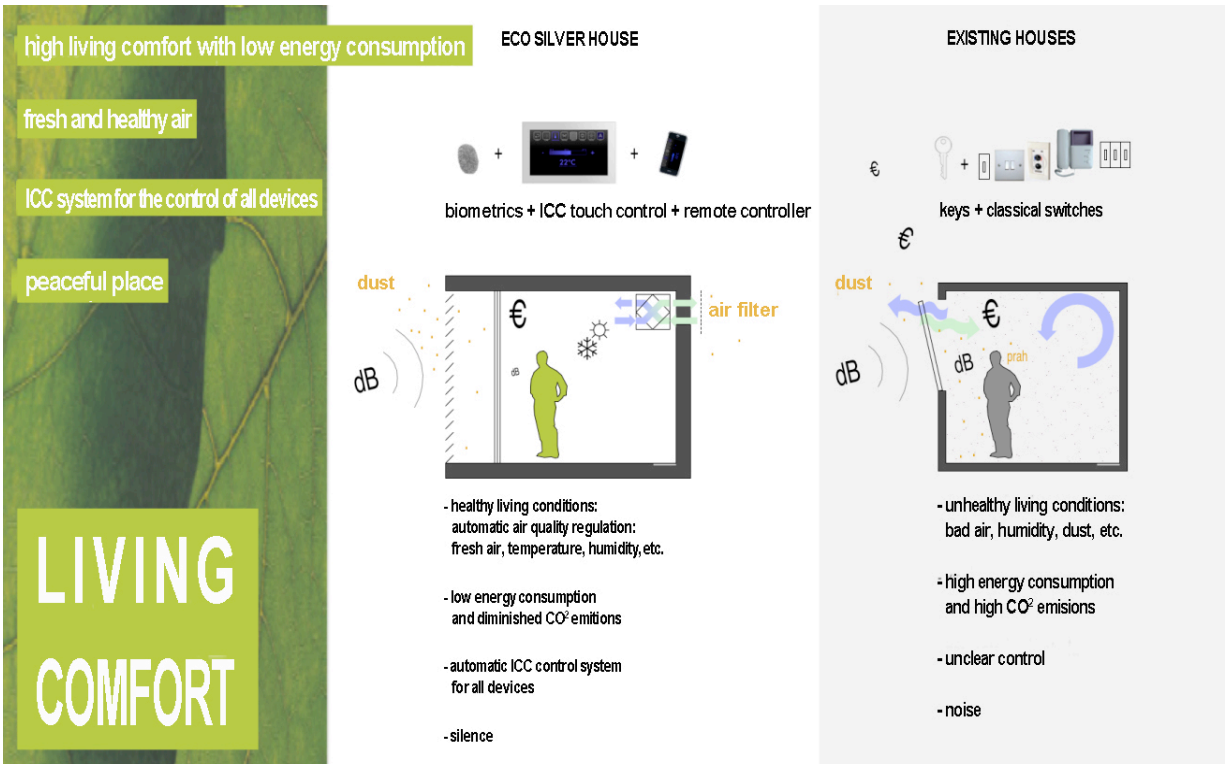
THE FEATURES OF THE ECO SILVER HOUSE APARTMENT BUILDING:

1.		General information:	
1.1		location	Ljubljana, Slovenija
1.2		square meter of land	3.717 m2
1.3		walled up area	1.568 m2
1.4		the net / gross floor area of the entire building	23.455,89 m2 /26.795,99 m2
1.5		net / gross floor area	9.976,00 m2 / 12.992,11 m2
1.6		net / gross heated area	12.268 m2 / 14.260,00 m2
1.7		total number of floors:	17
		parking basements	4
		ground floor with gates and business premises	1
		mezzanine with storerooms	1
		residential floors	9+2
		floors with duplex apartments	2
1.8		number of residential units	128
1.9	P	number of parking spaces in the basement garage	279
1.10		green roof	750 m2
1.11		solar plant: power / annual production	33 kW / 34,3 kWh
1.12		reservoir for rainwater: m3 / water savings	60 m3 / cca 500 m3
1.13	LOW CO_2	energy consumption for heating	8 kWh/m2a (EI) 14 kWh/m2a (PHPP 2014)

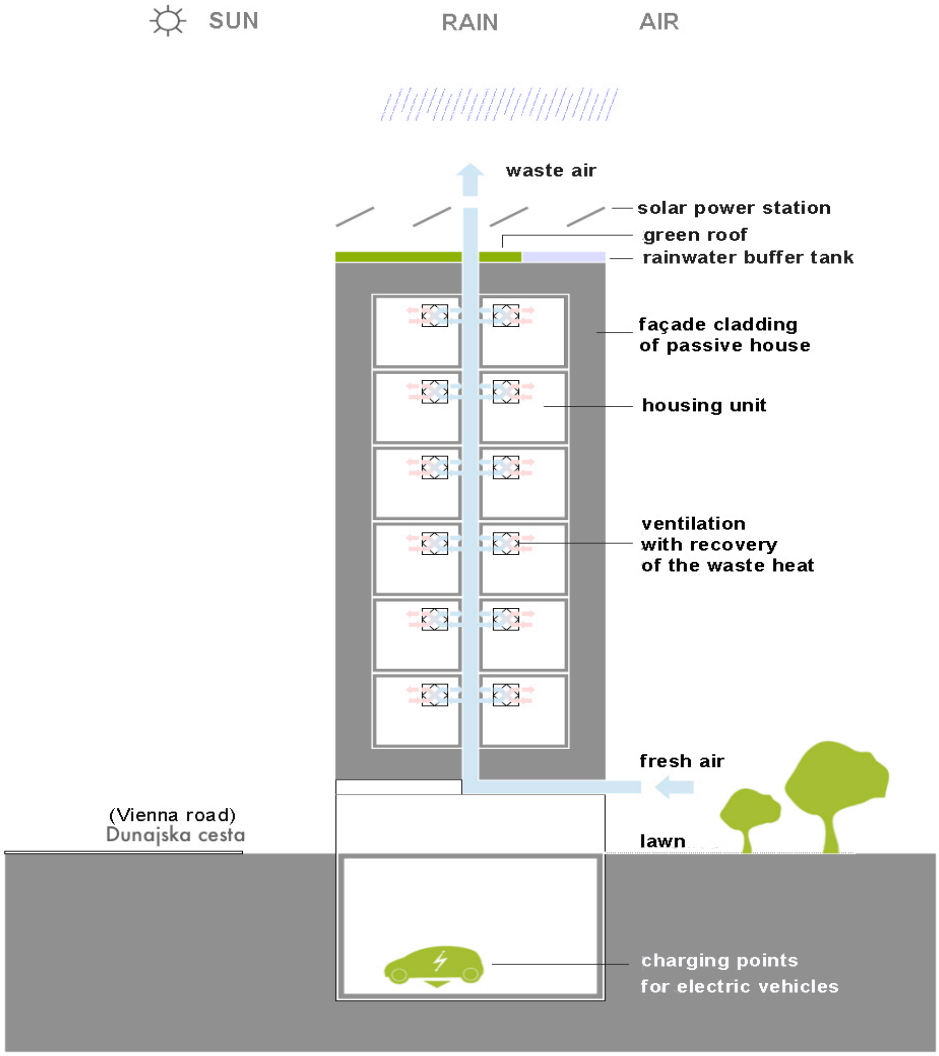
TECHNICAL DETAILS OF THE ECO SILVER HOUSE:

2.	**Healthy environment and high indoor comfort:**	
2.1	air quality / continuous change of air:	CO_2 , ozone, odors, within the normale range 24ur /day, every day of the year. Changing the air at least 30m3/person/hour
2.2	ideal temeperature in the room/ considering current outside temperature:	20 – 26°C
2.3	moisture in the air:	up to 60%
2.4	insects, particulates (dust, pollen, etc):	filtered air intake, filters G4 (F6 optional) Brink Renovent HR
2.5	noise / windows closed:	≤ 24dB
2.6	user-friendly application for apartments / IKC:	automatic operation devices



3. High insulated building envelope

	Implementation of the envelope by passive standard on PHI principles, RAL windows installation, ventilated airtight apartments	U value - W/m2K
3.1	walls p1	0,18/ implementation 0,16
3.2	roof e3	0,11/ implementation 0,11
3.3	Roof, terraces e1	0,16/ implementation 0,17
3.4	floor towards mezanine	0,18/ implementation 0,16
3.5	windows and doors/ PVC frame and triple glass	U_g=0,6 and 0,5; U_w≤0,9W/m2K



4. Technique in the apartments:

A	Systems and equipments in the apartments related to the ICC (Intelligent control centre)	Integrated systems for automatic mode to ensure the comfort and pleasantness in the apartments
4.1	HEATING	
	source: district heating	STP – residential heating station/ ICC
	living rooms	Radiator or convector heating / stearing valves / temperature sensor in the living room / ICC
	Sleeping rooms and other spaces	Radiator heating / termostats
4.2	HOT WATER HEATING	
	source: district heating / STP - residential heating station / consequant preparation without hot water reservoir	STP - residential heating station / 30% energy savings for DHW heating
4.3	VENTILATION SYSTEM	
	Ventilation device with heat recovery in the ventilation system – heat recovery exhaust air	Brink Renovent
	Constant exchange of air in the apartments	min 30m3/h person / 100 – 400m3/h on apartments
	Heat recovery unit's efficiency	≥85% po PHI
	controling of ventilation	control the amount of air through the ICC / air quality sensor in the living room
4.4	CHILLING	
	Air duct integrated into the ventilation system	cooling and dehumidifying the air in all rooms / ICC
	controling of cooling and dehumidifying	humidity sensor in the living room and data from the weather station / ICC

4.5	COOLING	
	Pre connectors of installations for split air conditioning	mounted split air conditioner in the large apartments and studios, in other apartments it is installed on request.
4.6	EXTERNAL BLINDS	
	automated external blinds / solar gains in winter and shading in the summer	automatic operation depending on the solar radiation and seasons of the year / managed by ICC
	controling of the shades	Automatically and manually through ICC
4.7	LIGHTS CONTROL	
	living rooms / other rooms as an option	lights control via ICC
	hall	sensor lamp
4.8	SOCKET CONTROL	
	selected socket in the apartment	socket on/off via ICC
		Devices control from a distance/ICC
4.9	IP VIDEO INTERCOM	
	vehicles access to the garage	Remote control for residents, visitors video intercom /ICC
	entrances / foot access	Video intercom / ICC
4.10	BIOMETRICS DOOR OPENERS	
	the main accesses into the building and inside the building	biometrics readers in the system and the key
	apartment's front door	independent biometric reader and the key

4.11 CHARGING POINTS FOR ELECTRIC VEHICLES

Charging points for electric vehicles	charging points in the garage (Avant car)

4.12 SMART COUNTERS

Common electricity use, rain water savings, energy obtained from solar power plant	Data control of the common energy and water use and savings / display data on ICC

4.13 RAINWATER HARVESTING/

Rainwater collecting system on the roof for flush toilet's tanks	water current data and water consumption savings / display data on ICC

4.14 ALARM / technical security

residential units - apartments	indipendent alarm in each apartment / connected to ICC
Entrances, common areas and garage	Total video surveillance

4.15 WEATHER STATION

Measuring current weather data/ on the roof	temperature, pressure, humidity, wind, solar radiation / displayed on ICC
Using of measured weather data on ICC	Implemented scenario for the ICC

4.16 ICC CONTROL / Intelligent Control

Center for systems management:	automatic control of all devices and systems in the apartments / scenarios: auto, indoor, out, EKO, custom settings...
Control devices and systems in the apartment: - HVAC (heating, ventilation and cooling) - shades control - lights and sockets control - video intercom and access control - weather station - consumption control - remote control	ICC touch screen and smart phone remote /or controling through: TV, computer, tablet, / as options  
4.17 DIGITAL TELECOMMUNICATIONS / fiber optic connection to apartments IP TELEVISION IP TELEPHONY CELLULAR TELEPHONY / as an provider option	choice between three different telecommunication providers
INTERNET	