



Container heat generation solution at the Hostomice – Zátor Seniors' Home

System/Solution:	Replacement of an obsolete coke boiler facility with a modern wood-pellet biomass container solution with installed boilers with output of 250kW
Fuel:	Wood pellets
Fuel delivery method:	Modern tank with ENplus A1 certification and integrated dust extraction
Annual fuel consumption:	88 tonnes of pellets
Size of fuel stock:	16 tonnes
Volume of delivered heat:	1 500 GJ
Achieved annual heat cost savings:	25%
IVORY Energy solution includes:	Formulation of a proposal of the optimum heating method, project documentation, arrangement of the building permit, 100% financing, construction and subsequent operation of the boiler facility, continuous remote monitoring of operation from central dispatching, delivery of fuel using a certified tank

Implementation details

The Hostomice – Zátor Seniors' Home is located in the town of Hostomice in the Beroun district. In a quiet, green area, the home provides residential services for people with diminished self-sufficiency due to age and requiring regular assistance. The home's capacity is currently 67 beds. The existing coke boiler facility, which provided both heat and hot non-potable water, was located in the basement of the main building. The utilized boilers were at the end of their service life, functioning with measured efficiency below the level of 60% and manual feeding with fuel brought from an adjacent room with a cart. Due to the technical condition of the equipment, which was already mostly worn out, it was necessary to find a fast and effective solution. IVORY Energy presented to the Seniors' Home an ambitious project involving a container wood-pellet heating plant. The project consisted in installation of top-tier wood-pellet boilers with output of 250 kW together with an adequate fuel storage space in the prepared container, whose appearance was modified so that it would fit in with its surroundings. The biomass container was assembled outside of the Seniors' Home complex and transported to the location on a freight vehicle equipped with a crane arm, which placed the heat source on a structurally modified site, from which it was subsequently connected to the existing heating mains. The entire project included design of the system, structural preparations and connection to the existing mains. After putting the complete heating system into operation, IVORY Energy is also ensuring its subsequent operation, regular fuel deliveries using a certified tank, 24-hour remote monitoring and, if necessary, complete maintenance. The IVORY Energy biomass container boiler facility fulfilled the expectations of the Seniors' Home for a fast, efficient and economical solution for replacing the obsolete heat source without any financial involvement on the part of the client.

