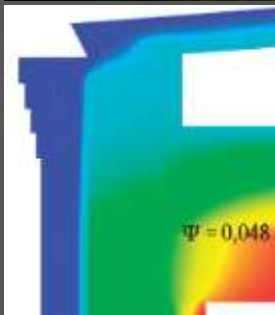
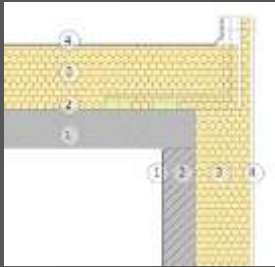


IDEENWETTBEWERB „EFF.GEBÄUDE.2050“

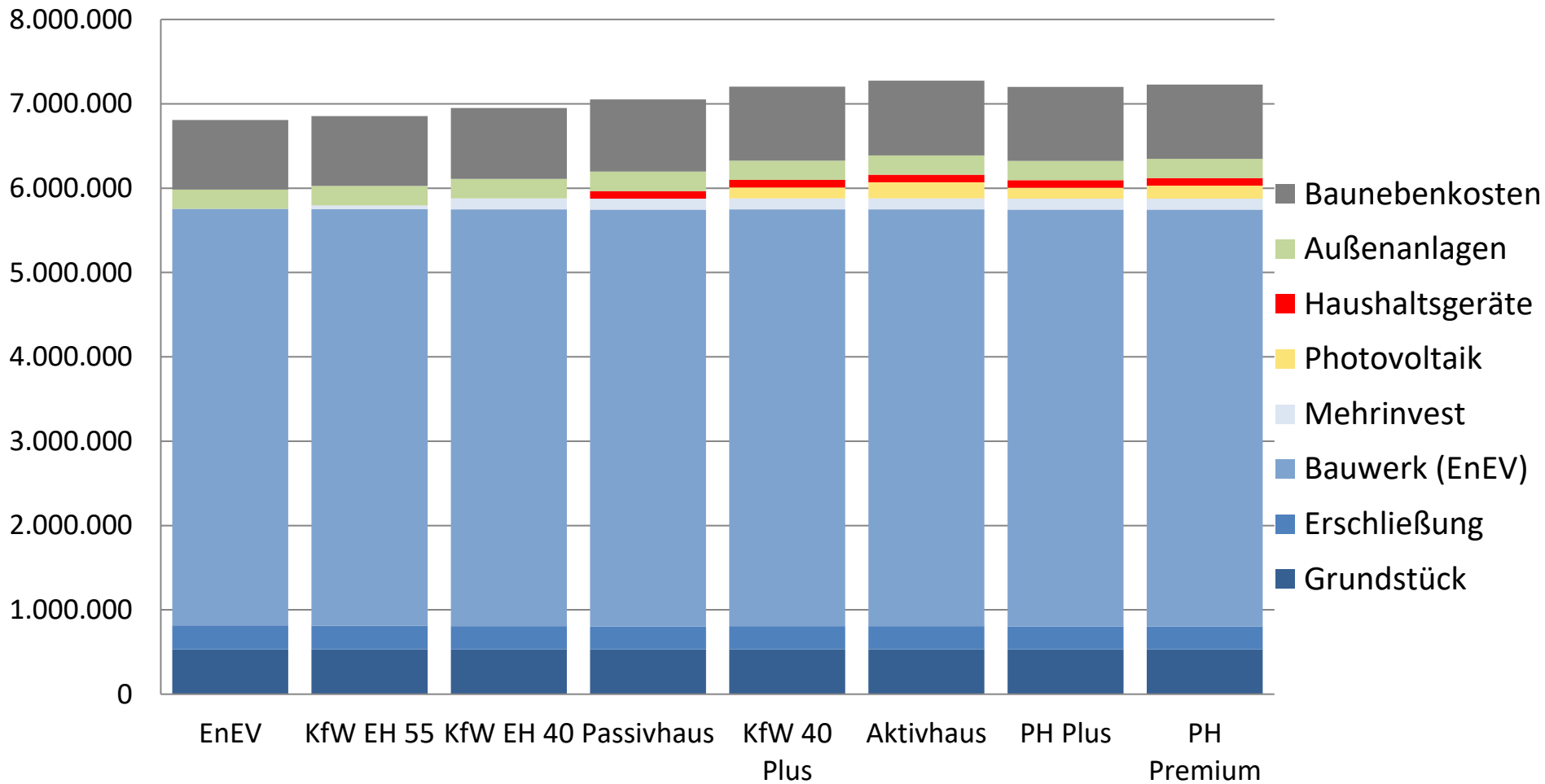


PERSPEKTIVEN VON PLUSENERGIEKONZEPTEN IM GESCHOSSBAU

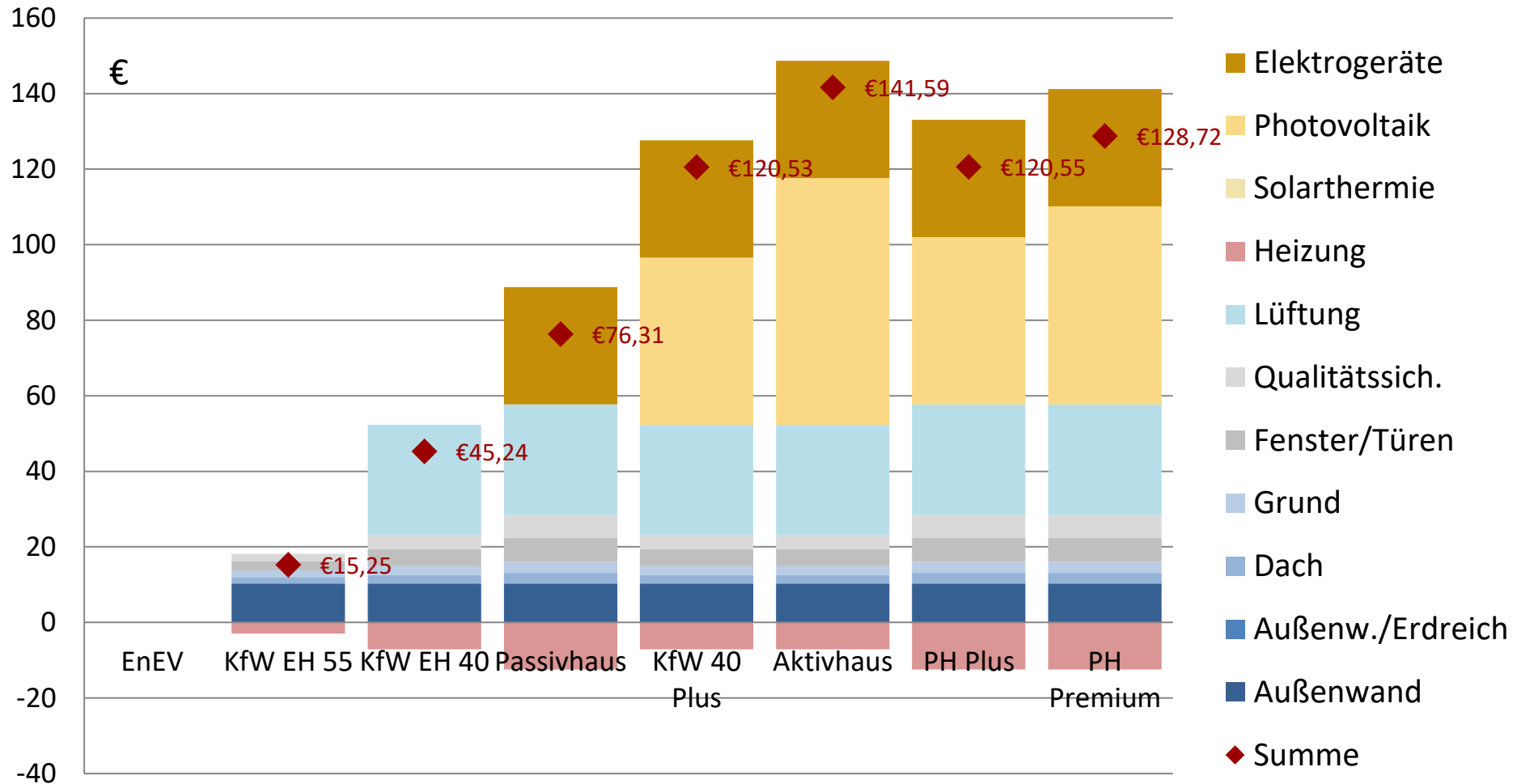
DR. BURKHARD SCHULZE DARUP

SCHULZE DARUP & PARTNER ARCHITEKTEN NÜRNBERG - BERLIN

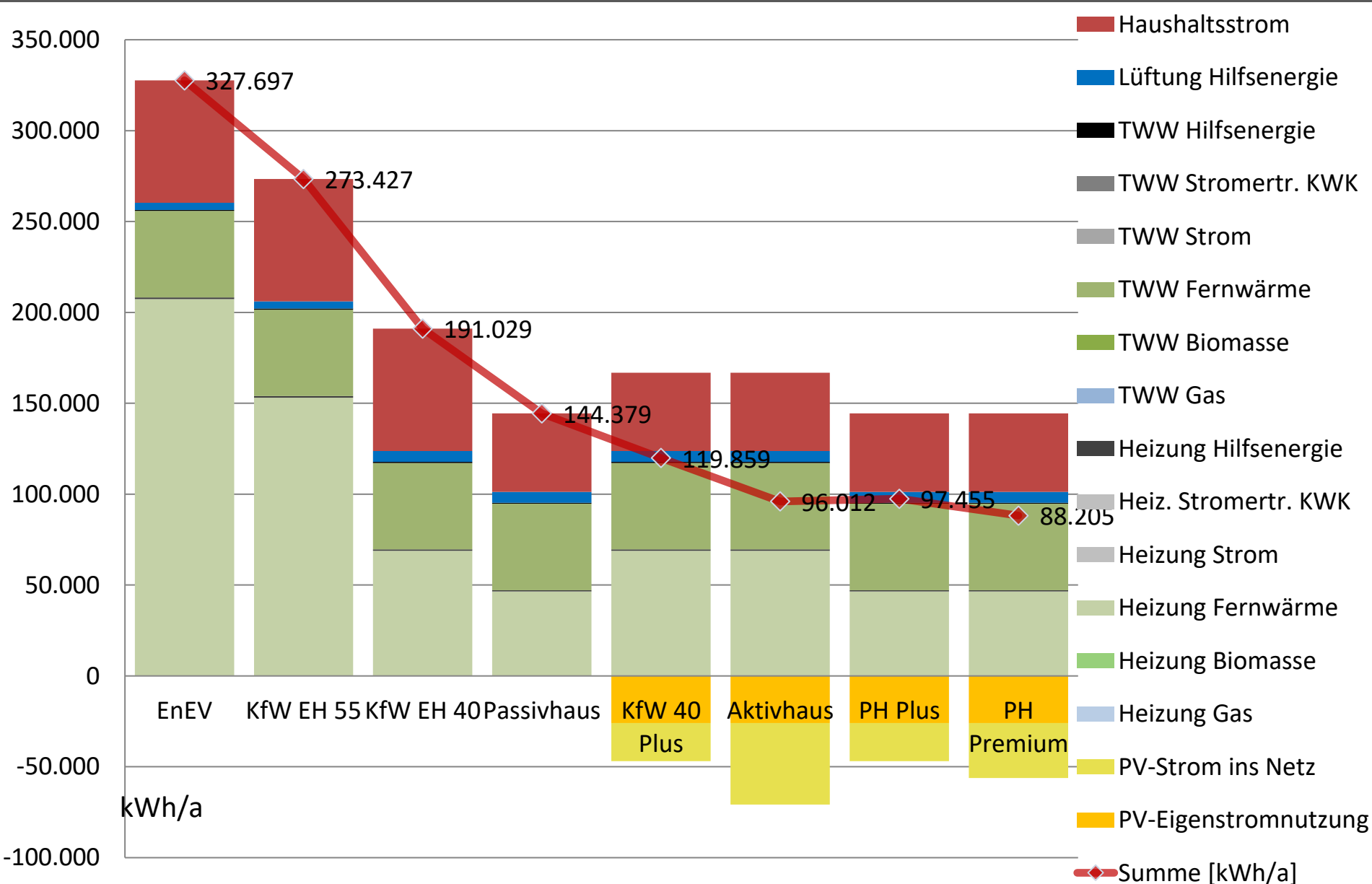
Beispiel Berlin: MFH, VIII - Investitionskosten



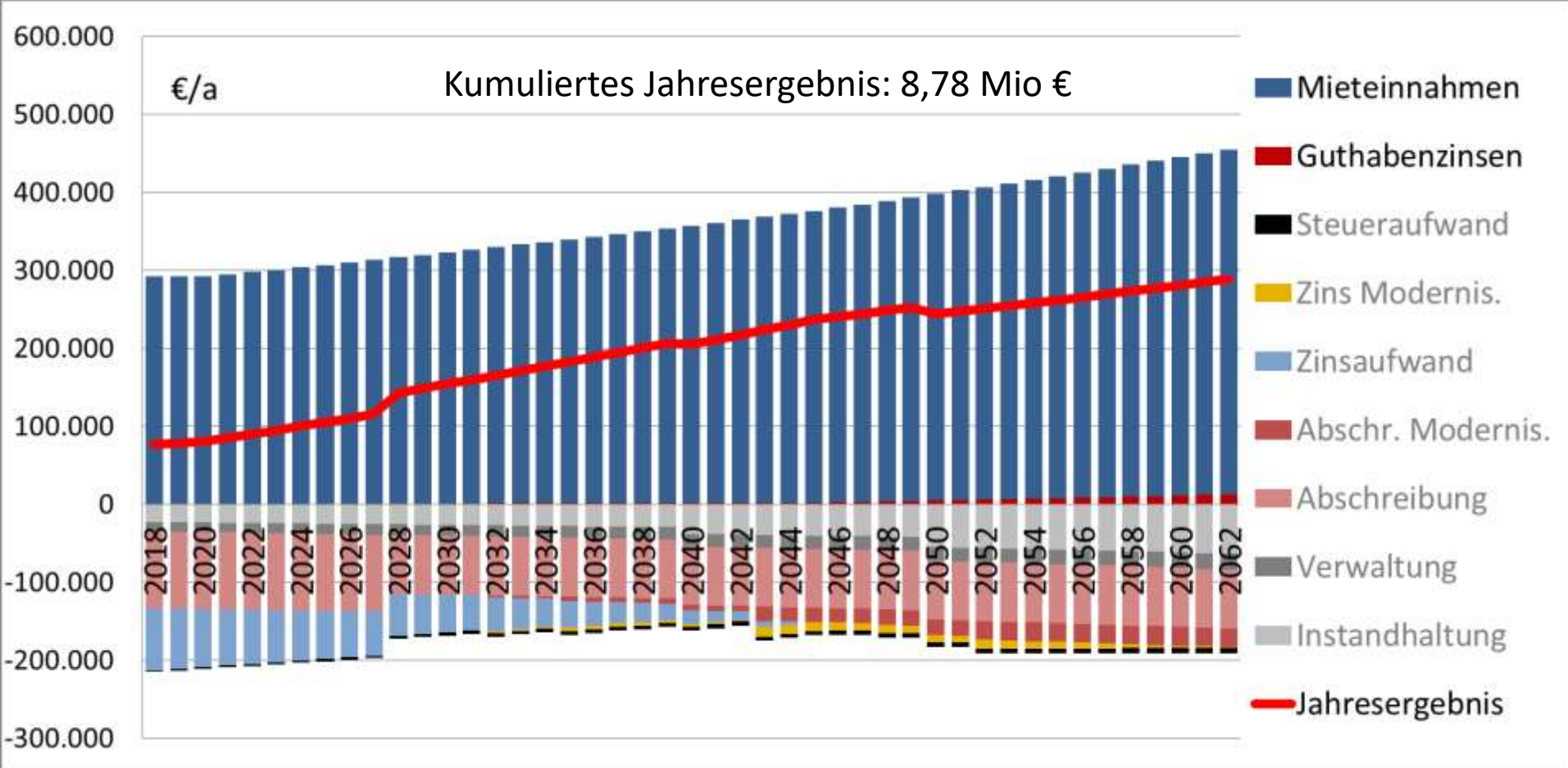
Beispiel Berlin: MFH, VIII - Mehrinvestitionen pro m² Wohnfläche



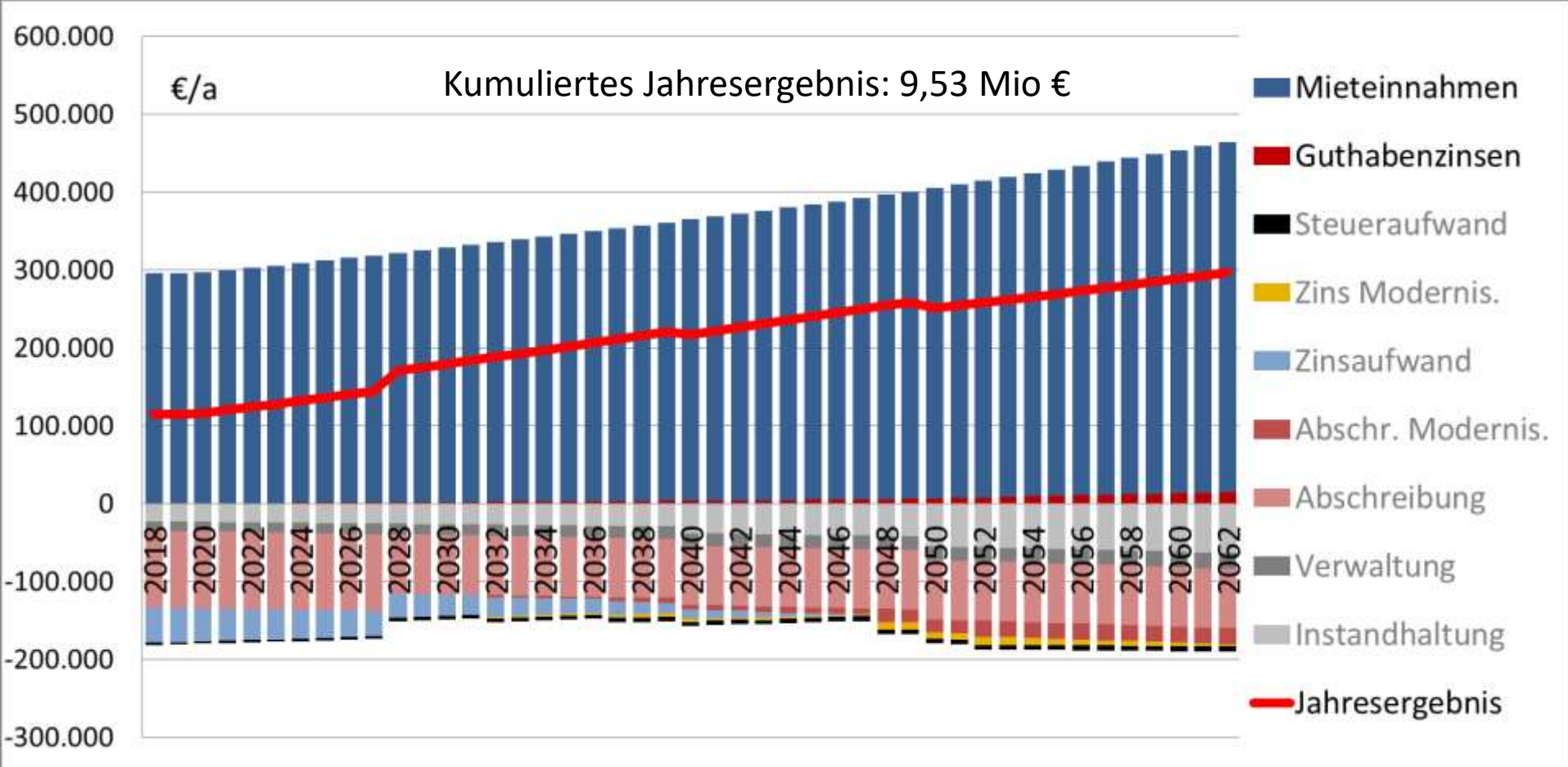
Beispiel Berlin: MFH, VIII - Endenergiebedarf (kWh/a)



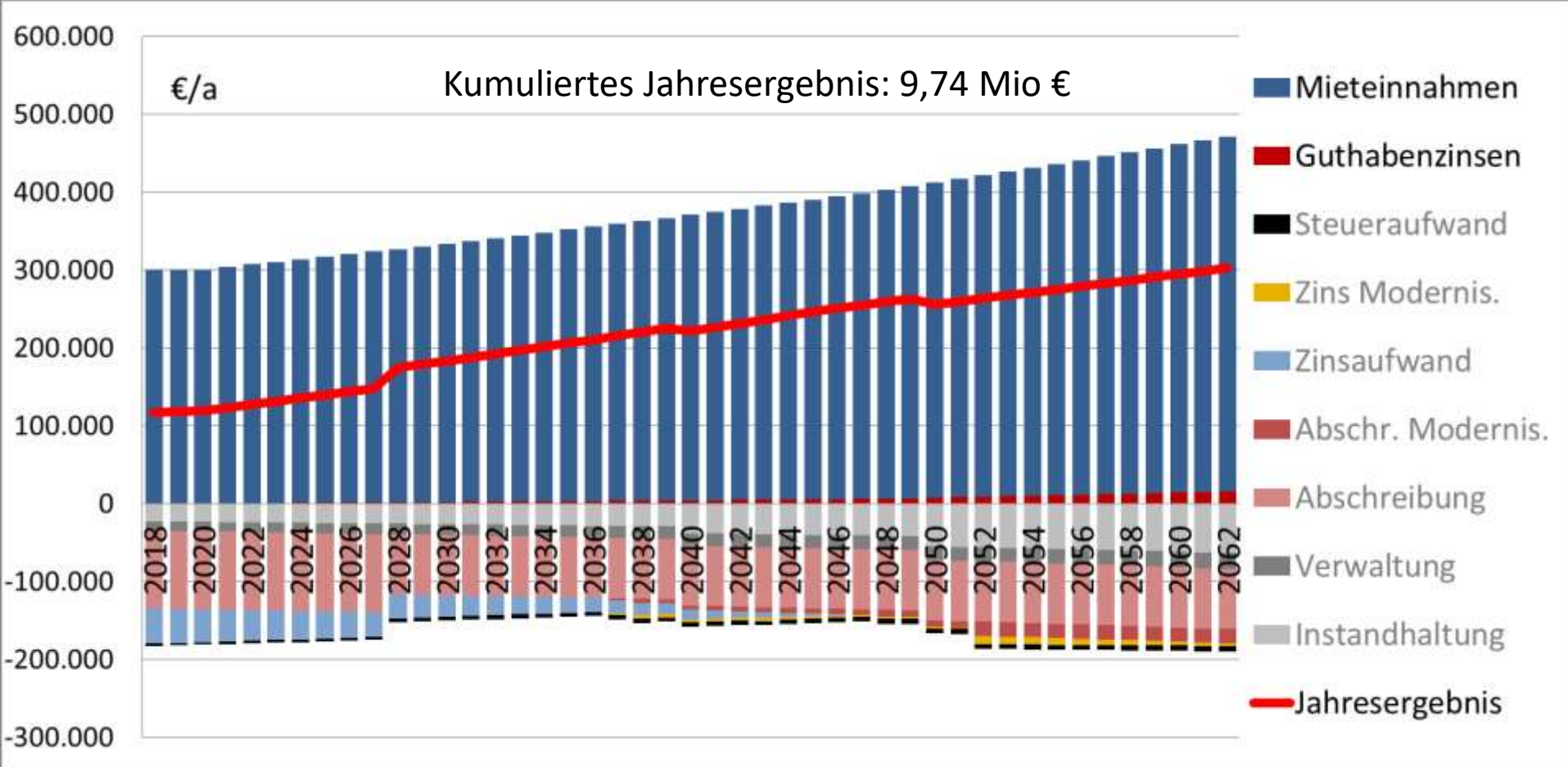
Beispiel Berlin: MFH, VIII - Vollständiger Finanzplan (VoFi) – Standard EnEV



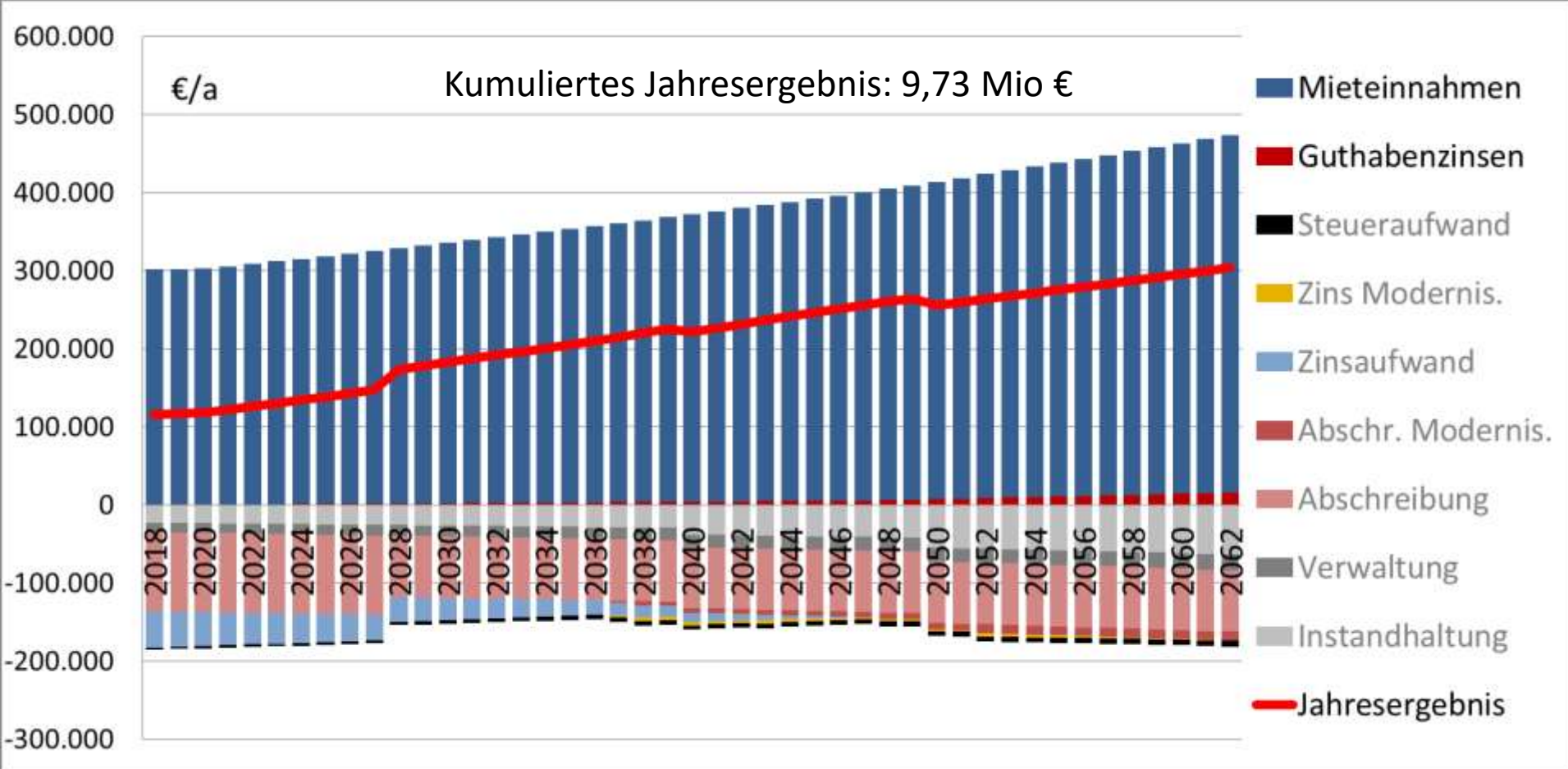
Beispiel Berlin: MFH, VIII - Vollständiger Finanzplan (VoFi) – KfW EH 55



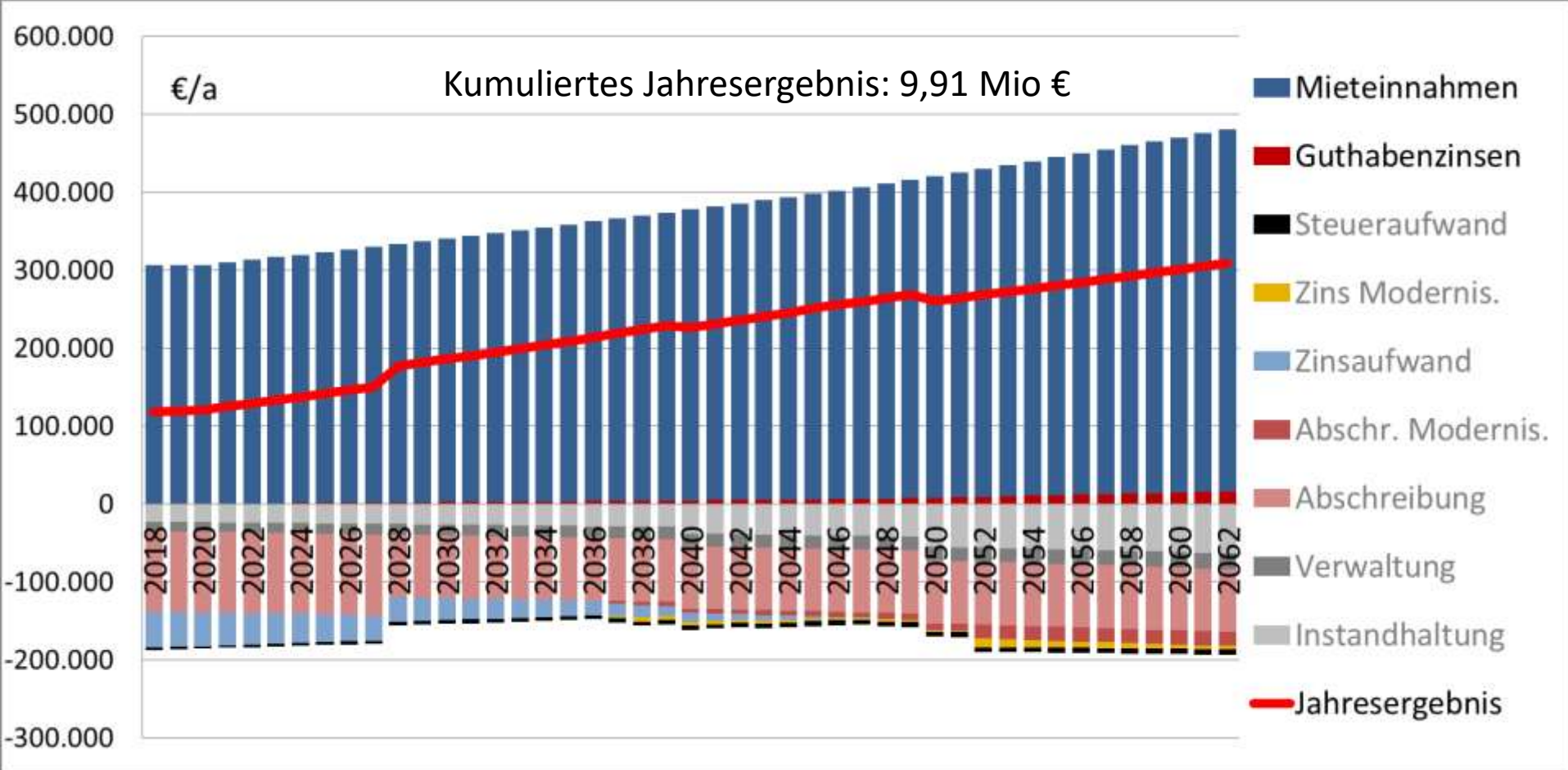
Beispiel Berlin: MFH, VIII - Vollständiger Finanzplan (VoFi) – KfW EH 40



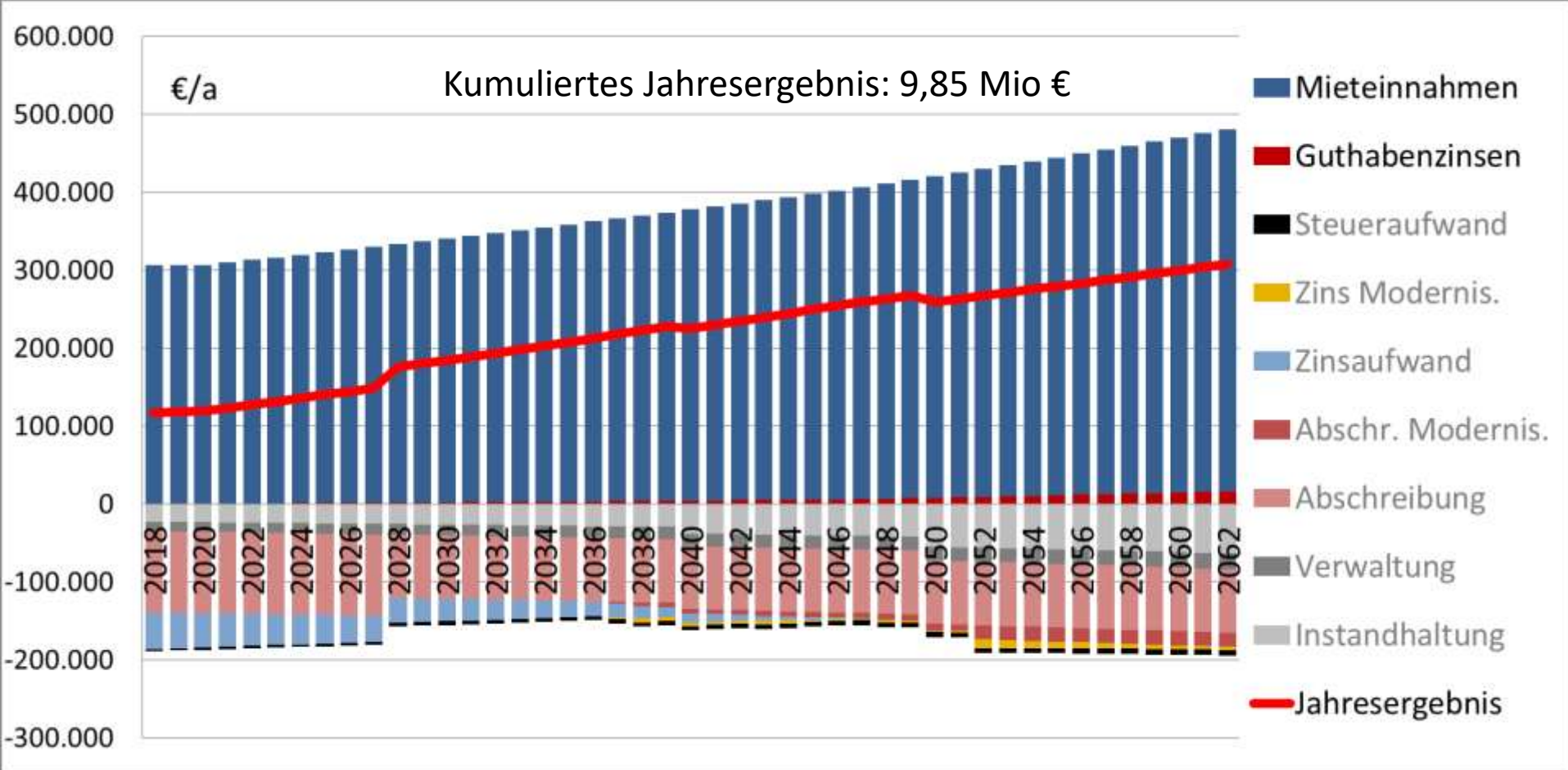
Beispiel Berlin: MFH, VIII - Vollständiger Finanzplan (VoFi) – Passivhaus



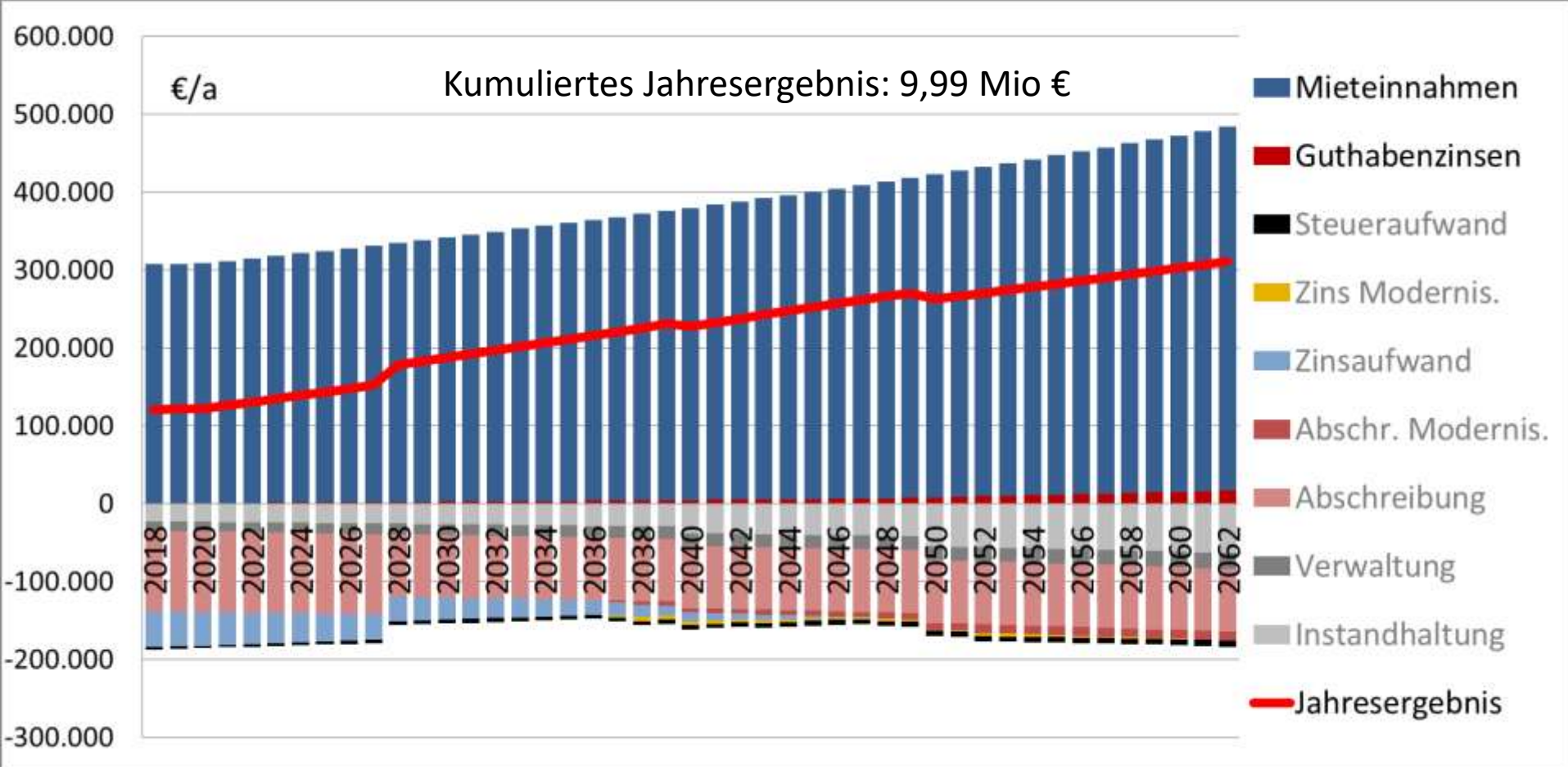
Beispiel Berlin: MFH, VIII - Vollständiger Finanzplan (VoFi) – KfW EH 40_{plus}



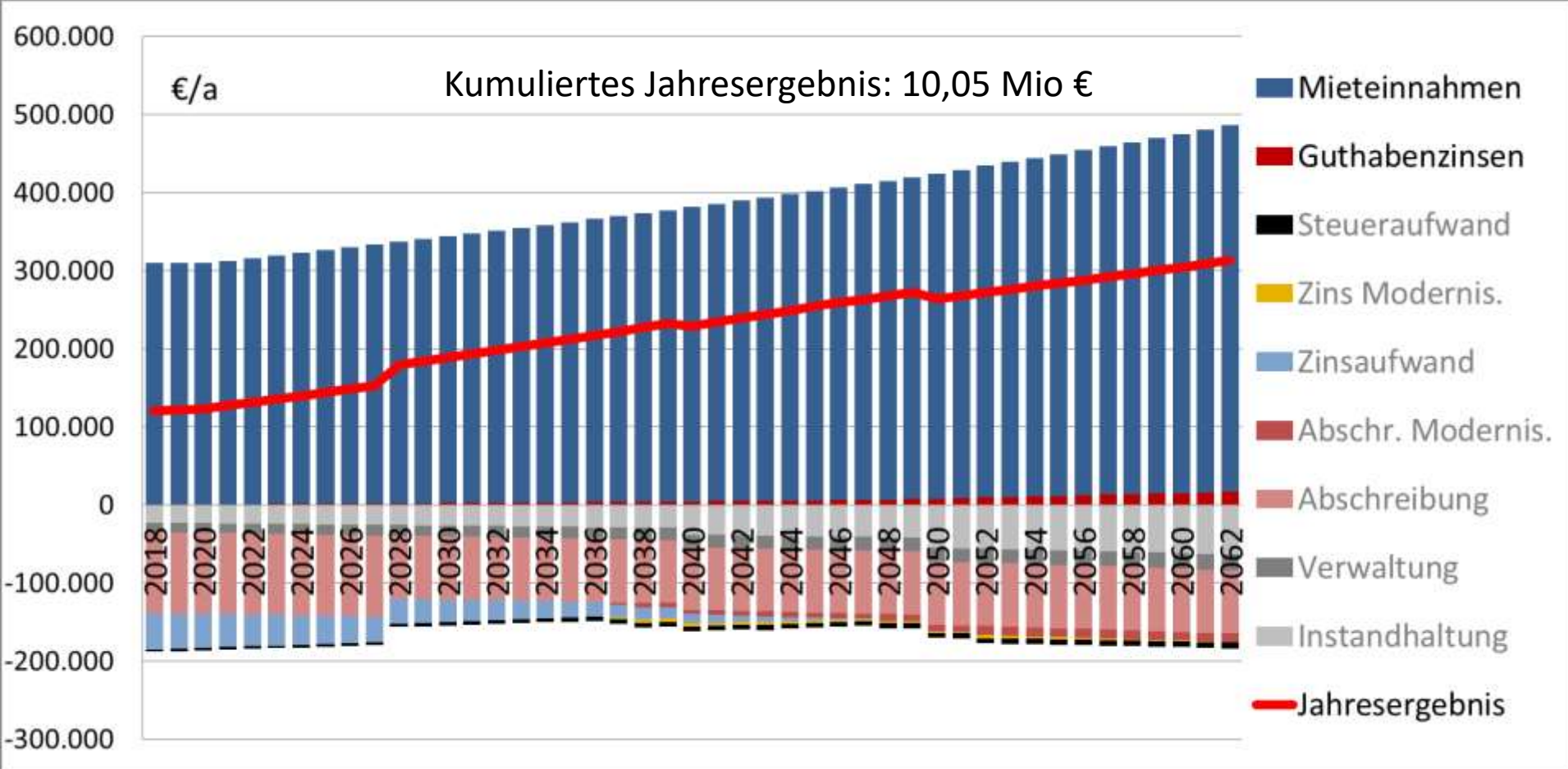
Beispiel Berlin: MFH, VIII - Vollständiger Finanzplan (VoFi) – Aktivhaus



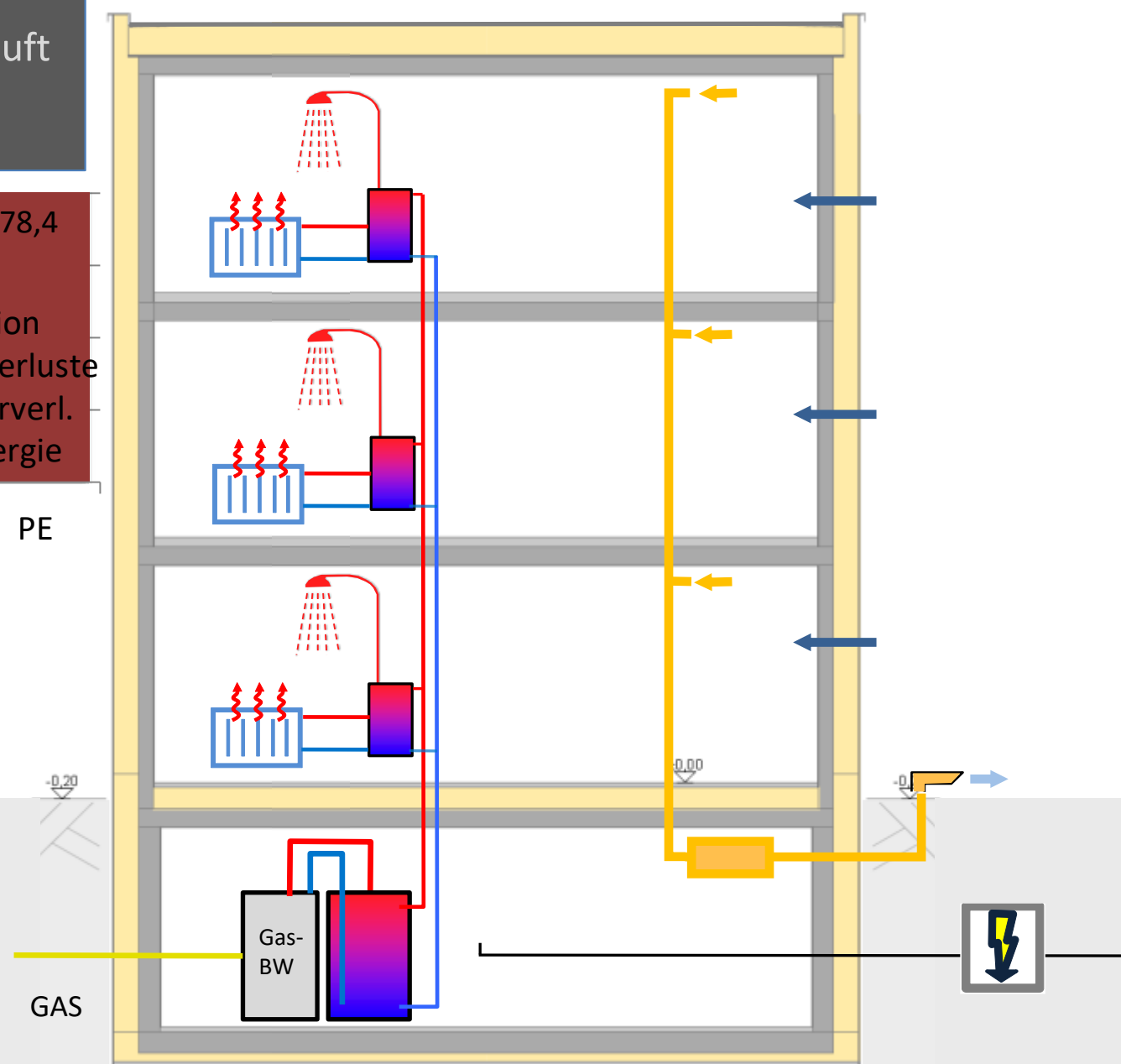
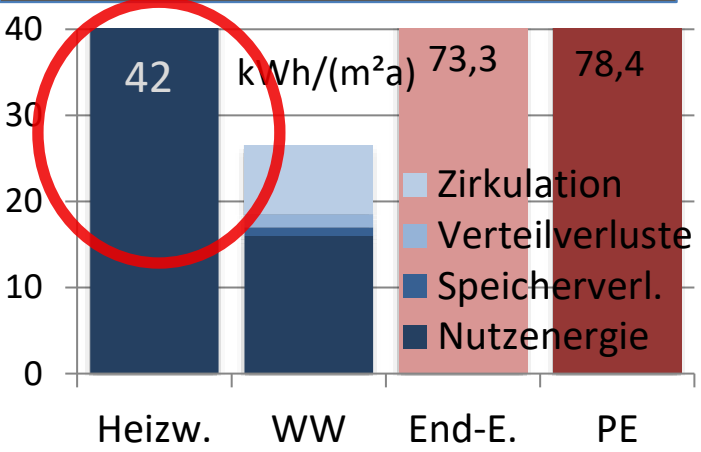
Beispiel Berlin: MFH, VIII - Vollständiger Finanzplan (VoFi) – PassivhausPlus



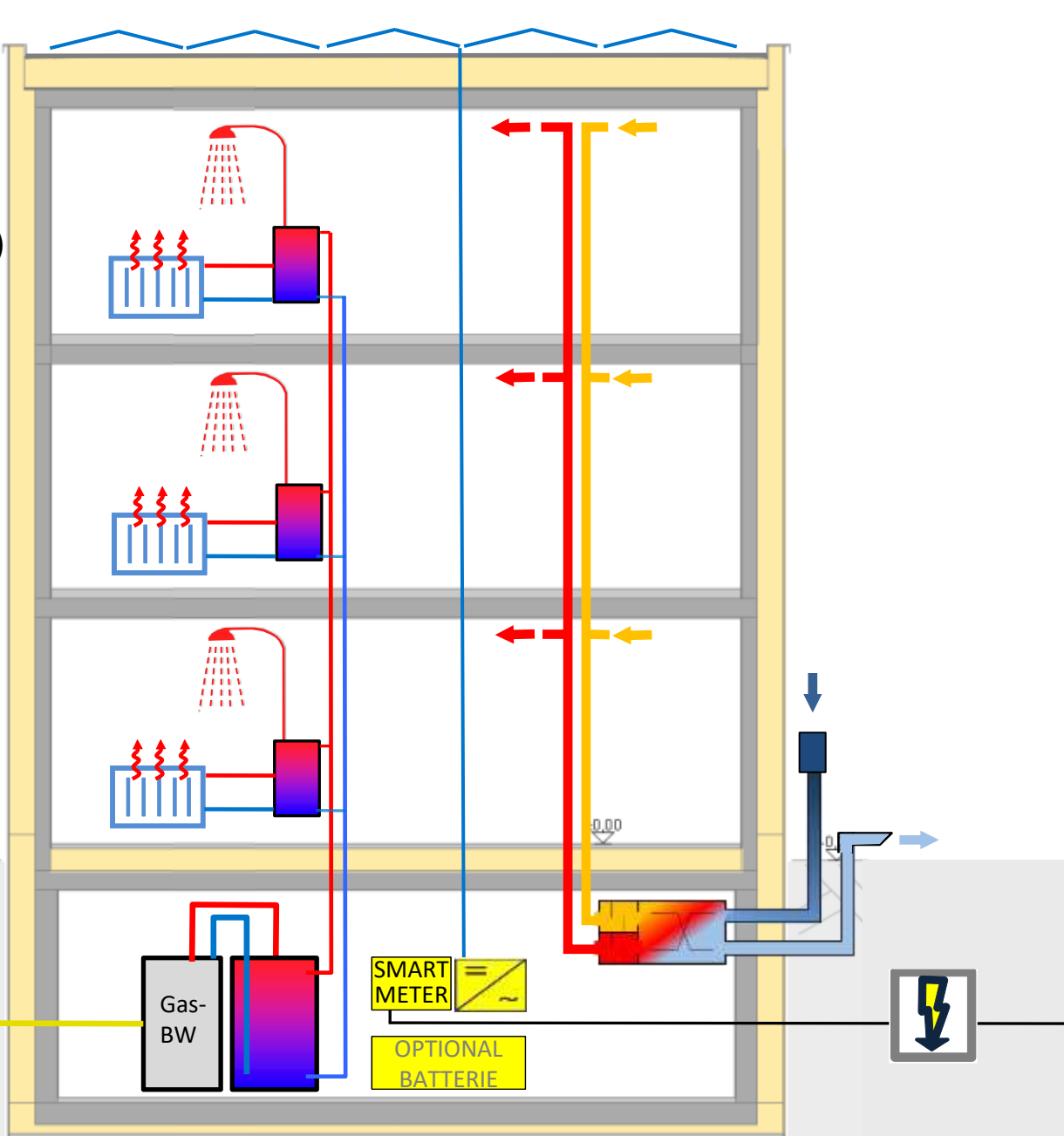
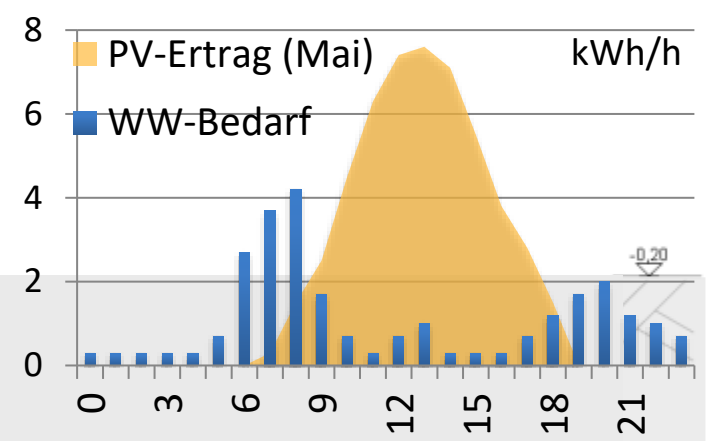
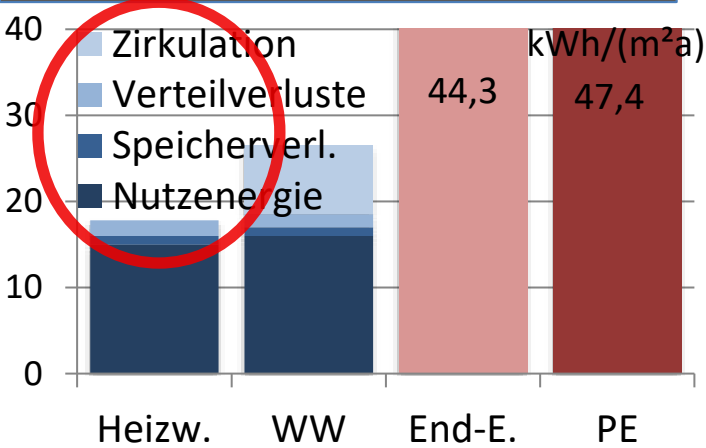
Beispiel Berlin: MFH, VIII - Vollständiger Finanzplan (VoFi) – PassivhausPremium



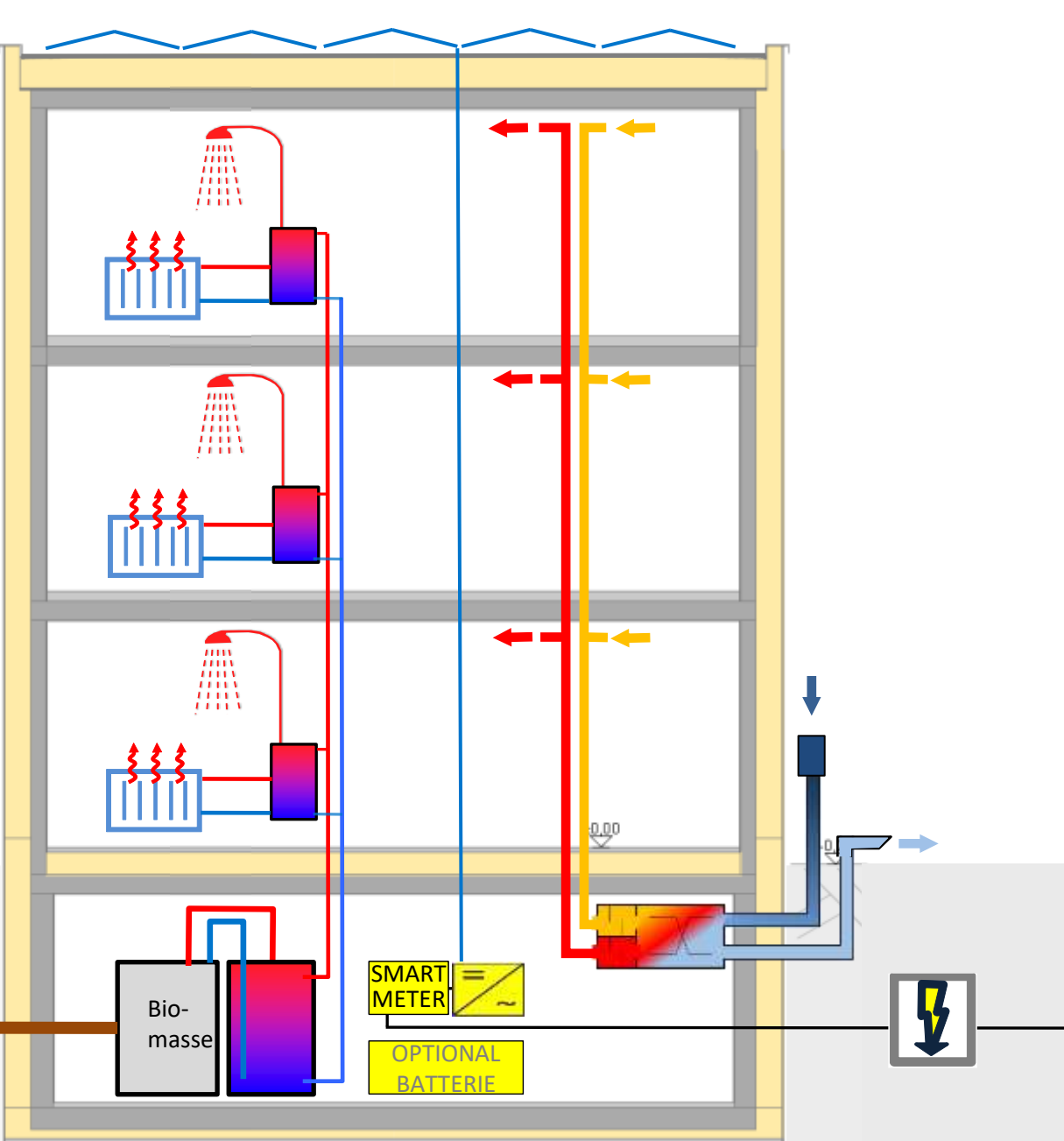
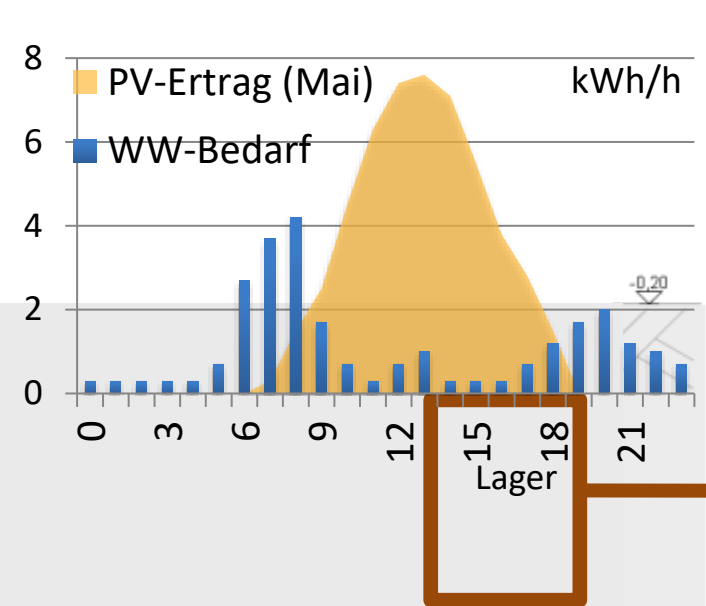
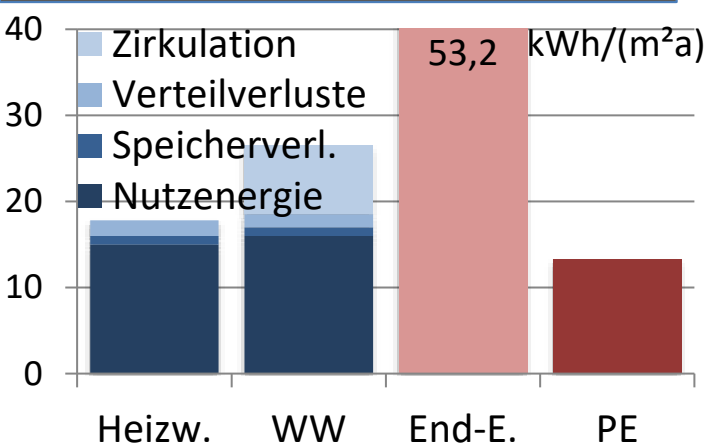
Heizung: Gas-BW-Kessel
 Lüftung: ventilatorgest. Abluft
 Warmwasser: Zentral wie Heizung
 Zentral wie Heizung



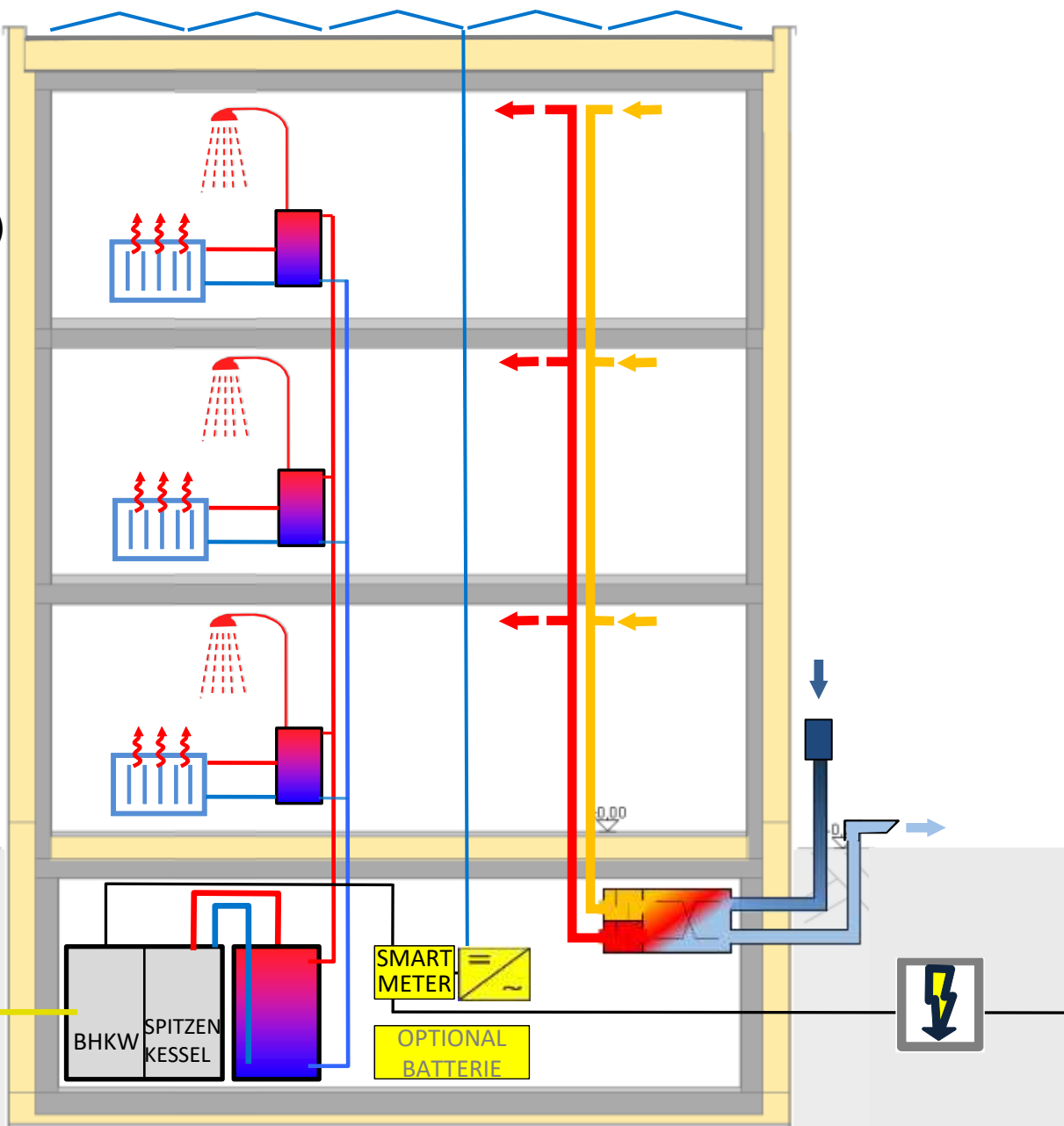
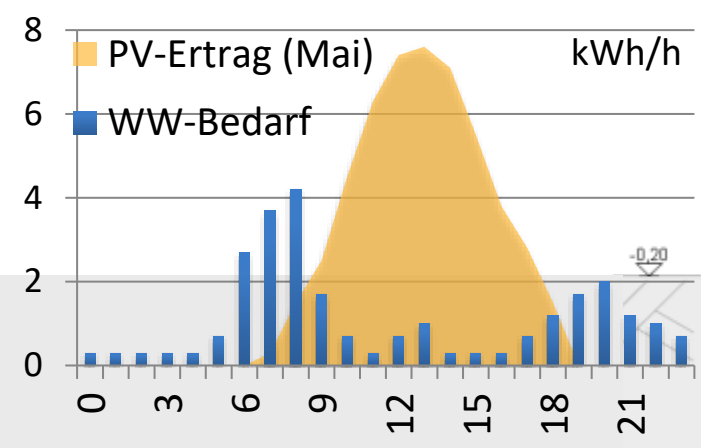
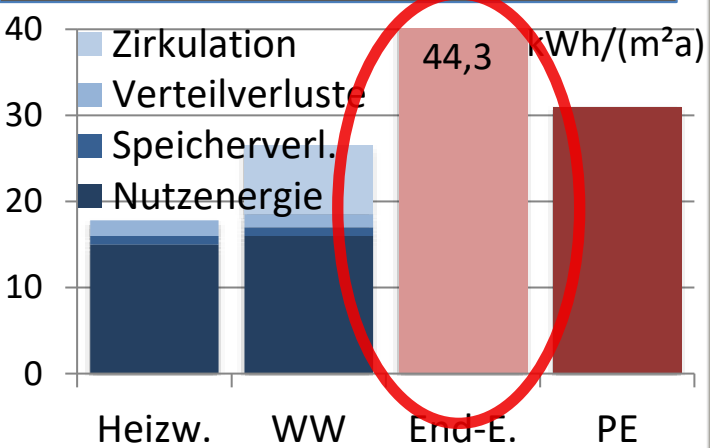
Heizung: Gas-BW-Kessel
 Lüftung: Komfortlüftung/WRG
 Warmwasser:
 Zentral wie Heizung



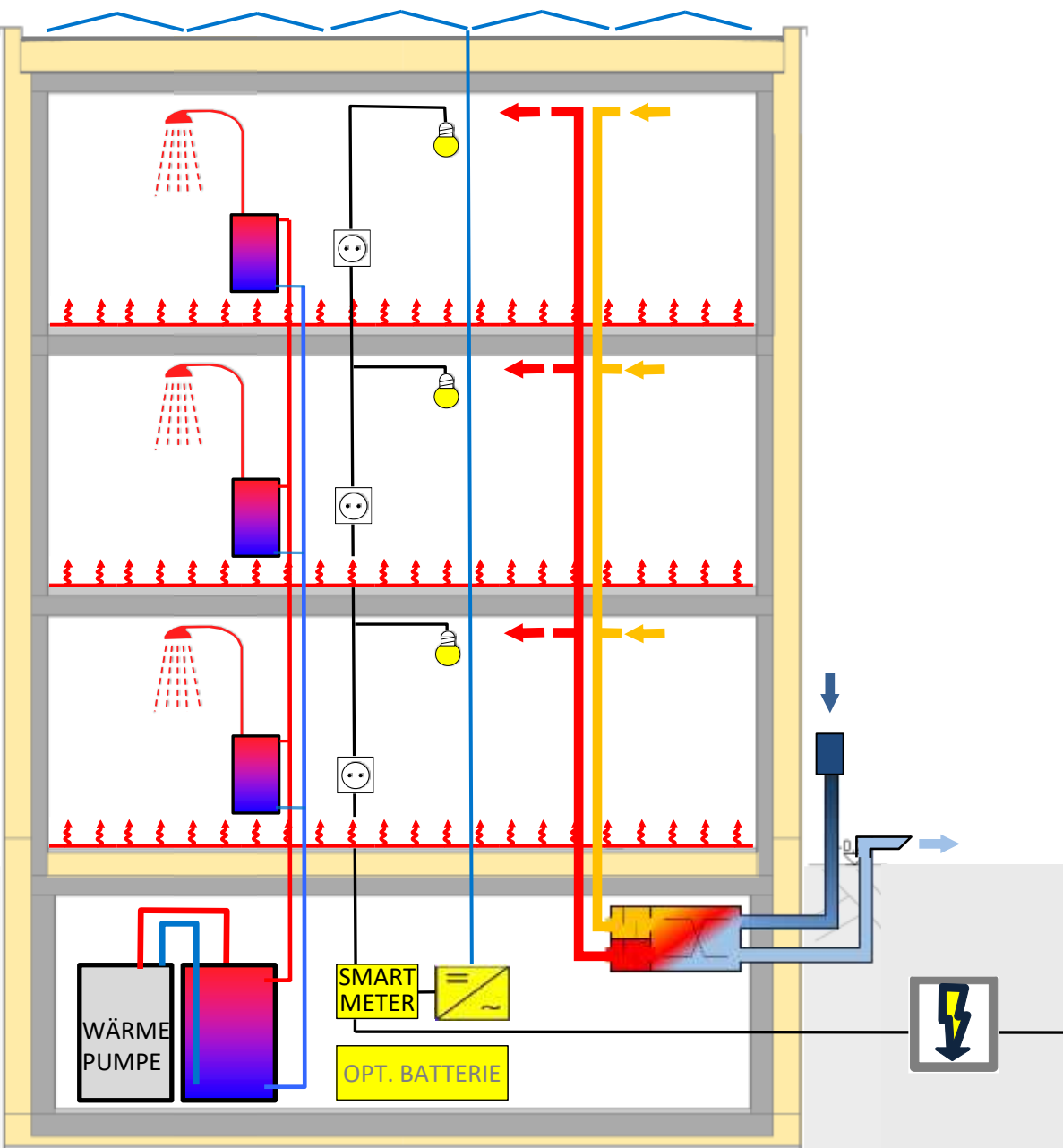
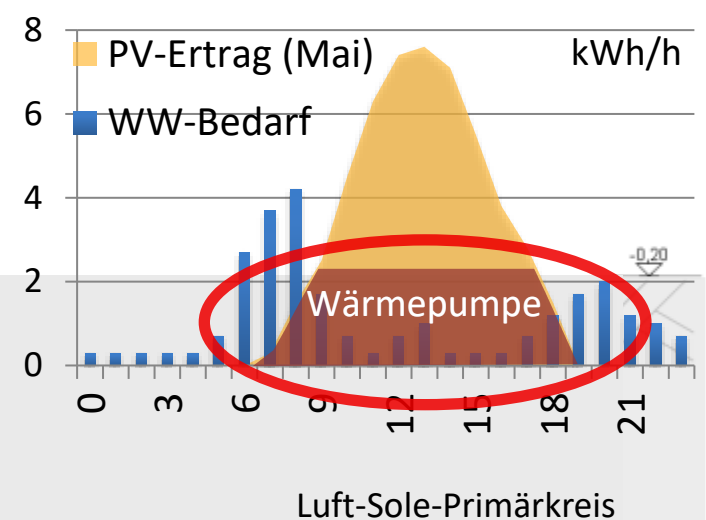
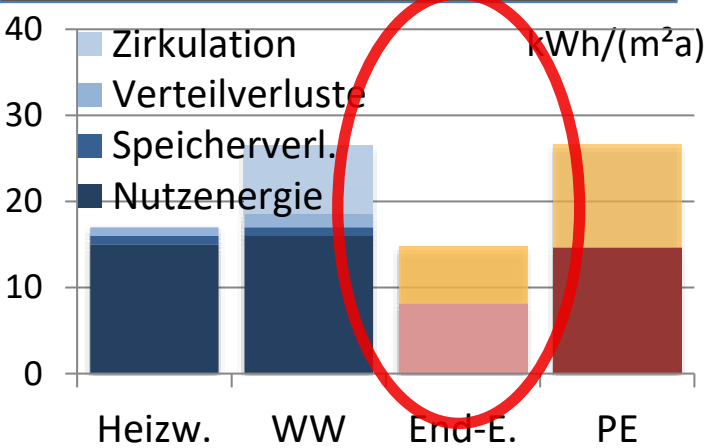
Heizung:
 Biomasse-Heizzentrale
 Warmwasser:
 Zentral wie Heizung



Heizung:
 BHKW & Spitzenkessel GasBW
 Warmwasser:
 Zentral wie Heizung

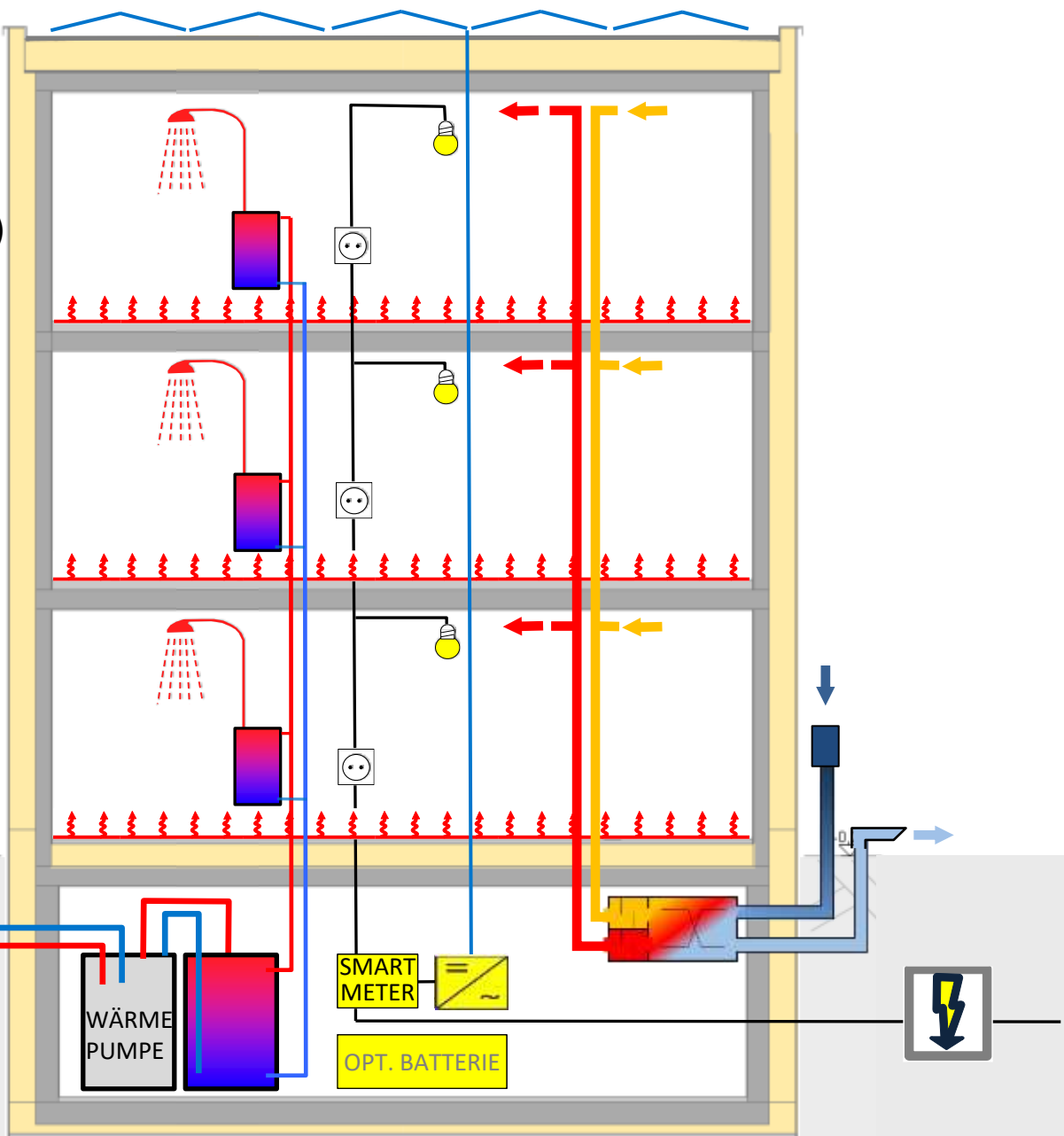
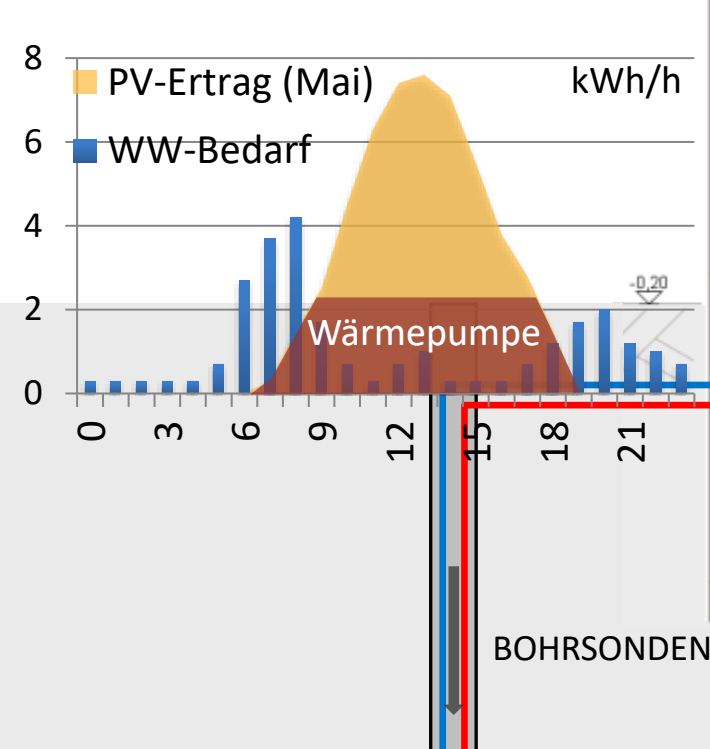
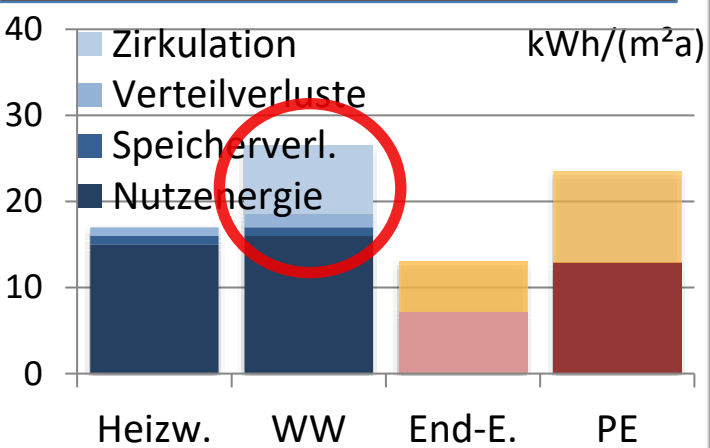


Heizung:
Luft-Wasser-Wärmepumpe
Warmwasser:
Zentral wie Heizung



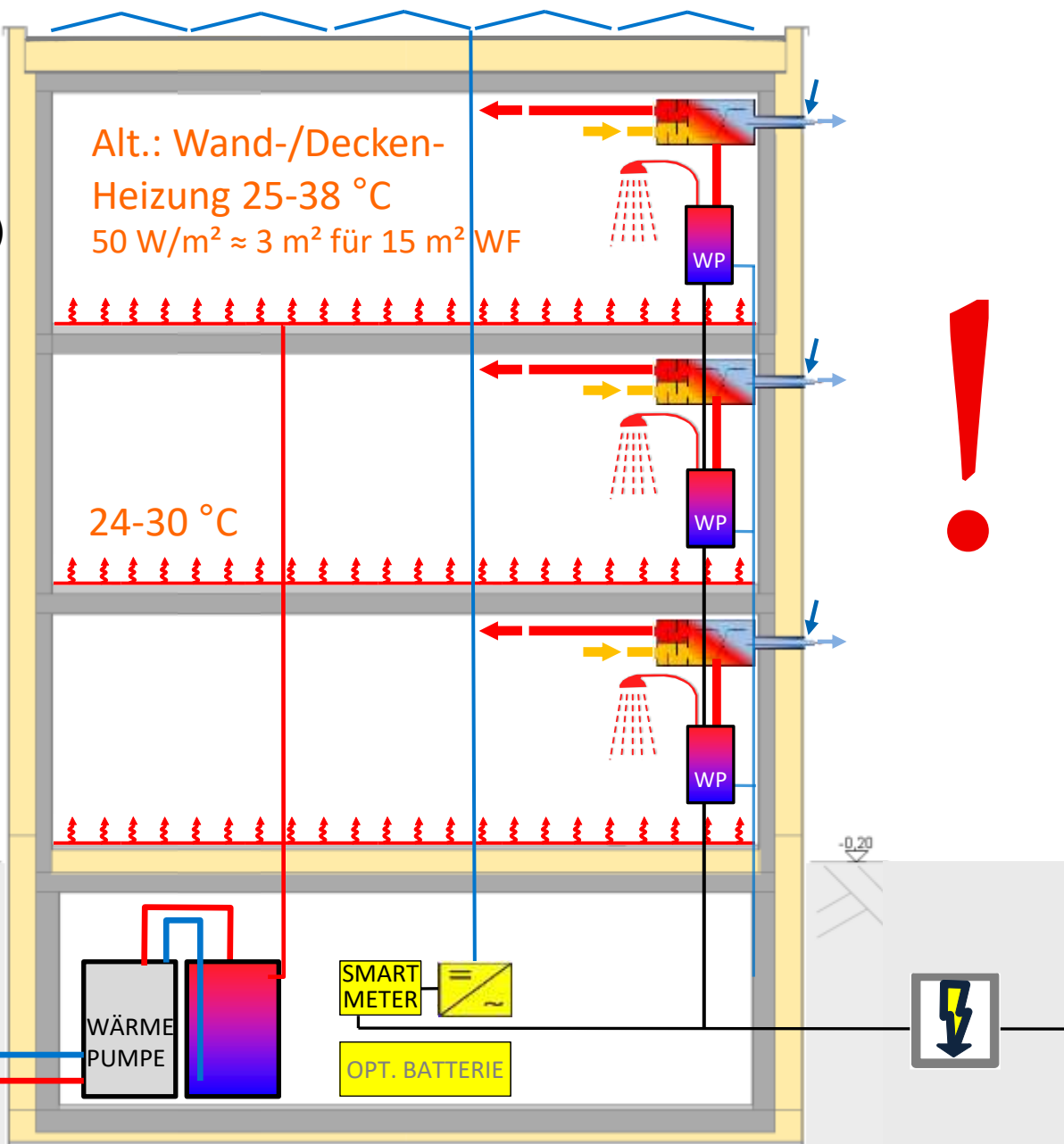
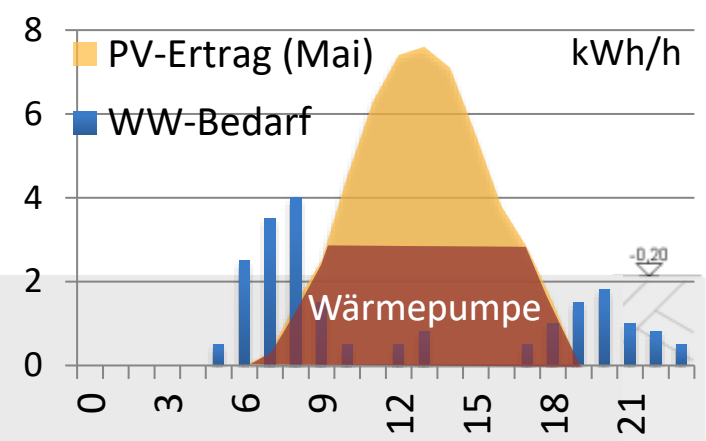
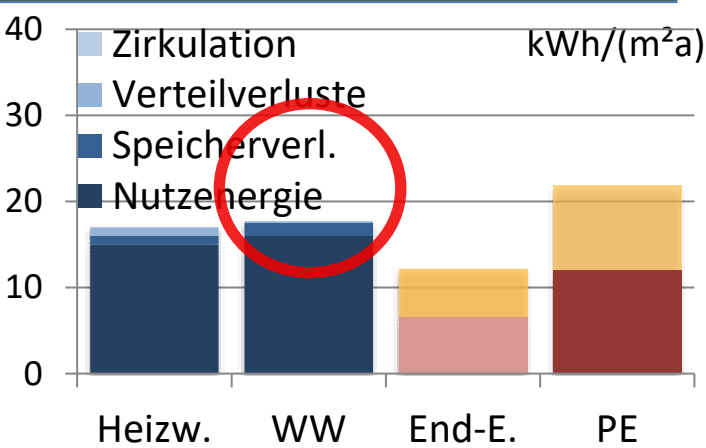
Quelle: Dr. Burkhard Schulze Darup Architekt

Heizung:
 Sole-Wasser-Wärmepumpe
 Warmwasser:
 Zentral wie Heizung



Quelle: Dr. Burkhard Schulze Darup Architekt

Heizung:
 Sole-Wasser-Wärmepumpe
 Warmwasser:
 Dezentral Speicher / MiniWäPu



FLÄCHEN-
 ABSORBER

Quelle: Dr. Burkhard Schulze Darup Architekt