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HEATHCOOL

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Sunamp Heat Batteries"







ELECTRICITY | NATURAL GAS

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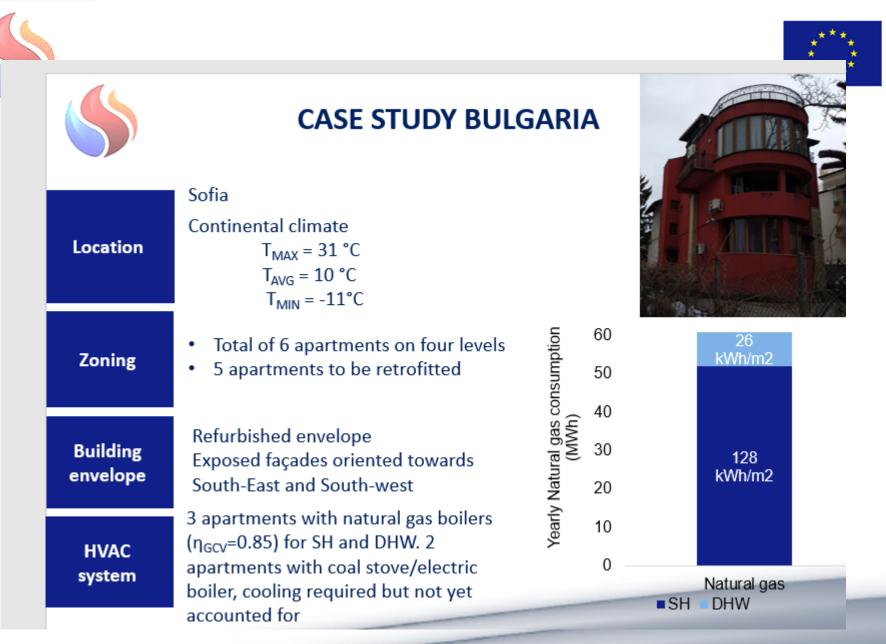
Presentation of Pilot site: Sofia

Emil Vitanov (Balkanika Energy)



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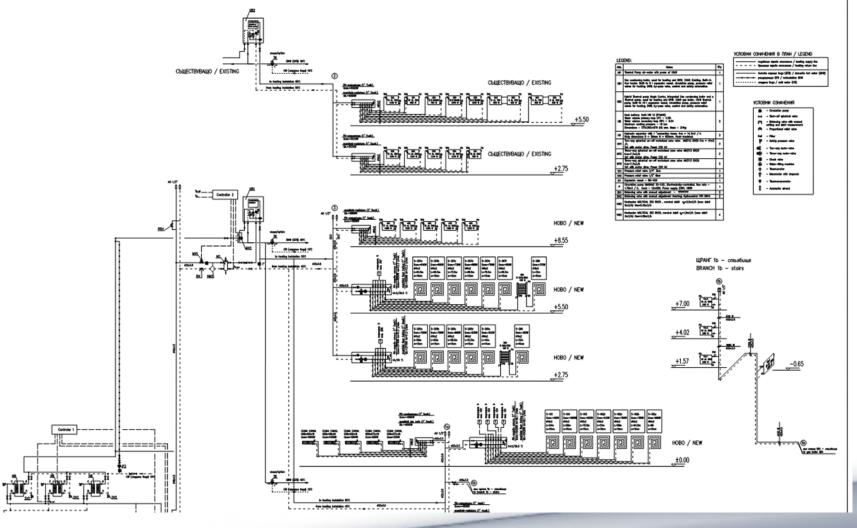








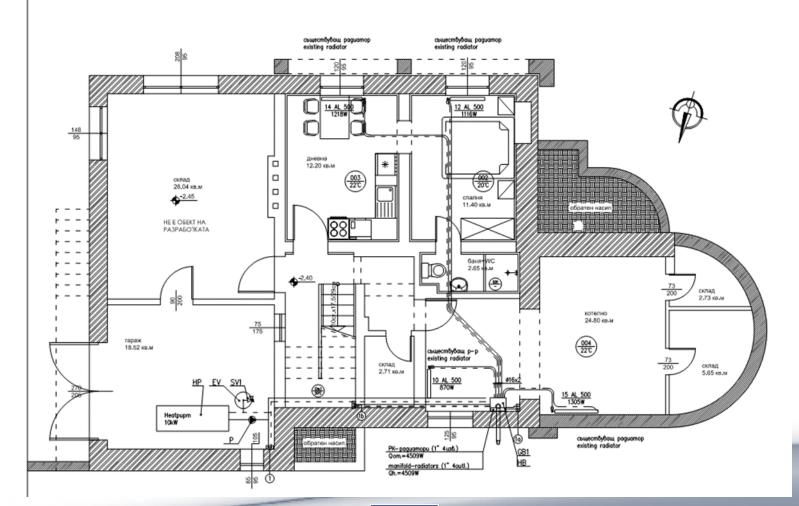
Retrofitted system in Sofia







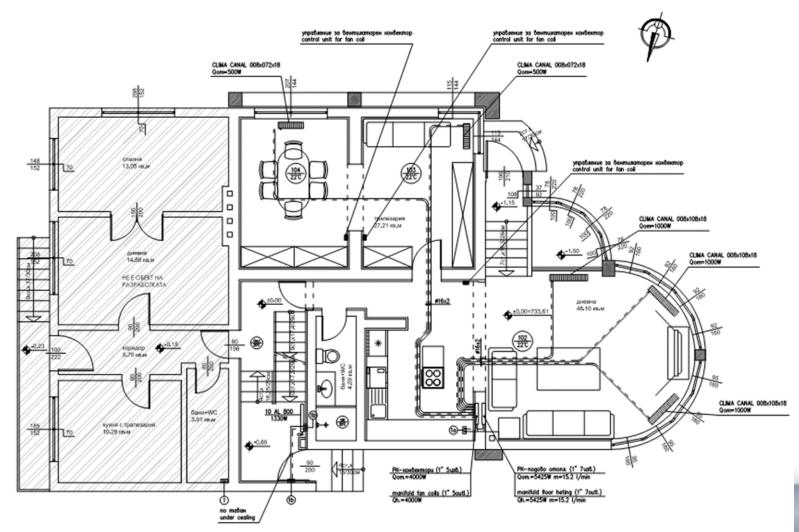








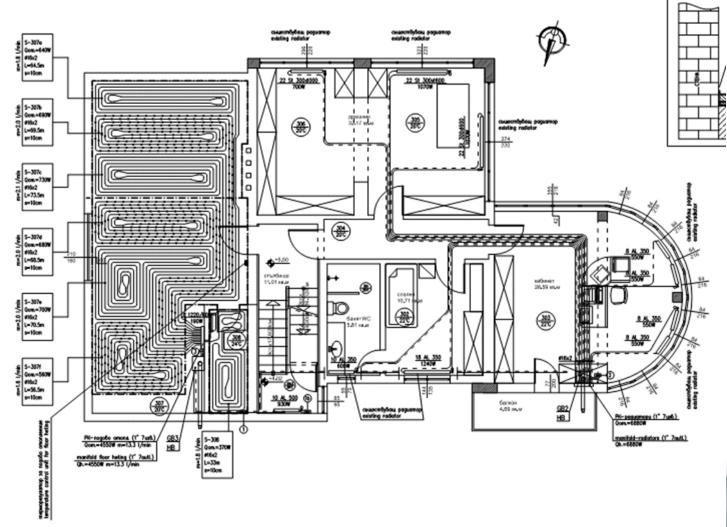








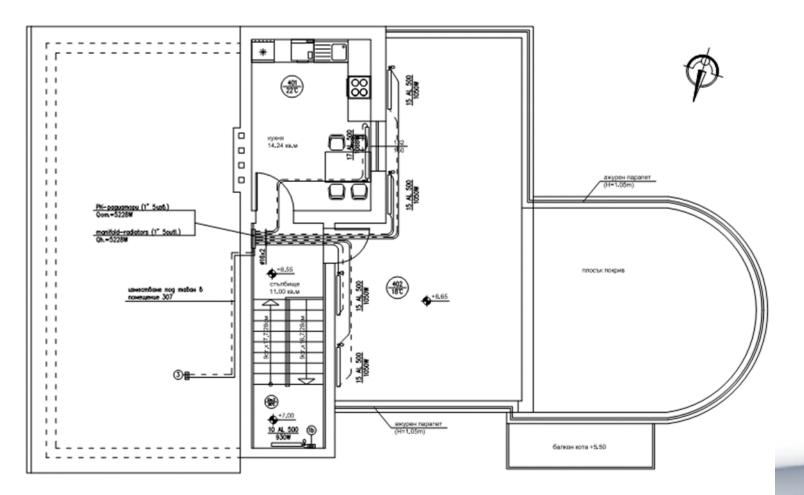




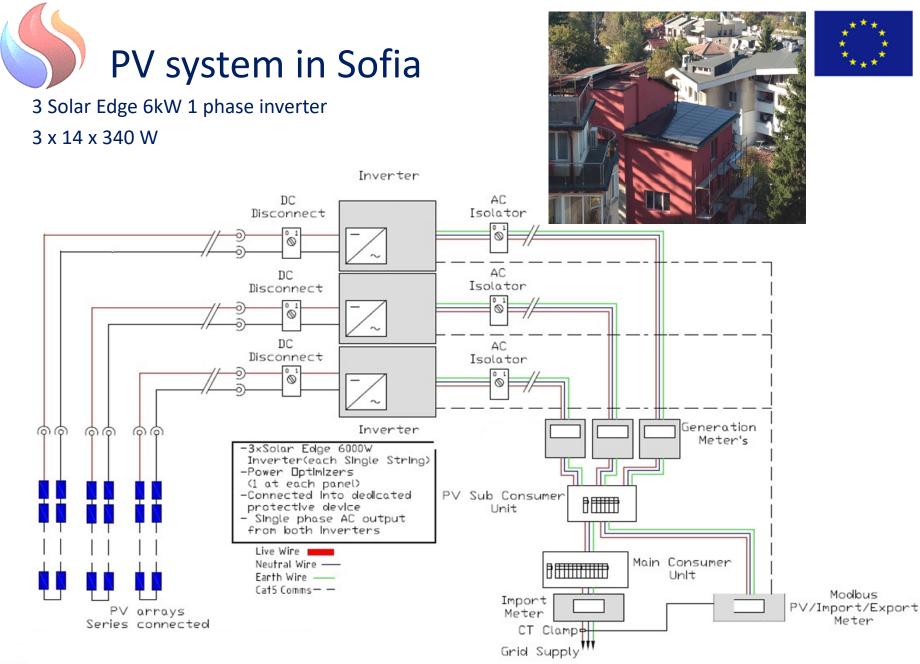
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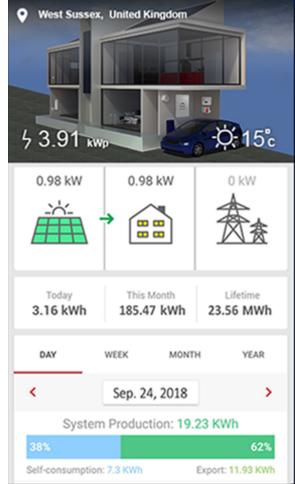




Building Energy Management Syste<u>m – Solar System</u>

 Solar Edge SetApp monitoring Platform is perfectly integrated with the installed system so that the solar energy generated can be monitored in detail. The photovoltaic system is connected to the electricity distribution network









Heat pump and heat batteries

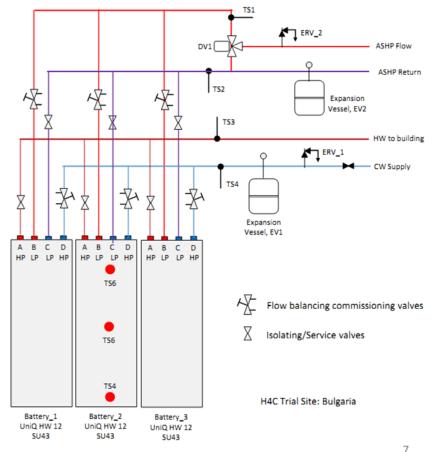






Building Energy Management System – Control of Heat Batteries and Heat Pump

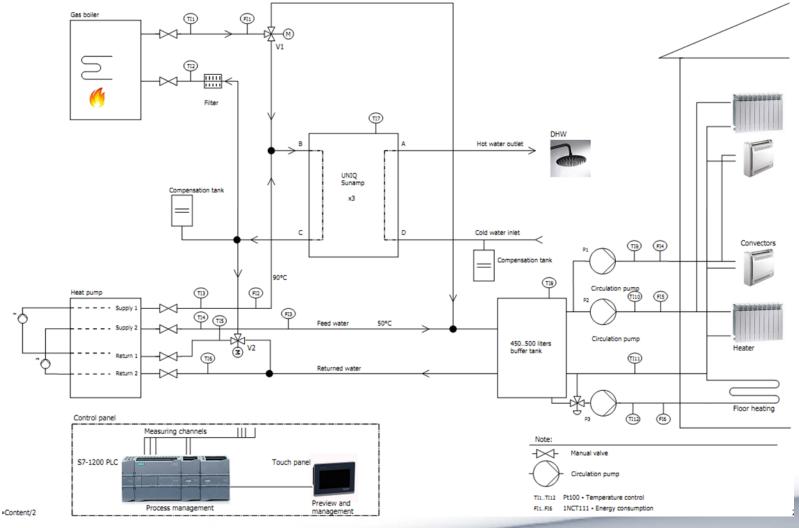




- When the heat battery charging demand is generated, the controller switch on the heat pump run demand signal.
- When the heat batteries are charging, the valve DV1 controls the charging flow temperature between 53oC and 55oC
- The pump also turns on when there is flow in outlet pipe to supply preheated water to the gas boilers.



Building Energy Management System – temperature control

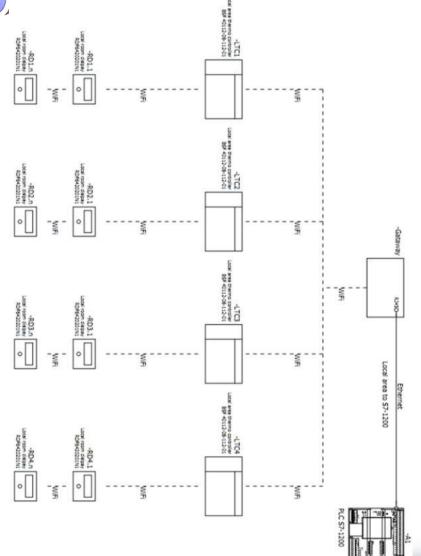






Local temperature controllers









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Thank you. Emil Vitanov eco_projects@abv.bg

