

ATTRACTING FINANCING TO FIGHT OFF MUNICIPAL ENERGY POVERTY

STRATEGY AND ACTION PLAN

for deep energy renovation of the public buildings of Gorna Malina municipality



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Example from Burgas

Data from the National Programme for Energy Efficiency in the Multifamily Residential Buildings (source: SEDA database)

Type of energy	Actual consumption, MWh/year	Calculated savings, MWh/year
Hard fuel	17,4	38,1
Gas	140,3	188,3
Mixture of fuels	8088,2	18068,4
District heat	40395,5	30971,5
Electricity	67973,1	54356,2
TOTAL	116614,4	103622,4

Data for public buildings (source: Burgas municipality)

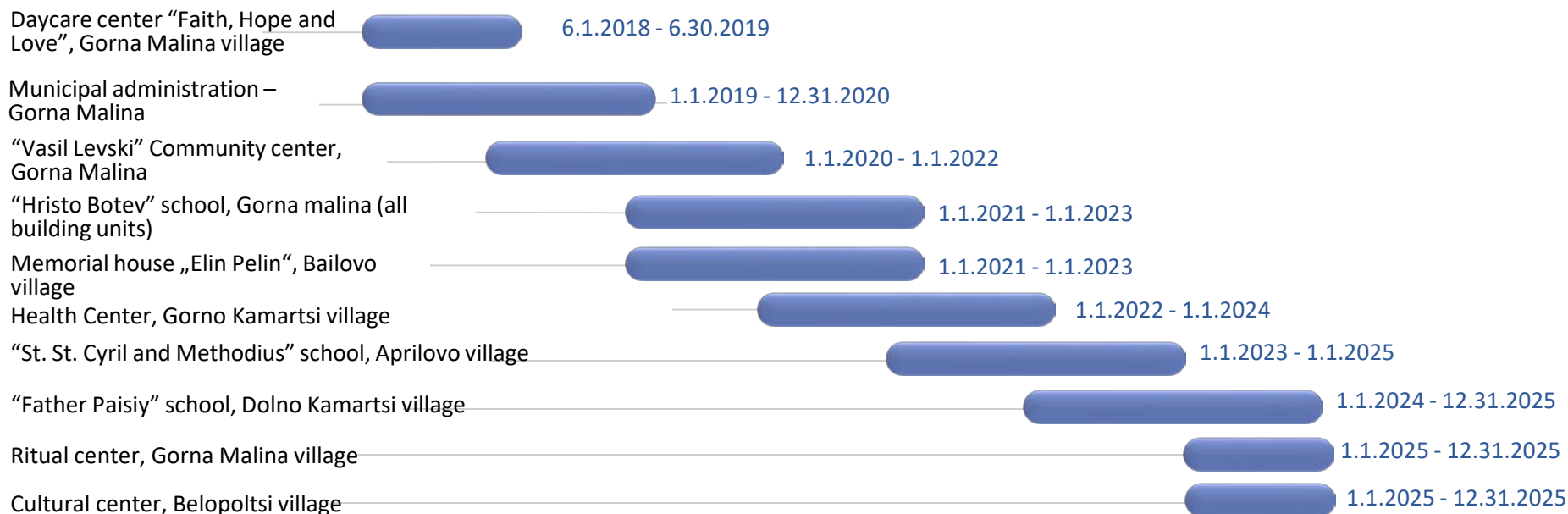
Building	Actual consumption 2014 (MWh)	Actual consumption 2015 (MWh)	Actual consumption 2016 (MWh)	Calculated annual savings (report to SEDA - implemented measures in 2015/2016)
High School of Commerce	186,506	196,407	n/a	295,58
High School "K.Preslavski"	392,441	387,546	286,883	773,32
High School "Y. Yovkov"	269,476	308,515	n/a	569,45

Preliminary financial framework of the plan (2018 - 2015)

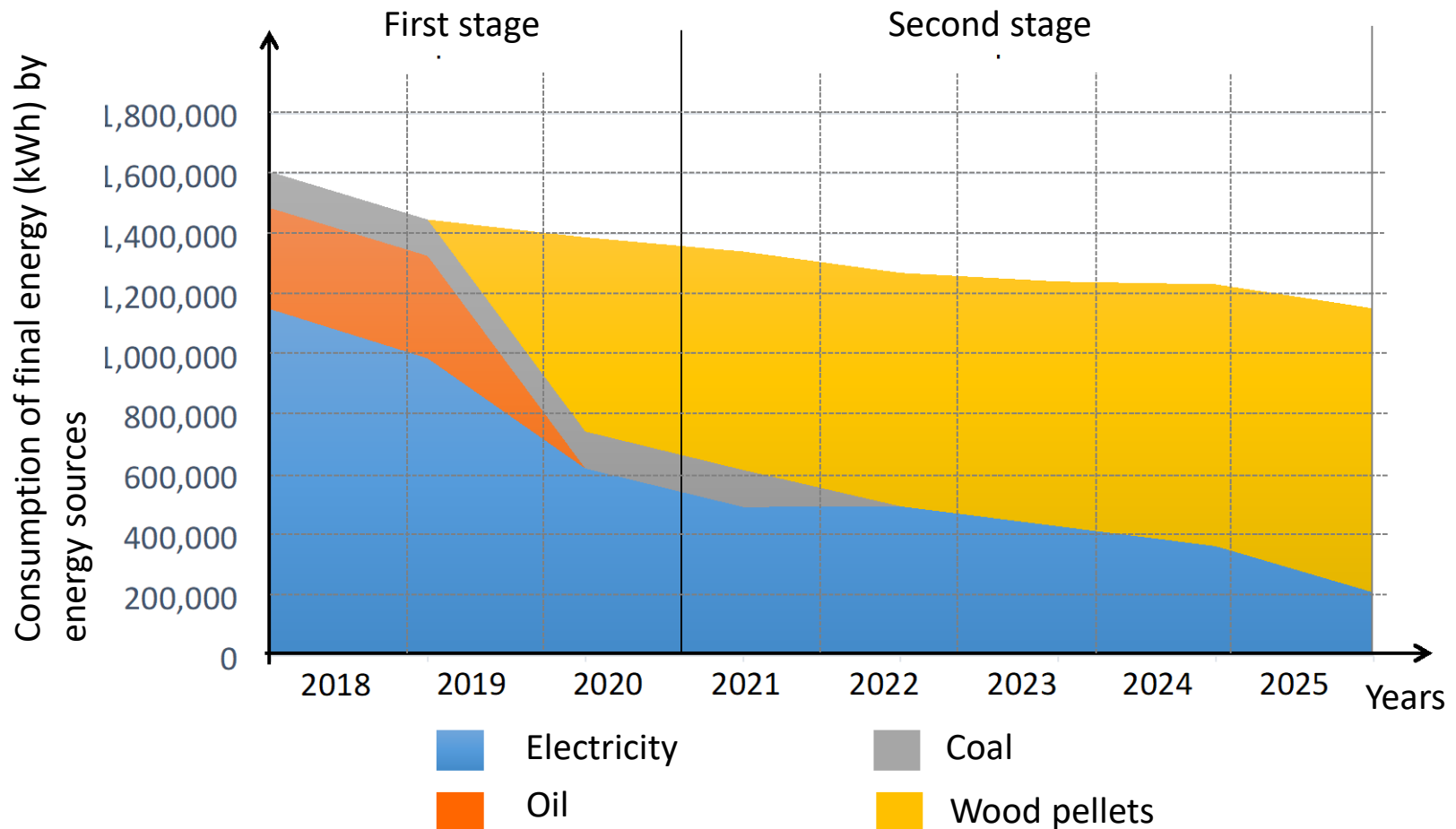
FINANCIAL SOURCES	YEARS								
	2018	2019	2020	2021	2022	2023	2024	2025	ОБЩО
OWN RESOURCES									
Monetary resources	5000	10000	5000	5000	60000	55000	60000	100000	300000
Guarantees	0	0	0	0	0	0	0	0	0
In-kind contribution	2000	2000	2000	2000	3000	3000	3000	3000	20000
									320000
GRANT RESOURCES									
Operational Programmes	0	0	0	60000	60000	60000	60000	60000	300000
National Trust EcoFund	0		20000	20000	20000	20000	20000	20000	120000
Financial Mechanism of EEA	20000	260000	120000	0	0	0	0	0	400000
Horizon 2020	0	0	10000	10000	10000	10000	10000	10000	60000
Other sources	0	0	0	60000	0	0	0	0	60000
									940000
SOFT AND BRIDGE FINANCING									
Energy Efficiency and RE Fund	0	0	0	0	0	0	80000	160000	240000
EE credit lines	0	0	0	0	0	0	0	0	0
Other sources	0	0	0	0	0	0	0	0	0
									240000
Public-private partnerships									
Partner 1	0	0	0	0	0	0	0	0	0
Partner 2	0	0	0	0	0	0	0	0	0
									0
TOTAL:	27000	272000	157000	157000	153000	148000	233000	353000	1500000

PROJECT (BUILDING)	Score	Reduced emissions (%)	NPVQ	Financial savings	Investment
Municipal administration – Gorna Malina	116	79,56%	0,8915	38 006	345 000
“St. St. Cyril and Methodius” schools, Aprilovo village	98	77,96%	0,0778	19 849	320 000
Memorial house „Elin Pelin“, Bailovo village	118	80,58%	2,0095	24 681	140 000
“Vasil Levski” Community center, Gorna Malina	128	89,42%	4,0579	29 746	100 000
“Father Paisiy” school, Dolno Kamartsi village	93	86,15%	0,7603	9 728	95 000
Cultural center, Belopoltsi village	78	77,52%	-0,4831	2 452	85 000
“Hristo Botev” school, Gorna malina (all building units)	110	65,41%	2,1317	12 846	70 000
Health Center, Gorno Kamartsi village	103	85,36%	1,1635	8 206	65 000
Ritual center, Gorna Malina village	93	79,31%	0,1736	3 656	54 000
Daycare center “Faith, Hope and Love”, Gorna Malina village	148	83,83%	8,7767	25 946	45 000

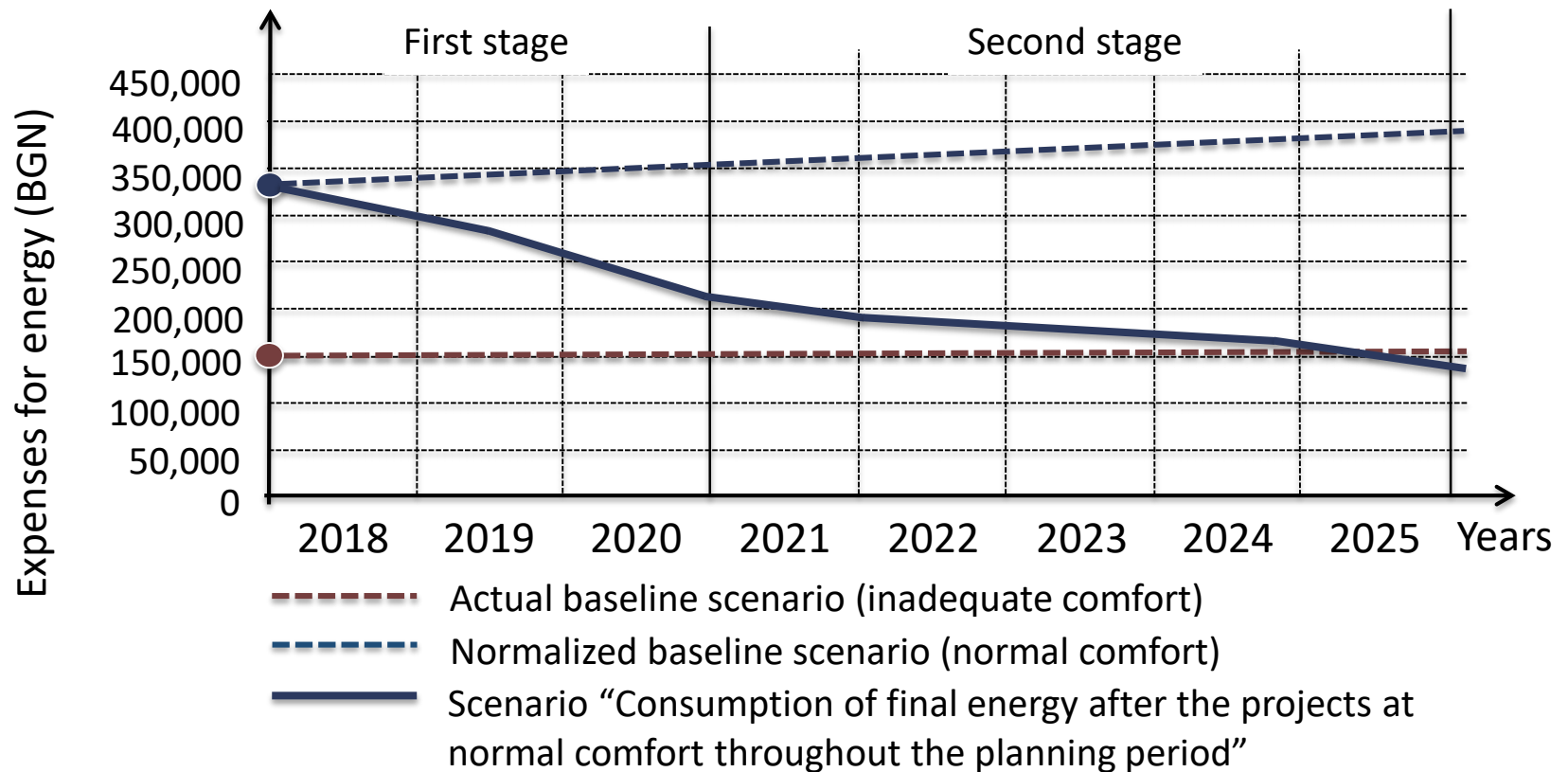
Sequence of implementation of the investment projects (time schedule)



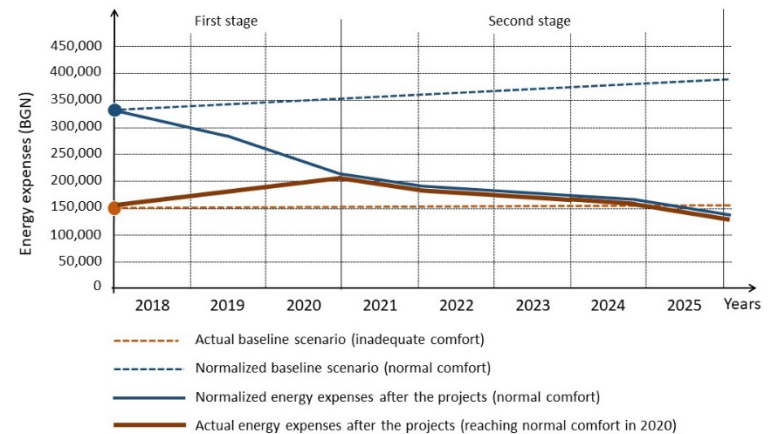
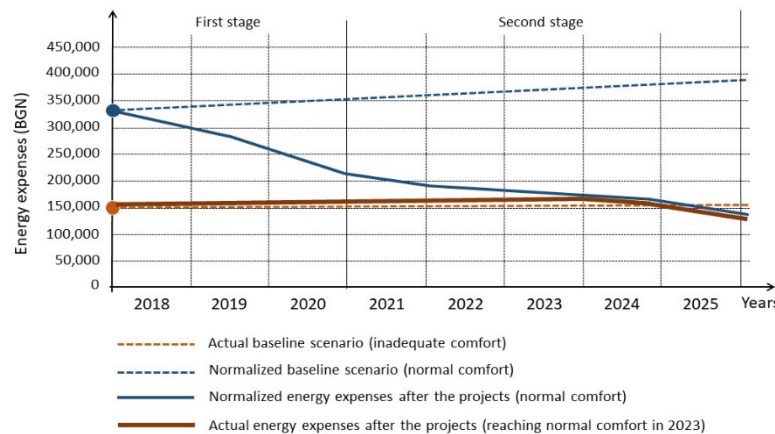
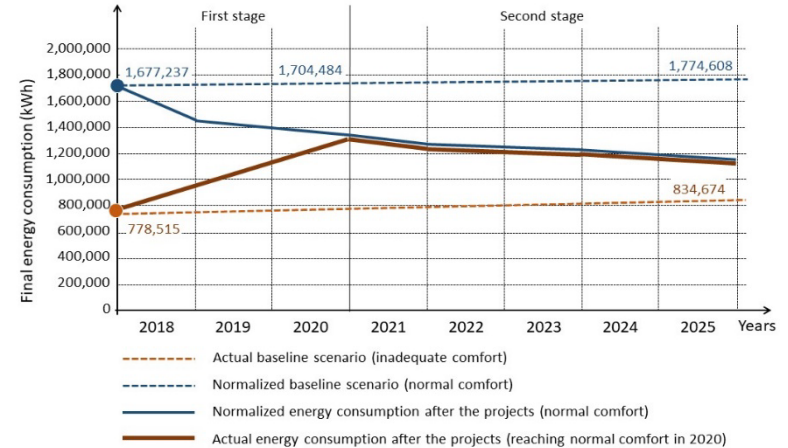
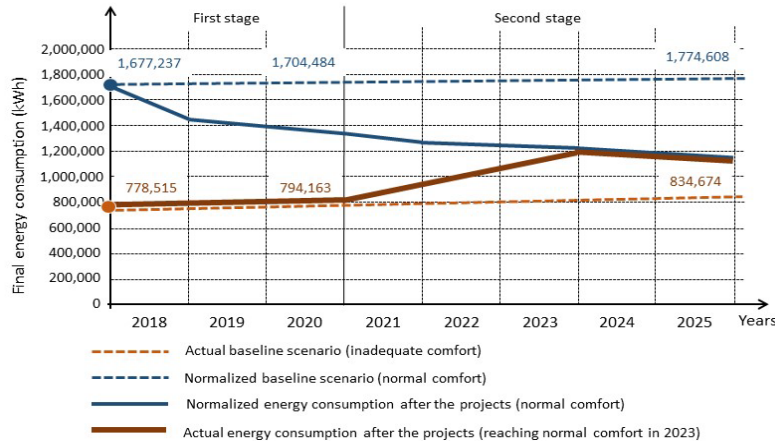
“Normalized” energy consumption (by energy sources) after the completion of the projects



Scenario “Expenditure after projects’ completion at normalized comfort during the whole planning period”



Policy choices regarding comfort and expenditure



Conclusions

- Be predictable and create trust relations!
- Prioritize projects according to a coherent multi-criteria evaluation scheme
- Define suitable funding sources for each project
 - Maintain high project readiness
 - Consider step-by-step implementation
- Look for unorthodox sources of financing (energy efficiency obligation schemes, transformation of functionality, “soft” projects)
- Inform and communicate: build local capacity and involve the community

Thank you for your attention!

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