

EPC, CROWD-INVESTING and MICROLOANS, and INTERNAL CONTRACTING

Welcome to the first PROSPECT+ Replication Webinar



SELNICA OB DRAVI
Vlasta Krmelj



KRIŽEVCI
Sanela Mikulčić Šantić



ALBERTVILLE
Sandrine Deternay

Vlasta Krmelj will explain how the Municipality of Maribor refurbished 24 public buildings using EPC (working with ESCOs).

Sanela Mikulčić Šantić will introduce a crowd-investing project that allowed Krizevci to mobilise funds for a photovoltaic installation on a municipal development centre.

Sandrine Deternay will share insights into Albertville City's approach to energy savings, emphasizing actionable steps and internal fund rotation to finance energy-saving measures.



PROSPECT+

Capacity building for cities and regions - from learning to action!

Prospect+ Policy Dialogue Webinar

Replication Webinar

Sylwia Slomiak



The PROSPECT+ project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101023271

28 February 2024

What do we do for public authorities?

Capacity-building through peer-learning

(online, study visits, Masterclasses, Community of Practice)



Innovative Financing Instruments:

- Citizens Finance (crowdfunding and cooperatives)
- Energy Performance Contracting (EPC)
- Internal Contracting
- Green Bonds
- Guarantee Funds
- Soft Loans
- Revolving Funds
- Third Party Financing

Prospect+ Community of Practice and Policy Dialogue



Community of Practice

Everyone who would like to learn more about the innovative financing instruments and examples of successful projects at their own pace can [join our Community of Practice!](#)

[REGISTER HERE](#)

The Members of the Community of Practice (CoP) join various online meetings and webinars where they hear and talk about the most interesting examples of best practices from PROSPECT+ [meritors](#) and [minitees](#) and invited guests. They also have an opportunity to share their experience and contribute to the policy feedback, in order to bring attention to the difficulties and needs affecting public authorities when they use innovative financing instruments.

Why join the Community of Practice?

Interested in innovative financing and looking project success stories or happy to share your experience? Since we launched the CoP, we've fostered enriching online discussions and established a collaboration space.

What role can you have in our Community of Practice?

- **Active:** for those members who would like to take an active part in discussions, share their organisation's experience and provide input to policy feedback.
- **Observer:** for those who would like to participate in webinars and receive information on best practices.
- **Expert:** for those who would like to provide expert input on the application of innovative financing instruments or policy context.



PROSPECT+ Home About Us Learning Resources Resources Community News & Events Communication Help & Contact

DON'T MISS!

Policy Dialogue webinar: 15 November 2023, 10:30-12:00 CET

Don't miss the Policy Dialogue webinar on 15 November to discuss how local can and then relying on public funding to successfully using innovative financing instruments when subsidies run out. We are bringing together public authorities and municipal energy agencies with representatives of EU institutions and private investors to talk about stake providers and the barriers that hinder the speed of the energy transformation. [Learn more about the event and register here.](#)

Policy dialogue consultations on cities' access to innovative financing instruments

Have thoughts on financing public authorities' policies on sustainable future cities? Contribute your recommendations!

Multiple opportunity to share your needs and recommendations with decision-makers - you can shape our Policy Dialogue, the webinar and our input on national level; policy authorities' opinions, suggestions and concerns about financing energy transition with reduced dependence on subsidies are very important to us and we want to ensure they are heard! To add your contribution [click here](#).

What is PROSPECT+ Policy dialogue

We strive to ensure that recommendations and concerns from public authorities reach decision-makers, paving the way for improved policy incentives and conditions, and fostering interest in innovative financing instruments for climate and energy.

Our policy dialogue is based on the feedback we get from public authorities about the actual opportunities to access appropriate financing for implementing sustainable energy projects. We regularly consult Prospect+ users and the Community of Practice members.

Join the consultations

If you would like to share your suggestions and concerns about the future of funding your regional projects, or if you would like to participate in discussions and events, [submit your input here](#).

You don't need to be a senior expert in the field - as long as you have been involved in climate and energy-related projects and get share your observations about the needs of public authorities' access to appropriate funding and financing.

What will happen with your feedback?

We will organise policy-related events in order to further public authorities' access to more financing options, sharing your concerns and recommendations and

LAST CHANCE TO JOIN THE PROJECT

Don't miss the last chance to join:

Last opportunity to join the [last learning cycle](#) that starts in May (including free study visits) – apply by 15 March 2024:

[Get Involved](#)

Who is eligible?

Representatives of public authorities and municipal energy agencies endorsed by the mayor, deputy mayor or CEO.

www.h2020prospect.eu

GET A FLAVOUR OF THE MENTORING PROGRAMME

Learn from our mentors:



SELNICA OB DRAVI
Vlasta Krmelj



KRIŽEVCI
Sanela Mikulčić Šantić

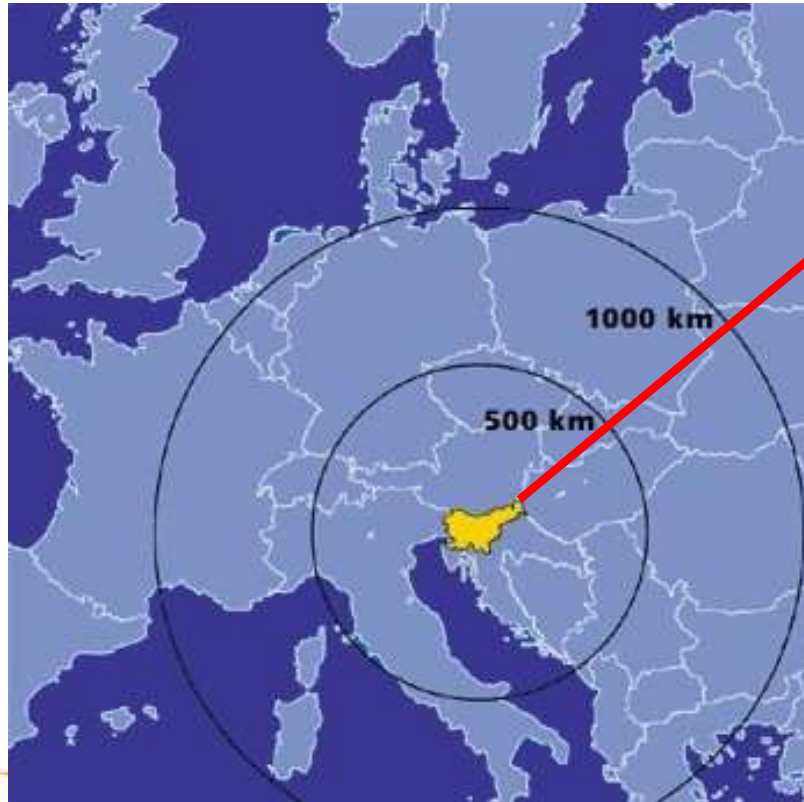


ALBERTVILLE
Sandrine Deternay

Good practice
**EPC in MARIBOR,
SLOVENIA**

**Dr. Vlasta KRME LJ, Director
Energy and Climate Agency of Podravje
Vice - president of FEDARENE**

**ENERGAP - PROSPECT+ partner and
mentoring agency**



CLIMATE AND ENERGY TRANSITION IN PODRAVJE REGION

- Energy management in public sector (planning (strategies, action plans) and implementation
- Preparation of investment documentation for energy projects (Cost benefit Analysis)
- Financial planning of energy projects
- Implementing different financial mechanisms (PPP, EPC, EU funds,...), public procurement procedures, negotiations, ...
- Educational and communicational activities for different target groups
- Citizens advisory services



STAKEHOLDERS

- Municipalities
- Public buildings managers, public communal services (waste management, waste water, public lighting, district heating)
- Users
- University of Maribor, Chamber of Commerce in the region and in Slovenia, Chamber of crafts
- Professionals, experts, University Hospital Centre in Maribor
- Ministries, EU organisations, institutions, partners
- ESCO companies, clusters

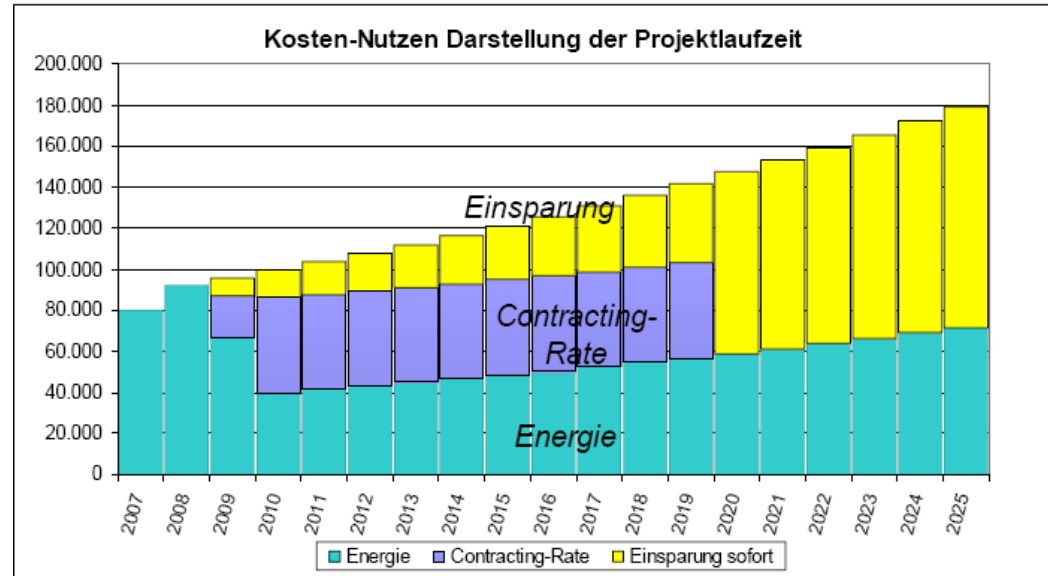
LESSON 1 - Team work

- Working with users, step by step, starting with schools, kindergartens, followed by sports objects, cultural, administrative buildings, ...
- Stakeholders – from „first coffee to friends“
- City administration staff
- Directors, mayor
- Politicians „year by year, after 4-years mandate all over again“

VIR:<https://www.qs.com/qs-world-university-rankings-by-subject-2015-challenges-and-developments/>

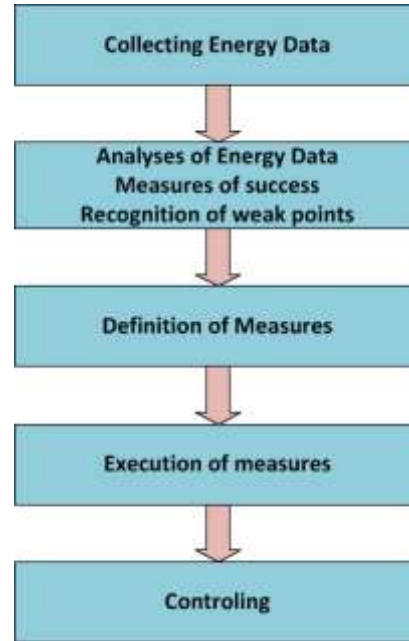


- ❖ No experiences in Maribor
- ❖ No knowledge
- ❖ New way of thinking
- ❖ Not a lot of ESCO
- ❖ Traditionally against ESCO and private profit system
- ❖ Information, education and training activities, repeating

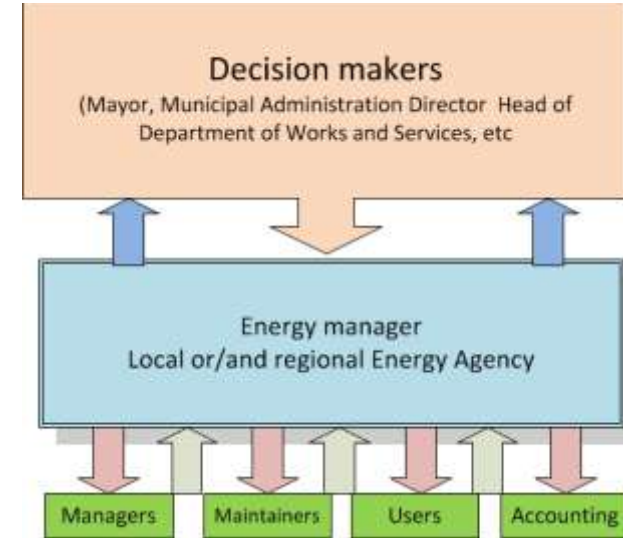


ENERGY MANAGEMENT

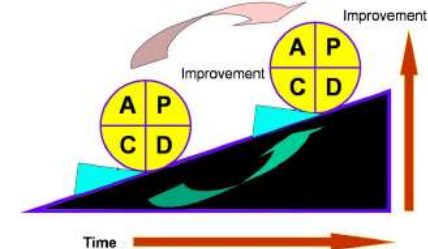
- ❖ Analyses of energy supply, consumption and costs (Secure, stable and quality of energy supply);
- ❖ Preparation of RES and RUE measures (Energy Action plan);
- ❖ Communication between decision makers and maintainers, accouters, etc;
- ❖ Measurements of the Environmental impacts;
- ❖ To create long-term strategy on energy management;
- ❖ Education, motivate and raise the awareness of all employees;
- ❖ Energy audits
- ❖ Monitoring - Energy bookkeeping



LESSON 2 - Introduce energy and climate management step by step



PLAN – DO – CHECK – ACT



ENERGY REFURBISHMENT OF 24 PUBLIC BUILDINGS IN PPP - EPC



- ❖ Started in 2015
- ❖ No political commitments
- ❖ Elections
- ❖ Many presentations at City Council
- ❖ Political approval in 2017
- ❖ Public procurement PPP procedure in 2018
- ❖ December 2018 start of the work
- ❖ December 2019 end of the work
- ❖ Investment 12 mio EUR



<https://www.dw.com/en/10-traditional-types-of-german-jokes/a-38144935>

IN PARALEL MAKE ENERGY AUDITS



Tabela 1: Seznam objektov SKUPINE A, predvidenih za celovito energetska obnova s pregledom ukrepov

Št.	Objekt	Naslov	Predvideni ukrepi						
			Energetska upravljanje	Prenova ovoja	Prenova stavbnega pohištva	Izolacija podstrešja, strapi, strehe	Vgradnja termostat. ventilov	Prenova ogrevalnega sistema	Prenova notranje razsvetljave
1.	Upravna stavba MDM	Ulica heroja Staneta 1	x				x	x	x
2.	OŠ bratov Polančičev Maribor*	Prešernova ulica 19	x	x	x	x	x	x	x
3.	OŠ Leon Štukelj Maribor*	Klinetova ulica 18	x	x	x	x	x	x	x
4.	OŠ Ludvika Pliberška Maribor	Lackova cesta 4	x				x	x	x
5.	OŠ Martina Konšaka Maribor	Prekmurska ulica 67	x	x	x	x	x	x	x
6.	OŠ Maksa Durjave Maribor	Ruška cesta 13	x				x	x	x
7.	OŠ Slave Klavore Maribor	Štrekļjeva ulica 31	x	x	x	x	x	x	x
8.	OŠ Franca Rozmana Staneta Maribor	Kersnikova ulica 10	x	x	x	x		x	x
9.	OŠ Malečnik	Malečnik 61	x				x	x	
10.	OŠ Prežihovega Vogarca Maribor	Gospodsvetska cesta 10	x	x	x	x	x	x	x
11.	OŠ Draga Kobala Maribor	Tolstojeva ulica 3	x	x	x	x	x	x	x
12.	OŠ Rada Robiča Limbuš	Limbuška cesta 62	x	x	x	x		x	x
13.	Vrtec Tezno Maribor, PE Pedenjped	Ulica heroja Nandeta 3	x	x	x	x	x	x	x
14.	Vrtec Pobrežje, PE Grinjč	Cesta XIV. divizije 14a	x	x	x	x	x	x	x

LESSON 3 – Use real data and information

ENERGY, COST AND SAVINGS CALCULATIONS

To have view in savings (kWh, EUR, CO₂) potentials and make priorities (benchmarking)

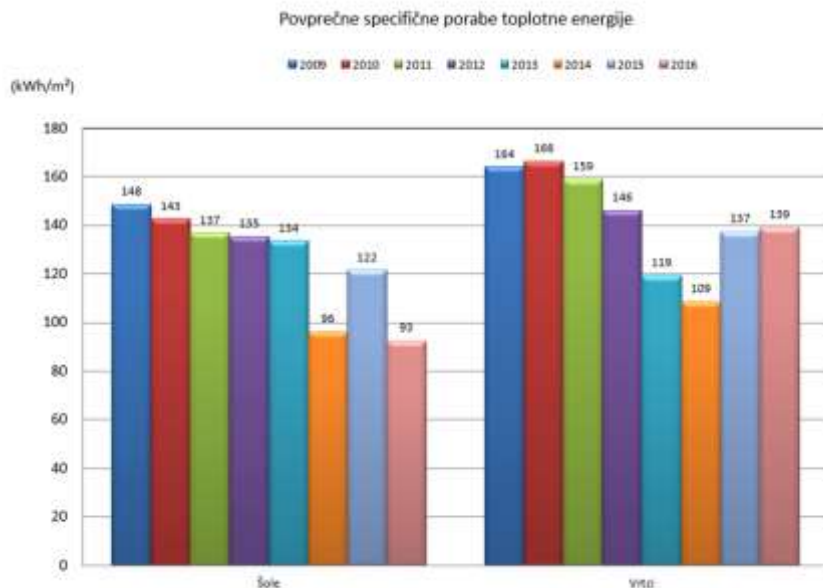


Tabela 7: Raba energije, stroški za rabo energije in emisije CO₂ po posameznih letih, OŠ bratov Polančičev Maribor

	2010	2011	2012	2013	2014	2015	2016
Toplotna energija							
Raba energije v kWh	579.044	422.932	622.613	477.397	344.052	454.289	616.115
Stroški energenta v EUR z DDV	40.165	35.912	60.639	47.238	33.761	37.580	45.127
Proizvedene emisije CO ₂ v tonah	154	113	166	127	92	120	164
Električna energija							
Raba energije v kWh	128.879	125.726	127.829	127.175	124.175	129.165	134.670
Stroški energije v EUR z DDV	20.005	19.446	21.417	20.284	20.118	21.338	20.993
Proizvedene emisije CO ₂ v tonah	68	67	68	67	66	68	71

Stroški vzdrževanja: 1.500 € letno

Tabela 8: Predvideni letni prihranki, ki bi lahko bili doseženi po energetski sanaciji, OŠ bratov Polančičev Maribor

	Toplotna energija	Električna energija
Potencialni prihranki energije v kWh na leto	175.278	87.433
Potencialni prihranki stroškov v EUR na leto z DDV	14.432	14.072
Potencialno znižanje emisij CO ₂ v tonah na leto	46	46,19

INVESTMENT COST



- ❖ On the basis of energy audits and proposed measures – investment costs are calculated

Tabela 37: Ocena vrednosti investicije za celotno operacijo

OCENA VREDNOSTI INVESTICIJE PO STALNIH CENAH (STAVBE SKUPINA A IN B)

št.	skupina stavb/ukrep	leto 2018	leto 2019	SKUPAJ
I.	STAVBE SKUPINE A	56.000,00	9.453.291,31	9.509.291,31
1.	Pripravljalne in spremljevalne storitve	56.000,00	186.786,70	242.786,70
2.	GOI dela	0,00	9.266.504,61	9.266.504,61
I.	STAVBE SKUPINE B	10.000,00	1.444.842,38	1.454.842,38
1.	Pripravljalne in spremljevalne storitve	10.000,00	23.213,28	33.213,28
2.	GOI dela	0,00	1.421.629,10	1.421.629,10
	Skupaj brez DDV	66.000,00	10.898.133,69	10.964.133,69
	DDV 22 %	0,00	2.390.109,42	2.390.109,42
	Skupaj z DDV	66.000,00	13.288.243,11	13.354.243,11
	Skupaj z DDV (brez upoštevanja povračljivega DDV)	66.000,00	10.969.598,49	11.035.598,49

INVESTMENT CONCEPT - 1



- ❖ Historical data on energy, costs, Co2
- ❖ Potential savings in energy, costs and CO2
- ❖ Potential sources: municipal budget, loans, public funds, EU, private funds
- ❖ Make long and short term scenarios for energy use and costs (including running and maintaining costs)
- ❖ Financial flows, cost benefit analysis, including all benefits (staff, development, environment, ...)

Tabela 45: Finančna konstrukcija variante po principu JZP, skupaj stavbe Skupine A in B

	Viri financiranja	2018 (€)	2019 (€)	Skupaj	Upravičeni stroški (€)	Neupravičeni stroški brez DDV (€)	Delež vira v % na celoten projekt
A	Prilagoditve in spremembe/valne stavbe						
1.	Nepovratna sredstva	22.400,00	74.714,68	97.114,68	97.114,68	/	0,89
1.1.	namenska sredstva EU	19.040,00	63.507,48	82.547,48	82.547,48	/	34,60
1.2.	sklonska udeležba kolektivne politike	3.360,00	11.207,20	14.567,20	14.567,20	/	0,60
2.	Lastna sredstva javnega subjekta	43.600,00	235.285,30	178.885,30	145.672,00	33.213,30	1,63
	SKUPAJ BREZ DDV	66.000,00	209.999,98	275.999,98	242.786,68	33.213,30	2,52
	22% DDV - nepovračljiv (javni partner)	0,00	38.720,00	38.720,00			
	SKUPAJ Z DDV	66.000,00	248.719,98	314.719,98			
B	Gradbena, obrtniška in inštalacijska dela (GOI) - ukrep prezebravanje						
1.	Lastna sredstva javnega subjekta	0,00	148.840,00	148.840,00	/	148.840,00	1,36
	SKUPAJ BREZ DDV	0,00	148.840,00	148.840,00	/	148.840,00	1,36
	22% DDV - nepovračljiv (javni partner)	0,00	32.746,80	32.746,80			
	SKUPAJ Z DDV	0,00	181.586,80	181.586,80			
C	Gradbena, obrtniška in inštalacijska dela (GOI) - ostali ukrepi						
1.	Nepovratna sredstva	0,00	3.703.362,66	3.703.362,66	3.703.362,66	/	33,78
1.1.	namenska sredstva EU	0,00	3.147.858,26	3.147.858,26	3.147.858,26	/	34,60
1.2.	sklonska udeležba kolektivne politike	0,00	555.504,40	555.504,40	555.504,40	/	0,60
2.	Lastna sredstva javnega subjekta	0,00	1.555.744,90	1.555.744,90	916.582,36	639.162,64	14,19
3.	Zasebni partner - IZP	0,00	5.280.186,15	5.280.186,15	4.638.461,73	641.724,42	48,16
	SKUPAJ BREZ DDV	0,00	10.539.293,71	10.539.293,71	9.298.406,65	1.240.887,06	96,13
	22% DDV - povračljiv (zasebni partner)	0,00	2.318.644,62	2.318.644,62			
	SKUPAJ Z DDV	0,00	12.857.938,33	12.857.938,33			
	SKUPAJ BREZ DDV (A+B+C)	66.000,00	10.898.133,69	10.964.133,69	9.501.193,33	1.462.940,34	100,00
	22% DDV	0,00	2.390.109,42	2.390.109,42			
	SKUPAJ Z DDV	66.000,00	13.288.243,11	13.354.243,11			
	SKUPAJ Z DDV (brez upoštevanja povračljivega DDV)	66.000,00	10.969.598,49	11.035.598,49			
	Povzetek virov za stavbe Skupine A in B:						
	Nepovratna sredstva	22.400,00	3.778.077,34	3.800.477,34			
	Lastna sredstva javnega subjekta	43.600,00	1.911.335,00	1.954.935,00			
	Zasebni partner - IZP	0,00	5.280.186,15	5.280.186,15			
	Skupaj	66.000,00	10.969.598,49	11.035.598,49			

INVESTMENT CONCEPT - 2



LESSON 4 – Take time to list all benefits

- ❖ One of the scenarios also PPP – EPC
- ❖ SWOT analysis prepared for specific project, circumstances, region, ... do not just take some examples from the web
- ❖ Many benefits but also some negative aspects
- ❖ Discuss with stakeholders



https://www.researchgate.net/figure/Energy-Contracting-models-summary-of-SWOT-analysis_fig5_267203248

RESULT in MARIBOR – EPC IS THE BEST OPTION FOR PROPOSED PROJECT

PROCEDURE – legally binding in many countries

STEP 1

- ❖ Ask the market
- ❖ Get the ESCO proposals including proposed measures and cost benefit analysis
- ❖ Check and analyse the proposals and compare with investment concepts
- ❖ Identify ESCO and municipal conditions as a base for potential negotiations

STEP 2

- ❖ Public call – usually in 2 phases
- ❖ 1st phase – identification of basic conditions that ESCO is legally, administrative and operationally able to perform EPC
- ❖ Make a short list of ESCO

STEP 3



- ❖ Shortlisted ESCO invited to give the offer
- ❖ Negotiation phase – negotiate measures and financially and legal conditions
- ❖ Could take more months
- ❖ Set final conditions for ESCO and ask all of them for final offer
- ❖ Take the best one according to your criteria
- ❖ Make agreement

PPP-EPC AND COHESION FUND CITY OF MARIBOR

1 BIG MUNICIPALITY -
MANY OLD AND UNEFFICIENT
BUILDINGS
24 SELECTED FOR EPC
SCHOOLS, KINDERGARTENS,
SPORT HALLS

ENERGY AUDITS – POTENTIAL
SAVINGS:

- 4 GWh/a of energy
- 1.200 t CO₂/a
- 450.000 EUR/a

11-12 mio EUR
INVESTMENTS



PPP-EPC AND COHESION FUND



**11-12 mio EUR
INVESTMENTS
15 years
agreement
work done
in 2019**

**5 mio
EUR
ESCO**

**3,6 mio EUR
COHESION
FUND**

**2 – 3 mio
EUR OWN**







OŠ Kamnica.png - Pregledovalnik fotografij za Picaso



OSPECT+

OŠ kamnica obnovljena.png - Pregledovalnik fotografij za Picaso



MONITORING OF THE RESULTS

LESSON 4 - Building a knowledge and trust for new projects

- ❖ Follow and monitor the implementation – it takes time but is far paid off (legally binding and more)
- ❖ Talk to users during the implementation
- ❖ Monitor the energy use, cost and emissions all the time
- ❖ At least on yearly basis talk to users, municipal staff, others – ask for fillings, opinions for improvement



SUCCESSFUL PROJECT IS A MOTIVATION TO GO FURTHER – FOR ALL STAKEHOLDERS

Renovation of 24 public buildings:

- ❖ 12 mio EUR investment – PPP
- ❖ Reductions per year:
 - energy consumption by 5.952 MWh
 - energy costs by 446.000 EUR
 - maintenance costs by 28.500 EUR
 - CO₂ emissions by 1.305 tonnes
- ❖ More budget for other projects
- ❖ More knowledge and own experiences



<https://www.cleanpng.com/png-clip-art-image-cartoon-vector-graphics-illustration-7055717/>

FOR THE END ...

- ❖ Do not be afraid!
- ❖ Money is not the problem!
- ❖ Start with smaller projects as the pilots
- ❖ A lot of municipalities have difficulties and have no experiences!
- ❖ Energy transition is the opportunity!

LESSON 5 – DO NOT GIVE UP!



- ❖ Waves: Energy and climate friendly and unfriendly Mayors, Councillors
- ❖ New directors, headmasters, staff
- ❖ Financially good or worse year
- ❖ Talk to people, make education activities
- ❖ It takes time to spread the information about benefits, usually it goes „from mouth to mouth“
- ❖ Take it as life-long activity

Thank you!

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Town of Križevci
energy transition

General info



Koprivnica-Križevci County, area of 263,7 km² and 59 villages



19.052 inhabitants, half of them in the urban area



great geotrafic location



favorable climate, fertile soil



SME, mostly retail, metal industry, construction,
woodworking industry,
cca 1.400 small family farmers and business

SECAP overview



Climate Alliance



ENERGYCITIES



38.000 t CO₂



54%



46%



25%



75%

Overview of city projects

- Energy renovation of public buildings
- Using biomass as a source of thermal energy in Utility company
- Charging stations for electric vehicles
- Electric and hybrid city vehicles
- Public bicycles
- LED public lighting
- Energy advisors for energy-poor households
- Križevci sunny roofs
- Co-financing of solar power plants on family houses
- Study and strategy for the development of the green infrastructure of the City of Križevci until 2027
- Cadastre of greenery and urban equipment of the city of Križevci
- Investigation of geothermal potential for heating
- 5 MW solar power plant in cooperation with HEP





Križevci sunny roofs

Short description

- Implemented in 2018
- Municipality as enabler (owner of the buildings and institutions in it)
- ZEZ cooperative – project development and lead
- crowdfunding campaign to get microloans

Stakeholders involved:

Greenpeace, Development Center and Technological Park in Križevci, Public Library, Regional Energy Agency North, Energy cities, Rescoop.eu, and other public institutions in Križevci, citizens, media



KRIŽEVAČKI SUNČANI KROVOVI

DO PRVIH SOLARA ZAJEDNO!

Glavni nositelj projekta i idejni začetnik projekta Križevački sunčani krovovi je Zelena energetska zadruga (ZEZ).

Ali u tome nismo sami! Podršku nam daje **REA Sjever** u tehno-ekonomskim studijama, te uz podršku **Greenpeace-a** i **Grada Križevaca** u provođenju kampanje, te brojne međunarodne organizacije, kao što su Europska federacija energetskih zadruga (REScoop.eu) i europsko udruženje Energy Cities.

Ovim projektom omogućavamo da svatko od vas može postati ulagač u solarnu elektranu!

Kada kaže "energija u rukama građana", ZEZ misli ozbiljno.

Promo video:



prikupljeno **100%** sredstava

0%



100%

Ova kampanja je uspješno financirana!



How it works?



The role of the City?

- gives permission to set up power plant on the roof of the building in their ownership
- gives public support for the project and is actively involved in promoting
- takes over payment of the rent in case the user is not able

Development Center and Technological Park

10 days campaign, 53 investors
Min 135 EUR- max 1.350 EUR
Average investment 530 EUR
cca 30.000 eur



4,5% interest



10 years Contract duration



38,8 t annual



30.000 EUR investment

405 EUR monthly rent



City Library Franjo Marković” Križevci

2 days campaign, 40 investors
Min 135 EUR- max 1.350 EUR
Average investment 400 EUR
23.000 eur



3% interest



10 years Contract duration



31,5 t annual



23.165 EUR investment

296 EUR monthly rent



Why was this a success?

- A key success factor was the **community engagement** component
- Great promotion for the municipality as enabler that helped innovation to happen and engaged public institutions and citizens in a joint process of urban, green and sustainable transformation
- Opened the door to participation in several new projects and developing new partnerships
- Citizens established in 2020 a local energy cooperative
- Increased demand for solar equipment, resulting in new local business and new jobs creation





Križevački laboratorij inovacija za klimu



KIK

ENERGETSKA ZADRUGA
KRIŽEVCI



 Armano Linta
arhitektura i dizajn




VESELA
MOTIKA




BIOCRO™



SOLUS
PHOTO & MOBILE



Tehnologik d.o.o.
za tehnološka rješenja u tehnici



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Intracting for energy savings

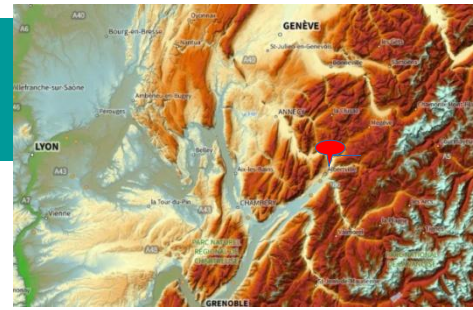
Own revolving funds



Sandrine de Ternay – finance director
February 28th 2024



Albertville city



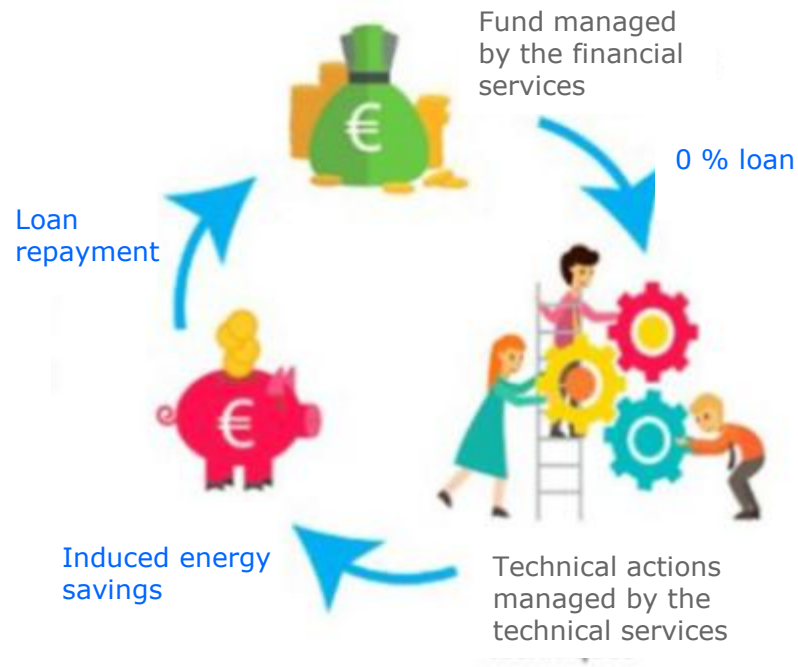
- Alpin environment
- 20,000 inh.
- 90 municipal buildings (13 schools, 1 central kitchen, several gymnasiums)
- 5,900 m² heated
- 3,950 public lighting points
- district heating network since 2019 (90 % local wood)

City budget :

- EUR 5,830,000 general expenses
- Including NRJ = EUR 1,328,000 = 23 %
- EUR 6,500,000 equipment budget capacity / year
- Debt reduction target

Intracting scheme – Why ? How ?

- Already several actions but nothing effective to drastically reduce our important energy consumption :
 - A lack of financial means to heavily invest in the renovation of the whole building stock
 - The limit of our debt capacity
- Choice of the intracting solution in 2019 :
 - To act quickly, by our own means
 - To reduce immediately
 - To initiate a virtuous circle NRJ bills



Intracting scheme – step by step

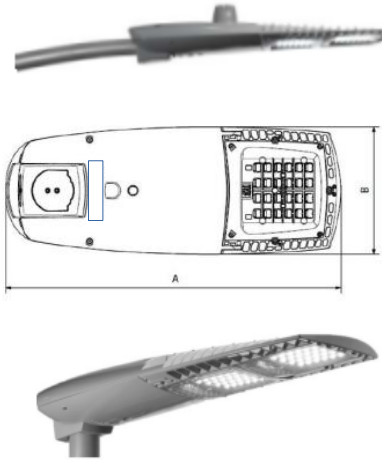


- ▶ 1 : evaluation of our previous savings to get a legitimate basis for our fund
 - **volumes saved in 2018** X **energy prices** in 2018
 - **Creation of a fund = EUR 113,610 in our investment budget**
 - **= 8 % of our energy operating budget**

- ▶ 2 : study and choice of the 1st savings measures
 - **Use the fund as quickly as possible** to be able to :
 - efficiency of the energy savings it allows / *ecological impact*
 - benefit immediatly from the savings to reduce our current expenses / *financial impact*
 - free ressources for further investments / *multiplier effect*

Intracting scheme – step by step

- ➔ **2019-002 replacing of 87 street light bulbs by leds in 2 streets (2 % public lighting park) :**



Evaluation of energy saving :

- = - 73,195 Kwh / year of electricity
- = 76 % energy consumption saved
- = - 73,195 Kwh x (0.101 EUR / KWh in 2019)
- = - **7,412 EUR / year**
- = - EUR 74,120 during the 10 years of residual life

- = EUR 45,120 net benefit at the end of 10 years of use

Coverage of the financing need by the intracting fund :

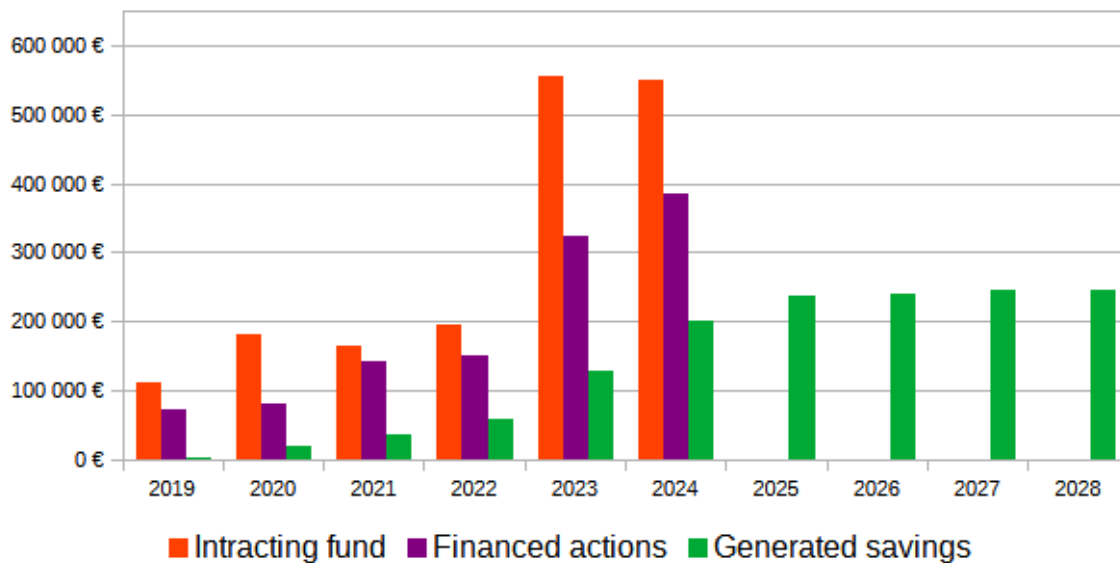
- EUR 29,000 = 100 % need = cost
- 4 years = return on investment



We accelerated this equipment program through the intracting fund
Easy measure for the 1st year of implementation (existing program)

Intracting scheme – Our 1st results

	2019	2020	2021	2022	2023	MADE 2019-2023	2024	2025	2026	PLANNED 2024-2026
Intracting fund	113 610 €	224 261 €	307 043 €	358 061 €	765 439 €	1 215 227 €	993 186 €	1 197 155 €	1 744 763 €	1 691 529 €
Financed actions	72 462 €	82 275 €	144 291 €	150 759 €	324 412 €	774 200 €	387 793 €			
Savings of energy	3 892 €	19 080 €	36 877 €	60 107 €	130 696 €	250 652 €	200 965 €	238 199 €	242 236 €	681 400 €

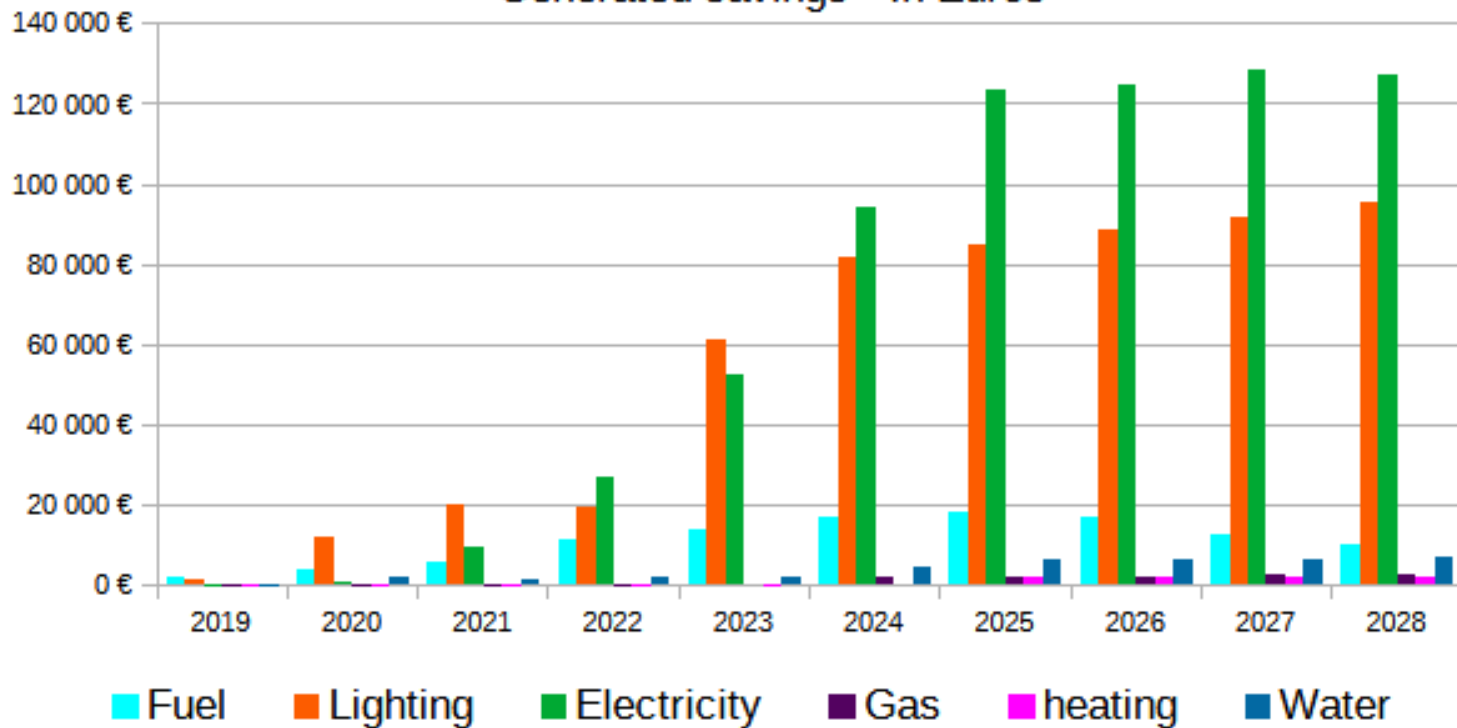


➡ **NRJ budget :**
 1.307 M€ in 2019
 1.328 M€ in 2023

Intracting scheme – Our 1st results



Generated savings - In Euros



Intracting scheme – Crucial initial « ignition »

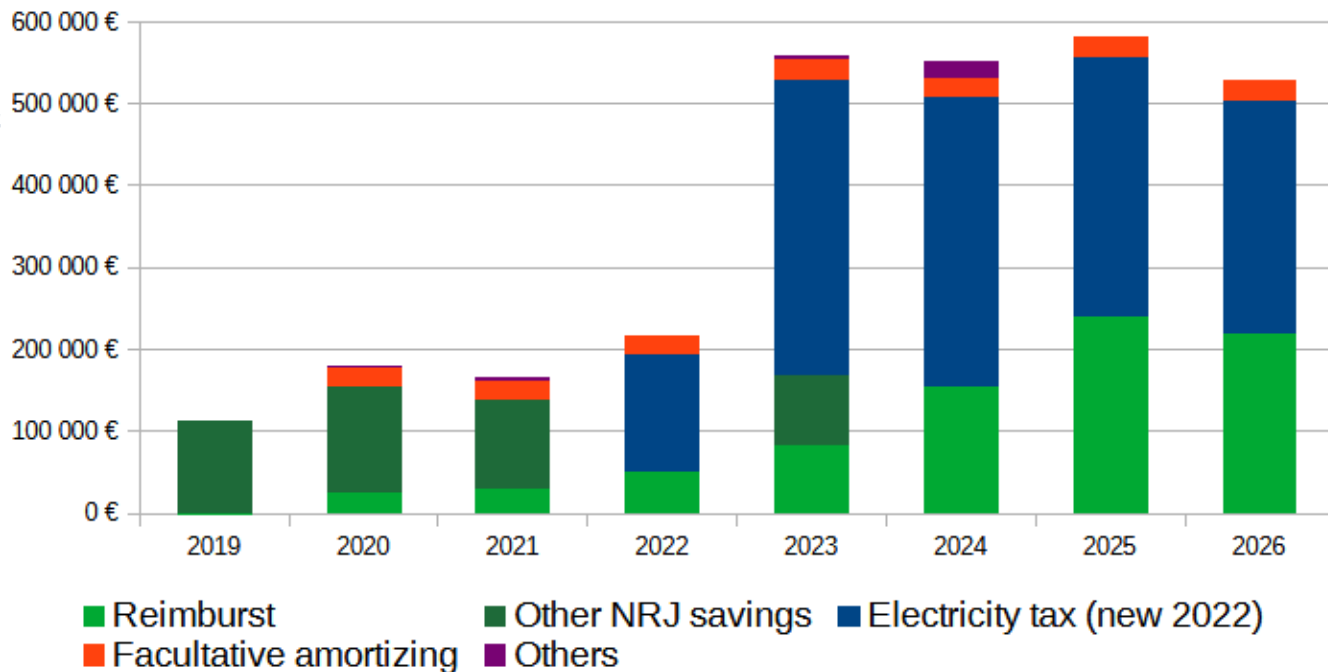
➤ Financial solutions :

a new national electricity tax en 2022, introduction of facultative amortizing

➤ Political option :

ressources must be linked to energy in order to draw up a coherent approach to the sobriety policy

Annual incomes



Intracting scheme – Multi-dimensional tool

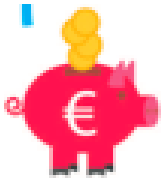


➤ **Politicly and organization**

- Virtuous circle for sobriety and energy transition
- Strengthens the partnership « technics - finance »
- Services able to show autonomy and creativity – better recognition of their expertises – more legitimacy
- Its results protect the fund's longevity

➤ **Finance**

- Multiplier effect of the financed actions
- Increase our financial independence / savings
- Boost the tool to get a bigger impact at the beginning
- Powerfull return on investment !



Intracting scheme – Multi-dimensional tool

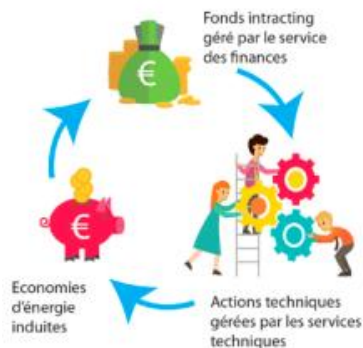


➤ Energy efficiency and environmental protection

- Act quickly and concretely to reduce NRJ consumption and pollution, even with small steps
- Benefit in return from a financial savings for even more and greater actions

➤ Clear and concerted rules to be efficient

- Simple internal tool if continuously concerted
- No regulation – Wow effect on the organization !
- Choice of a continuous improvement approach



Intracting scheme – our other feed backs

► The importance of the origin of the fund

- The rationale for the intracting fund has been facilitated by :
 - proving the **importance of our energy expenditures and their always higher amounts**
 - using the fund for saving measures to **reduce our operating expenses,**
 - **in a continuous improvement process**
- The **biggest obstacles to overcome** were :
 - the need to finance other heavy investments, already planned, on our investment budget
 - our concern to limit our debt, which induces a difficulty to introduce new expenses
- Asset at the beginning = **limited amount** of the fund
- Next challenge = to **use the fund for larger operations without diverting it** from its purpose

Intracting scheme – our other feed backs

► The importance of a flexible approach

- Whenever possible, we choose the most advantageous calculation formula to :
 - increase the fund's amount to get a bigger and faster impact on our consumption
 - finance as many measures as possible, even if it could be difficult to establish strictly the saving results / *some approximative and comparative approaches*
- We paid attention to the simplicity of the device, to be as convincing as possible :
 - close link between the ressources and the financed measures
 - simple calculation formula for energy savings evaluations