

OBJECT	6-SK cor	SUE RYDER		
Location:		Skopje	Date visited:	05/10/2023
Activity:	HTH	Gerontologic Center	By:	Petar Grncharovski
No.of objects within:	4			Darko Todorovic
Area, TOTAL [m2]:	9120		Property list:	no. 94700 (G.Petrov 3) 4468
Dist.from gas network:	2400m		Estim.cost:	200000
Dist.from district heating:	2700m		Estim.cost:	245000
Estim.heat demand [kW]:	1459			
Contact:		dr.Salija Ljatif Pertrusovska, director	078/876-900;	
		Goran Andreski MEng, tech.maintenance	070/350-758;	
CURRENT CONDITION				
General:	Old facade w/o insulation; PVC windows except in administration part			
Heating system:				
- Boiler room position:	ground level, separate object			
- Neighbouring facade:	available	(for possible installation of outdoor gas boilers)		
- Boiler:	<i>year</i>	<i>manufacturer</i>	<i>capacity [kW]</i>	<i>burner</i>
unit 1	1995	Eurowarm PREX800, Italy	930	Ecoflam Italy Maior P120ABTC-70-120kg/h
unit 2	1995	Eurowarm PREX800, Italy	930	Ventilator Venterm Croatia 60-120kg/h
unit 3				
- Fuel/Consumption [l/y]:	light oil (EL)		/ 120000-140000	
- Regulation:	manual			
- Heating units/ number:	cast iron radiators		/ 760, apx	
- Heating units valves:	standard - manual		(w/o temperature regulation)	
Altern.energy source:	CNG / space for CNG supply station in the part of yard, need for reorganizing outdoor (to be checked)			
Remarks:	Boilers 2pcs. main+spare; Substation in Sue Ryder; DHW heater 3000lt - 16x12kW			
RECOMMENDATIONS				
General:	Energy efficiency measures on the facade, roof, windows and DHW production (not part of this project)			
Heating system:				
Option 1				
- Boiler room measures				
- Boiler room position:	remains same			
- Boiler room installation:	complete refurbishment of installation with implementation of frequent regulated pumps, new valves and temperature/pressure measuring devices, balancing and control valves, pipes insulation			
- Regulation:	automatic depending on external/internal temperatures			
- Preparational works for new boilers installation:	connections for new boilers to be implemented in the boiler room design in case od outdoor boiler type; existing light oil (EL) boilers remain as main heating source until new boilers are installed			
Option 2				
- Secondary heating network measures				
- Heating units:	dismantle from pipe network, adequately clean and install back			
	existing manual radiator valves to be replaced with thermostatic valves			
- Raiser:	valves replacement, balancing and drainage vallves to be implemented			
- Pipe network:	spaces where heating not necessary, pipes to be adequately insulated			
Option 3				
- New boiler installation measures				
- New boiler:	installation of gas boilers with dual burner gas/oil alternatively outdoor gas boilers on facade wall			
- Back-up heating:	existing light oil (EL) boilers remain as spare			
Remarks:	possibility if existing boiler room fulfills the condition for usage as gas boiler room to be checked, altern. outdoor gas boilers that are to be installed on outdoor wall are recommended and existing light oil boilers are to be utilized in exceptional cases ex.gas supply interruption, failure on the gas boilers etc.			