




CAC Demonstration Pilot Project

Location	9700 Shumen, Bulgaria, Latitude: 43° 16' N Longitude: 26° 56' E
Microclimate	Continental climate zone
Size of each dwelling	30 m ² Total gross area – 1250 m ² Total heated area – 900 m ²
Number of dwellings	30
Type of dwellings	Apartment – one bedroom dwellings
Ventilation and lighting	Natural cross ventilation through opening of windows; Lighting in common areas is switched off automatically; Lighting in dwellings is individually controlled by the tenants;
Construction	Monolithic structure with concrete skeleton;
	
Heating	All dwellings are heated by electrical devices located in each living room
Cooling	None
Mechanical ventilation system	No mechanical ventilation



Control of the heating and cooling System	Common electricity meter for the entire building; Individual apartment meters installed; No cooling system;
Set Point temperatures	Temperatures in each dwelling are set individually by the tenants; There is no maximum temperature level;
Lighting system	Lightning in the apartments is all controlled by the tenants and therefore individual; Lighting in common areas is automated;
System used to produce hot water	Individual hot water heating appliances for each dwelling;
Measurement equipment used for energy monitoring	Individual electricity meters for each dwelling; Individual water meters for each dwelling; <div style="display: flex; justify-content: space-around;">   </div>
Energy consumption data	The electricity and water consumption is paid individually by the tenants on the basis of the individual consumption;
Potential for energy conservation	Improving the building envelope is desirable: <ul style="list-style-type: none"> - Insulation of roof construction; - Insulation of deck over non heated basement;
Water management	Cold water meter installed at building level in the basement; Individual water meters for each dwelling;