

BUILDING SERVICES SYSTEM CONCEPT

The building services systems concept („Building services systems study“) is documented in the graphic and the text part.

Graphic part contains a block diagram or other diagram showing the concept of heating, cooling systems, DHW, ventilation, electrical distribution, water supply, drainage system, gas supply with a description and marking of mutual connections. It solves the supply of heat, cold, electricity, water, waste water disposal and ventilation.

The diagram should contain:

- Connection to engineering networks (gas pipeline, heat pipeline, electricity network, water supply, sewerage, etc.), fuels (coal, wood ...), environmental energy (solar energy, geothermal energy, air energy, water energy...)
- Sources (heat, cold, electricity, water, hot water), air handling units with a basic description
- Interconnection of energy systems and zones, briefly characterize the method of energy distribution in the building (e.g. hot water system, cooling water distribution, drinking and hot water distribution, waste water, power electricity distribution...)
- End elements (e.g. radiators, surface heating, fan-coils, cooling beams, sanitary appliances,..) according to individual zones - division of the building into operating units

Text part is in the form of an accompanying report containing:

- The nature and location of the building, the number of users and a description of the operation, purpose and content of the project (new construction, reconstruction)
- Brief description of the technical solution of the concept of individual systems shown in the diagram, including spatial requirements in the breakdown
 - Heat supply,
 - Cold supply
 - Electricity supply
 - Water supply
 - Wastewater disposal method
 - Concept of ventilation and air conditioning of individual zones