Energy Management Information System (EMIS)

Monitoring and reporting on energy consumption and savings in renovated public buildings in Croatia through EMIS System

> Valentina Madžarević, Croatian real estate agency (APN) Vanja Hartman, Energy Institute Hrvoje Požar, EIHP



streamSAVE+ Dialogue Meeting #01

22/10/2024





Energy Management Information System (EMIS) in Croatia

About EMIS



Co-funded by the European Union

Energy Management Information System



- ✤ EMIS is a web based software (www.isge.hr)
- ✤ EMIS is main tool for continuous data gathering, monitoring and analysis of energy and water consumption in buildings (Energy Efficiency Act of 2014.)
- ✤ EMIS provides a transparent oversight and control of energy consumption, which makes it an indispensable tool for systematic energy management
- ✤ EMIS database contains for each Energy Consumption Center (ECC):
- $\boldsymbol{\star}$ energy and water consumption data
 - ✤ static technical data (e.g. construction data, technical systems, certificates, etc.)
 - + data on institutional user (ECC type, geographical and meteorological data, institution that uses it, etc.)
- \star EMIS data is used for a wide range of calculations and analysis





EMIS - Statistics



			EMIS	database statistics (17.10.2)24.)			
ECC type	Number of objects	Number of metering points	Automatic Meters Count	Energy bill count	Number of readings	Number of automatic readings	Sensors count	Number of sensor readin
Complex	1.085	3.117 (29)	449 (3)	631.273	23,374.328	22.991.645	0	0
Building in complex	4.566	5.238 (21)	1.644 (5)	797.063	25.396.589	24.797.171	54	2.059.496
ee-standing building	11.731	27.654 (434)	1.328 (8)	5.776.852	36.654.309	34.529.031	843	27.322.482
Part	4.295	7.515 (22)	419	1.385.256	14.239.814	13.975.811	2.585	119.876.983
m - Building stock	21.677 (16.297)	43.524 (506)	3.840 (16)	8.590.444	99.665.040	96.293.658	3.482	149.258.961
Public lighting	24.279	23.370	2	6.379.672	1.165	0	0	0
Sum	45.956	66.894 (506)	3.842 (16)	14.970.116	99.666.205	96.293.658	3.482	149.258.961



EMIS - Modules



🖶 HOME 👻	🛉 USERS 👻	OBJECTS Imreports and charts -	✓ GEO ADMINISTRATION -	HISTRATION - 🔤 ESCO - AREA	NOTE READINGS SENI	DING - 📕 SYSTEM -			😟 🔺 VALENTINA MADZAREV	VIC 🔫
jects		≡Objects	Filter I Stabels							
Q []	C EMIS Code / Gen	≡Objects - Old		 Address / General information a 	about th 🔿 Project / G	en 🔿 Object Designation / General	Ó ZIP Code	 City/Municipal Settle 	ment 💧 Object label	Ó Ba
	111C 10000 0001 1 P	Sobjects - labels	tai Duriovinakog tata i Maruncev u giza	ny marka marunca 22		en o object besignation y benefat	10000	Layren	2020	rait
	HR-10000-0008-1	•Objects - Tabels		Opatička ulica 29	SDU		10000	Zagreb	2020; HIO	Free
	HR-10000-0009-1	Cobjects - users		Kušlanova 59/a	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0010-1	Objects - buildings		Ulica Vladimira Nazora 53	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0014-1	E Objects - buildings		Orlovac 2	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0019-1	♀ Public lighting		Slavonska avenija bb	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0020-1	Public lighting - overview		Radnička 47	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0021-1	Fublic lighting - overview		Ilica 259	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0022-1	Vehicles		Aleja Bologne 2			10000	Zagreb	2020	Fre
	HR-10000-0022-1-A			Aleja Bologne 2	SDU		10000	Zagreb	2020; HIO	Pa
	HR-10000-0023-0	Add object		Srebrnjak 100	JLRS		10000	Zagreb	2020; HIO	Co
	HR-10000-0023-1	Objects - Subtables		Srebrnjak 100	JLRS		10000	Zagreb	2020; HIO	Bu
	HR-10000-0023-2			Srebrnjak 100	JLRS		10000	Zagreb	2020; HIO	Bu
	HR-10000-0024-0	⊡Bills	EKS	Ivana Gorana Kovačića 23	SDU		10000	Zagreb	2020; HIO	Co
	HR-10000-0024-1	🖾 Bill items	zgrada	Ivana Gorana Kovačića 23	SDU		10000	Zagreb	2020; HIO	Bu
	HR-10000-0024-2			Ivana Gorana Kovačića 23	SDU		10000	Zagreb	2020; HIO	Bu
	HR-10000-0025-1	20 Meters		Bože i Nikole Bionde 3	SDU		10000	Zagreb	2020; HIO	Fr
	HR-10000-0026-1	BMeters - New		Vladimira Nazora 49	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0027-0	addimeters - New	s	Selska cesta 132	SDU		10000	Zagreb	2020; HIO	Co
	HR-10000-0027-1	20 Readings		Selska cesta 132	SDU		10000	Zagreb	2020; HIO	Bu
	HR-10000-0027-2	0		Selska cesta 132	SDU		10000	Zagreb	2020; HIO	Bu
	HR-10000-0027-3	Locked years		Selska cesta 132	SDU		10000	Zagreb	2020; HIO	Bu
	HR-10000-0028-1	Locked years - History	- Sv Matej 70a	Sv Mateja 70/a	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0029-1		- Otona Župančića 14	Otona Župančića 14	SDU		10000	Zagreb	2020; HIO	Fre
	HR-10000-0030-0	Sensors		Jankomir 11	JLRS	Djelomična obnova	10000	Zagreb	Energetska obnova i korišten	nii Co
	HR-10000-0030-1	Sensor Readings		Jankomir 11	JLRS	Djelomična obnova	10000	Zagreb	Energetska obnova i korišten	1
	HR-10000-0030-2	Romital za Usimacijo Oveb Ivali - Celipalita Aprima		Jankomir 11	JLRS	Djelomična obnova	10000	Zagreb	Energetska obnova i korišten	1000
	HR-10000-0030-3	Klinika za psihijatriju Sveti Ivan - Glavna arhiva		Jankomir 11	JLRS	Djelomična obnova	10000	Zagreb	Energetska obnova i korišten	-
	HR-10000-0030-4	Klinika za psihijatriju Sveti Ivan - Kotlovnica		Jankomir 11	JLRS	Djelomična obnova	10000	Zagreb	Energetska obnova i korišten	-
	HR-10000-0030-5	Klinika za osihijatriju Sveti Ivan - Liekarna i laboral		Jankomir 11	JLRS	Dielomična obnova	10000	Zagreb	Energetska obnova i korišten	1000



EMIS - Collection of energy usage data



- ✤ Energy and water consumption data is collected monthly via monthly bills (manually by users, or remotely sent by energy and water suppliers)
- ✤ EMIS allows monitoring of energy and water consumption via meter readings on a weekly, daily or hourly basis (manually or via remote/smart readings)
- ✤ Monitoring of interior conditions via sensor readings (interior temperature, CO2, interior humidity, VOC, etc.)

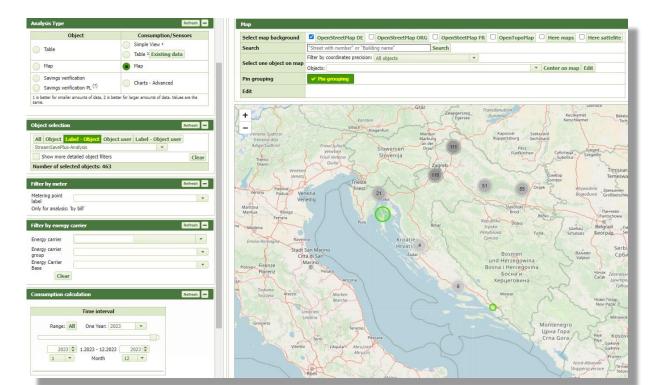




EMIS – Advanced Analyzer



- ✤ EMIS functionality that allows data overview, customized data export, calculation of indicators and achieved savings weather for a single ECC, for many ECCs (by label or by institutional user) or for all user's ECCs
- ✤ By selecting type of analysis in Analysis Type box user can choose which analytics to perform: tables, maps and charts
- ✤ Depending on selected analytics, EMIS will offer various parameters for user to chose and to tailor analysis according to their need





EMIS – Advanced Analyzer



nce (base lectricity

nce (base mission lectricity tCO₂] .890 963 1.970 55 108 828

✤ Functionality for verification of savings calculates average consumption of electric energy and energy for heating in selected base years which is then compared with consumption in following years

	Table 2 Existing data	Analysis Type	Ener	9Y	CO2 emi	ssion	Primary	energy		
Map Savings verification Savings verification PL ^(?)	Map Charts - Advanced	Building type / The results	Indicator of energy consumption for heating [Wh/(m ² HDD)]	Electricity consumption indicator [kWh/m ²]	Indicator of CO2 emission for heating [kgCO2/(m ² HDD)]	Electricity CO ₂ emission indicator [tCO ₂ /m ²]	Indicator primary energy consumption heating [Wh/(m ² HDD)]	Primary energy electricity consumption indicator [kWh/m ²]		
		Bolnica	108,07	70,45	0,03	0,02	119,91	113,71		
better for smaller amounts of data, 2 is bet e.	tter for larger amounts of data. Values are the	Obiteljska	83,06	52,58	0,02	0,01	92,47	84,87		
		Obrazovna	50,92	19,98	0,01	0,005	59,78	32,24		
		Ostale nestambene	34,73	36,67	0,008	0,009	38,06	59,18		
ect selection	Refresh -	Sportska dvorana	70,43	32,76	0,02	0,008	99,79	52,88		
		Uredska	60,60	48,01	0,02	0,01	69,72	77,49		
Object Label - Object Object itreamSavePlus-Analysis Show more detailed object filters	Clear	Reduction of energy consum	ption in the year: 2	018 ^(?)						
Number of selected objects: 463		Analysis Type		Er	nergy			CO2 er	mission	
ings verification 3 Baseline Calculation 14 Baseline Calculation	Refresh	Building type / Consumptio	Energy consumption for heating [kWh]	Electricity	Corrected	Corrected reference (base electricity consumption [kWh]) CO2 emission of heating [tCO2]	Electricity CO2 emission [tCO2]	Corrected reference (base) CO ₂ emission for heating [tCO ₂]	Correcte reference (b CO2 emiss for electric [tCO2]
Baseline Calculation		Bolnica	46.506.850	12.198.896	51.379.181	12.307.101	10.430	2.864	12.145	2.890
		Obiteljska	15.984.909	3.982.459	16.405.919	4.100.501	4.012	935	4.103	963
Baseline Calculation		Obrazovna	50.841.003	7.960.244	54.954.143	8.414.051	13.447	1.869	14.835	1.976
Baseline Calculation		Ostale nestambene	680.059	240.615	625.944	233.575	150	56	138	55
Baseline Calculation		Sportska dvorana	2.773.267	447.289	2.585.879	460.492	934	105	866	108
Baseline Calculation		Uredska	13.364.757	3.579.458	11.431.676	3.524.811	3.205	840	2.878	828
Baseline Calculation			Reduction	of energy consum	ption [kWh]:	7.863.464	Reduct	ion of CO2 emission	n [tCO2]:	2.937
1 Baseline Calculation			Reduction	of energy consu	mption [%]:	5 %	Reduc	tion of CO2 emissio	on [%]:	7 %
012 Baseline Calculation 013 Baseline Calculation 014 Baseline Calculation		Reduction of energy consum	ption in the year: 2	019 ^(?)				CO2 er	nission	
D14 Baseline Calculation D15 Baseline Calculation		Analysis Type		Er	nergy					
		Analysis Type Building type / Consumptio	Energy consumption for heating [kWh]	Electricity	Corrected	Corrected reference (base electricity consumption [kWh]) CO2 emission of heating [tCO2]	Electricity CO2 emission [tCO2]	Corrected reference (base) CO ₂ emission for heating [tCO ₂]	Correcte reference (b CO2 emiss for electric [tCO2]
Baseline Calculation Baseline Calculation Baseline Calculation Baseline Calculation			n consumption for	Electricity consumption	Corrected reference (base) energy consumption for	reference (base electricity consumption	CO2 emission of		reference (base) CO2 emission for heating	reference (I CO2 emiss for electric
Baseline Calculation Baseline Calculation Baseline Calculation Baseline Calculation Baseline Calculation Baseline Calculation		Building type / Consumptio	n consumption for heating [kWh]	Electricity consumption [kWh]	Corrected reference (base) energy consumption for heating [kWh]	reference (base electricity consumption [kWh]	heating [tCO2]	emission [tCO2]	reference (base) CO2 emission for heating [tCO2]	reference (I CO2 emiss for electri [tCO2]
Baseline Calculation Calculation Calculation		Building type / Consumptio Bolnica	consumption for heating [kWh] 41.409.732	Electricity consumption [kWh] 14.157.429	Corrected reference (base) energy consumption for heating [kWh] 48.433.313	reference (base electricity consumption [kWh] 12.307.101	9.223	emission [tCO2]	reference (base) CO ₂ emission for heating [tCO ₂] 11.449	reference (CO2 emiss for electri [tCO2] 2.890
15 Baseline Calculation 16 Baseline Calculation 17 Baseline Calculation 18 Baseline Calculation 19 Baseline Calculation 20 Baseline Calculation 21 Baseline Calculation 22 Baseline Calculation		Building type / Consumptio Bolnica Obiteljska	consumption for heating [kWh] 41.409.732 15.885.155	Electricity consumption [kwh] 14.157.429 3.938.261	Corrected reference (base) energy consumption for heating [kWh] 48.433.313 15.477.968	reference (base electricity consumption [kWh] 12.307.101 4.100.501	9.223 3.980	emission [tCO2] 3.324 925	reference (base) CO ₂ emission for heating [tCO ₂] 11.449 3.871	reference (CO2 emiss for electri [tCO2] 2.890 963
5 Baseline Calculation 6 Baseline Calculation 7 Baseline Calculation 8 Baseline Calculation 9 Baseline Calculation 0 Baseline Calculation 10 Baseline Calculation 12 Baseline Calculation 13 Baseline Calculation		Building type / Consumptio Bolnica Obiteljska Obrazovna	consumption for heating [kWh] 41.409.732 15.885.155 43.897.475	Electricity consumption [kWh] 14.157.429 3.938.261 7.443.949	Corrected reference (base) energy consumption for heating [kWh] 48.433.313 15.477.968 50.691.679	reference (base electricity consumption [kWh] 12.307.101 4.100.501 8.389.819	9.223 9.223 3.980 11.503	emission [tCO2] 3.324 925 1.748	reference (base) CO2 emission for heating [tCO2] 11.449 3.871 13.685	reference (I CO2 emiss for electri [tCO2] 2.890 963 1.970
Baseline Calculation Baseline Calculation		Building type / Consumptio Bolnica Obiteljska Obrazovna Ostale nestambene	consumption for heating [kWh] 41.409.732 15.885.155 43.897.475 647.326	Electricity consumption [kWh] 14.157.429 3.938.261 7.443.949 247.138	Corrected reference (base) energy consumption for heating [kWh] 48.433.313 15.477.968 50.691.679 597.448	reference (base electricity consumption [kWh] 12.307.101 4.100.501 8.389.819 233.575	9.223 9.223 3.980 11.503 143	emission [tCO ₂] 3.324 925 1.748 58	reference (base) CO ₂ emission for heating [tCO ₂] 11.449 3.871 13.685 132	reference (I CO2 emiss for electri [tCO2] 2.890 963 1.970 55
15 Baseline Calculation 16 Baseline Calculation 17 Baseline Calculation 18 Baseline Calculation 19 Baseline Calculation 20 Baseline Calculation 21 Baseline Calculation		Building type / Consumptio Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana	consumption for heating [kWh] 41.409.732 15.885.155 43.897.475 647.326 2.960.406 10.928.612	Electricity consumption [kWh] 14.157.429 3.938.261 7.443.949 247.138 456.761	Corrected reference (base) energy consumption for heating [kWh] 48.433.313 15.477.968 50.691.679 597.448 2.487.869 10.928.389	reference (base electricity consumption [kWh] 12.307.101 4.100.501 8.389.819 233.575 460.492	9,223 9,223 3,980 11,503 143 982 2,655	emission [tCO2] 3.324 925 1.748 58 107	reference (base) CO2 emission for heating [tCO2] 11.449 3.871 13.685 132 833 2.751	reference (I CO2 emisss for electric [tCO2] 2.890 963 1.970 55 108





Use of EMIS system for monitoring, analysis and verification of energy savings

Program for energy refurbishment of public sector buildings



EMIS – Data selection for calculation of achieved savings on ECC level

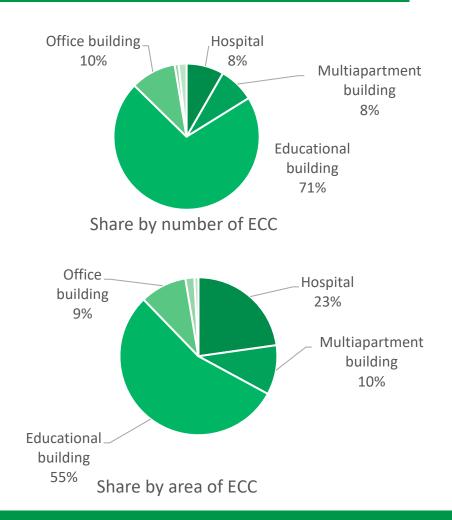


- ✤ 810 public sector buildings renovated under ESCO and Operational Program Competitiveness and cohesion (2016.-2019., calls 4c1.2, 4c1.3 and 4c1.4)
- ✤ 229 renovated public sector ECCs of various purposes selected and labeled for the analysis:
 - ✤ continuous monthly monitoring of energy consumption (2015.-2023.)
 - ✤ data on consumption checked by an admin and "locked"
 - + have written in building's heated surface, A_k
 - ✤ located all over Croatia
- ★ ECC ≠ building EMIS monitors consumption on metering points, building complexes often have only few metering points that are used by many buildings which makes it difficult to know how much of the consumption on a metering point falls on a certain building



Program for energy refurbishment of public sector buildings

Type of buildings	Number of ECC	Share by number of ECC [%]	Useful floor area A _k [m ²]	Share by A _k [%]
Hospital	19	8,30%	174.681,86	22,75%
Ambulance	10	4,37%	16.279,83	2,12%
Hospitals	9	3,93%	158.402,03	20,63%
Multiapartment building	18	7,86%	77.982,01	10,16%
Student Dormitory	1	0,44%	1.541,00	0,20%
Residential building	7	3,06%	8766,13	1,14%
Retirement Home	10	4,37%	67.674,88	8,82%
Educational building	163	71,18%	421.193,16	54,86%
Kindergarten	21	9,17%	24.143,74	3,14%
Museums and Libraries	1	0,44%	3.228,70	0,42%
Primary school	126	55,02%	322.848,18	42,05%
Secondary school	15	6,55%	70.972,54	9,24%
Office building	23	10,04%	73.417,36	9,56%
Office building	23	10,04%	73.417,36	9,56%
Sports Hall	2	0,87%	14.055,53	1,83%
Sports Hall	2	0,87%	14.055,53	1,83%
Other non-residential building	4	1,75%	6.370,41	0,83%
Prisons, Penitentiaries and Correctional centres	1	0,44%	2.829,00	0,37%
Buildings for cultural and artistic activities and entertainment	3	1,31%	3.541,41	0,46%
Total	229	100,00%	767.700,33	100,00%



stream



Monitoring and reporting of final energy consumption - through table view



The Analytics module offers a range of options for grouping and reorganizing data, allowing for easy report generation regardless of the format in which reporting is required.

	evic - StreamSavePlus-An 👻																			
ow more det	tailed object filters Clear		Pivot																	
	ted objects: 465																			
a or selec	ted objects. 405			Selection of pivot re	ows and column	15	Order of pive	t rows	Order of pi	ivot columns		Selection of								
/ meter	Refresh												Role in pivot ta	ble						
meter	Notest -										Quantity [UON	4]	- Cel							
	-										Energy [kWh]		Cel							
			Colu	mn of the source table	e Role in piv	ot table	Year Object type gro		Energy car Unit of Me		Cost [€]		- Cell	_						
analysis: 'l	by bill'		Year		- Row	Column	Object type git	Jup	¥ Onic of Pie	asure				_						
			Date		Row	Column			L		Cost + Tax [€]	- Cell							
energy o	carrier Refresh		011						±		CO2 emission[[t]	- Cell							
			Objec	ct type group		Column					Primary energ	y [kWh]	- Cell							
			Energ	gy carrier name	- Row	Column					TOE		- Cell	_						
	~										IUE		Cell							
											Column of th	he source table	Role in pive	t table						
											Unit of Measu	re	- Cell Roy	Column						
											-									
			SHOW	original table Show	pivot table :	Automatic refres	in on proofing para	neter change												
ntion cal	culation Refresh																			
				Energy carrier name	Drvna	ciečka	Dinio 7	a ogrjev	Električr	na energija	Loživo ulie	ekstra lako	Pa	F 3	De	eleti	Plin	u boci	Prirod	dni plin
Ti	ime interval			Unit of Measure	Divila	5 JCCK0		meter		(Wh	LO2IVO UIJC	I	re			t		ka		m ³
-	Year Month		Vear	Object type group	Energy [kWh]	• Ouantity [110M										C				
										Quantity UOPI	Energy kWh	Quantity [UOM]	Energy kWh	Quantity [UOM]	Energy kWh	Quantity UUM	Energy kWh	Quantity 1001	1 Energy KWN	Quantity
			rear	Bolnica	Lucid) [uuu]	Quantity [0011	, energy []	Quantity [001	12.122.879,62	12.122.879,62	1.991.286,17	Quantity [UOM] 195.189	Energy [kWh]	Quantity [UOM]	Energy [kWh]	Quantity [UOM] Energy [kWh]	Quantity [UUI	44.126.599,03	
All	One Year:		TCu		Encigy [nini]	Quantity [0011		Quantity [001					Energy [kWh]	Quantity [UOM]	Energy [kWh]	Quantity [UOM	27.536,7	2.147,95		4.764.9
All	One Year:		-	Bolnica Obiteljska Obrazovna	291.900	83,4	146.625	85	12.122.879,62 4.118.055,94 8.310.767,34	12.122.879,62 4.118.055,94 8.310.767,34	1.991.286,17 1.548.870,66 12.431.260,75	195.189 151.822,74 1.218.531,72	1.159.420	Quantity [UOM]	105.696	22,02	27.536,7 1.622,96	2.147,95 126,6	44.126.599,03 11.279.295,01 26.944.599,03	4.764.9 1.217.9 2.909.5
All	One Year:		2015	Bolnica Obiteljska Obrazovna Ostale nestambene					12.122.879,62 4.118.055,94 8.310.767,34 240.463,45	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45	1.991.286,17 1.548.870,66	195.189 151.822,74					27.536,7	2.147,95	44.126.599,03 11.279.295,01 26.944.599,03 647.449	4.764.9 1.217.9 2.909.5 69.91
	One Year:		-	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana					12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59	195.189 151.822,74 1.218.531,72 20.039	1.159.420	1.586,98	105.696	22,02	27.536,7 1.622,96	2.147,95 126,6	44.126.599,03 11.279.295,01 26.944.599,03 647.449 568.396	4.764.9 1.217.9 2.909.5 69.91 61.37
5 🗘 1.2			-	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska					12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17	195.189 151.822,74 1.218.531,72 20.039 18.895,54			105.696	22,02	27.536,7 1.622,96	2.147,95 126,6	44.126.599,03 11.279.295,01 26.944.599,03 647.449 568.396 12.761.133,01	4.764.9 1.217.9 2.909.5 69.91 61.37 1.377.9
5 \$ 1.2	015 - 12.2023 2023 🗘		-	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica					12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110	1.159.420	1.586,98	105.696 823.430,4	22,02 171,55	27.536,7 1.622,96 20.640,2	2.147,95 126,6 1.610	44.126.599,03 11.279.295,01 26.944.599,03 647.449 568.396 12.761.133,01 45.602.779,04	4.764.9 1.217.9 2.909.5 69.91 61.37 1.377.9 4.924.3
5 \$ 1.2	015 - 12.2023 2023 Month 12 •		2015	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska		83,4	146.625	85	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448.145,71	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52	1.159.420	1.586,98 219,16	105.696	22,02 171,55 23,15	27.536,7 1.622,96 20.640,2 31.148,57	2.147,95 126,6 1.610 2.429,69	44.126.599,03 11.279.295,01 26.944.599,03 647.449 568.396 12.761.133,01 45.602.779,04 11.771.231,01	4.764.9 1.217.9 2.909.5 69.91: 61.37 1.377.9 4.924.3 1.271.0
5 \$ 1.2	015 - 12.2023 2023 🗘		-	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica	291.900				12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110	1.159.420	1.586,98	105.696 823.430,4 111.120	22,02 171,55	27.536,7 1.622,96 20.640,2	2.147,95 126,6 1.610	44.126.599,03 11.279.295,01 26.944.599,03 647.449 568.396 12.761.133,01 45.602.779,04	4.764.9 1.217.9 2.909.5 69.913 61.377 1.377.9 4.924.3 1.271.0 3.036.1
-5 \$ 1.2 -	015 - 12.2023 2023 Month 12 •		2015	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska Obrazovna	291.900	83,4	146.625	85	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267,754,72 4.073.210,24 8.496.581,04	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496.581,04	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448.145,71 12.991.022,19	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41	1.159.420	1.586,98 219,16	105.696 823.430,4 111.120 462.720	22,02 171,55 23,15 96,4	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84	2.147,95 126,6 1.610 2.429,69 113,4	44.126.599,03 11.279.295,01 26.944.599,03 647.449 568.396 12.761.133,01 45.602.779,04 11.771.231,01 28.116.422,7	4.764.9 1.217.9 2.909.5 69.913 61.377 1.377.9 4.924.3 1.271.0 3.036.1 68.315
5 \$ 1.2 - ars All 5	015 - 12.2023 2023 Month 12 •		2015	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska Obrazovna Ostale nestambene	291.900	83,4	146.625	85	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496.581,04 229.702,01 468.255 3.455.135,76	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496.581,04 229.702,01 468.255 3.455.135,76	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448.145,71 12.991.022,19 20.007,23 226.038,39	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41	1.159.420	1.586,98 219,16	105.696 823.430,4 111.120 462.720	22,02 171,55 23,15 96,4	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84	2.147,95 126,6 1.610 2.429,69 113,4	44.126.599,03 11.279.295,01 26.944.599,03 647.449 568.396 12.761.133,01 45.602.779,04 11.771.231,01 28.116.422,7 632.649 483.777 13.835.235,56	4.764.9 1.217.9 2.909.5 69.91: 61.37 1.377.9 4.924.3 1.271.0 3.036.1 68.31: 52.23 1.493.9
5 🗘 1.2 - ars All E carrier	Noth 12		2015	Bolnica Obriteljska Obrazovna Ostale nestambene Sportska dvorana Utredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Utredska Bolnica	291.900	83,4	146.625	85	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496.581,04 229.702,01 468.255 3.455.135,76 12.530.667,76	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496.581,04 229.702,01 468.255 3.455.135,76 12.530.667,76	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448.145,71 12.991.022,19 230.097,23 226.038,39 1.961.751,85	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.554,49 22.156,64 192.294	1.159.420 160.117,22 1.173.036,78	1.586,98 219,16 1.605,62	105.696 823.430,4 111.120 462.720 722.424	22,02 171,55 23,15 96,4 150,51	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2	2.147,95 126,6 1.610 2.429,69 113,4 1.610	44.126.599,03 11.279.295,01 26.944.599,03 647.449 568.396 12.761.133,01 45.602.779,04 11.771.231,01 28.116.422,7 632.649 483.777 13.835.235,56 42.871,783,03	4,764,9 1,217,9 2,909,5 69,911 61,377 1,377,9 4,924,3 1,271,0 3,036,1 68,311 52,239 1,493,9 4,629,4
5 2 1.2 - ars All carrier group	015 - 12.2023 2023 Month 12 - Show only locked State Series Chart Series Chart		2015	Bolnica Obrizovna Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obriteljska	291.900 394.980,25	83,4	43.125	85	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 7.510.758,77 4.073.210,24 8.496.581,04 229.702,01 468.255 3.455.135,76 12.530.667,76 4.110.237,53	12.122.879,62 4.118.055,94 8.310.767,94 4.30.88 3.510.758,77 4.073.210,24 8.496.581,04 229,702,01 468.255 3.455.135,76 12.530.667,76 4.110.237,53	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448.145,71 12.991.022,19 230.097,23 226.038,39 1.961.751,85 1.401.095,99	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.554,49 22.156,64 192.294 137.337,63	1.159.420 160.117,22 1.173.036,78 189.839,8	1.586,98 219,16 1.605,62 259,85	105.696 823.430,4 111.120 462.720 722.424 168.432	22,02 171,55 23,15 96,4 150,51 35,09	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36	44.126.599,03 11.279.255,01 26.94.595,01 26.94.595,01 26.94.595,01 45.002.779,04 11.771.231,01 28.116.422,7 6.32.649 483.777 13.835.235,56 42.871,783,03 11.830,432,01	4.764.9 1.217.9 2.909.5 69.912 61.37 1.377.9 4.924.3 1.271.0 3.036.1 68.312 52.233 1.493.9 4.629.4 1.277.4
5 2 1.2 - ars All carrier group	Noth 12	-	2015	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska Obrazovna	291.900	83,4	146.625	85	12.122.879,62 4.118.055,94 8.310.757,34 240.463,45 443.088 5.510.758,77 12.267,754,72 4.073.210,24 8.496.5581,04 229.702,01 468.255 3.455.135,76 12.530.667,76 4.110.237,53 8.434.803,13	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 4.073.210,24 4.073.210,24 4.082,55 3.455.135,76 12.530.667,76 4.110.237,53 4.434.803,13	1.991.286,17 1.548,870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448,145,71 12.991.022,19 230.097,23 226.038,39 1.961.751,85 1.401.095,59 12.731.717,47	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.554,49 22.156,64 192.294 137.337,63 1.247.982,96	1.159.420 160.117,22 1.173.036,78	1.586,98 219,16 1.605,62	105.696 823.430,4 111.120 462.720 722.424 168.432 1.118.640	22,02 171,55 23,15 96,4 150,51 35,09 233,05	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36 80	44.126.599,03 11.279.295,01 26.941.599,03 647,449 566.396 12.761.133,01 45.602.779,04 11.771.231,01 28.116.422,7 632.649 483.777 13.635.225,56 42.871,783,03 11.830.432,01 11.830.432,01 28.031.678,52	4.764.9 1.217.9 2.909.5 69.912 61.37 1.377.9 4.924.3 1.271.0 3.036.1 68.312 52.232 1.493.9 4.629.4 1.277.4 3.026.9
5 🗘 1.2	015 - 12.2023 2023 Month 12 - Show only locked State Series Chart Series Chart		2015	Bolnica Obrezovna Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Obrazovna Ostale nestambene	291.900 394.980,25	83,4	43.125	85	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.0705,210,24 8.949,581,04 229.702,01 468.255 8.494,5135,76 12.530.667,76 4.110.237,53 8.434.803,13 230.558,92	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496,581,024 8.496,581,024 8.496,581,024 12.530.667,76 4.110.237,53 8.434.803,13 230.556,92	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448.145,71 12.991.022,19 230.097,23 226.038,39 1.961.751,85 1.401.095,99	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.554,49 22.156,64 192.294 137.337,63	1.159.420 160.117,22 1.173.036,78 189.839,8	1.586,98 219,16 1.605,62 259,85	105.696 823.430,4 111.120 462.720 722.424 168.432	22,02 171,55 23,15 96,4 150,51 35,09	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36	44.126.599,03 11.279.255,01 26.94.599,03 647.449 568.396 12.761.133,01 45.602.779,04 11.771.231,01 28.116.42,27 632.649 483.777 13.835.235,56 42.871.783,03 11.830.452,01 28.031.678,52 642.059	4.764.90 1.217.91 2.909.55 69.913 61.377 1.377.90 3.036.10 68.315 52.235 1.493.91 4.629.41 1.277.44 3.026.91 69.331
5 \$ 1.2 ars	Show only locked Show only locked Stries Chart Series Chart Series Chart		2015	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Obiteljska Obrazovna Ostale nestambene Sportska dvorana	291.900 394.980,25	83,4	43.125	85	12.122.879,62 4.118.055,94 8.310.757,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.077.210,754,72 4.073.210,754,72 4.073.210,754,72 4.073.210,754,72 4.073.210,754,72 4.073.210,754,72 4.073.210,754,72 4.110,237,53 8.434.803,13 200.558,92 470.132	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496.581,04 229,702,01 468.255 3.455.135,76 12.530.667,76 4.110.237,53 8.434.803,13 230.558,92 470.132	1.991.286,17 1.548,870,66 12.431,260,75 204.434,59 192.769,17 1.980.278,39 1.448,145,71 12.991.022,19 230.097,23 226.038,39 1.961.751,85 1.401.095,99 12.731.717,47 316.475,17	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.554,49 22.156,64 192.294 137.337,63 1.247.982,96 31.021,39	1.159.420 160.117,22 1.173.036,78 189.839,8 1.086.164,33	1.586,98 219,16 1.605,62 259,85 1.486,71	105.696 823.430,4 111.120 462.720 722.424 168.432 1.118.640	22,02 171,55 23,15 96,4 150,51 35,09 233,05	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36 80	44.126.599,03 11.279.295,01 26.941.599,03 647.449 568.396 12.761.133,01 45.602.779,04 11.771.231,01 28.116.422,7 632.649 483.777 13.835.235,56 42.871,783,03 11.830.432,01 28.031.678,52 642.059 537.707	4.764.9 1.217.9 2.909.5 69.911 61.37 1.377.9 4.924.3 1.271.0 3.036.1 68.311 52.233 1.493.9 4.629.4 1.277.4 3.026.9 69.33 58.063
5 \$ 1.2 ars	Show only locked Study of Couping Series Chart Series Chart Series Chart Series Chart		2015	Bolnica Obrezovna Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Obrazovna Ostale nestambene	291.900	83,4	43.125	85	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.0705,210,24 8.949,581,04 229.702,01 468.255 8.494,5135,76 12.530.667,76 4.110.237,53 8.434.803,13 230.558,92	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496,581,024 8.496,581,024 8.496,581,024 12.530.667,76 4.110.237,53 8.434.803,13 230.556,92	1.991.286,17 1.548,870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448,145,71 12.991.022,19 230.097,23 226.038,39 1.961.751,85 1.401.095,59 12.731.717,47	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.554,49 22.156,64 192.294 137.337,63 1.247.982,96	1.159.420 160.117,22 1.173.036,78 189.839,8	1.586,98 219,16 1.605,62 259,85	105.696 823.430,4 111.120 462.720 722.424 168.432 1.118.640	22,02 171,55 23,15 96,4 150,51 35,09 233,05	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36 80	44.126.599,03 11.279.255,01 26.94.599,03 647.449 568.396 12.761.133,01 45.602.779,04 11.771.231,01 28.116.42,27 632.649 483.777 13.835.235,56 42.871.783,03 11.830.452,01 28.031.678,52 642.059	4.764.9 1.217.9 2.909.5 69.91: 61.377 4.924.3 1.271.0 3.036.1 68.31! 52.233 1.493.9 4.629.4 1.277.4 3.026.9 69.333 58.066 1.471.9
ars All : carrier group nergy type	Show only locked Show only locked Stries Chart Series Chart Series Chart		2015	Bolnica Obrte2vora Obrazova Sportska dvorana Sportska dvorana Bolnica Obrte1jska Obrazovna Ostale nestambene Sportska dvorana Obrazovna Obrazovna Ostale nestambene Sportska dvorana Uredska	291.900	83,4	43.125	85	12.122.879,62 4.118.055,94 8.310.757,34 240.463,45 3.510.758,77 12.2667,754,72 4.073.210,24 8.496,581,04 229,702,01 469,255 14.250,667,76 4.110.237,53 2.455,135,76 4.101.0237,53 2.30,667,76 4.110.237,53 2.30,657,86 4.34,403,13 2.30,558,92 4.70,132 3.660,538,87	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496.551,04 229.702,01 229.702,01 229.702,01 229.702,01 229.055,87 4.110.237,53 4.033,13 230.558,87 4.01,32 3.608.538,87 4.01,32 3.608.538,87 4.01,32 3.608.538,87 4.01,32 3.608.538,87 4.01,32 3.608.538,87 4.01,32 3.608.538,87 4.01,32	1.991.286,17 1.948,870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448,145,71 1.991.022,19 230.097,23 226.038,39 1.961.751,85 1.401.095,99 1.2731.717,47 316.475,17 217.942,27	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.554,49 22.156,64 192.294 137.337,63 1.247.982,96 31.021,39 21.363,04	1.159.420 160.117,22 1.173.036,78 189.839,8 1.086.164,33	1.586,98 219,16 1.605,62 259,85 1.486,71	105.696 823.430,4 111.120 462.720 722.424 168.432 1.118.640	22,02 171,55 23,15 96,4 150,51 35,09 233,05	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36 80	44,126,599,03 11,279,295,01 26,94,599,03 647,449 563,396 12,761,133,01 45,602,779,04 11,771,231,01 28,116,422,7 632,649 483,777 13,835,235,56 42,871,783,03 11,830,432,01 28,031,676,52 642,059 642,05	4.764.9: 1.217.9: 2.909.5: 69.913 61.377.9: 4.924.3: 1.271.0: 3.036.1: 68.315 52.235 1.493.9: 4.929.4: 1.277.4: 3.026.9: 69.333 5.06.9: 1.471.9: 4.785.9: 4.775.9: 4.77
IS I 1.20 ars All I carrier group nergy type type	015 - 12.2023 2023 Month 12 Show only locked Stries Chart Series Chart Series Chart Series Chart Series Chart Series Chart Series Chart		2015 2016 2017	Bolnica ObiteJjska Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Ostale nestambene Sportska dvorana Uredska ObiteJjska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica	291.900	83,4	43.125	85	12.122.879,62 4.118.055,94 8.310.757,34 240,463,45 4.3510.758,77 12.267.754,72 4.073.210,247,44 8.496,581,04 29.702,01 468.255 3.455.135,76 4.110.237,53 8.434,803,13 230.558,92 470.132 230.558,92 470.132 230.558,92	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 8.496.581,04 229.702,01 468.255 3.455.135,76 4.51.253,0.667,76 4.110.237,53 8.434.803,13 230.555,92 470.132 3.608.538,87 12.198.885,54	1.991.286,17 1.548.870,66 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448.145,71 12.991.022,19 226.038,39 1.961.751,85 1.401.095,99 12.731.717,47 316.475,17 217.942,27 1.942.133,72	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.156,64 192.294 137.337,63 1.247.982,96 31.021,39 21.363,04 190.371	1.159.420 160.117,22 1.173.036,78 189.839,8 1.086.164,33	1.586,98 219,16 1.605,62 259,85 1.486,71	105.696 823.430,4 111.120 462.720 722.424 168.432 1.118.640 926.400	22,02 171,55 23,15 96,4 150,51 35,09 233,05 193	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6 18.589	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36 80 1.450	44,126,599,03 11,279,295,01 26,944,599,03 647,449 568,396 12,761,133,01 45,602,779,04 11,777,231,01 28,116,422,7 632,649 483,777 13,635,225,56 42,671,783,03 11,830,432,01 28,031,678,52 642,059 537,707 13,631,572,05	4.764.90 1.217.91 2.909.55 69.912 61.377 1.377.90 4.924.33 1.271.01 3.036.11 68.311 52.239 1.493.91 4.629.41 1.277.44 3.026.91 69.331 58.065 1.471.91 4.71.92 4.725.92 1.249.77
15 1.2	015 - 12.2023 2023 Month 12 Show only locked 3111_083 / Grouping Series Chart		2015	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obiteljska Obitazovna Ostale nestambene	291.900 394.980,25 765.961,7	83,4 112,85 218,85	146.625 43.125 124.200	25	12.122.879,62 4.118.055,92 4.310.676,34 240.463,45 443.088 3.510.758,77 4.073.210,24 8.496,581,04 229.702,01 468.255 12.520,657,76 4.130.237,53 230.558,92 470.132 3.606,538,87 12.198.895,54 3.982,459,49 7.966,254,09 240.615,22	12.122.879,62 4.118.055,94 8.310.767,24 240.463,45 443.088 3.510.758,77 4.073.210,24 8.496.581,04 229.702,01 468.255 4.110.237,53 4.450.358,92 4.110.237,53 5.0667,76 4.110.237,53 5.0665,76 4.110.237,53 5.065,76 4.110.237,53 5.065,78 4.121,98.895,54 3.982,459,49 7.960,244,09 240.615,52 240.615,52	1.991.286,17 1.548,870,66 1.2431.260,75 204.434,59 192.789,47 1.980.273,39 1.448.45,71 1.980.273,39 1.448.45,71 1.980.273,39 1.961.751,85 1.401.095,99 1.273.172,74 217.942,27 1.942.137,72 1.556.331,86	195.189 151.822,74 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.556,64 192.294 137.337,63 1.247.982,96 31.021,39 21.363,04 190.371 150.564,26	1.159,420 160.117,22 1.173.036,78 189,839,8 1.086.164,33 168.294,84	1.586,98 219,16 1.605,62 259,85 1.486,71 230,36	105.696 823.430,4 111.120 462.720 722.424 168.432 1.118.640 926.400 110.400	22,02 171,55 23,15 96,4 150,51 35,09 233,05 193 233	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6 18.589 31.352,91	2.147,95 125,6 1.610 2.429,69 113,4 1.610 2.351,36 80 1.450 2.445,63	44,126,599,03 11,279,295,01 26,344,599,03 647,449 556,396 12,761,133,01 45,602,779,04 11,771,231,01 28,116,422,7 632,649 483,777 13,383,225,56 42,871,783,03 11,830,432,01 28,331,675,52 642,059 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 13,633,1572,05 537,707 14,522,103,103 11,573,286,01 12,572,103 14,522,103 14,5	4.764.9: 1.217.9: 2.909.5: 69.912 61.377 1.377.9: 4.924.3: 1.271.0: 3.036.1: 68.315 52.233 1.493.9: 4.629.4: 1.277.4: 3.026.9: 69.333 58.063 1.271.4: 3.026.9: 69.333 58.063 1.271.4: 3.026.9: 69.331 58.063 1.271.4: 3.026.9: 69.331 58.063 1.277.4: 4.785.9: 1.249.7: 2.821.2: 71.649.7: 3.821.2:
15 ÷ 1.2/ • 1.2/ • arrier / carrier / group mergy t type type type	015 - 12.2023 2023 Month 12 - Show only locked Stries Chart Series Chart Series Chart Series Chart Series Chart Series Chart Series Chart		2015 2016 2017	Bolnica Obitelyka Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana	291.900 394.980,25 765.961,7	83,4 112,85 218,85	146.625 43.125 124.200	25	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443,088 3.510.758,77 4.2267.754,72 4.077.210,24 4.077.210,24 4.075,210,	12.122.879,62 4.118.055,94 8.310.767,34 240,463,45 443.088 3.510.758,77 4.073.210,24 4.073.210,24 4.073.210,24 4.095,581,04 229,702,01 4.682,55 3.455,135,76 12.530.667,76 4.110.237,53 8.434.803,13 230.555,92 470.132 3.3668,554 3.988,855,44 3.982,459,49 3.982,49,440,45,452 3.982,459,440,452,55 3.982,440,453,452,453,454,453,454,453,454,453,454,453,454,453,454,453,454,454	1.991.288,17 1.598.87,06 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448.45,71 1.991.022,19 230.097,23 226.038,39 1.961.751,85 1.440.195,99 12.731.727,47 315.475,135 1.556.031,86 9.947.827,16 484.200,71	195.189 195.182,274 1.218.551,72 20.039 18.895,54 194.110 141.1945,22 1.273.400,41 22.156,64 192.294 123.2354,49 22.156,64 192.374 1.247.982,96 31.027,31 150.564,26 975.106,06 47.462,11	1.159.420 160.117,22 1.173.036,78 189.839,8 1.086.164,33 168.294,84 648.169,12	1.586,98 219,16 1.605,62 259,85 1.486,71 230,36 887,19	105.696 823.430.4 111.120 462.720 722.424 1168.432 1.118.640 926.400 110.400 1.033.680	22,02 171,55 23,15 96,4 150,51 35,09 233,05 193 233,05 193 23,215,23	27.536,7 1.622,95 1.622,95 1.622,95 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6 18.589 1.352,91 857,52	2.147,95 125,6 1.610 2.429,69 113,4 1.610 2.351,36 80 1.450 2.445,63 66,89	44,126,599,03 11,272,295,01 26,944,599,03 647,449 556,396 12,761,133,01 45,602,779,04 11,777,231,01 28,116,422,7 532,649 42,877,78,00 11,830,432,01 28,031,678,52 642,055 537,707 13,631,572,05 44,321,103,04 11,573,286,01 26,126,506,4 665,521 502,115	4.764.9: 1.217.9: 2.909.5: 69.913 61.377.9: 4.924.3: 1.271.0: 3.036.1: 68.315 52.233 1.493.9: 4.629.4: 1.277.4: 3.026.9: 69.331 58.063 1.471.9: 4.71.9: 4.724.9: 1.249.7: 1.249.7: 2.821.2: 71.644 54.215
15 ÷ 1.2/ • 1.2/ • arrier / carrier / group mergy t type type type	bit - 12.2023 2023 bit in the second		2015 2016 2017	Bolnica Obitejjska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska dvorana Uredska dvorana	291.900 394.980,25 765.961,7	83,4 112,85 218,85	146.625 43.125 124.200	25	12.122.879,62 4.118.055,94 8.310.757,34 240.463,45 443.088 3.510.758,77 4.073.210,24 4.074.210,24 4.074.21	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 4.073.210,24 8.496.581,04 229.702,01 468.255 3.455.155,76 12.530.667,76 4.110.237,53 8.4394.803,13 230.558,92 470.132 3.668,538,87 7.950.244,09 240.615,22 447.289 3.579.458,52	1.991.286,17 1.548.870,66 1.2431.260,76 204.434,59 192.769,17 1980.278,39 1.448.455,71 12.991.022,19 203.097,23 203.097,23 203.097,23 203.097,23 1.941.751,85 1.941.751,85 1.941.751,85 1.942.87,17 21.594.2,27 1.942.30,31,86 9.947.872,16 1.942.30,18 9.947.872,16 1.942.30,17 1.74.882,26	195.189 151.822,74 151.822,74 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.156,64 192.294 12.2354,49 22.156,64 192.294 12.33,63 1.247,882,96 31.021,39 21.363,04 199.371 150.564,26 975.105,06 47.462,11 17.142,23	1.159,420 160.117,22 1.173.036,78 189,839,8 1.086.164,33 168.294,84	1.586,98 219,16 1.605,62 259,85 1.486,71 230,36	105.696 823.430,4 1111.120 462.720 722.424 168.432 1.118.640 926.400 103.080 946.464	22,02 171,55 23,15 96,4 150,51 35,09 233,05 193 233,05 193 245,23 197,18	27.536,7 1.622,95 1.622,95 1.622,95 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6 18.589 1.352,91 857,52	2.147,95 125,6 1.610 2.429,69 113,4 1.610 2.351,36 80 1.450 2.445,63 66,89	44,126,599,03 11,279,295,01 26,944,599,03 647,449 566,396 12,761,133,01 45,602,779,04 11,771,231,01 28,116,422,7 632,649 483,777 13,383,225,56 42,871,783,03 11,830,432,01 28,031,678,52 642,059 537,707 13,633,1572,05 642,059 537,707 13,633,1572,05 642,059 537,707 13,633,1572,05 642,059 643,211,03,04 11,5472,328,01 26,126,550,4 663,521 502,115 11,444,759,26	4.764.93 1.217.97 2.909.26 69.913 61.377 1.377.98 4.924.33 1.271.00 3.036.10 68.315 52.239 1.493.93 4.493.93 4.493.93 1.471.98 4.785.93 1.471.98 4.785.93 1.471.98 4.785.93 1.271.649 54.219 1.235.8
15 1.2	015 - 12.2023 2023 5 Nonth 12 Show only locked Series Chart Series Chart		2015 2016 2017	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Obraželska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obražova Ostale nestambene Sportska dvorana Uredska Obražovna Ostale nestambene Sportska dvorana Uredska Obražovna Ostale nestambene Sportska dvorana Uredska	291.900 394.980,25 765.961,7	83,4 112,85 218,85	146.625 43.125 124.200	25	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.100.237,53 8.434.803,13 2.058,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 4.070.244,09 2.06,615,22 4.127,289 3.579,458,32 4.157,429,25 4.147,274,29,25 4.147,274,29,25 4.147,274,29,25 4.147,249,25 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,44	$\begin{array}{c} 12.122.879,62\\ +1.18.055,94\\ +3.310.767,34\\ 240.463,45\\ +43.088\\ -3.510.758,77\\ +4.033.210,24\\ +0.754,72\\ +0.73.210,24\\ +0.754,72\\ +0.73.210,24\\ +0.754,72\\ +0$	1.991.288,17 1.598,87,06 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448,457,11 2.991.022;19 2.991.022;19 2.991.022;19 2.991.022;19 2.991.022;19 1.461.955,051 1.461.956,057 1.9794,272 1.9794,272 1.942,270 1.	195.189 195.182,74 1.218.531,72 2.0.039 18.895,54 194.110 141.949,52 1.22.554,49 22.156,64 192.249 22.156,64 192.235 1.247.962,96 31.021,39 21.363,04 190.371 190.544,22 19.564,66 47.462,11 17.142,23 157.881	1.159.420 160.117,22 1.173.036,78 189.839,8 1.086.164,33 168.294,84 648.169,12	1.586,98 219,16 1.605,62 259,85 1.486,71 230,36 887,19	105.696 823.430,4 1111.120 462.720 722.424 168.432 1.118.640 926.400 110.400 1.033.080 946.464 252.720	22,02 171,55 23,15 96,4 150,51 35,09 233,05 193 23 215,23 197,18 52,65	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6 18.599 31.152,91 857,52 16.537,8	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36 80 1.450 2.445,63 66,89 1.290	44,126,599,03 11,272,295,01 26,944,599,03 647,449 568,396 12,761,133,01 45,002,779,04 11,777,231,01 28,116,422,7 532,649 42,877,778,30 11,830,432,01 28,031,678,52 642,055 642,055 537,707 13,631,572,05 44,321,103,04 11,572,268,01 26,126,595,4 665,521 502,115 11,1444,759,26	4.764.92 1.217.92 2.909.52 69.913 61.377 1.377.94 4.924.32 1.271.05 3.225.95 4.629.42 1.277.45 3.266.99 69.331 58.063 1.471.94 59.25.95 1.471.94 54.219.72 2.821.22 71.645 54.219 1.235.85 4.252.25 54.219 55.255 56.255 57.
15 1.2	bit - 12.2023 2023 bit in the second		2015 2016 2017	Bolnica ObiteJjska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska	291.900 394.980,25 765.961,7 919.954	83,4 112,85 218,85 262,84	146.625 43.125 124.200	25	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,72 4.073.210,24 8.496.581,04 229.702,01 468.255 4.110.237,53 8.436.581,04 229.702,01 468.255 4.110.237,53 8.434.803,13 20.558,92 470.132 7.566.538,92 470.132 7.566.538,92 470.132 7.566.538,92 470.132 7.566.538,92 470.132 3.569.458,92 470.132 3.569.458,92 470.132 3.569.458,93 4.110.7429,25 3.559.458,93 4.157.429,25 4.579.458,93 4.579.459,93 4.579.459,	12.122.879,62 4.118.055,94 8.310.767,34 240,463,45 443.088 3.510.758,77 4.073.210,24 8.496,581,04 229,702,01 468.255 3.455,155,76 12.530,667,76 4.110.237,53 8.434.803,13 230,558,92 470,152 3.660,558,92 470,152 3.660,558,92 470,152 3.660,558,92 470,152 3.660,558,92 470,152 3.590,456,92 472,289 3.579,456,32 447,289 3.579,456,32 447,289 3.579,456,32 447,289 3.579,456,32 415,7429,25	1.991.298,17 1.549.870,65 1.549.870,65 1.2431.260,75 204.434,55 192.769,17 1.980.278,39 1.448,145,71 12.991.022,19 203.087,23 20	195.189 195.182,274 1.218.531,72 20.039 18.895,54 194.110 141.949,52 1.273.400,41 22.554,49 22.554,49 22.554,26 31.021,39 21.363,04 190.371 150.564,26 37.510,60 47.462,11 17.142,23 152.81 122.91,91 122.91,91 122.91,91 122.91,91 122.91,91 122.91,91 123.91,91 12	1.159.420 160.117,22 1.173.036,78 189.839,8 1.096.164,33 168.294,84 648.169,12 149.237,61	1.586,98 219,16 1.605,62 259,85 1.486,71 230,36 887,19 204,27	105.696 823.430,4 1111.120 462.720 722.424 168.432 1.118.640 926.400 946.464 10.33.080 946.464	22,02 171,55 23,15 96,4 150,51 35,09 233,05 193 233,05 193 233,25,23 197,18 52,65 31,56	27.536,7 1.622,96 20.640,2 31.148,57 1.453,87 1.453,87 1.453,87 1.025,6 18.589 30.144,39 1.025,6 18.589 20.540,2 20.557,8	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36 80 1.450 2.445,63 66,89 1.290 2.198	44,126,599,03 11,279,295,01 26,944,599,03 647,449 556,396 12,761,133,01 45,602,779,04 11,771,231,01 28,116,422,7 6,32,649 483,777,133,01 13,335,235,56 42,871,783,03 11,830,432,01 28,031,676,52 642,059 537,707,133,1572,05 642,059 537,707,135,126,50 11,547,759,26 39,376,485,03 11,527,265,01	4,764,92 1,217,97 2,809,56 69,913 61,377 4,924,33 1,271,06 3,036,11 (88,315 52,239 1,493,97 4,629,43 1,493,97 4,629,43 1,497,98 (9,331 58,063 1,471,98 (9,331 58,063 1,471,98 (4,785,93) 1,471,98 (4,785,93) 1,471,98 (4,785,93) 1,471,98 (4,785,93) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95 (4,785,95) 1,474,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,474,95(4,785,95) 1,475,95(4,785,95) 1,475,95(4,785,95) 1,475,95(4,785,95) 1,475,95(4,785,95) 1,475,95(4
15 🗘 1.2	015 - 12.2023 2023 5 Nonth 12 Show only locked Series Chart Series Chart		2015 2016 2017	Bolnica Obiteljska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obrazovna Ostale nestambene Sportska dvorana Uredska Obrazovna Obraželska Obrazovna Ostale nestambene Sportska dvorana Uredska Bolnica Obražova Ostale nestambene Sportska dvorana Uredska Obražovna Ostale nestambene Sportska dvorana Uredska Obražovna Ostale nestambene Sportska dvorana Uredska	291.900 394.980,25 765.961,7	83,4 112,85 218,85	146.625 43.125 124.200	25	12.122.879,62 4.118.055,94 8.310.767,34 240.463,45 443.088 3.510.758,77 12.267.754,72 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.073.210,24 4.100.237,53 8.434.803,13 2.058,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 3.066,758,92 4.070.132 4.070.244,09 2.06,615,22 4.127,289 3.579,458,32 4.157,429,25 4.147,274,29,25 4.147,274,29,25 4.147,274,29,25 4.147,249,25 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,449,45 4.147,44	$\begin{array}{c} 12.122.879,62\\ +1.18.055,94\\ +3.310.767,34\\ 240.463,45\\ +43.088\\ -3.510.758,77\\ +4.033.210,24\\ +0.754,72\\ +0.73.210,24\\ +0.754,72\\ +0.73.210,24\\ +0.754,72\\ +0$	1.991.288,17 1.598,87,06 12.431.260,75 204.434,59 192.769,17 1.980.278,39 1.448,457,11 2.991.022;19 2.991.022;19 2.991.022;19 2.991.022;19 2.991.022;19 1.461.955,051 1.461.956,057 1.9794,272 1.9794,272 1.942,270 1.	195.189 195.182,74 1.218.531,72 2.0.039 18.895,54 194.110 141.949,52 1.22.554,49 22.156,64 192.249 22.156,64 192.235 1.247.962,96 31.021,39 21.363,04 190.371 190.544,22 19.564,66 47.462,11 17.142,23 157.881	1.159.420 160.117,22 1.173.036,78 189.839,8 1.086.164,33 168.294,84 648.169,12	1.586,98 219,16 1.605,62 259,85 1.486,71 230,36 887,19	105.696 823.430,4 1111.120 462.720 722.424 168.432 1.118.640 926.400 110.400 1.033.080 946.464 252.720	22,02 171,55 23,15 96,4 150,51 35,09 233,05 193 23 215,23 197,18 52,65	27.536,7 1.622,96 20.640,2 31.148,57 1.453,84 20.640,2 30.144,39 1.025,6 18.599 31.152,91 857,52 16.537,8	2.147,95 126,6 1.610 2.429,69 113,4 1.610 2.351,36 80 1.450 2.445,63 66,89 1.290	44,126,599,03 11,272,295,01 26,944,599,03 647,449 568,396 12,761,133,01 45,002,779,04 11,777,231,01 28,116,422,7 532,649 42,877,778,30 11,830,432,01 28,031,678,52 642,055 642,055 537,707 13,631,572,05 44,321,103,04 11,572,268,01 26,126,595,4 665,521 502,115 11,1444,759,26	4.764.9: 1.217.9: 2.909.5: 69.913 61.377 1.377.9: 4.924.3: 1.271.0: 3.036.11 68.315 52.233 1.493.9; 4.629.4: 1.277.4: 3.026.9; 4.629.4: 1.277.4: 3.026.9; 4.629.4: 1.277.4: 3.026.9; 4.629.4: 1.277.4: 3.026.9; 4.629.4: 1.277.4: 3.026.9; 4.629.4: 1.277.4: 3.026.9; 4.629.4: 1.471.9; 1.471.9; 1.47



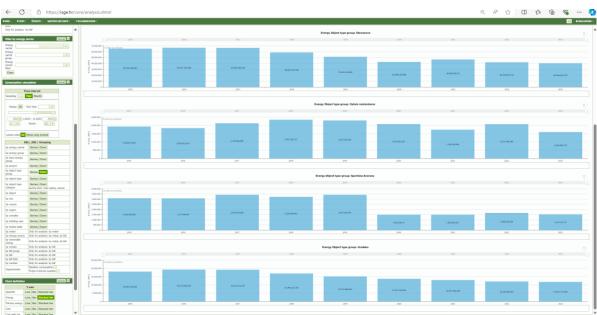


Monitoring and reporting of final energy consumption - through chart view





This level provides a quick visual overview of the data, allowing for immediate identification of any reduction in consumption, whether for a group sample or an individual building.



In the next step, it is possible to disaggregate the data with one click by, for example, types of buildings, and see which of them and how much affects the reduction in consumption.

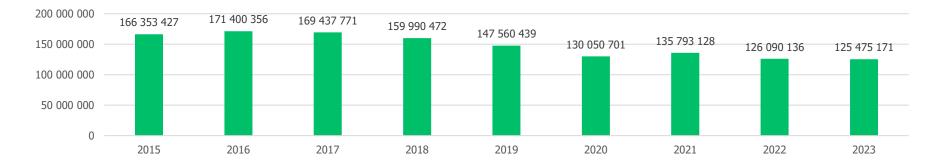


2

page **13**

The impact of renovation on the reduction of final consumption – after 2017

2	Year	Number of	A _k [m ²]	2015_2016_2017 (baseline)	Year	Savin Year/Bas		
consumption - adjustments		ECC		Energy consumption - total (kWh)	Energy consumption - total (kWh)	Energy savings - total (kWh)	Energy savings - total (%)	
en	2015	229	767.700,33	169.063.851,63	166.353.427			
ĒĒ	2016	229	767.700,33	169.063.851,63	171.400.356			Baseline
su ist	2017	229	767.700,33	169.063.851,63	169.437.771			
consum adjustm	2018	229	767.700,33	169.063.851,63	159.990.472	9.073.379	5,37%	
adc	2019	229	767.700,33	169.063.851,63	147.560.439	21.503.412	12,72%	
a	2020	229	767.700,33	169.063.851,63	130.050.701	39.013.151	23,08%	
Final	2021	229	767.700,33	169.063.851,63	135.793.128	33.270.723	19,68%	
ш.	2022	229	767.700,33	169.063.851,63	126.090.136	42.973.716	25,42%	
	2023	229	767.700,33	169.063.851,63	125.475.171	43.588.680	25,78%	





stream

The impact of renovation on the reduction of final consumption – after 2021



			2021 (baseline)		Savings	2022/2021
Group of ECC by purpose	Number of ECC	A _k [m ²]	Energy consumption - total (kWh)	Energy consumption - total (kWh)	Energy savings - total (kWh)	Energy savings - total (%)
Hospitals (Outpatient clinic, Hospital)	19	174.681,86	55.145.875	52.587.024	2.558.851	4,64%
Multiapartment buildings (Student Dormitory, Residential building, Retirement Home)	18	77.982,01	17.957.357	15.493.545	2.463.812	13,72%
Educational buildings (Kindergarten, Museum and Libraries, Primary school)	163	421.193,16	46.893.983	42.162.053	4.731.930	10,09%
Office buildings	23	73.417,36	12.971.382	12.106.086	865.296	6,67%
Sports Hall	2	14.055,53	1.500.416	1.668.282	-167.866	-11,19%
Other non-residential building (Prisons, Penitentiaries and Correctional centres; Buildings for cultural and artistic activities and entertainment)	4	6.370,41	1.740.039	2.073.146	-333.107	-19,14%
Total	229	767.700,33	136.209.051	126.090.136	10.118.915,57	7,43%
			2021 (baseline)	2023	Savings	2023/2021
Group of buildings by purpose	Number of buildings	A _k [m ²]	Energy consumption - total (kWh)	Energy consumption - total (kWh)	Energy savings - total (kWh)	Energy savings - total (%)
Hospitals (Outpatient clinic, Hospital)	19	174.681,86	55.145.875	54.789.307	356.567	0,65%
Multiapartment buildings (Student Dormitory,						
Residential building, Retirement Home)	18	77.982,01	17.957.357	15.136.810	2.820.547	15,71%
Residential building, Retirement Home) Educational buildings (Kindergarten, Museum and Libraries, Primary school)	18 163	77.982,01 421.193,16			2.820.547 6.349.979	15,71% 13,54%
Residential building, Retirement Home) Educational buildings (Kindergarten, Museum and Libraries, Primary school) Office buildings	163 23	421.193,16	46.893.983 12.971.382	40.544.004		13,54% 8,47%
Residential building, Retirement Home) Educational buildings (Kindergarten, Museum and Libraries, Primary school) Office buildings Sports Hall	163	421.193,16	46.893.983 12.971.382	40.544.004	6.349.979	13,54%
Residential building, Retirement Home) Educational buildings (Kindergarten, Museum and Libraries, Primary school) Office buildings	163 23	421.193,16	46.893.983 12.971.382 1.500.416	40.544.004 11.872.773 1.527.318	6.349.979 1.098.609	13,54% 8,47%



Calculation of achieved savings with adjustments to final consumption



An analytical module is currently **under** development in which the methodology for calculating energy savings is integrated

adjustment of thermal energy for heating according to the heating degree days

Multiple possibilities of defining the baseline year

🛊 USERS 🔹 🗐 OBJECTS 🔹 🖃 REPORTS AND CHARTS 👻 🛹	GED ADMINISTRATION -													9	A VANJA.HART
Object Consumption/Sensors															
able Simple View 1	Statistics of selected objects	;													
Table 2			in at least one				229								
lap Map	Objects with consumption in	n at least one y	ear, which hav	e an entered	heated area	Ak (under ana	lysis) 229								
avings verification O Charts - Advanced	Export														
tter for smaller amounts of data, 2 is better for larger amounts . Values are the same.															
	Consumption indicators ^(?)														
	Year			201	5					20	16				
t selection Refresh	Analysis Type	Ener	.gy	CO2 emi	ission	Primary	energy	Ene	rgy	CO2 en	nission	Primary	energy	Ener	gy
Object Label - Object Object user I - Object user Itina.madgzevic - StreamSavePlus-An • ow more detailed object filters Clear per of selected objects: 465		Indicator of energy consumption of for heating [Wh/(m ² HDD)]	Electricity consumption e indicator	heating	Electricity CO2 emission indicator [tCO2/m2]	Indicator primary energy consumption heating [Wh/(m ² HDD)]	energy	Indicator of energy consumption for heating [Wh/(m ² HDD)]	Electricity consumption indicator [kWh/m²]	Indicator of CO2 emission for heating [kgCO2/(m ² HDD)]	Electricity CO2 emission indicator [tCO2/m2]	Indicator primary energy consumption heating [Wh/(m ² HDD)]	Primary energy electricity consumption indicator [kWh/m ²]	Indicator of energy consumption for heating [Wh/(m ² HDD)]	Electricity consumption indicator [kWh/m²
	Bolnica	106,41	69,40	0,03	0,02	118,02	112,01	109,47	70,23	0,03	0,02	121,38	113,35	108,33	71,73
verification Refresh	Obiteljska	81,44	52,81	0,02	0,01	92,47	85,23	85,49	52,23	0,02	0,01	94,84	84,30	82,24	52,71
	Obrazovna	51,36	19,71	0,01	0,005	61,07	31,81	50,54	20,15	0,01	0,005	59,48	32,52	50,66	20,00
seline Calculation	Ostale nestambene	39,53	37,75	0,009	0,009	43,32	60,92	31,86	36,06	0,007	0,008	34,92	58,20	32,80	36,19
aseline Calculation	Sportska dvorana	69,15	31,52	0,02	0,007	97,38	50,88	65,39	33,31	0,02	0,008	92,85	53,77	76,77	33,45
aseline Calculation	Uredska	58,54	47,82	0,01	0,01	67,34	77,18	62,14	47,06	0,02	0,01	71,41	75,96	61,12	49,15
aseline Calculation															•
aseline Calculation	🖈 Export														
aseline Calculation															
aseline Calculation	Consumption ^(?)														
aseline Calculation	Year			20	D15					:	2016				
aseline Calculation	Analysis Type	En	ergy	CO2 e	mission	Prima	ry energy	E	nergy	CO2	emission	Prima	ry energy	Er	ergy
aseline Calculation aseline Calculation aseline Calculation	Building type / Consumption	Energy consumption for heating [kWh]	Electricity consumption [kWh]	CO2 emission of heating [tCO2]	Electricity CO2 emission [tCO2]	Primary energy consumptio for heating [kWh]		Energy consumption for heating [kWh]			Electricity f CO2 emission [tCO2]	Primary energy consumptio for heating [kWh]		Energy consumption for heating [kWh]	Electri consum [kWł
Paseline Calculation	Bolnica	46.329.230	12.122.880	10.390	2.847	50.900.459	19.566.328	47.816.313	12.267.755	10.720	2.881	52.537.083	19.800.156	45.123.322	12.530.
seline Calculation	Obiteljska	15.581.983	4.118.056	3.943	967	18.218.448	6.646.542	16.134.938		4.040	956	18.722.024	6.574.161	16.289.528	4.110.2
seline Calculation	Obrazovna	56.798.478	8.310.767	15.788	1.951	68.140.159	13.413.578	58.420.782		16.060	1.995	69.312.764	13.713.482	58.171.743	8.434.8
	Ostale nestambene	668.089	240.463	148	56	732.899	388.108	653.289	229.702	145	54	716.693	370.739	660.648	230.5
seline Calculation	Sportska dvorana	2.649.338	443.088	879	104	3.731.321	715.144 5.666.365	2.609.195	468.255	877	110	3.705.110	755.764	2.959.882	470.1
								15.822.679	3.455.136	3.752	811	17.887.621	5.576.589	15.604.835	3.608.5
seline Calculation	Uredska	14.552.431	3.510.759	3.447	824	16.453.881	5.000.505	10.022.073	5.155.150	01102	011	17.007.021	0107 01007	20100 11000	DIOCON
aseline Calculation		14.552.431	3.510.759	3.447	824	10.453.881	5.000.305	10.022.075	5.155.150	0.002	011	17.007.021	0107 01007	2010011000	•



Calculation of achieved savings with adjustments to final consumption



Object	Consumption/Sensors	▲ 🕅 Exp	port													
Table	Simple View 1 Table 2	Referen	nce (base indicators) ^{(;}	າ												
Мар	Мар					00	laslas	Delman								
Savings verificat	ation 🔵 Charts - Advanced		Analysis Type	Ene	rgy	CO2 em	ISSION	Indicator	energy							
better for smaller am ata. Values are the sa ect selection	mounts of data, 2 is better for larger amounts same.	Buildin	a type / The results	Indicator of energy consumption for heating [Wh/(m ² HDD)]	Electricity consumption indicator	Indicator of CO2 emission for heating [kgCO2/(m ² HDD)]	Electricity CO2 emission indicator [tCO2/m2]	primary energy consumption heating [Wh/(m ² HDD)]	Primary energy electricity consumption indicator [kWh/m ²]			Cal	culate	d indic	ators b	y buildin
Object Label	l - Object Object user		Bolnica	108,07	70,45	0,03	0,02	119,91	113,71							'
el - Object use	ser		Obiteljska	83,06	52,58	0,02	0,01	92,47	84,87					tv	pe	
ntina.madzarevi	vic - StreamSavePlus-An 🔻		Obrazovna	50,85	19,96	0,01	0,005	59,71	32,21					c y		
how more detail	ailed object filters Clear		tale nestambene	34,73	36,67	0,008	0,009	38,06	59,18							
her of selecte	red objects: 465	Sp	ortska dvorana	70,43	32,76	0,02	0,008	99,79	52,88							
iber of selecte	eu object3, 405		Uredska	60,60	48,01	0,02	0,01	69,72	77,49							
Baseline Cal	alculation	Reducti	ion of energy consump	otion in the ye	ear: 2018 ···											
Baseline Cal Baseline Cal Baseline Cal	alculation alculation		Analysis Type	Energy	Electricity		Corrected reference (base)		Electricity	corrected reference (base) CO2	Corrected reference (base) CO ₂		.		•	oy type o ar - witl
Baseline Calo Baseline Calo Baseline Calo Baseline Calo Baseline Calo	alculation alculation alculation alculation alculation		Analysis Type	Energy consumptio for heating [kWh]	Electricity consumptio [kWh]	Corrected reference (base) n energy consumptio for heating [kWh]	reference (base) electricit consumpti [kWh]	e CO: emission y heating on [tCO]	Electricity of CO2 emission	Corrected reference (base) CO ₂ emission for beating [tCO ₂]	reference (base) CO ₂ emission for electricity [tCO ₂]		ilding	in sele	•	ar - witl
Baseline Cale Baseline Cale Baseline Cale Baseline Cale Baseline Cale Baseline Cale Baseline Cale	alculation alculation alculation alculation alculation alculation		Analysis Type Ig type / Consumption Bolnica	Energy consumptio for heating [kWh] 46.506.850	Electricity consumptio [kWh] 12.198.896	Corrected reference (base) n energy consumption for heating [kWh] 51.379.181	reference (base) electriciti consumpti [kWh] 12.307.10	e CO: emission y heating on [tCO]	electricity CO2 emission ftCO2	Corrected reference (base) CO ₂ emission for boating [tCO ₂] 12.145	reference (base) CO ₂ emission for electricity [tCO ₂] 2.890	Pri bu	ilding and v	in sele vithou	t adjust	ar - witl
Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal	alculation alculation alculation alculation alculation alculation		Analysis Type Ig type / Consumption Bolnica Obiteljska	Energy consumptio for heating [kWh] 46.506.850 15.984.909	Electricity consumptio [kWh] 12.198.896 3.982.459	Corrected reference (base) n energy consumptio for heating [kWh] 51.379.181 16.405.919	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501	e CO: emission y heati g on [tCO] 1 10.430	electricity CO2 emission tCO2 2.864 935	Corrected reference (base) CO2 emission for boating [tCO2] 12.145 4.103	reference (base) CO2 emission for electricity [tCO2] 2.890 963	Pri bu 51.105./14 18.555.056	ilding and v ^{19.089.017} 6.427.690	in sele vithou 18.264.751	t adjust	ar - witl
Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal	alculation alculation alculation alculation alculation alculation alculation	Buildin	Analysis Type Ig type / Consumption Bolnica Obiteljska Obrazovna	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003	Electricity consumptio [kwh] 12.198.896 3.982.459 7.960.244	Corrected reference (base) energy consumptio for heating [kWh] 51.379.181 16.405.919 54.950.572	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051	e CO: emission heating [tCO] 1 10.4:0 4.01 . 13.44 7	Electricity CO2 emission [tCO2] 2.864 935 1.869	Corrected reference (base) CO ₂ emission for beating [tCO ₂] 12.145 4.103 14.838	reference (base) CO2 emission for electricity [tCO2] 2.890 963 1.976	Pri bu 51.105./14 18.555.056 58.819.239	ilding and v 19.089.017 6.427.690 12.847.834	in sele vithou 18.264.751 64.524.020	t adjust 6.618.209 13.580.278	ar - witl
Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal Baseline Cal	alculation alculation alculation alculation alculation alculation alculation	Buildin	Analysis Type Ing type / Consumption Bolnica Obiteljska Obrazovna stale nestambene	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059	Electricity consumptio [kWh] 12.198.896 3.982.459 7.960.244 240.615	Corrected reference (base) n energy consumptio for heating [kWh] 51.379.181 16.405.919 54.950.572 625.944	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575	CO: emission heati g [tCO] 1 10.43 0 . 4.01 . 13.44 7 . 150	Electricity CO2 emission 1000-1 2.864 935 1.869 56	Corrected reference (base) CO ₂ emission for heating [tCO ₂] 12.145 4.103 14.838 138	reference (base) CO2 emission for [tCO2] 2.890 963 1.976 55	Pri bu 51.105./14 18.555.056	ilding and v ^{19.089.017} 6.427.690	in sele vithou 18.264.751	t adjust	ar - witl
Baseline (Cal Baseline (Cal Baseline (Cal Baseline (Cal Baseline (Cal Baseline (Cal Baseline (Cal Baseline (Cal Baseline (Cal	alculation alculation alculation alculation alculation alculation alculation	Buildin	Analysis Type ag type / Consumption Bolnica Obiteljska Obrazovna stale nestambene sportska dvorana	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059 2.773.267	Electricity consumptio [kwh] 12.198.896 3.982.459 7.960.244 240.615 447.289	Corrected reference (base) energy consumption for heating [kWh] 51.379.181 16.405.912 52.944 2.585.879	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575 460.492	CO: emission heating [tCO] 1 10.45 0 . 4.01 . 13.44 7 . 150 . 934	Electricity CO2 emission (4CO-1) 2.864 935 1.869 56 105	Corrected reference (base) CO2 emission for baseling [tCO2] 12.145 4.103 14.838 138 866	reference (base) CO2 emission for aloctricity [tCO2] 2.890 963 1.976 55 108	Pri bu 51.105./14 18.555.056 58.819.239	ilding and v 19.089.017 6.427.690 12.847.834	in sele vithou 18.264.751 64.524.020	t adjust 6.618.209 13.580.278	ar - witl
Baseline Call	alculation alculation alculation alculation alculation alculation alculation alculation alculation	Buildin	Analysis Type Ing type / Consumption Bolnica Obiteljska Obrazovna stale nestambene	Energy consumptio for heating [kWh] 46.506.850 15.984.9009 50.841.003 680.059 2.773.267 13.364.757	Electricity consumptio [kwh] 12.198.896 3.982.459 7.960.244 240.615 447.289 3.579.458	Corrected reference (base) energy consumption for heating [kWh] 51.379.181 16.405.919 54.950.572 625.944 2.585.879 11.431.676	reference (base) electricit consumpti [kwh] 12.307.10 4.100.501 8.414.051 233.575 460.492 3.524.811	CO: emissic heati f(CO)	Electricity cO2 emission (2.864 935 1.869 56 105 840	Corrected reference (base) CO2 emission for [tCO2] 12.145 4.103 14.838 138 866 2.878	reference (base) CO2 emission factorisity [tCO2] 2.890 963 1.976 55 108 828	Pri bu 51.105./14 18.555.056 58.819.239 745.739	ilding and v 19.689.017 6.427.690 12.847.834 388.353	in sele vithou 18.264.751 64.524.020 686.050	cted ye t adjust 6.618.209 13.580.278 376.990	ar - with ment
Baseline Call	Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation	Buildin	Analysis Type ag type / Consumption Bolnica Obiteljska Obrazovna stale nestambene sportska dvorana	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059 2.773.267 13.364.757 Reduction o	Electricity consumptio [kWh] 12.198.896 3.982.459 7.960.244 240.615 447.289 3.579.458 f energy consult	Corrected reference (base) n energy consumption for heating (kwh) 51.379.181 16.405.919 54.950.572 625.944 2.585.879 11.431.676 umption [kwh	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575 460.492 3.524.811]: 7.859.893	 CO: emissic i heati g (CO) ftCO 10.45 4.01 13.44 150 934 3.20 Redu t 	Electricity CO ₂ emission (CO ₂) emission (CO ₂) 2.864 935 1.869 56 105 840 or of CO ₂ emission	Corrected reference (base) CO2 emission for location [tCO2] 12.145 4.103 14.838 138 866 2.878 sion [tCO2]:	reference (base) CO ₂ emission for aloctricity [tCO ₂] 2.890 963 1.976 55 108 828 2.939	Pri bu 51.105./14 18.555.056 58.819.239 745.739	ilding and v 19.689.017 6.427.690 12.847.834 388.353	in sele vithou 18.264.751 64.524.020 686.050	cted ye t adjust 6.618.209 13.580.278 376.990	ar - with ment
Baseline Call	Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation	Buildin Os S	Analysis Type Ig type / Consumption Bolnica Obiteljska Obrazovna stale nestambene iportska dvorana Uredska	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059 2.773.267 13.364.757 Reduction o	Electricity consumptio [kWh] 12.198.896 3.982.459 7.960.244 240.615 447.289 3.579.458 f energy consult	Corrected reference (base) energy consumption for heating [kWh] 51.379.181 16.405.919 54.950.572 625.944 2.585.879 11.431.676	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575 460.492 3.524.811]: 7.859.893	 CO: emissic i heati g (CO) ftCO 10.45 4.01 13.44 150 934 3.20 Redu t 	Electricity cO2 emission (2.864 935 1.869 56 105 840	Corrected reference (base) CO2 emission for location [tCO2] 12.145 4.103 14.838 138 866 2.878 sion [tCO2]:	reference (base) CO2 emission factorisity [tCO2] 2.890 963 1.976 55 108 828	Pri bu 51.105./14 18.555.056 58.819.239 745.739	ilding and v 19.689.017 6.427.690 12.847.834 388.353	in sele vithou 18.264.751 64.524.020 686.050	cted ye t adjust 6.618.209 13.580.278 376.990	ar - witl
Baseline Call	Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation	Buildin	Analysis Type Ig type / Consumption Bolnica Obiteljska Obrazovna stale nestambene iportska dvorana Uredska	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059 2.773.267 13.364.757 Reduction o	Electricity consumptio [kWh] 12.198.896 3.982.459 7.960.244 240.615 447.289 3.579.458 f energy consult	Corrected reference (base) n energy consumption for heating (kwh) 51.379.181 16.405.919 54.950.572 625.944 2.585.879 11.431.676 umption [kwh	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575 460.492 3.524.811]: 7.859.893	 CO: emissic i heati g (CO) ftCO 10.45 4.01 13.44 150 934 3.20 Redu t 	Electricity CO ₂ emission (CO ₂) emission (CO ₂) 2.864 935 1.869 56 105 840 or of CO ₂ emission	Corrected reference (base) CO2 emission for location [tCO2] 12.145 4.103 14.838 138 866 2.878 sion [tCO2]:	reference (base) CO ₂ emission for aloctricity [tCO ₂] 2.890 963 1.976 55 108 828 2.939	Pri bu 51.105./14 18.555.056 58.819.239 745.739 Re En	ilding and v ^{19,689,017} 6.427,690 12,847,834 388,353 ergy c	in sele vithou ¹ ^{57,009,687} 18.264.751 64.524.020 685.050 onsum	cted ye t adjust 6.618.209 13.580.278 376.990	ar - with ment
Baseline Call	Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation	Buildin Os S	Analysis Type ag type / Consumption Bolnica Obiteljska Obrazovna stale nestambene iportska dvorana Uredska	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059 2.773.267 13.364.757 Reduction o Reduction	Electricity consumptio [kwh] 12.198.896 3.982.459 7.960.244 240.615 447.289 3.579.458 f energy conso of energy conso	Corrected reference (base) n energy consumption for heating (kwh) 51.379.181 16.405.919 54.950.572 625.944 2.585.879 11.431.676 umption [kwh	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575 460.492 3.524.811]: 7.859.893	 CO: emissic i heati g (CO) ftCO 10.45 4.01 13.44 150 934 3.20 Redu t 	Electricity CO ₂ emission (CO ₂) emission (CO ₂) 2.864 935 1.869 56 105 840 or of CO ₂ emission	Corrected reference (base) CO2 emission for location [tCO2] 12.145 4.103 14.838 138 866 2.878 sion [tCO2]:	reference (base) CO ₂ emission for aloctricity [tCO ₂] 2.890 963 1.976 55 108 828 2.939	Pri bu 51.105./14 18.555.056 58.819.239 745.739 Re En	ilding and v ^{19,689,017} 6.427,690 12,847,834 388,353 ergy c	in sele vithou ¹ ^{57,009,687} 18.264.751 64.524.020 685.050 onsum	cted ye t adjust 6.618.209 13.580.278 376.990	ar - with ment
Baseline Call	Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation	Buildin Os S	Analysis Type Ig type / Consumption Bolnica Obiteljska Obrazovna stale nestambene iportska dvorana Uredska	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059 2.773.267 13.364.757 Reduction o Reduction	Electricity consumptio [kwh] 12.198.896 3.982.459 7.960.244 240.615 447.289 3.579.458 f energy conso of energy conso	Corrected reference (base) n energy consumption for heating (kwh) 51.379.181 16.405.919 54.950.572 625.944 2.585.879 11.431.676 umption [kwh	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575 460.492 3.524.811]: 7.859.893	 CO: emissic i heati g (CO) ftCO 10.45 4.01 13.44 150 934 3.20 Redu t 	Electricity CO ₂ emission (CO ₂) emission (CO ₂) 2.864 935 1.869 56 105 840 or of CO ₂ emission	Corrected reference (base) CO2 emission for location [tCO2] 12.145 4.103 14.838 138 866 2.878 sion [tCO2]:	reference (base) CO ₂ emission for aloctricity [tCO ₂] 2.890 963 1.976 55 108 828 2.939	Pri bu 51.105./14 18.555.056 58.819.239 745.739 Re En	ilding and v ^{19,689,017} 6.427,690 12,847,834 388,353 ergy c	in sele vithou ¹ ^{57,009,687} 18.264.751 64.524.020 685.050 onsum	cted ye t adjust 6.618.209 13.580.278 376.990	ar - with ment
BaselineCaloBaselineCaloBaselineCaloBaselineCaloBaselineCaloBaselineCalo	Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation	Buildin Os S	Analysis Type ag type / Consumption Bolnica Obiteljska Obrazovna stale nestambene iportska dvorana Uredska	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059 2.773.267 13.364.757 Reduction o Reduction	Electricity consumptio [kwh] 12.198.896 3.982.459 7.960.244 240.615 447.289 3.579.458 f energy cons of energy cons	Corrected reference (base) n energy consumption for heating (kwh) 51.379.181 16.405.919 54.950.572 625.944 2.585.879 11.431.676 umption [kwh	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575 460.492 3.524.811]: 7.859.893	 CO: emissic i heati g (CO) ftCO 10.45 4.01 13.44 150 934 3.20 Redu t 	Electricity CO2 emission (CO2) 2.864 935 1.869 56 105 840 or tof CO2 emis	Corrected reference (base) CO2 emission for location [tCO2] 12.145 4.103 14.838 138 866 2.878 sion [tCO2]:	reference (base) CO ₂ emission for aloctricity [tCO ₂] 2.890 963 1.976 55 108 828 2.939	Pri bu 51.105./14 18.555.056 58.819.239 745.739 Re En	ilding and v ^{19,689,017} 6.427,690 12,847,834 388,353 ergy c	in sele vithou ¹ ^{57,009,687} 18.264.751 64.524.020 685.050 onsum	cted ye t adjust 6.618.209 13.580.278 376.990	ar - with ment
Baseline Call Baseline Call	Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation Alculation	Buildin Os S	Analysis Type Ig type / Consumption Bolnica Obiteljska Obrazovna stale nestambene iportska dvorana Uredska Dort ion of energy consumption	Energy consumptio for heating [kWh] 46.506.850 15.984.909 50.841.003 680.059 2.773.267 13.364.757 Reduction o Reduction	Electricity consumptio [kwh] 12.198.896 3.982.459 7.960.244 240.615 447.289 3.579.458 f energy cons of energy cons	Corrected reference (base) n energy consumption for heating (kwh) 51.379.181 16.405.919 54.950.572 625.944 2.585.879 11.431.676 umption [%]	reference (base) electricit consumpti [kWh] 12.307.10 4.100.501 8.414.051 233.575 460.492 3.524.811]: 7.859.893	2 CO: emissic heati g (tCO) 1 10.43 0 . 4.01 1 . 13.44 7 . 3.20 1 . Redu t . Redu t	Electricity CO2 emission (CO2) 2.864 935 1.869 56 105 840 or tof CO2 emis	Corrected reference (base) CO2 emission for location [fCO2] 12.145 4.103 14.838 138 866 2.878 sion [fCO2]: ssion [%]:	reference (base) CO ₂ emission for aloctricity [tCO ₂] 2.890 963 1.976 55 108 828 2.939	Pri bu 51.105./14 18.555.056 58.819.239 745.739 Re En	ilding and v ^{19,689,017} 6.427,690 12,847,834 388,353 ergy c	in sele vithou ¹ ^{57,009,687} 18.264.751 64.524.020 685.050 onsum	cted ye t adjust 6.618.209 13.580.278 376.990	ar - with ment



EMIS - Calculation of achieved savings with adjustments to final consumption



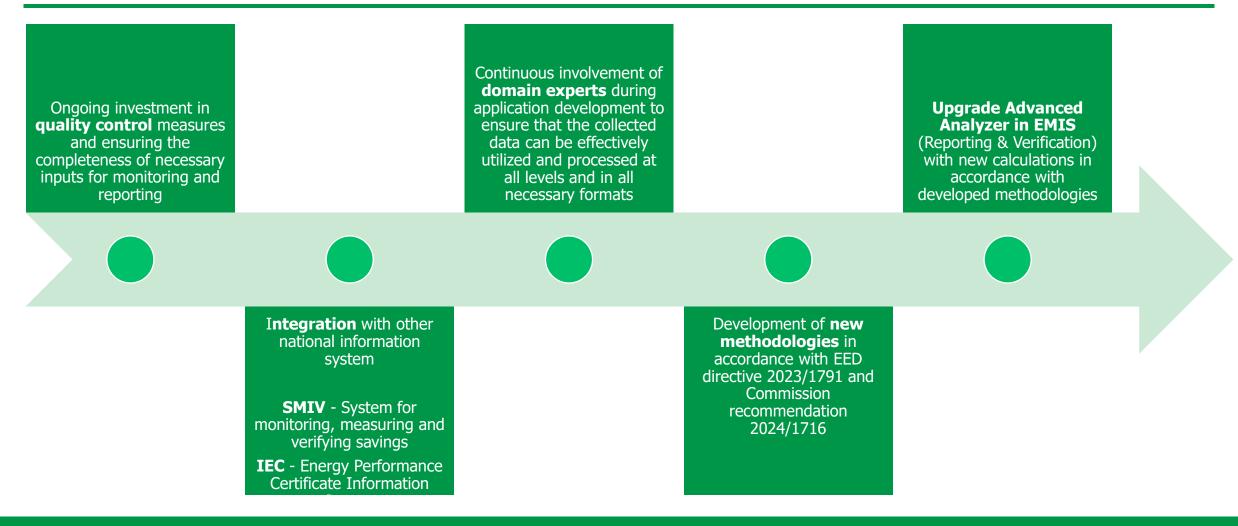
✤ Recapitulation of savings made using EMIS

ion - ents	Year	Number of ECC	A _k [m ²]	2015_2016_20	17 (baseline)	2021 (baseline)
nsumption djustment:		ECC		Energy savings - total (kWh)	Energy savings - total (%)	Energy savings - total (kWh)	Energy savings - total (%)
ns i	2018	229	767.700,33	7.859.893,00	5		
ons idj	2019	229	767.700,33	11.413.973,00	7		
CO	2020	229	767.700,33	31.797.345,00	20		
it al	2021	229	767.700,33	42.321.599,00	24		
Final witl	2022	229	767.700,33	41.085.981,00	25	3.166.008,00	2
Ш.	2023	229	767.700,33	2.344.285,00	2	-21.739.198,00	-25



Conclusion







Project partners









Thank You

Get in touch for more information!



Project coordinator – Jiří Karásek, SEVEn



Email the project at contact@streamsave.eu

All project reports will be available for download

on the streamSAVE website www.streamsave.eu



Follow the project on LinkedIn @streamSAVEH2020



Follow the project on Twitter <a>@stream_save





Use of EMIS system for monitoring, analysis and verification of energy savings

Example: Energy renovation of the primary school building and sports hall "Donja Dubrava"



Example: Energy renovation of the school building and sports hall



Energy renovation of the school building and sports hall of the Primary School "Donja Dubrava"

Project implementation period	19.11.2018 19.11.2020.
Total investment	903.568 EUR (871.342 EUR)
Co-financing	529.674 EUR (60,79% eligible costs)

Measures

1	Thermal insulation of the outer envelope (walls, ceiling, roof)
2	Replacement of exterior windows and doors
3	Replacing existing gas boilers with new ones
4	Automation control of the heating system
5	Installation of thermostatic valves
6	Installation of ECO hood and exhaust fan
7	Replacing the lighting system with new LED lighting



Osnovna škola Donja Dubrava - ENERGETSKA OBNOVA (skole.hr)



Data from the Register of issued energy certificates



✤ Only selected set of publicly available information

RPT-IEC-09					4 / 475	a - 566 4											
10.0200																	
TRUCK PROFESSION	State.	lak iz Heystia izlar	ih energetskik certifikata, s	tanja na dan 8.10.2024.													
10.000000000000000000000000000000000000	ives	i historik mangataki met	their other of some re-energistics of	etilizate infante ni 1. Saleganite 2017	gains print blandging.	united an information or supplicity of	without (FC) with	de Palitic - regiún y rejei	spale i margidices se	diama de	lative marks	Ing \$8173					
19-8-8-11-9-10-03-14	1.00	Space International				MARY SHEET AND INCOMES	-	NAME AND ADDRESS	-				-	-	-	-	
.4	1	CONTRACTA.	PLATER OF A PARTY	Control Control Price and Control Cont		(4.4			Statistics for the second seco	AN UNIT	A CONTRACTOR	Contenant A	CONTRACT'S	2020	Audi Auronation Alexandro Standard and a	Anten A	-
And the owner of the owner own											-		410.00				-
and the second se	1.4	A DRA DRA MARK AND	(areaseding) 211	10000415.00	Internet and	COMMANY LOD	Sarri .	Installation Resulting 40				A STATE	1.0.00	1001	10.14	0.9	100
Concession of the local division of the loca	1.00	a test stat value and	Marrie Talles	Viscoutors and	Visite and	the last stands	Agent.	Technical di				A SUMMER	in his same	-	19.11		100.00
	2	P UNE 2017 10000 2020	term limite	Views Loss (parts)	Vibrighten space	The B	Jam	Other Designs & spream Proceeding &	- 10 M		4.6.16	8.41.817	A-12-2024	004	10.44	10.11	200
	- C	1,007,014,1008,000	Stations	Visite born specifi	Kinebaru apres	(her-17.01.01.00) 3 her	Japan .	ignated a logs in	34 345	6 3	40.0	1 11.017	1.11.000	181	27.44	4.31	10.41
	1.	N. DOM. JOINT VALUE AND	March and Address of the second second	Viladariana gala	Numbers special	then basis rind	Value losses	increase brins having it.	3 80			4 10.000	410.007	100	10.44	1404	2014
CONTRACTOR DESIGNATION OF		P RE DOM: NAME AND	Interfaced Sold and a con-	Contract of the local division of the local	No. of Arrestory (1998) (199		Name .	Chindrafter I				10.00	A 10.000	9955	100.00	10.0	100.0
	1.20		And the	Contraction in the local lines	Theorem and		inese .	Contract of				ALC: NOT	O N ORT	- 22	10.0	100	-02-
	1.1	A LON DATE HAD AND	Area Tarter	Contention opense	Circulary (pain	Sec.61	Japan	Name and Address and A	10 10	1 1	10.00	8 16,807	in statut	-	44.11	16.21	4184
	11	1.11.171.1011.101	Anno course	TRANSPORT NAME	INAMES AND ADDRESS OF ADDRESS OF		Venue	NO CONTRACTOR	4 148	- m	(84) 10	Na Weller	4.41.2007	101		144.0	48
	14	P. 686 (611 (466) 883	Jame Barget	Vinterims gain	Venterlana quelo	Star 11	(Japan)	One Subsecting and	- 0 X85			14-9391	61/287	465	10.11	16.11	20121
	3	P. BR. N.A. Salls, S.F.	(Mark Store)	visite pair	Inches pas	391-11 TH. 12 ⁻¹ AUD	Agen	Compare Test	- 14 (MA)			No. No. OF T	0.0.001	-	10,71	10.0	217
	1.4-	7 87 374 188 82	Dati Jung John Agents	Colorise have	Taxabarana Taxabarana	They a characteria spect	(and the second	Sectors 10 Vindea 10	2 14			NAME	6 6 387	-	10.11	71.0	4.00
And in case of the local division of the loc	1.5	P. 64. 17'S. 1081. 57'	Caractrical Diff. (Sec. 4.1.)	TRANSPORT NAME	(And parties	And a second sec	And a local diversion of the local diversion	Maria Adulta Tat	- 10	÷ ÷ -	100	11.00.001	0.0.001		16.14	141.00	10.00
	11	P 110 2014 1620 MID	100 days		again ratio hannes	patient posts	inter .	summers and the	A 341			110201	6.6380	104	11.0	10.41	V.A.
ASS DOLLARS & CONTRACTOR		of test card class and	and being	International State	Charles State	Inchester.		inter the former (1.0.001	100			1.0
	- C -	P 885, 514, 1881, 187	Phylippes	Three land good	Tarley and		Jacob Contraction	Pubertile store	A 348			HART	1.0.00	100	100.00	10.7	100
	1.1	T DO NOT THE OWNER.	Mar hand	Constant and	Tenters and	parties and	100	Tauloos de 1				110.007	1.0.00	- C-			-
	1.0	A DREAM AND ADDREAM	John hants	Charlendorie gande	Nandara apata	New capacity	(bear)	Parahites don't	3 144			13.45.307	0.0.28	196	10.10	10.0	10.00
	1 6-	P 515 32'S 1887 522	Million .	Therefore and	had .	our Clief service care 12		Assessed				11.6267	+ 8.387	-	10.0		-56-
	1.0	I at any size bit	Cash limit	TRANSPORT AND	Viscontere space	incluing prints, doubt 1 animals	- The P	inger to				N-marr	10.00.000	100	and a	ine.lu	101.00
	24	IN YOUR DEAL TORONT ANY	Best inter-	COMPANY NAME			Assessminia	Low New YE	0 18	н е		NA NUMBER	0.0.007	101	10.0	188.05	20.41
		P. MIL NO. 8, MILL NO.	Chiminal Taxo	COMPANY SALE	(Antonio)	(Mark - prosenting	date:	Y di Antonio Mi	10 Mai		114	the location of	gi er anni i	044	16.24	(April 1	7.46
	1.1	2,24,274,2881,522	Marca Ann	Understand upon	define gen	100 (01 0)	Marcino	Table Bale Mill				14 (0.817)	414.387		10.00	84.6	2.44
	- S	7 888 3074 1007 302	Peaches	Visioner galt	dentire units a	patient proto	Japen .	Tanan Arm 1	8 84		10.0	1110201	G-KORK	100	107.53 10.14	0.0	100
	1.0-	2 108 107 1080 107	International Contraction	Climber have	Internation Date		Teor Da	Takgetheme N	2 34			ta ta gire	0.0.267	100	10.11	1220	100
	1 2 -	7. 10. 0710. 0000. 020	Martin Martel	Contractory and		the role failed	Jacob Land	Station of				Add and the other diversion of	0.4.364	-		Mar .	-
Concession in the local division in the loca		7 875 874 1886 887	And Agent	Concentration open	Name and Address of States		-	Free Lands J				111000	1.0.00	100	-	-	100
	1 ° -																
ACCOUNTS OF	16	17 (Rev. 2016), 1680, 2622	Carvolece \$14	Vitera lates	"Photomers special Reducertors, Balancettors, Balancettors	Stevin 1 indusin Public	(Dapa)	Design 4	8 10	6.3	31.9	25 (* 36 4	01081	1001	10.14	10.0	NO
	14	P. MIL 2012 MILL 202	OFICIALS.	Charlos and a state	No. of Concession, Name of Street, or other	See Street, See, see Factor	Lapet.	Destant	- 14	1.2	16.8	HART	101000	1444	-	16.0	144
			45-552000	80000000000000000000000000000000000000		And the second second second	0.00			-			-	4	5-1470		1
and the local division of the local division	-	Column Distance Training	International Contract of Charter		made statute		-		Statement Taxa And	-		partum.	-	-		-	7.00
			and a contract	Contract in the MED. Do					Artistic Co.	1 1000	A Descent	CONSELS.		COLOR OF THE OWNER	South and	And the second	CORD.
	8.	CHARLING ST	ORIGNOLANS.	Theorem and	Personal Statement	Responsed to a series	Jam	Derived	5 10		-	auger -	10.0385	147	-	100	-
		2.50 are used to	and the second s	Version and	There was been a	Station a station of	100 m	and one property limits it			-	11 milet		-		-	-
A CONTRACTOR OF THE OWNER OWNER OF THE OWNER	1.21	2 119 JULY 1988 1997	Petron Tarket		Polyce gas	Walari Jude adaptile	Same and	Nete Train 11				11 12 10 10 1	0.0.001		186.71	45.4	5.0
	- Gr	THE REAL PROPERTY.	Dation .	Constant and	distance of			Trans Party Streaments of St			44.8	ALC: NO.	0.0.00	100	10.14	144.0	-
termination of the local distance of the loc	1.5-	2 10 10 100 100	have not	Company and a series	Characters into a	then some it is a set to set of the		Trans 107 Brown C				14 (Bullet)	to benefit	-	10.14	10.0	125
	1.50	of the loss over 1	Jack Tarley	Vision and	Vibraties and	The below	Taxan Bur	this loss Plants N				NA STATISTICS	ALC: UNK		20.11	100	- 622
	A.	7 108 Art 1888, 552	Jame Sergel	Charles Same reports	Valence Annu specia	Shee 10	Finge Rett	Norther also 10.	3 344			Haart	0.0.201	.484	101.84	8.6	14.74
		3 108,011 1007 103	And Seder	Tribularitorie (gileli	Vibroviero grait	(Bard	(hap-fee	Darlie dia 2	3 4.8			14.0030-0	0.41,087	1000	10.17	16.41	10.00
	1.5	F LOR DOT THEM THE	And hear	Viscontena quali	Concentration against	they inter the same if stress	Agent	time falses a figure a	7 30	4 4	Atr. 1	NA VALUE	0.0.007	100	10.0	10.0	-

RADE

С

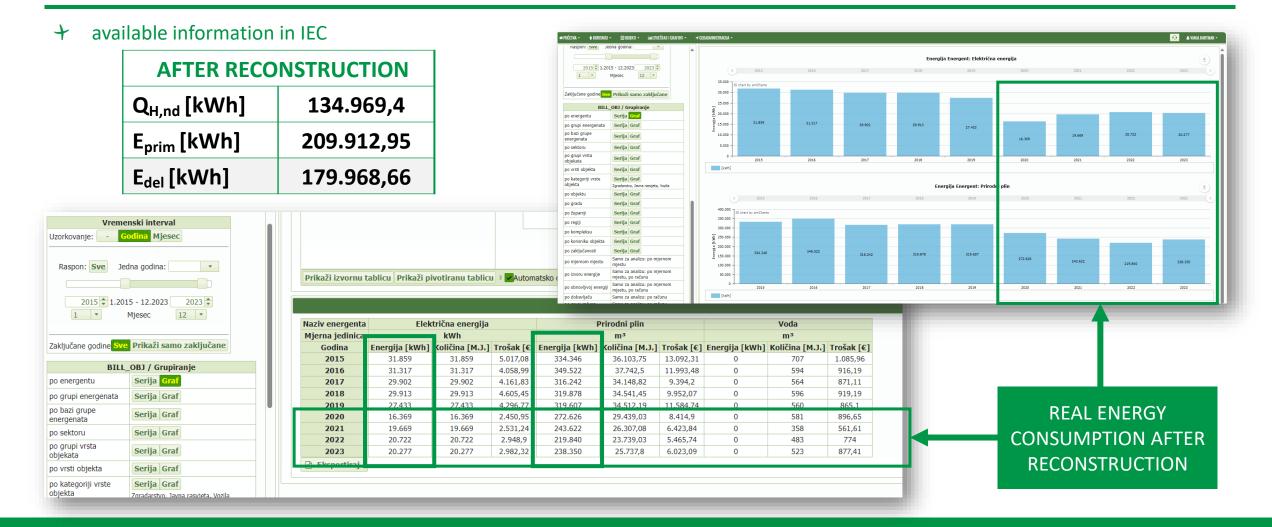
$m{\star}$ On site available information or in IEC

persi Province a exerption properto ZGRADA OSNOV ZGRADA OSNOV ZGRADA OSNOV Krbulja 21 Bartacefor	NE ŠKOLE NE ŠKOLE D NE ŠKOLE D 40	DONJA DUBRAVA ONJA DUBRAVA 19900 1828 Donja Dubra Nalik Ster Repty		SPORTSKA DVORANA C	prode i energetsko OSNOVNE Assilv sprode OSNOVNE Š silve uporabne cješte 4	om ontificirenju (Narod ŠKOLE DONJA KOLE DONJA DU
PODACI O ZGRADI			🖸 rekonstrukcija	PODACI O ZGRADI		nova
Vrsta zgrade (prema Provilniku)	Zgrade za o			Vrsta zgrade (prema Provilniku)	Sportske d	vorane
Vrsta zgrade prema složenosti tehričkih sustava		oženim tehničkim sustavom ola Donža Dubrava		Vrsta zgrade prema složenosti tehničkih sustava	agrada sa s	loženim tehničkim su
Vlasnik / Investitor k.f.br	761/32	kin kin		Vlasnik / Investitor	Osnovna Ši	kola Donja Dubrava
N.C.OF. Ploština korisne površine grijamog dijela zgrade As [vv]	1.749.51		DONJA DUBRAVA 1963 / 2020	k.č.br.	761/32	k.o.
Gradevinska (bruto) površina zgrade (w)	1.960.90	Mjerodavna meteorološka postala		Ploština korisne površine grijanog dijela zgrade Ak (w)	726,84	Godina izgradnj
Eaktor oblika (oruto) povrana zgrade (w) Eaktor oblika () (w~)	0.41	Referentna klima	Kontinentaina	Građevinska (bruto) površina zgrade (e-1)	809,61	Mjerodavna me
eastor opera to send	0,41			Faktor oblika /o [m-1]	0,41	Referentna klim
ENERGETSKI RAZRED ZGRADE		Specifične godilnja potrebna toplenika energija za gnjanje Q* H.ve (kWh/ (m*a)]	Specifična godišnja primarna mergija Epon (kWh/(m*a))	ENERGETSKI RAZRED ZGRADE		Specifična godišn energija za grijanj (m²a)]
		53	85			(
A+ A B C C C C C C C C C C C C C C C C C C		с	с			

RBR	69564	70493	TOTAL
Energy Performance Certificate Label	P_1082_2018_10109_NSZ2	P_1082_2018_10111_NSZ6	
Type of building	Educational building	Sports hall	
Name	Primary School "Donja Dubrava" - BUILDING	Primary School "Donja Dubrava" - SPORTS HALL	
City	DONJA DUBRAVA	DONJA DUBRAVA	
Q _{H,nd} [kWh]	92.957,81	42.011,59	134.969,4
Q" _{H,nd} [kWh/m ² a]	53,13 (C)	57,5 (C)	
E _{prim} [kWh]	147.989,80	61.923,15	209.912,95
E _{prim} [kWh/m ² a]	84,59 (C)	85,2 (A+)	
E _{del}	126.066,70	53.901,96	179.968,66
Date of issue	30.10.2020.	19.11.2020.	
Date of validy	30.10.2030.	19.11.2030.	
Year of construction of building	1983	1983	
A _k (m²)	1.749,51	726,84	2.476,35



EMIS Analytics – Final energy consumption (by energy bills, without adjustments)





stream

EMIS Analytics – Verification of energy savings (by energy bills, with adjustments)

NA - 🔹 KORISNICI - 🔛 OBJEKTI - Lanizvještaji i grafov	I - √ GEOA	dministracija -												🔉 🔺 VANIA HAR	TMAN
verinikauja usieua 🤍 Graiuvi - ivapreunu															
bolji za manju količinu podataka, 2 je bolji za veću količinu taka. Podaci su identični.		Statistika odabranih ob	jekata												
bir objekata Osvježi 🕻		Objekti s pot Objekti s potrošnjom u 🖹 Eksportiraj			ni (kandidati z ju unesenu po		analizi) 1								
Objekt Etiketa - Objekt Korisnik objekta															_
keta - Korisnik objekta		Pokazatelji potrošnje ^(?)													
npleks - OŠ Donja Dubrava [HR-40328 •		Godina			20	17					20	18			
Prikaži preciznije filtre objekata Očisti		Vrsta analize	Ener	gija	Emisij	a CO2	Primarna	energija	Ener	gija	Emisij	a CO2	Primarna	energija	
j odabranih objekata: 1 fikacija ušteda Osvjež 9 Bazna potrošnja Izračun 0 Bazna potrošnja Izračun		Tip zgrade / Rezultati	Pokazatelj potrošnje energije za grijanje [Wh/(m ² SDG)]	Pokazatelj potrošnje električne energije [kWh/m²]	Pokazatelj emisije CO2 energije za grijanje [kgCO2/(m ² SDG)]	Pokazatelj emisije CO2 električne energije [tCO2/m2]	Pokazatelj potrošnje primarne energije za grijanje [Wh/(m ² HDD)]	Pokazatelj potrošnje primarne energije električne energije [kWh/m ²]	Pokazatelj potrošnje energije za grijanje [Wh/(m ² SDG)]	Pokazatelj potrošnje električne energije [kWh/m²]	Pokazatelj emisije CO2 energije za grijanje [kgCO2/(m ² SDG)]	Pokazatelj emisije CO2 električne energije [tCO2/m ²]	Pokazatelj potrošnje primarne energije za grijanje [Wh/(m ² HDD)]	Pokazatelj potrošnje primarne energije električne energije [kWh/m ²]	e I
1 Bazna potrošnja Izračun		Obrazovna	43,30	12,08	0,01	0,003	47,42	19,49	45,90	12,08	0,01	0,003	50,26	19,50	
2 Bazna potrošnja Izračun		Eksportiraj												•	Γ.
3 Bazna potrošnja Izračun 4 Bazna potrošnja Izračun															
5 Bazna potrošnja Izračun		Potrošnja ⁽⁷⁾													
6 Bazna potrošnja Izračun		Godina			20	017					20	018			
7 Bazna potrošnja Izračun 7 Bazna potrošnja Izračun		Vrsta analize	Ene	rgija	Emisi	ja CO2	Primarn	a energija	Ene	rgija	Emisi	ja CO2	Primarna	a energija	
y Bazna potrošnja Izračun 8 Bazna potrošnja Izračun 9 Bazna potrošnja Izračun 0 Bazna potrošnja Izračun 1 Bazna potrošnja Izračun		Tip zgrade / Potrošnja	Potrošnja energenta za grijanje [kWh]	Potrošnja električne energije [kWh]	Emisija CO2 za grijanje [tCO2]	Emisija CO2 električne energije [tCO2]	Potrošnja primarne energije za grijanje [kWh]	Potrošnja primarne energije za električnu energiju [kWh]	Potrošnja energenta za grijanje [kWh]	Potrošnja električne energije [kWh]	Emisija CO2 za grijanje [tCO2]	Emisija CO2 električne energije [tCO2]	Potrošnja primarne energije za grijanje [kWh]	Potrošnja primarne energije za električnu energiju [kWh]	
2 Bazna potrošnja Izračun		Obrazovna	316.242	29.902	70	7	346.285	48,262	319.878	29.913	70		350.266	48.280	

https://isge.ht/core/analysis.xhtml																	
KORISNICI - 🔲 OBJEKTI - Imizvieštaji i grafovi -	→ GEDADMINISTRACUA →															0.4	VANUA HARTI
U launca *																_	
 Karta 	Eksportiraj																
ja ušteda 💿 Grafovi - Napredno		10											_		_		_
ju količinu podataka, 2 je bolji za veću količinu	Referentni (bazni pokaza	atelji) (*)															
i su identični.	Vrsta analize	Energ	gija	Emisija		Primarna e											
nta Owysii 🗖 Etiketa - Objekt Korisnik objekta risnik objekta	Tip zgrade / Rezultati	energije za grijanje	električne	grijanje	Pokazatelj emisije CO2	potrošnje primarne energije za grijanje [Wh/(m ²	Pokazatelj potrošnje primarne energije električne energije [kWh/m ²]										
IŠ Donja Dubrava (HR-40321 •	Obrazovna	46.15	11.74	0.01	0.003	50.53	18.96										
ciznije filtre objekata Očisti	Eksportiraj				-,												
nih objekata: 1																	
	Smanjenje potrošnje en	ergije u godir	ni: 2020 ^(?)														
išteda Ovoježi	Vrsta analize		Ener	rolla			Emisija	a CO2			Primar	na energija					
potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun	Tin zarade / Potzožnia	Potrošnja energenta za grijanje [kWh]	Potrošnja električne energije [kWh]	Korigirana referentna (bazna) potrošnja energenta za grijanje [kWh]		Emisija CO2 za grijanje [tCO2]	Emisija CO2 električne	Korigirana referentna (bazna) emisija CO2 za grijanje [tCO2]	Korigirana referentna (bazna) emisija CO2 električne energije [tCO2]	Potrošnja primarne energije za grijanje [kWh]	Potrošnja primarne energije z električnu energiju [kWh]	Korig refere a (baa potro prim energ	girana rentna zna) rošnja name	Korigiran referentn (bazna) potrošnja primarne energije z električni [kWh]			
	Obrazovna	272.626	16.369	317.595	29.083	60	4	70	7	298.525	26.420	347	7.766	46.939			
potrošnja Izračun	Obrazovna		16.369 otrošnje ene		29.083 57.683		4 e emisije CO2		7	298.525 Smanjenje potr				46.939 69.761			
potrošnja Izračun potrošnja Izračun	Obrazovna	Smanjenje p		rgije [kWh]:		Smanjenj		[tCO2]:			rošnje primar	me energije	[kWh]:				
potrošnja Izračun potrošnja Izračun potrošnja Izračun	Obrazovna 값 Eksportiraj	Smanjenje p	otrošnje ene	rgije [kWh]:	57.683	Smanjenj	e emisije CO2	[tCO2]:	13	Smanjenje potr	rošnje primar	me energije	[kWh]:	69.761			
potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun		Smanjenje p	otrošnje ene	rgije [kWh]:	57.683	Smanjenj	e emisije CO2	[tCO2]:	13	Smanjenje potr	rošnje primar	me energije	[kWh]:	69.761			
potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun		Smanjenje p Smanjenje	ootrošnje ene potrošnje ene	rgije [kWh]:	57.683	Smanjenj	e emisije CO2	[tCO2]:	13	Smanjenje potr	rošnje primar	me energije	[kWh]:	69.761			
potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun	🔝 Eksportiraj Smanjenje potrošnje en	Smanjenje p Smanjenje	ootrošnje ener potrošnje ene ni: 2021 ⁽⁷⁾	rgije (kWh): ergije [%]:	57.683	Smanjenj	e emisije CO2 nje emisije CO	(tCO2): 92 [%]:	13	Smanjenje potr	rošnje primar trošnje prima	me energije arne energij	: [kWh]: je [%]:	69.761]		
potročnja Izračun otročnja Izračun potročnja Izračun potročnja Izračun potročnja Izračun potročnja Izračun	试 Eksportiraj	Smanjenje p Smanjenje	ootrošnje ene potrošnje ene	rgije [kWh]: argije [%]: rgija	57.683 17 %	Smanjenj	e emisije CO2	(tCO2): 92 [%]:	13 17 %	Smanjenje potr	rošnje primar trošnje prima	me energije arne energij ma energija	e (kWh): je (%):	69.761 18 %		_	
otrobija juzačan strodnji uzačan strodnji uzačan strodnji uzačan strodnji tračun strodnji Tračun strodnji Tračun strodnji Tračun strodnji Uračan strodnji Uračan strodnji Uračan strodnji Uračan strodnji Uračan strodnji Uračan	Là Eksportinaj Smanjenje potrošnje en Vrsta analize	Smanjenje p Smanjenje	ootrošnje ener potrošnje ene ni: 2021 ⁽⁷⁾	rgije (kWh): ergije [%]:	57.683 17 % Korigirana referentna	Smanjenj Smanjer	e emisije CO2 aje emisije CO Emisija Emisija CO2 električne energije	(tCO2): 92 [%]:	13	Smanjenje potr	rošnje primar trošnje prima	me energije arme energija ma energija Korig refer a (baz potre prim energ	kWh]: je [%]: girana rentna izna) ošnja name	69.761	2	_	
mologi Izračkom mologi	Là Eksportinaj Smanjenje potrošnje en Vrsta analize	Smanjenje p Smanjenje ergije u godin Potrošnja energenta za grijanje	otrošnje ene potrošnje ene ni: 2021 ^(?) Ener Potrošnja električne energije	rgija [kWh]: ergija [%]: gija Korigirana referentna (bazna) potrošnja energenta za grijanje	57.683 17 % Korigirana referentra (bazna) potrošnja električne energije	Smanjenj Smanjer Emisija CO2 za grijanje	e emisije CO2 aje emisije CO Emisija Emisija CO2 električne energije	a CO2 Korigirana referentna (bazna) emisija CO2 za grijanje	13 17 % Korigirana referentna (bazna) emisija CO2 električne energije	Smanjenje pot Smanjenje po Potrošnja primarne energije za	ošnje primar trošnje prima Primar Potrošnja primarne energije z električnu energiju	me energije arme energija ma energija Korig refer a (baz potre prim energ	e [kWh]: je [%]: girana eentna zna) ošnja name gije za e [kWh]	69.761 18 % Korigiram referentm (bazna) potrošnja primarne energije z električne	2	-	
trologi pradom trologi pradom	2 Eksportiraj Smanjenje potročnje en Vrsta analize Tip zgrade / Potrošnja	Smanjenje p Smanjenje ergije u godin Potrošnja energenta za grijanje [kWh] 243.622	otrošnje ene potrošnje ene ii: 2021 ^(?) Ene Potrošnja električne energije [kWh]	rgija [%]: rgija Korigirana referentna (bazna) potrošnja energenta za grijanja [kWh] 344.452	57.683 17 % Korigirana referentna (bazna) potrošnja električne energije [kwh]	Smanjenj Smanjer Emisija CO2 za grijanje [tCO2] 54	je emisije CO2 nje emisije CO Emisija Emisija CO2 električne energije [tCO2]	a CO2 Korigirana referentna (bazna) emisija CO2 za grijanje [tCO3] 76	13 17 % Korigirana referentna (bazna) emisija CO2 električne energije [tCO2] 7 24	Smanjenje pot Smanjenje po Potrošnja primarne energije za grijanje [kWh]	Primar Primar Potrošnja primarne energije z električnu energiju [kWh] 31.746	me energije arme energija ma energija Korig refer (baz prim energ grijanje 377.	e [kWh]: je [%]: girana eentna zna) ošnja aame gije za e [kWh] 7.175	69.761 18 % Korigirann referentn (bazna) potrošnja primarne energije z električim [kWh]	2		
potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun potrošnja Izračun	Li) Eksportinaj Smanjenje petročnje ene Vrsta analize Tip zgrade / Potrolinja Obrazovna	Smanjenje p Smanjenje ergije u godin Potrošnja energenta za grijanje [kWh] 243.622 Smanjenje p	ootrošnje ener potrošnje ene si: 2021 ⁽⁷⁾ Ener Potrošnja električne energija [kWh] 19.669	rgija [kWh]: ergija [%]: Korigirana referentna (bazna) potrošnja energenta za grijanje [kWh] 344.452 rgija [kWh]:	57.683 17 % Korigirana referentna (bazna) potrošnja električne energije [kWh] 29.083	Smanjenj Smanjer Smanjer Emisija CO2 za grijanje [tCO2] 54 Smanjenj	je emisije CO2 nje emisije CO2 Emisija Emisija CO2 električne energije [tCO2]	(tCO ₂): b ₂ [%]: a CO ₂ Korigirana referentna (bazna) emisija CO ₂ za grijanje [tCO ₂]:	13 17 % Korigirana referentna (bazna) emisija CO2 električne energije [tCO2] 7	Smanjenje pot Smanjenje po Potrošnja primarne energije za grijanje [kWh] 266.766	Primar Primar Potrošnja primarne energije z električnu energiju [kWh] 31.746 rošnje primar	ma energija ma energija a Korig refer a potr grijanje grijanje 377. me energije	e (kWh): je [%]: girana eentna zna) ošnja name gije za e (kWh) 7.175 a (kWh):	69.761 18 % Korigiran referentn (bazna) potrošnja primarne energije z električna [kWh] 46.939	2		
potrologia Izradun potrologia Izradun protogia Izradun protogia Izradun potrologia	2 Eksportiraj Smanjenje potročnje en Vrsta analize Tip zgrade / Potrošnja	Smanjenje p Smanjenje ergije u godin Potrošnja energenta za grijanje [kWh] 243.622 Smanjenje p Smanjenje	sotrošnje ener potrošnje ener si: 2021 ⁽⁷⁾ Ener Potrošnja električna električna [kWh] 19.669 sotrošnje ener potrošnje ener	rgija [kWh]: ergija [%]: Korigirana referentna (bazna) potrošnja energenta za grijanje [kWh] 344.452 rgija [kWh]:	57.683 17 % Korigirana referentra (bazna) potrošnja električne energije [kWh] 29.083 110.243	Smanjenj Smanjer Smanjer Emisija CO2 za grijanje [tCO2] 54 Smanjenj	je emisije CO2 nje emisije CO2 Emisija CO2 električne energije [tCO2] 5 je emisije CO2	(tCO ₂): b ₂ [%]: a CO ₂ Korigirana referentna (bazna) emisija CO ₂ za grijanje [tCO ₂]:	13 17 % Korigirana referentna (bazna) emisija CO2 električne energije [tCO2] 7 24	Smanjenje pot Smanjenje po Potrošnja primarne energije za grijanje (kWh) 266.766 Smanjenje pot	Primar Primar Potrošnja primarne energije z električnu energiju [kWh] 31.746 rošnje primar	ma energija ma energija a Korig refer a potr grijanje grijanje 377. me energije	e (kWh): je [%]: girana eentna zna) ošnja name gije za e (kWh) 7.175 a (kWh):	69.761 18 % Korigiran referentn (bazna) potrošnja primarne energije z električna [kWh] 46.939 125.602	2		
potročnja Izračan st	La Eksportinaj Smanjenje potrožnje or Vrsta analize Tip zgrade / Potrošnja Obrazovna La Eksportinaj	Smanjenje p Smanjenje ergije u godin Potrošnja energenta za grijanje [kWh] 243.622 Smanjenje p Smanjenje	obrošnje ene potrošnje ene Potrošnja električne energije [kWh] 19.669 obrošnje ene potrošnje ene potrošnje energije	rgija [kWh]: ergija [%]: Korigirana referentna (bazna) potrošnja energenta za grijanje [kWh] 344.452 rgija [kWh]:	57.683 17 % Korigirana referentra (bazna) potrošnja električne energije [kWh] 29.083 110.243	Smanjenj Smanjer Smanjer Emisija CO2 za grijanje [tCO2] 54 Smanjenj	ie emisije CO2 ije emisije CO2 Emisija Emisija CO2 električne energije [tCO2] 5 ie emisije CO2 je emisije CO2	(tCO ₂): b ₂ [%]: a CO ₂ Korigirana referentna (bazna) emisija CO ₂ za grijanje [tCO ₂]:	13 17 % Korigirana referentna (bazna) emisija CO2 električne energije [tCO2] 7 24	Smanjenje pot Smanjenje po Potrošnja primarne energije za grijanje (kWh) 266.766 Smanjenje pot	Primar Primar Potrošnja primarne energijo z električnu (kWh] 31.746 rošnje primar rošnje primar	ma energija ma energija a Korig refer a potr grijanje grijanje 377. me energije	e (kWh): je [%]: girana centna zna) ošnja name gije za e (kWh) 2.175 e (kWh): je [%]:	69.761 18 % Korigiran referentn (bazna) potrošnja primarne energije z električna [kWh] 46.939 125.602	2		
potrologia Izradun potrologia Izradun potrol	Li Eksportiraj Smanjanje potrožnje en Vrsta analize Tip zgrade / Potrošnja Obrazovna Li: Eksportiraj	Smanjenje p Smanjenje ergije u godin Potrošnja energenta za grijanje [kWh] 243.622 Smanjenje p Smanjenje	obrošnje ene potrošnje ene Potrošnja električne energije [kWh] 19.669 obrošnje ene potrošnje ene potrošnje energije	ngija rgija Korigirana referentna (bazna) potrošnja energenta za grijanje (kWh) 344.452 rgije (kWh): rgije (%s): mergije (%s):	57.603 17 % Korigirana referentna (bazna) potrošnja električne energije (kWh) 29.083 110.243 30 %	Smanjenj Smanjer Emisija CO2 za grijanje [tCO2] 54 Smanjen Smanjer	ie emisije CO2 ije emisije CO2 Emisija Emisija CO2 električne energije [tCO2] 5 ie emisije CO2 je emisije CO2	t [LCO2]: 2 [%]: a CO2 Korigirana referentna (bazna) emisija CO2 za grijanje [LCO2]: b [%]: misija CO2	13 17 % Korigirana referentna (bazm) električne energije (ICO2) 7 24 30 %	Smanjenje poti Smanjenje po Potrožnja primarne energije za grijanje [kWh] 266.766 Smanjenje poti Smanjenje po	Primar Primar Primare energija električnu električnu solje primare rošnje primar	ma energija ma energija korig potru energi grijanja 377. me energija arme energija Primarna e	e (kWh): je [%]: a girana entna zna) ošnja name e (kWh) ?.175 a (kWh): je [%]: energija	69.761 18 % Korigiran referentn (bazna) potrošnji primarne energije z električim [kWh] 46.939 125.602 30 %	a		
translam	Li Eksportiraj Smanjanje potrožnje en Vrsta analize Tip zgrade / Potrošnja Obrazovna Li: Eksportiraj	Smanjenje p Smanjenje ergije u godin Potrošnja energenta za grijanje (kwh) 243.822 Smanjenje Smanjenje energije u god	obrošnje ene se 2021 ⁽²⁾ Ene Potrošnja električne energije (kvh) 19.669 sobotrošnje ene potrošnje ene sobotrošnje ene sobotr	ngija [kWh]: argija [5%]: gija Korigirana referentna (bazna) potrošnja energenta za grijanje [kWh]: 344.452 rgija [kWh]: argija [5%]: nergija Korigirana Korigirana	57.403 17 % Korigirana referentna (bazna) potrošnja električke (kWh) 29.083 110.243 30 %	Smanjenj Smanjer Emisija CO2 za grijanje [tCO2] 54 Smanjen Smanjer	e emisije CD2 Emisije CD2 Emisije CD2 električna energije [tCO2] 5 je emisije CD2 je emisije CD2 Emisije CD2 Emisije CD2	t [LO22]: a CO2 Korigirana referentna (bazna) emisija CO2 Korigirana t(CO2) t(CO2): b [%]: misija CO2 Korigia	13 17 % Korigirana referentna (bazna) emisija C02 edektrične (teo2) 7 24 30 % Korigi	Smanjenje pot Smanjenje po Potrošnja primarne grijanje (kWh) 266.766 Smanjenje pot Smanjenje pot	Priman Priman Potrošnje prima Potrošnje primarne energije (kWh) 31.746 ošinje primar trošnje primar	ma energije ma energija na energija na energija refer a potr grijanja grijanja a 377. me energija prime energija	e (kwh): je [%]: girana entna zna) ošnja name gije za e (kwh) 7.175 2 (kwh): je [%]: energija Korigi refere	69.761 18 % Korigiram referentn (bazna) potrošnja primarne energije z električne [kwh] 46.939 125.602 30 %	origirana		
potrologia Izradun potrologia Izradun potrol	Là Eksportiraj Smanjenje potrožnje en Vrsta analize Tip zgrade / Potrošnja Obrazovna Là Eksportiraj Smanjenje potrožnje e Vrsta analize	Smanjenje p Smanjenje Potrošnja energenta za grijanje p Z43.622 Smanjenje p Smanjenje nergijo u goo	sotrošnje ene si: 2021 ⁽²⁾ Ener Potrošnja električne energije (kvh) 19.569 stat: 2022 ⁽²⁾ E potrošnje ener stat: 2022 ⁽²⁾ E	ngije [kWh]: rgija Korigenta (barna) potrošnja energenta za grijanje [kWh] 344.452 rgije [kWh]: rgije [%]: mergija Korigiran energija	57.603 17 % Korigirana referentna (bazna) električne energije [kWh] 29.603 110.243 20 %	Smanjenj Smanjer Emisija CO2 za grijanje [ECO3] 54 Smanjen Smanjen Smanjen Da a a) b. Emisija C	e emisije CO je emisije CO Emisija CO električne energije [ECO2] 5 je emisije CO 5 je emisije CO 5 je emisije CO 5 je emisije CO	r [LCO2]: a CO2 Korigirana referentna (bazna) emisija CO2 [CO2]: b [%]: misija CO2 Korigirana referentna (bazna) misija CO2 Korigirana	13 17 % Korigirana referentna (bazna) emisija CO2 edektrične energije (tCO2) 7 24 30 %	Smanjenje pot Smanjenje po Potrožnja primarne energije za grijanje [kWh] 266.766 Smanjenje pot Smanjenje pot smanjenje pot potrožna potroženje pot smanjenje potroženje pot smanjenje potroženje potro	Priman Priman Potrošnje prima Potrošnje primarne energije (kWh) 31.746 ošinje primar trošnje prima sinja primar	ma energije ma energij a Korja refer (baa potra grijanje 377. me energije 377. me energije 377.	e (kwh): je [%]: girana entna zza) ošnja name gije za e (kwh) 2.175 a (kwh): je [%]: energija Korigi refere (bazz	69.761 18 % Korigiran referentn (bazna) potrošnja primarne energije z električne [kWh] 45.939 125.602 30 %	a a forigirana eferentna (bazna)		
petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Jezebu petrologi, Jezebu petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun televingi, Izradun petrologi, Izradun televingi, Izradun tetrologi, Izradun tetrologi, Izradun tetrologi, Izradun tetrologi, Izradun tetrologi, Izradun tetrologi, Izradun	Li Eksportiraj Smanjanje potrožnje en Vrsta analize Tip zgrade / Potrošnja Obrazovna Li: Eksportiraj	Smanjenje p Smanjenje regije u godin Potrošnja za grijanje [kWh] 243.622 Smanjenje Smanjenje smanjenje Potrošnja energenta za grijanje	sotrošnje ene potrošnje ene Ener Potrošnja električne potrošnja električne potrošnje ener potrošnje ener potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje p	ngije [kWh]: rgija Korigenta (barna) potrošnja energenta za grijanje [kWh] 344.452 rgije [kWh]: rgije [%]: mergija Korigiran energija	57.603 17 % Kovigirana referentia (bazma) potrošija 29.083 110.243 30 %	Smanjen Smanjer Emisija CO ₂ za grijanje [ICO ₂] 54 Smanjer Smanjer a a a a a z grijanja a z z grijanja	e emisije CD2 Emisije CD2 Emisije CD2 Emisije CD2 električne energije [ECO2] 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(LCO2): a CO2 Korigirana referentna (bazna) refactorita (bazna) 76 (LCO2): 76 (LCO2): 76 (LCO2): 76 (LCO2): 76 (LCO2): 76 (CD2): 76 (CD2): 76	13 17 % Korigirana referentna (bazna) emisija C02 električne (tco2) 7 7 24 30 % Korigi rana referentna (bazna) 7 24 20 %	Smanjenje pot Smanjenje po Potrožnja priraza grijanje [kWh] 266.766 Smanjenje pot Smanjenje pot Smanjenje pot priraza priraza priraza Smanjenje pot Smanjenje pot Smanje pot Smanje pot Smanje pot Smanje pot Smanje pot Smanje po	Priman Priman Potrošnja prima Potrošnja primarne električnu energija z (kWh] 31.746 očnje primar trošnje prima	me energije ma energije a Kori refer potra grijanje 377. me energije 377. me energije 377. me energije 377.	e (kwh): je [%]: girana entna zna) ošnja name gije za e (kwh) 7.175 2 (kwh): je [%]: energija Korigi refere	69.761 18 % Korigiram referentn (bazna) potrošnja primarne energije z električni [kwh] 46.939 125.602 30 %	origirana eferentna (bazna) notrošnja		
potrologia Izradun potrologia Izradun protologia Izradun protologia Izradun potrologia Izradun potrol	Là Eksportiraj Smanjenje potrožnje en Vrsta analize Tip zgrade / Potrošnja Obrazovna Là Eksportiraj Smanjenje potrožnje e Vrsta analize	Smanjenje p Smanjenje Potrošnja energenta za grijanje p Z43.622 Smanjenje p Smanjenje nergijo u goo	sotrošnje ene si: 2021 ⁽²⁾ Ener Potrošnja električne energije (kvh) 19.569 stat: 2022 ⁽²⁾ E potrošnje ener stat: 2022 ⁽²⁾ E	ngije (kwh): argije (%): korigijana roferentna (bazma) potrošnja za grijanje (kwh) 344.452 ngije (kwh): argije (kwh): argije (%): nergija korigijan nergija	57.403 17 % Kovigirana referentna (bazma) potrošnja električne energije (kWh) 29.083 10.243 30 %	Smanjenj Smanjer Emisija CO2 [ECO2] 54 Smanjen Smanjer 3 3 a Emisija C 54 Smanjer 3 4 3 3 a za grijanja Smanjer	e emisije CD2 Emisije CD2 Emisije CD2 električic [ECO2] 5 je emisije CO2 je emisije CO2 je emisije CO2 je emisije CO2 je emisije CO2 je emisije CO2 je emisije CO2	(ICO2): (ICO2): a CO2 Korigirana referentna (bazna) (ICO2): a CO2 (bazna) (ICO2): a CO3 (ICO2): b [%]: b [%]: b [%]: constant cons	13 17 % Korigirana (bazma) ensigia CO2 električne energije (tCO2) 7 7 24 30 % Korigirana energije (bazma) energije (bazma) električne	Smanjenje pot Smanjenje pot Potrošnja primarne energije za grijanje [kWh] 266-766 Smanjenje pot Smanjenje pot Smanjenje pot smanjenje pot potroš Smanjenje pot potroš Smanjenje pot smanjenje pot potroš Smanjenje pot smanjenje [kWh]	Priman Priman Potrošnja prima Potrošnja primarne energija z električnu energija z slevitni (kWh) 31.746 ošnje prima sinja prima	me energija ma energija (ba Korig refer energija grijanja grijanja me energija 377 me energija 377 me energija 377 me energija 377 me energija 377 me energija 377 me energija	e [kWh]: jirana entra zraa) jira entra zraa) jije za e [kWh]: e [kWh]: e [kWh]: e [kWh]: e [kWh]: e [kWh]: e [voi:	69.761 18 % Korigiran referentn (bazna) potrošnji primarne energije z električim 125.602 30 %	origirana eferentna jotrošnja primame nergije za		
terologia Izračun servicija Izračun servicaja Izračun	Là Eksportiraj Smanjenje potrožnje en Vrsta analize Tip zgrade / Potrošnja Obrazovna Là Eksportiraj Smanjenje potrožnje e Vrsta analize	Smanjenje p Smanjenje regije u godin Potrošnja za grijanje [kWh] 243.622 Smanjenje Smanjenje smanjenje Potrošnja energenta za grijanje	sotrošnje ene potrošnje ene Ener Potrošnja električne potrošnja električne potrošnje ener potrošnje ener potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potroš	rgija [kWh]: rgija Korigirana referentna (barna) za grijanja za grijanja rgije [kWh] 34432 rgije [%h]: rrgije [%h]: korigiran referentna (barna)	57.403 17 % Kovigirana referentna (bazma) potrošnja električne energije (kWh) 29.083 10.243 30 %	Smanjenj Smanjer Emisija CO2 [ECO2] 54 Smanjen Smanjer 3 3 a Emisija C 54 Smanjer 3 4 3 3 a za grijanja Smanjer	e emisije CD2 Emisije CD2 Emisije CD2 Emisije CD2 električne energije [ECO2] 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(LCO2): a CO2 Korigirana referentna (bazna) refactorita (bazna) 76 (LCO2): 76 (LCO2): 76 (LCO2): 76 (LCO2): 76 (LCO2): 76 (CD2): 76 (CD2): 76	13 17 % Korigirana referentna ensigia CO2 električne energije [tCO2] 7 24 30 % Korigi električne energije (tCO2] 7 24 30 %	Smanjenje pot Smanjenje pot Potrošnja primarne energije za grijanje [kWh] 266-766 Smanjenje pot Smanjenje pot Smanjenje pot smanjenje pot potroš Smanjenje pot potroš Smanjenje pot smanjenje pot potroš Smanjenje pot smanjenje [kWh]	Priman Priman Potrošnja prima Potrošnja primarne energija z električnu energija z slevitni (kWh) 31.746 ošnje prima sinja prima	me energija ma energija (ba Korig refer energija grijanja grijanja me energija 377 me energija 377 me energija 377 me energija 377 me energija 377 me energija 377 me energija	e (kwh): je [%]: girana eventna zna) ošnja narne e [kwh]: z.175 je [%]: energija Korigi refere (baz; potroj prima	69.761 18 % Korigiran referentn (bazna) potrošnji primarne energije z električim 125.602 30 %	origirana eferentna (bazna) notrošnja		
pototoja, Izračun pototoja, Izračun provoja Izračun provoja Izračun provoja Izračun pototoja, Izračun provoja, Izračun pro	Là Eksportiraj Smanjenje potrožnje en Vrsta analize Tip zgrade / Potrošnja Obrazovna Là Eksportiraj Smanjenje potrožnje e Vrsta analize	Smanjenje p Smanjenje regije u godin Potrošnja za grijanje [kWh] 243.622 Smanjenje Smanjenje smanjenje Potrošnja energenta za grijanje	sotrošnje ene potrošnje ene Ener Potrošnja električne potrošnja električne potrošnje ener potrošnje ener potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potrošnje potroš	ngije (kwh): argije (%): korigijana roferentna (bazma) potrošnja za grijanje (kwh) 344.452 ngije (kwh): argije (kwh): argije (%): nergija korigijan nergija	57.403 17 % Korigirana referentna (bazna) potrošnja (kwh) 29.083 110.243 30 %	Smanjenj Smanjer Emisija CO2 [ECO2] 54 Smanjen Smanjer 3 3 a Emisija C 54 Smanjer 3 4 3 3 a za grijanja Smanjer	e emisije CD2 Emisije CD2 Emisije CD2 Emisije CD2 električne energije [ECO2] 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(ICO2): (ICO2): a CO2 Korigirana referentna (bazna) (ICO2): a CO2 (bazna) (ICO2): a CO3 (ICO2): b [%]: b [%]: b [%]: constant cons	13 17 % Korigirana (bazma) ensigia CO2 električne energije (tCO2) 7 7 24 30 % Korigirana energije (bazma) energije (bazma) električne	Smanjenje pot Smanjenje po Potrožnja prinasme emorgije za grijanje (kWh) Smanjenje po Smanjenje po Smanjenje po Smanjenje po potrožaja Smanjenje po Potrožaja prinasme grijanje	Primar Potrošnje prima Potrošnja primarne energija z električnu energiju (kWh) 31.746 rošnje prima sonje prima sonje prima sonje prima	me energija ma energija (ba Korig refer energija grijanja grijanja me energija 377 me energija 377 me energija 377 me energija 377 me energija 377 me energija 377 me energija	e [kWh]: jirana entra zraa) jira entra zraa) jije za e [kWh]: e [kWh]: e [kWh]: e [kWh]: e [kWh]: e [kWh]: e [voi:	66.761 18 % Korigiran referentn (bazna) potrošinja potrošinja potrošinja (kwh) 125.602 30 %	origirana eferentna (bazna) ortrošnja rimarné nergije za		
petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Jezebu petrologi, Jezebu petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun petrologi, Izradun televingi, Izradun petrologi, Izradun televingi, Izradun tetrologi, Izradun tetrologi, Izradun tetrologi, Izradun tetrologi, Izradun tetrologi, Izradun tetrologi, Izradun	Là Eksportiraj Smanjenje potročnje ene Vrsta analize Tip zgrade / Potrošnja Obrazovna Là Eksportiraj Smanjenje potročnje e Vrsta analize Tip zgrade / Potrošnja	Smanjenje p Smanjenje erpije u godin Potrošnja norganja za prijanje Smanjenje p Smanjenje Smanjenje Potrošnja energenta za grijanje (kwh)	20170šnje ene potrošnje en ekz 2021 (?) Ener Potrošnja ekkritrine energije (kwh) 19.669 timi: 2022 (?) E Potrošnje ene potrošnje ener potrošnje potrošnje ener potrošnje ener potroš	ngije (kWh): mrgije (%6): Korigirana referentna (bazma) potrošnja za grijanje (kWh): 344.452 gije (kWh): mrgije (%): Korigiran (bazma) korigiran (bazma)	57.483 17.76 Korigirana recentaria potrošnja električne (kovh) 110.243 20.95 110.243 20.95	Emisija CO2 za grijanje [ECO2] 54 Smanjer Smanjer Emisija CO2 za grijanje [ECO2] a a a a a a a a a a a a a a a a a a a	e emisije CD2 Emisije CD2 Emisije CD2 Emisije CD2 električne energije [ECO2] 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(ICO2): (ICO2): a CO2 Korigirana referentna (ICO2): a grijanje (ICO2): b (%): (ICO2): b (%): (ICO2): b (%): (ICO2): b (%): (ICO2): b (%): (ICO2): a grijanje (ICO2): a grijanje (ICO2): b (%): (ICO2): b (%): (ICO2):	13 17 % Korigirana referentna (bazna) emsigia Coz električne energije (ICOz)] 7 24 30 % Korigi referenta (bazna) (Potrošnja pritovanja privna na privn	Primar Potrošnje prima Potrošnja primarne energija z električnu energiju (kWh) 31.746 rošnje prima sonje prima sonje prima sonje prima	na energija ma energija ka Korig refer otrošnja grijanje 377. me energija prime energija primarne energija strošnja rimarne ergija za ektričnu nergiju ktričku	e [kWh]: girana energija energija (KWh]: (KWh]: e [%]: e [%]:	66.761 18 % Korigiran. referenti. (bazna) potrosinj. (bazna) potrosinj. (bazna) potrosinj. (bazna) 125.602 30 %	a a eferentnä (bazna) iotrošnja primame nergije za lektričnu [kWh]		
tertering i Izračun sertering Izračun sertering Izračun sertering Izračun tertering Izračun	Là Eksportiraj Smanjenje potročnje ene Vrsta analize Tip zgrade / Potrošnja Obrazovna Là Eksportiraj Smanjenje potročnje e Vrsta analize Tip zgrade / Potrošnja	Smanjenje p Smanjenje epije u godit Potrošnja energenta za grijanje [kwh] 243.422 Smanjenje p Smanjenje (kwh] 243.422 Smanjenje za grijanje (kwh) 210.440 Smanjenje Smanjenje statu 210.440	storošnje ene potrošnje en Potrošnja električne energije (kvh) 19.569 storošnja električne energije (kvh) E Potrošnja ene potrošnje energije (kvh) 20.722 potrošnja potrošnje energije (kvh)	ngije (kWh): mrgije (%6): Korigirana referentna (bazna) potrošnja za grijan 344.452 ngije (kWh) 344.52 ngije (kWh): nergija Korigiran referentna (bazna) potrošnja za grijan 2.2.680	57.403 17 % Korigirana referentra (barna) potrošinja (kwh) 29.083 110.243 30 % Korigirana a potrošinja 110.243 30 %	Smanjen Smanjer Za grijanje (ICO2) 54 Smanjer Smanjer a a a a a a a s a s a s a s a s a s a	e emisije CD tje emisije CD Emisije Emisije CD električne energije [ECO2] 5 je emisije CD tje em	(ICO2): (ICO2): a CO2 Korigirana (Parana) emisija CO2 (ICO2): a CO2 a CO2 Korigianje (ICO2): b (%3): CO3 Korigianje (Da2): b (%3): CO3 Korigianje (Da2):	13 17 % Korigirana referentna (bazna) emsigia Coz električne energije (ICOz)] 7 24 30 % Korigi referenta (bazna) (bazna) električne (bazna) referenta (bazna) električne (bazna) električne (bazna) električne (bazna) (bazna) električne (bazna) električne referenta električne referenta električne referenta električne referenta električne referenta električne referenta električne referenta električne referenta električne referenta električne referenta električne elekt	Smanjenje pot Smanjenje po Potrožnja prinasme emorgije za grdjanje (kWh) Smanjenje po Smanjenje po Potrožnja Smanjenje po Potrož grdjanje jja 240.5 Smanjenje po Potrožej sa grdjanje po Potrožej sa grdjanje po 240.5 Smanjenje po Smanjenje po Smanje po Smanje po Smanje po Smanje po Smanje po Smanje po Smanje po Smanje	Priman Potrošnje prima Potrošnja primarne odektrično el	na energija ma energija primenov primen	e (kwh): pirana erit	68.761 18.% Korigiran reformation primaring primar	a a deferentnä obrošoja perimarne nergije za lektričnu [kWh] 46.939		
potrologi, Izračun potrologi, Izračun prozoji Izračun prozoji Izračun potrologi, I	Là Eksportiraj Smanjenje potročnje ene Vrsta analize Tip zgrade / Potrošnja Obrazovna Là Eksportiraj Smanjenje potročnje e Vrsta analize Tip zgrade / Potrošnja	Smanjenje p Smanjenje epije u godit Potrošnja energenta za grijanje [kwh] 243.422 Smanjenje p Smanjenje (kwh] 243.422 Smanjenje za grijanje (kwh) 210.440 Smanjenje Smanjenje statu 210.440	storošnje ene potrošnje en Potrošnja električne energije (kvh) 19.569 storošnja električne energije (kvh) E Potrošnja ene potrošnje energije (kvh) 20.722 potrošnja potrošnje energije (kvh)	ngije [kWh]: mgije [%6]: Korigirana referentna (bazma) potrošnja za grijanje [kWh] 344.452 ngije [kWh]: mgije [%9]: Korigiran (bazma) (bazma) (bzwh) 322.680 mergije [KWh]	57.403 17 % Korigirana referentra (barna) potrošinja (kwh) 29.083 110.243 30 % Korigirana a potrošinja 110.243 30 %	Smanjen Smanjer Za grijanje (ICO2) 54 Smanjer Smanjer a a a a a a a s a s a s a s a s a s a	ie emisije CO sje emisije CO Emisija Emisija CO električne energije [ECO2] je emisije CO je emisije CO je emisije CO je emisije CO je emisije CO je emisije CO	(ICO2): (ICO2): a CO2 Korigirana (Parana) emisija CO2 76 (ICO2): p (%3): p (%3): (ICO2): p (%3): (ICO2): p (%3): (ICO2): p (%3): (ICO2): p (%3): (ICO2): (ICO2): p (%3): (ICO2): (I	13 17 % Korigirana referentna (bazna) emisija CO emisija CO (tCO2) 7 24 30 % 30 %	Smanjenje pot Smanjenje po Potrožnja prinasme emorgije za grdjanje (kWh) Smanjenje po Smanjenje po Potrožnja Smanjenje po Potrož grdjanje jja 240.5 Smanjenje po Potrožej sa grdjanje po Potrožej sa grdjanje po 240.5 Smanjenje po Smanjenje po Smanjenje po Smanjenje po Potrožej sa grdjanje po Potrožej sa grdja po Potrožej sa sa sa sa sa sa sa sa sa sa sa sa sa s	Priman Priman Potrošnja prima Potrošnja primarne energiju (kwh) 31.746 ozšnje primar rrošnje primar rrošnje primar (kwh) 1 22.5 22.5	na energija ma energija primenov primen	e (kwh): pirana erit	68.761 18.% Korigiran reformation primaring primar	a a eferentna (bazna) otrošnja rimarne nergije za lektričnu [kWh] 46.939 132.674		

	ENERGY SAVIN	IGS		
2020	57.683,00	kWh	17,00	%
2021	110.243,00	kWh	30,00	%
2022	117.201,00	kWh	33,00	%
2023	10.452,00	kWh	4,00	%

Barna potrologi Jaradani Barna potrologi Jaradani Bar		vrsta analize		Energ							
Barane potrologia Diraciano 272.623 61.599 272.623 Samalpedie potrologia energije (%); 27.623 Samalpedie potrologie energije (%); 27.623 76.67 76.67	009 Bazna potrošnja Izračun 010 Bazna potrošnja Izračun 011 Bazna potrošnja Izračun 012 Bazna potrošnja Izračun 013 Bazna potrošnja Izračun	Tip zgrade / Potrošnja	energenta za grijanje	električne energije	referentna (bazna) potrošnja energenta za grijanje	referentna (bazna) potrošnja električne energije	za grijanje	električne energije	referentna (bazna) emisija CO ₂ za grijanje	referentna (bazna) emisija CO2 električne energije	Potroši primar energiji grijanje [
Bitman potrologia Diracian Simanajonija Diracian Simanajonija Diracian Simanajonija Diracian Simanajonija Diracian Diracian Diracian Simanajonija Diracian Simanjonija Diracian Diracian<		Obrazovna	272.626	16.369	317.595	29.083	60	4	70	7	298.52
Strang protection Translam Smallpelle potnologie emergije (%): 17% Smallpelle emergije (%): 17% Smalle emergije (%): 17% T				strošnje ener			Smanjer	je emisije CO	2 [tCO2]:		Smanjenj
Bit Responsibility Excelutional			Smanjenje p	otrošnje ene	rgije [%]:	17 %	Smanje	nje emisije Cl	02 [%]:	17 %	Smanjer
Carding (Color) Constrainty Constrainty<	lazna potrošnja Izračun lazna potrošnja Izračun		unito u aodioi	- 2021 (?)							
Binara portosiaja Erandini Koriginara Korigin			agije u godini.								_
aran petrologi. Laradan aran petrologi. Laradan mara petrologi. Lara		Vrsta analize		Ener	gija			Emisij	a CO2		
Construction Simulation of the second processing in (SVR) 112-20 12-20 Simulation of the second processing in (SVR) 112-20 2-20 Simulation of the second processing in (SVR) 112-20 2-20 Simulation of the second processing in (SVR) 112-20 Simulation of the second processing in (SVR) 2-2-2 Simulation of the	potrošnja <mark>Izračun</mark> potrošnja Izračun zaključane	Tip zgrade / Potrošnja	energenta za grijanje	električne energije	referentna (bazna) potrošnja energenta za grijanje	referentna (bazna) potrošnja električne energije	za grijanje	električne energije	referentna (bazna) emisija CO ₂ za grijanje	referentna (bazna) emisija CO2 električne energije	Potroši primar energiji grijanje [
Smallpeige potnologie merrojie (%): 30 % Smallpeige metrojie (%): Smallpeige metrojie (%): Smallpeige metrojie (%): 30 % Smallpeige metrojie (%): Smallpeige met	esport sirovih podataka za izračun	Obrazovna	243.622	19.669	344.452	29.083	54	5	76	7	266.78
terene realizanti teiler ei fostene halterene solgia. Lizačan robija.			Smanjenje po	strošnje ener	gije [kWh]:	110.243	Smanjer	je emisije CO	2 [tCO2]:	24	Smanjenj
tronolga Lirzadan tronolga Lir			nergije u godi								
 Andraha Lanzami and Lanzami	strošnja Izračun	Vrsta analize		Er	vergija			1	misija CO2		
2015 Izračkim 2015/00 2012/2 22.0000 V/00. 40 5 2012/2 22.000 2010 V/00. 40 5 2012/2 20.000 2010 V/00. 40 5 2010 V/00. 40 5 2012/2 20.000 2010/2 20.000 2010 V/00. 40 5 2012/2 20.000	ošnja Izračun ošnja Izračun ošnja Izračun	Tin surada (Beterlada	anonanta		referente						
Di potrožnja Izračan na potročnja Izračan na potročnja Izračan na potročnja Izračan No zaključed. No zaključed. N	na potrošnja Izračun	rip zyrade / Potrosaja	za grijanje	energije	(bazna) potrošnja energent za grijanj	a potrošn a električi e energij) Emisija ja zagrija se [tCOa e	nje elektri	CO2 refere čne (bazz ije emisija 2] za grij	ntna refere ntna (baz na) emisij a CO2 elekti anje ener	entna zna) ja CO2 rične gri rgije gri
ligi Izračum ligi Izračum	šnja Izračun šnja Izračun		za grijanje [kWh]	energije [kWh]	(bazna) potrošnja energent za grijanj [kWh]	a potrošn a električ e energij [kWh]) Emisija ja zagrija se [tCO ₂ e	nje elektri] [tCO:	CO2 refere čne (bazz z] za grij [tCO	rafia ntna refere na) (baz emisij cO2 elekti anje ener b2] [tO	entna zna) la CO2 e rične gri gije gri O2]
Tarachan Tarachan Security Emissipa CO: Tarachan Vrsta analize Energija Energija Tarachan Vrsta analize Energija Korlgirana (Marzin)	Izračun Izračun Izračun		za grijanje [kWh] 219.840	energije [kWh] 20.722	(bazna) potrošnja energent za grijanj [kWh] 328.680	a potrošn a električi e energij [kWh] 29.083) Emisija ja za grija e [tCOa e 48	je elektri energ [tCO:	CO2 refere čne (bazz ije emisija z] za grij [tCO	rana refere ntna (baz na) emisij anje ba] [tot t	entna zna) la CO2 rične grije O2] 7 6 Sm
Instrum Vinita analize Energija Energija Energija Energija Energija Energija Energija Energija Kortgirana referentras Fordigirana referentras Kortgirana referentras Kortgirana Kortgirana <td>a Izračun a Izračun Izračun</td> <td></td> <td>za grijanje [kWh] 219.840 Smanjenje</td> <td>energije [kWh] 20.722 potrošnje er</td> <td>(bazna) potrošnja energent za grijanj [kWh] 328.680 nergije [kWh]</td> <td>a potrošn a električ e energij [kWh] 29.083 117.20</td> <td>) Emisija ja za grija e [tCO2 e 48 Sma</td> <td>aje j l tCO: s njenje emisij</td> <td>CO2 refere čne (bazz ije emisija z] za grij [tCO 72 je CO2 [tCO2]</td> <td>rama ntna na) a CO2 emisij elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti elekt</td> <td>entna zna) la CO2 rične grije O2] 7 6 Sm</td>	a Izračun a Izračun Izračun		za grijanje [kWh] 219.840 Smanjenje	energije [kWh] 20.722 potrošnje er	(bazna) potrošnja energent za grijanj [kWh] 328.680 nergije [kWh]	a potrošn a električ e energij [kWh] 29.083 117.20) Emisija ja za grija e [tCO2 e 48 Sma	aje j l tCO: s njenje emisij	CO2 refere čne (bazz ije emisija z] za grij [tCO 72 je CO2 [tCO2]	rama ntna na) a CO2 emisij elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti elekt	entna zna) la CO2 rične grije O2] 7 6 Sm
zma potrošnja Iznačam Korigirana Korigirana (Korigirana Korigirana) korigirana (Korigirana Korigirana) korigirana (Korigirana Korigirana) naro zaključane (Korava) (K	zna potrošnja Izračun zna potrošnja Izračun zna potrošnja Izračun zna potrošnja Izračun zna potrošnja Izračun zna potrošnja Izračun zna potrošnja Izračun	Obrazovna	za grijanje [kWh] 219.840 Smanjenje Smanjenje	energije [kwh] 20.722 potrošnje er e potrošnje e	(bazna) potrošnja energent za grijanj [kWh] 328.680 nergije [kWh]	a potrošn a električ e energij [kWh] 29.083 117.20) Emisija ja za grija e [tCO2 e 48 Sma	aje j l tCO: s njenje emisij	CO2 refere čne (bazz ije emisija z] za grij [tCO 72 je CO2 [tCO2]	rama ntna na) a CO2 emisij elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti elekt	entna zna) la CO2 rične grije O2] 7 6 Sm
	i Izračun Izračun Izračun Izračun Izračun Izračun Izračun Izračun	Obrazovna Lå Eksportiraj Smanjenje potrožnje e	za grijanje [kWh] 219.840 Smanjenje Smanjenje	energije [kwh] 20.722 potrošnje e e potrošnje e ini: 2023 ⁽²⁾	(bazna) potrošnji energent za grijanj [kWh] 328.680 nergije [kWh] snergije [%]:	a potrošn a električ e energij [kWh] 29.083 117.20) Emisija ja za grija e [tCO2 e 48 Sma	nje elektri nje energ [tCO: 5 njenje emisij anjenje emisi	CO2 refere čne (bazz ije emisija z za grij [tCO 72 je CO2 [tCO2] ije CO2 [%]:	rama ntna na) a CO2 emisij elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti ener [tCO elekti elekt	entna zna) la CO2 rične grije O2] 7 6 Sm

iraj broj decimala 📓 na

stream

Data in SMIV information system



Calculation of

energy savings

according to the

methodology for

verification of

savings

page 27

MIVID 19766 aslov mjere Osnovna škola Donja Dubrava pis mjere 018-10/18-02/36 rsta mjere Integralna obnova postojećih zgrada (M1) okacija Međimurska ektor ZGRADARSTVO rupa USLUŽNI JAVNI rsta goriva (stari) Prirodni plin rsta goriva (stari) Prirodni plin rsta goriva (novi) 18.9.2020 atum provedbe 18.9.2020 rijedi do 18.9.2040 IS kod KK.04.2.1.04.0053 oskacija mjere Donja Dubrava lica i broj Krbulja 21 ositelj uštede Fond za zaštitu okoliša i energetsku učinkovitost ** v dgovorna osoba (ime) Opć kontakt Fonda * oguvorna osoba (ime) Si391800 * omentar \$\$391800 * Sufianciranje Si391800 \$\$ Dokumenti \$\$ \$\$ Side e primarne energije [kWh/god] 394.077,70 \$\$ šide a energije [kWh/god] 394.077,70 \$\$ side e primarne energije [kWh/god] \$\$ <th>Mjera - Integralna obnova postojećih z</th> <th>grada (M1)</th> <th></th> <th></th>	Mjera - Integralna obnova postojećih z	grada (M1)		
aslov mjere Osnovna škola Donja Dubrava Osnovna škola Donja Dubrava Osnovna škola Donja Dubrava Osla -10/18-02/36 sta mjere Integralna obnova postojećih zgrada (M1) kata pre Međimurska ktor ZGRADARSTVO sta goriva (stari) Prirodni plin sta goriva (novi) Prirodni plin sta goriva (stari) Prirodni plin sta)pći podaci			
pis mjere pirodni plin pin pirodni plin pin pirodni plin pin pis mjere pis m	MIVID	19766]
pis mjere Integralna obnova postojećih zgrađa (M1) v okacija Integralna obnova postojećih zgrađa (M1) v okacija Međimurska v skator rupa ZGRADARSTVO v rupa USLUŽNI JAVNI v rsta goriva (stari) Prirodni plin v atum provedbe 18.9.2020 v atum provedbe 18.9.2020 v IS kod 05.2020 v	laslov mjere	Osnovna škola Donja Dubrava]
Akačija Međimurska ektor ZGRADARSTVO rupa USLUŽNI JAVNI sta goriva (stari) Prirodni plin rsta goriva (novi) Prirodni plin atum provedbe 18.9.2020 rijedi do 18.9.2040 IS kod KK.04.2.1.04.0053 oskačija mjere Donja Dubrava lica i broj Krbulja 21 ositelj uštede Fond za zaštitu okoliša i energetsku učinkovitost •• • dgovorna osoba (ime) Opći kontakt Fonda • dgovorna osoba (tel) 5391800 • omentar)pis mjere	018-10/18-02/36	*	
ktor ZGRADARSTVO v rupa USLUŽNI JAVNI v rsta goriva (stari) Prirodni plin v rsta goriva (novi) Prirodni plin v atum provedbe 18.9.2020 v rijedi do 18.9.2040 v IS kod KK.04.2.1.04.0053 v okacija mjere Donja Dubrava v lica i broj Krbulja 21 ositelj uštede Fond za zaštitu okoliša i energetsku učinkovitost v dgovorna osoba (ime) Opći kontakt Fonda v dgovorna osoba (tel) 5391800 v v omentar v v v v Dokumenti Stede i troškovi v v v Stede i troškovi 394.077,70 v v v O2 ušteda [t] 79,63 394.077,70 v v unulativne uštede energije [kNN 30/2022) 5.259.579,04 v v	/rsta mjere	Integralna obnova postojećih zgrada (M1)	\sim]
rupa USLUŽNI JAVNI	okacija	Međimurska	\mathbf{P}	
sta goriva (stari) Prirodni plin rsta goriva (novi) Prirodni plin atum provedbe 18.9.2020 rijedi do 18.9.2040 IS kod KK.04.2.1.04.0053 okacija mjere Donja Dubrava <td< td=""><td>ektor</td><td>ZGRADARSTVO</td><td>\sim</td><td>]</td></td<>	ektor	ZGRADARSTVO	\sim]
rsta goriva (novi) atum provedbe rijedi do IS.9.2020 IS.8od KK.04.2.1.04.0053 Dolja Dubrava Is.9.2040 IS.8od KK.04.2.1.04.0053 Dolja Dubrava Is.9.2040 KK.04.2.1.04.0053 Dolja Dubrava Is.9.2040 Krbulja 21 Sodieji uštede Fond za zaštitu okoliša i energetsku učinkovitost Mordakt Fonda Opći kontakt Fonda Opći kontakt Fonda dgovorna osoba (tel) Opći kontakt @fzoeu.hr dgovorna osoba (tel) Sig1800 omentar Sufinanciranje Dokumenti Štede primarne energije [kWh/god] Steda energije [kWh/god] Steda energije [kWh/god] Stela energije [kWh/g	Grupa	USLUŽNI JAVNI	\sim]
atum provedbe rijedi do 18.9.2020 ✓ 15. kod 18.9.2040 ✓ 15. kod KK.04.2.1.04.0053 Dolnja Dubrava Dolnja Dubrava Ica i broj Stede a fond za zaštitu okoliša i energetsku učinkovitost ✓ dgovorna osoba (ime) Opći kontakt Fonda dgovorna osoba (tel) Signianciranje Dokumenti Stede primarne energije [kWh/god] Steda energije [kWh/god]	′rsta goriva (stari)	Prirodni plin	🗸]
rijedi do 18.9.2040 IS kod KK.04.2.1.04.0053 IS kod KK.04.2.1.04.0053 Donja Dubrava Iica i broj Krbulja 21 ositelj uštede Fond za zaštitu okoliša i energetsku učinkovitost dgovorna osoba (ime) Opći kontakt Fonda dgovorna osoba (email) kontakt@fzoeu.hr dgovorna osoba (tel) 5391800 omentar Sufinanciranje Dokumenti štede primarne energije [kWh/god] 394.077,70 šteda energije [kWh/god] 394.077,70 šteda energije [kWh/god] 394.077,70 j Sufinanci anje Dokumenti štede primarne energije [kWh/god] 394.077,70 steda energije [kWh/go	′rsta goriva (novi)	Prirodni plin	~]
IS kod KK.04.2.1.04.0053 okacija mjere Donja Dubrava lica i broj Krbulja 21 ositelj uštede Fond za zaštitu okoliša i energetsku učinkovitost voj voj kontakt Fonda voj voj kontakt Fonda dgovorna osoba (ime) Opći kontakt Fonda voj voj kontakt Fonda dgovorna osoba (email) kontakt@fzoeu.hr voj voj kontakt ©fzoeu.hr dgovorna osoba (tel) 5391800 voj kontakt ©fzoeu.hr omentar voj kontakt ©fzoeu.hr voj kontakt ©fzoeu.hr Sufinanciranje voj kontakt voj kontakt Dokumenti stede primarne energije [kWh/god] 394.077,70 šteda energije [kWh/god] 394.077,70 steda energije [kWh/god] oz ušteda [t] 79,63 voj kontakt umulativne uštede energije (NN 30/2022) 5.259.579,04 voj kontakt	atum provedbe	18.9.2020 🗸		
Donja Dubrava ja mjere Donja Dubrava krbulja ositelj uštede Govorna osoba (ime) dgovorna osoba (email) kontakt Fonda govorna osoba (tel) Sagnanciranje Dokumenti Stede i troškovi štede i roškovi štede nergije [kWh/god] 394.077,70 šteda energije [kWh/god] 372.122,47 O2 ušteda [t] mulativne uštede energije (NN 30/2022)	rijedi do	18.9.2040 🗸		
lica i broj Krbulja 21 ositelj uštede Fond za zaštitu okoliša i energetsku učinkovitost • • • • • dgovorna osoba (ime) Opći kontakt Fonda • • • • • • • dgovorna osoba (email) kontakt@fzoeu.hr • • • • • • • dgovorna osoba (tel) 5391800 • • • • • • • • • • • • • • • • • • •	1IS kod	KK.04.2.1.04.0053		
ositelj uštede Fond za zaštitu okoliša i energetsku učinkovitost dgovorna osoba (ime) Opći kontakt Fonda dgovorna osoba (email) kontakt@fzoeu.hr dgovorna osoba (tel) 5391800 omentar	okacija mjere	Donja Dubrava		
dgovorna osoba (ime) Opći kontakt Fonda dgovorna osoba (email) kontakt@fzoeu.hr dgovorna osoba (tel) 5391800 omentar Sufinanciranje Dokumenti Stede primarne energije [kWh/god] 394.077,70 Steda energije [kWh/god] 372.122,47 O2 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022) 5.259.579,04	Ilica i broj	Krbulja	21	
dgovorna osoba (email) dgovorna osoba (tel) Sufinanciranje Sufinanciranje Dokumenti štede i troškovi štede nergije [kWh/god] 394.077,70 394.070 394.077,70 394.0700 394.0700 394.0700 394.0700 394.0700 394.0700 394.07	ositelj uštede	Fond za zaštitu okoliša i energetsku učinkov	itost … 🖂]
Sufinanciranje 5391800 Sufinanciranje * Dokumenti * štede i troškovi 394.077,70 šteda energije [kWh/god] 372.122,47 D2 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022) 5.259.579,04	dgovorna osoba (ime)	Opći kontakt Fonda		1
Sufinanciranje Dokumenti Stede i troškovi Stede i troškovi štede primarne energije [kWh/god] 394.077,70 šteda energije [kWh/god] 372.122,47 O2 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022) 5.259.579,04	dgovorna osoba (email)	kontakt@fzoeu.hr		1
Sufinanciranje Dokumenti Štede i troškovi štede primarne energije [kWh/god] 372.122,47 O2 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022)	dgovorna osoba (tel)	5391800		
Dokumenti Stede i troškovi štede i troškovi štede primarne energije [kWh/god] 394.077,70 Steda energije [kWh/god] 372.122,47 02 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022) 5.259.579,04	omentar			
štede i troškovi 394.077,70 štede primarne energije [kWh/god] 394.077,70 šteda energije [kWh/god] 372.122,47 O2 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022) 5.259.579,04				
štede primarne energije [kWh/god] 394.077,70 šteda energije [kWh/god] 372.122,47 O2 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022) 5.259.579,04				
šteda energije [kWh/god] 372.122,47 O2 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022) 5.259.579,04		204 077 70		1
02 ušteda [t] 79,63 umulativne uštede energije (NN 30/2022) 5.259.579,04				1
umulativne uštede energije (NN 30/2022) 5.259.579,04				1
ošak mjere 6.561.204,59	(umulativne uštede energije (NN 30/2022)	5.259.579,04		1
	rošak mjere	6.561.204,59		

Energy savings \rightarrow 372.122,47 kWh/year

Prijenos uštede	
Podaci za izračun	
Formula	$FES = \left(\frac{SHD_{init}}{\eta_{init}} - \frac{SHD_{new}}{\eta_{new}}\right) \cdot A_{heated}$
Specifična potreba za grijanjem - Stara [kWh/m2]	135,38
Specifična potreba za grijanjem - Nova [kWh/m2]	61,08
Ploština korisne površine zgrade [m2]	2476,35
Učinkovitost sustava grijanja - Stara (ukupno)	0,609000 - Predefinirana vrijednost 🔗
Učinkovitost sustava grijanja - Nova (ukupno) Tli	0,848000 - Predefinirana vrijednost
učinkovitost sustava grijanja - Stara (kotao)	~
Učinkovitost sustava grijanja - Nova (kotao)	×
Učinkovitost sustava grijanja - Stara (emisija)	~
Učinkovitost sustava grijanja - Nova (emisija)	~
Učinkovitost sustava grijanja - Stara (distribucija)	×
Učinkovitost sustava grijanja - Nova (distribucija)	×
Faktor normalizacije	1,00
· · · · · · · · · · · · · · · · · · ·	
🕜 Uredi 📎 Pridruži 🔒 Zaklju	učaj 🏟 Kao predložak 🛛 💢 Obriši 💼

C

Copyright ComTrade d.o.o. All rights reserved. Version: 2.2.2.6

User manual

