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Supplementary data

Figure S1: Global costs and NRPE for different packages of retrofit measures on the building envelope: System A

Notes: System A = HVAC for heating and cooling; gas heater for DHW. Without energy restrictions, packages between 60 and 100kWh_{PE}/m².y, and with zero NRPE with the use of PV panels (packages over the y-axis, all with a balance of zero NRPE)

Figure S2: Global costs and NRPE for different packages of retrofit measures on the building envelope: System B

Note: System B = HVAC for cooling; gas boiler for heating and DHW

Figure S3: Global costs and NRPE for different packages of retrofit measures on the building envelope: System C

Note: System C = heat pump for cooling, heating and DHW

Figure S4: Global costs and NRPE for different packages of retrofit measures on the building envelope: System D

Note: System D = HVAC system for heating and cooling and solar thermal panels backed up by an electric heater for DHW

Figure S5: Global costs and NRPE for retrofit measures on the building envelope: System E

Note: System E = gas boiler for heating and DHW

Figure S6: Global costs and NRPE for different packages of retrofit measures on the building envelope: System G

Note: System G = biomass boiler for heating and DHW