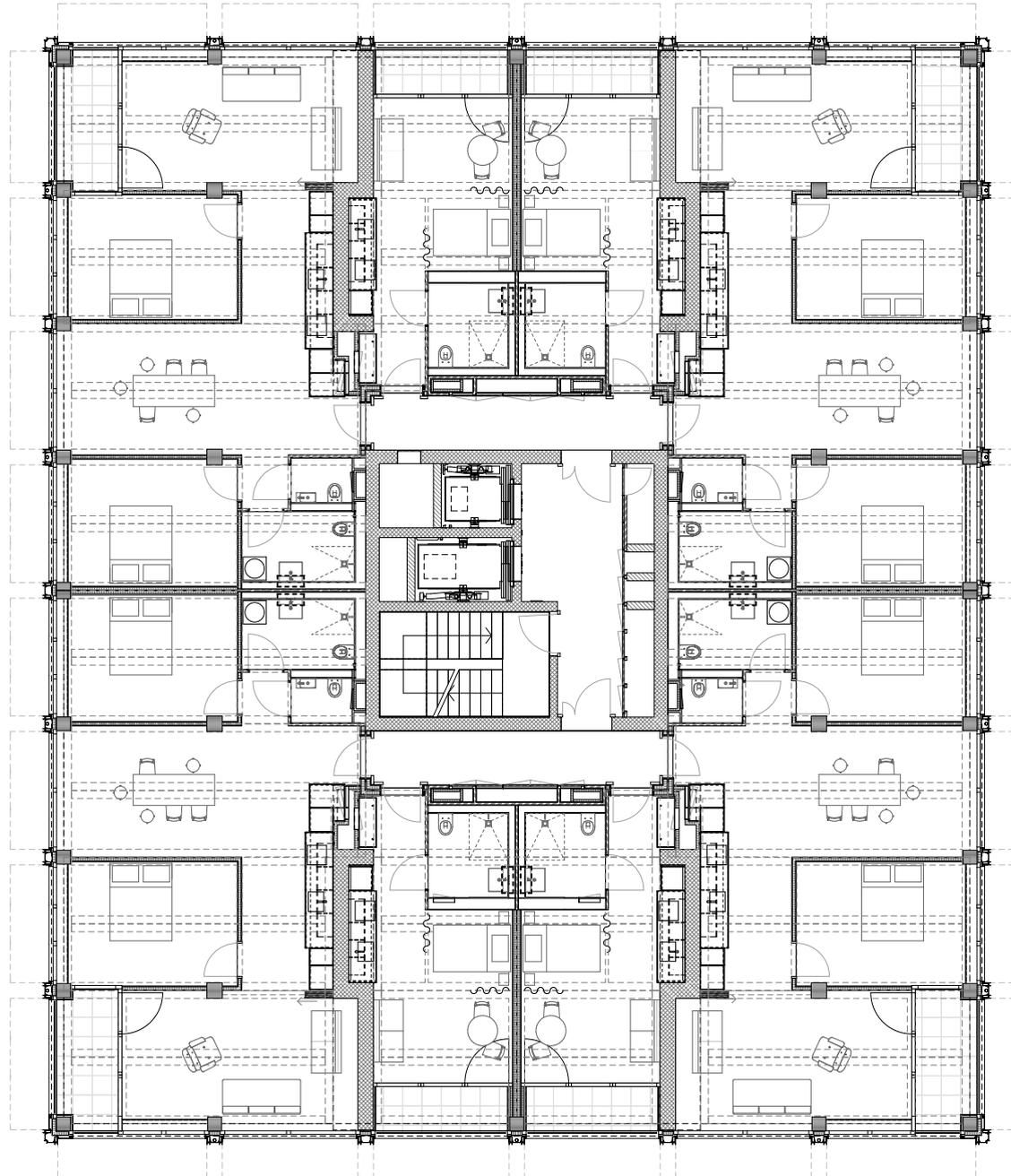


Eingang / Bistro
Erdgeschoss





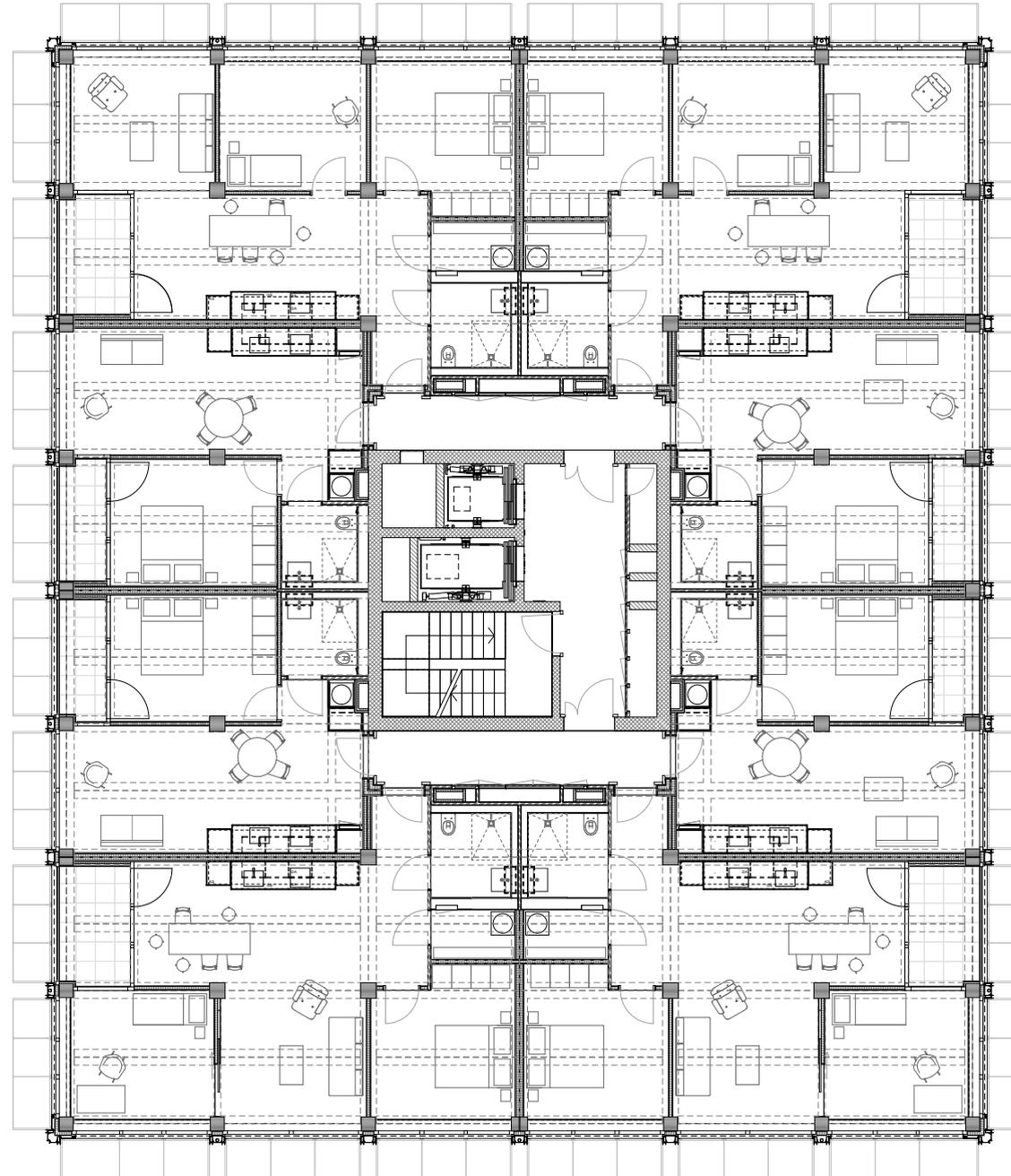
Co-Working
2. Obergeschoss



Abfanggeschoss
3. Obergeschoss

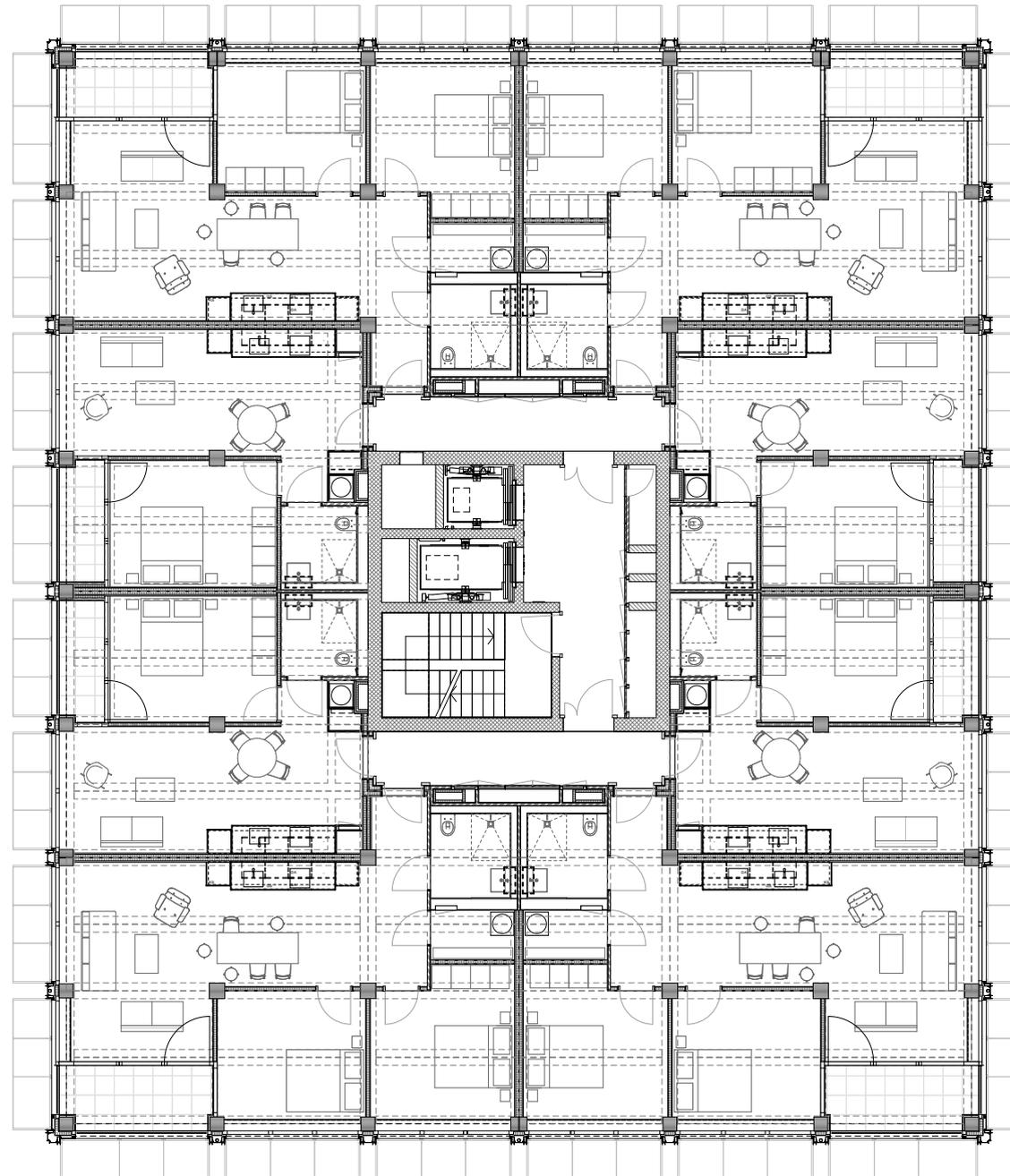




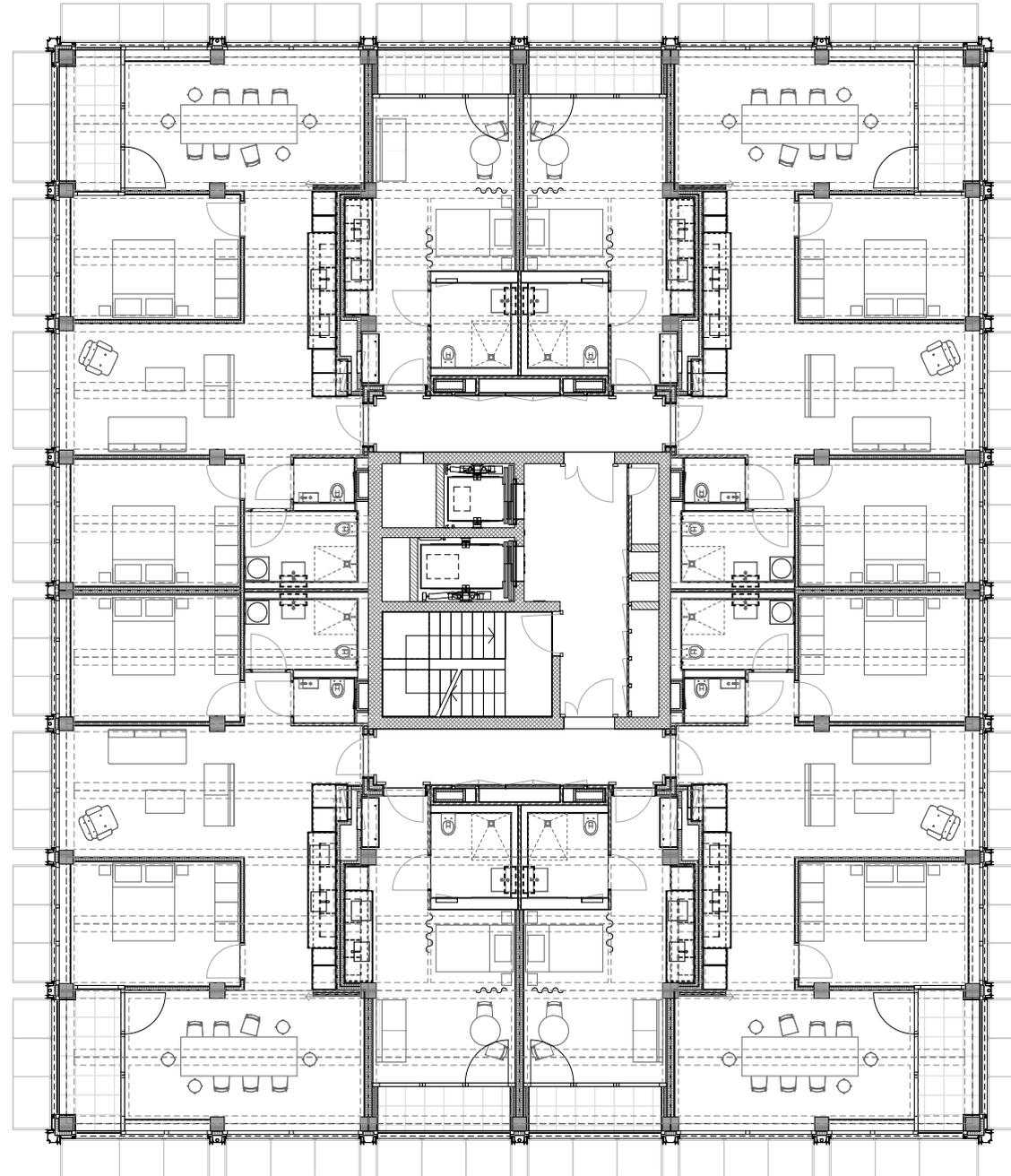


Regelgeschoss 1



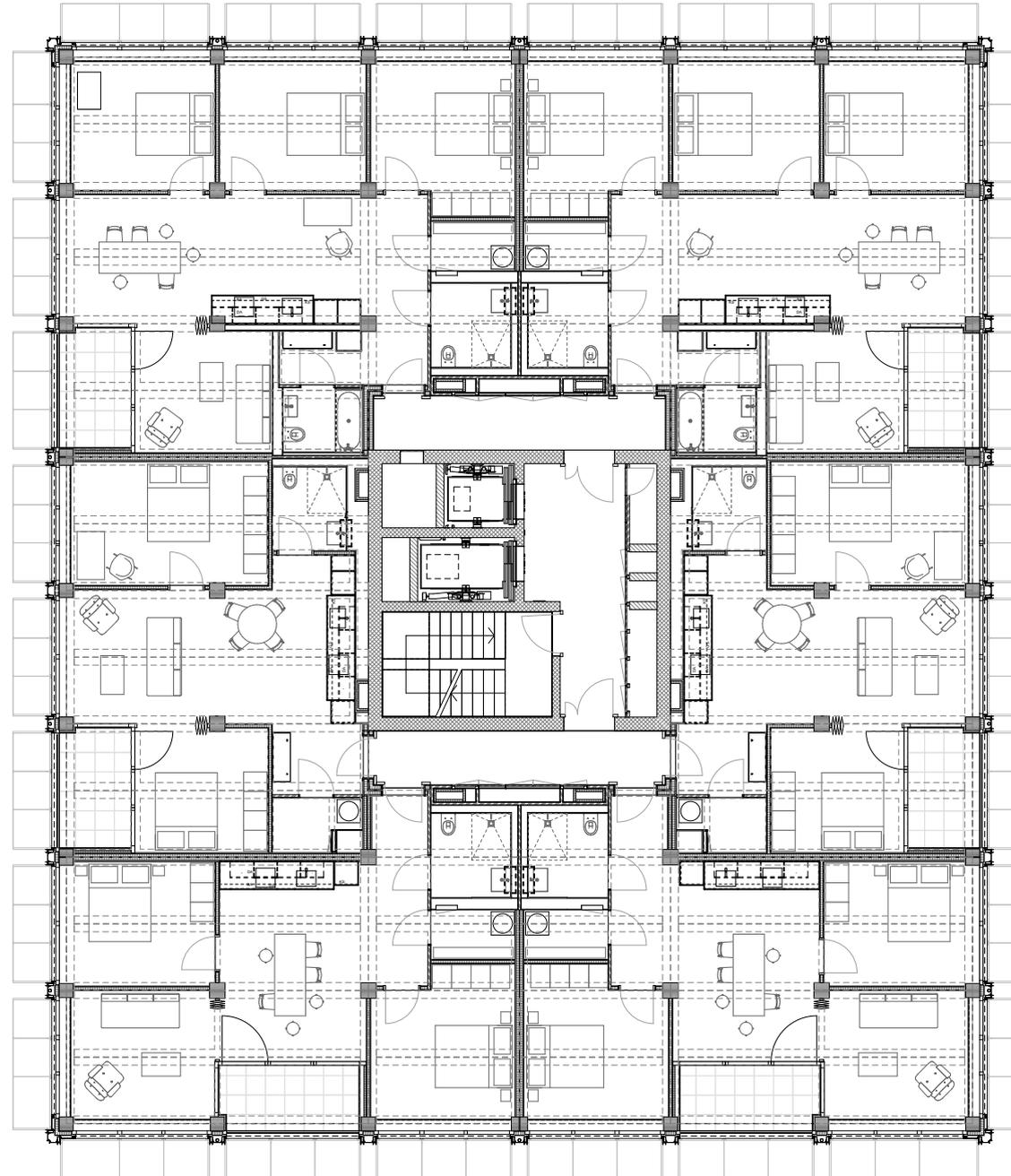


Regelgeschoss 2



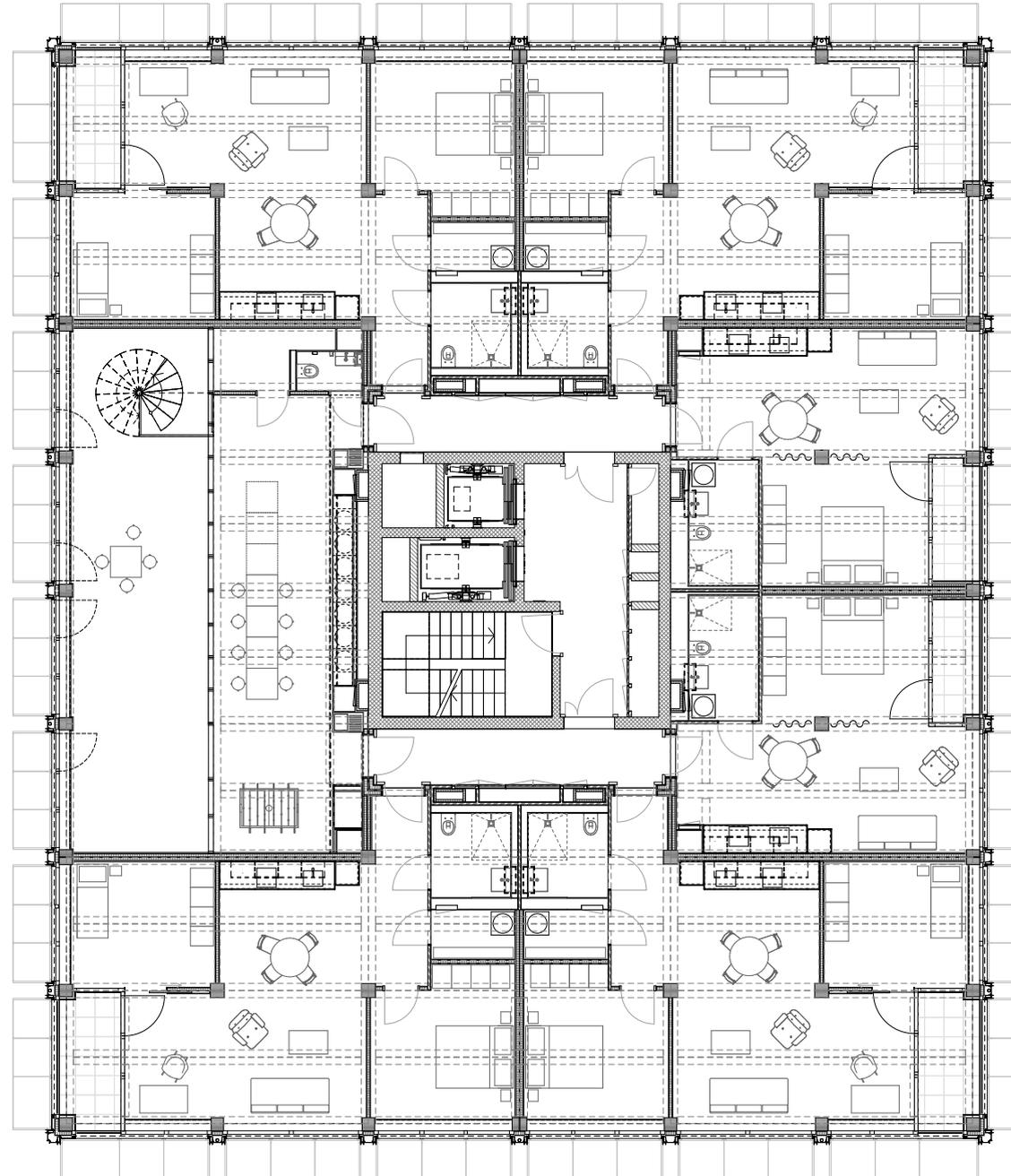
Regelgeschoss 3



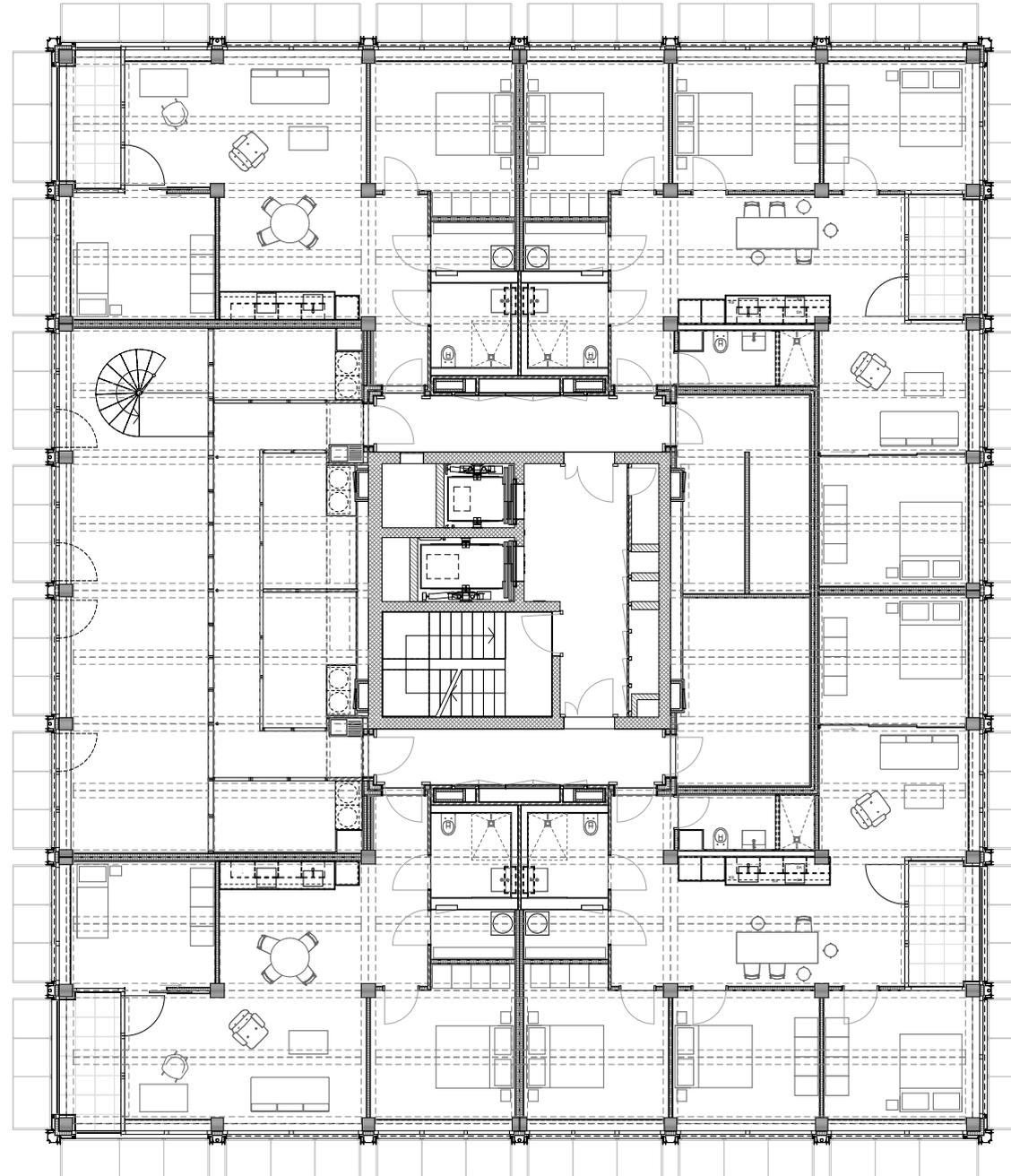


Regelgeschoss 4



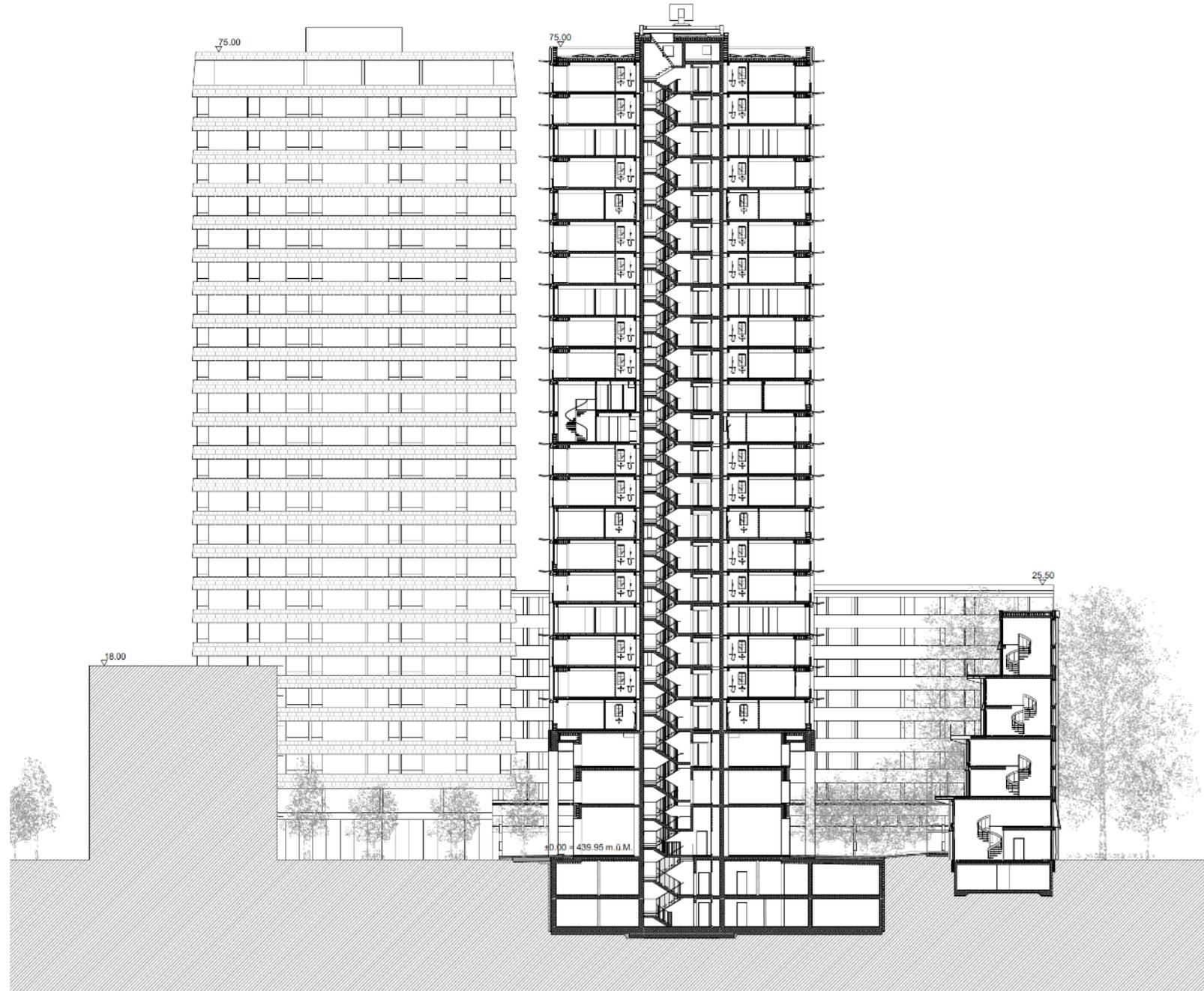


Gemeinschaftsgeschoss
12. Obergeschoss



Gemeinschaftsgeschoss / Technik
13. Obergeschoss







Eine PV-Fassade zur Beschattung

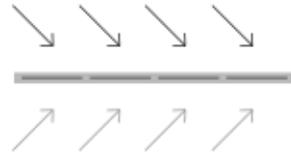




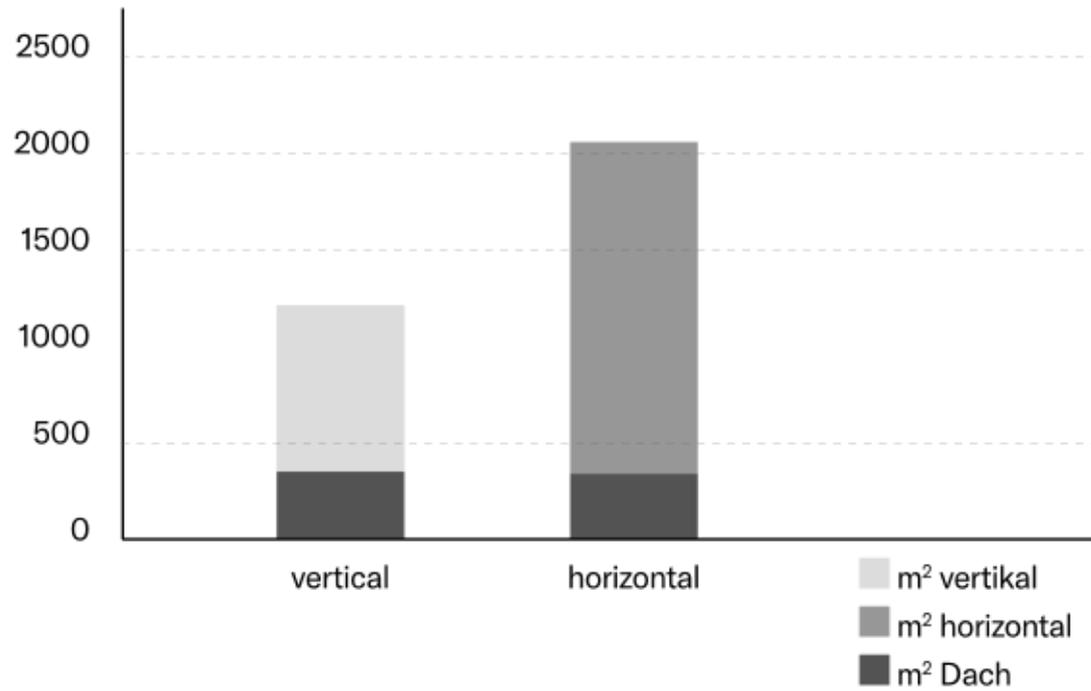
Photovoltaics
vertical



Photovoltaics
horizontal



10% mehr Ertrag dank
bifazialen Zellen



Fläche Photovoltaik in m²

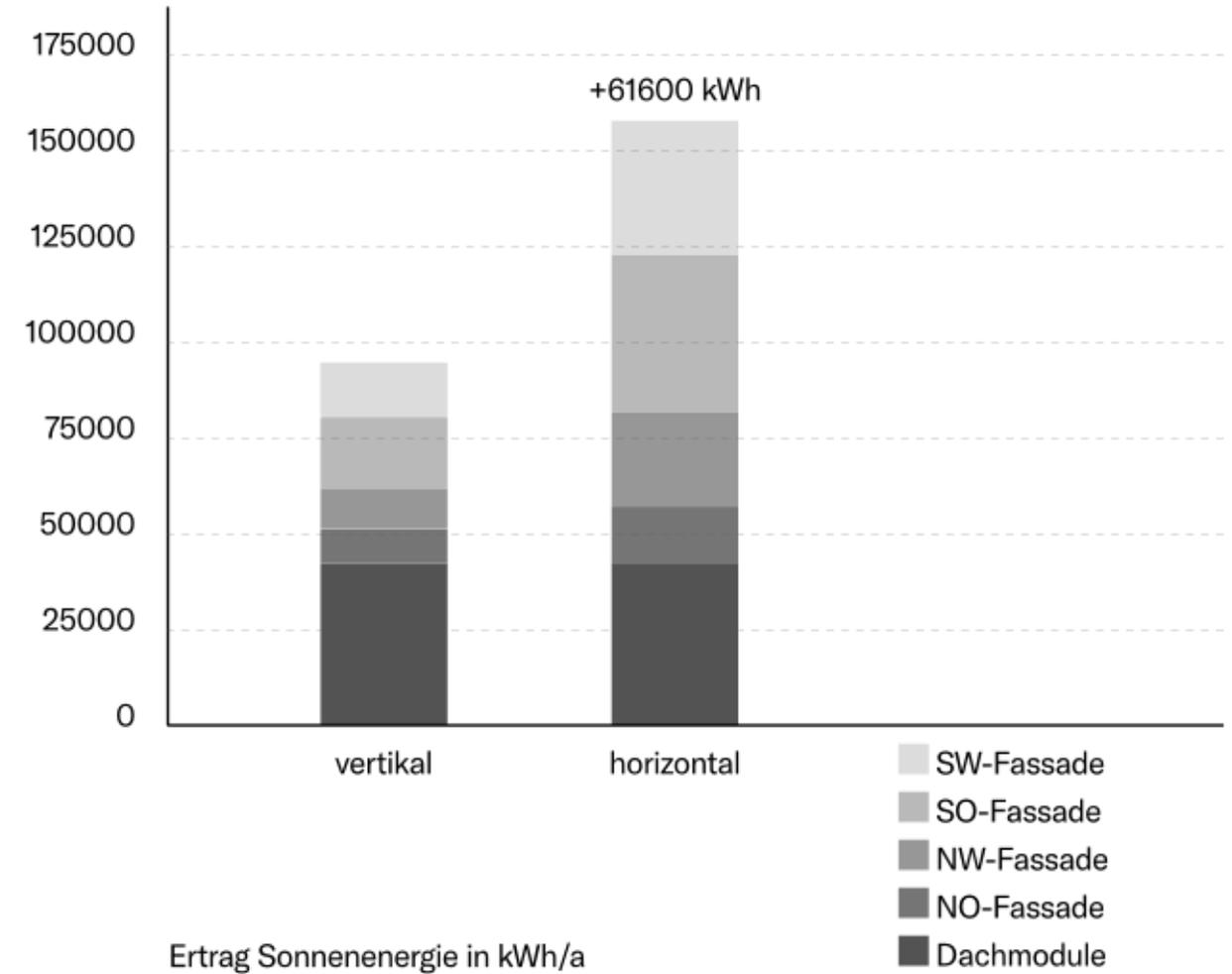
Eingesparte Emissionen

15 Tonnen CO₂Equivalent/Jahr

Zirka 460 Tonnen im Lebenszyklus (30 Jahre)

Strom für 56 Zwei-Personen-Haushalte (2750 kWh/Jahr)

36% Abdeckung des Strombedarfs der Wohnungen



Ertrag Sonnenenergie in kWh/a

Boltshauser Architekten

Mathias Stocker

Mitglied der Geschäftsleitung

Projektleiter Zwhatt