



Why cooperate, and what is in it for us?

Concrete examples from Norwegian participation in Flagship projects within the EUSBSR

Liv R. Lindseth, LinKon AS

Contracted by Innlandet County Council

EPC market expert and project administration

February 2021

effect4buildings.se

Innlandetfylke.no/E4B







EFFECT4buildings – a Flagship projects within the EUSBSR

«The flagship status has been crucial for this project.

From the start the status contributed to us being given priority for INTERREG funding at all.

During implementation it led to an increased status for the project, increased attention and hence became a dooropener for dissemination activities due to easier access to networks within the Baltic Sea Region."



Marit Ragnarsson, Country Board of Dalarna







EFFECT4buildings (E4B)

International project, 10 partners in 7 countries, Interreg Baltic Sea Region, 2017 – 2020

BACKGROUND

- 40% of energy consumption and 36% of CO₂ emissions in the EU come from buildings
- Energy efficient investments are not happening fast enough with regards to global reduction targets

MAIN GOALS

- Exchange experiences and expertise
- Reduce the risk of energy efficiency investments
- Highlight opportunities to upgrade buildings and reduce maintenance backlogs
- Cooperation with building managers to improve useful tools and instruments
- Increase energy efficiency in public buildings







E4B Guides and tools







Main values

1. Exchange of experiences

• Case studies and pilots on many of the tools from each partner country

2. Exchange knowledge

- Education and training courses building capacity on the financial tools and instruments
- Market research and reports from several countries

3. Development needs detected

- Assessment of barriers and success factors
- Testing and evaluation

4. Tangible and user-friendly outcome

- Improved and adapted tool and instruments
- Tailored for the main target group (public building managers)





E4B experiences – real EPC cases

EPC cases	Cases	Saving guarantee (average)		Duration/ Y (average)	Financing PU/PV	Buildings	m²	Investment
Finland - PP2	2	29 %	21 %	6	Esco	4	20 000	2 M€
Estonia - PP8	2	37 %	30 %	5	Own	2	10 000	2 M€
Poland - PP11	2	30 %	37 %	15	1 Own 1 Esco	17		5 M€
Denmark - PP5	5	22 %	22 %	8	Own	238	~650000	35 M€
Norway - PP3	6	29 %	25 %	10	Own	114	360 000	12 M€
	17	29 %	27 %	9	PU+PV	375		56 M€

GUIDE ENERGY PERFORMANCE CONTRACTING



EPC GUIDE and tools

GUIDE to Energy Performance Contracting (EPC) with contract-based partnership during the analyses phase

EPC toolbox - documents and templates for implementing EPC

Phase 0 Start-up and tender	Phase 1 Energy analyses	Phase 2 Implementation	Phase 3 Guarantee						
1. Guideline for EPC customers – how to start an EPC project									
2. EPC Presentation and Training material									
3. Tender for procurement of EPC supplier - Template	7. Partnership contract for phase 1, Analyses – Template								
4. EPC tender analyses – Template*	8. Project development report and energy analyses								
5. Baseline data –Template*	– Template								
6. Checklist for qualification and award criteria – Template*		9. Attachment to contract ter Template	ms for Phase 3, Guarantee -						

www.effect4buildings.se/toolbox/energy-performance-contracting/





E4B trigger real action and EE investments

Examples from Norway

4buildings

- EPC in Aurskog-Høland municipality (2-3 MEUR investment)
- Several Norwegian municipalities in the loop
- Mapping of EE in Innlandet as basis for future investments

Added Value for Norway

- Invited as presenter on two national seminars by Norwegian Energy Agency, Enova SF – and they participated in E4B events
- High degree of knowledge among stakeholders (ESCOs, municipalities, energy authorities)

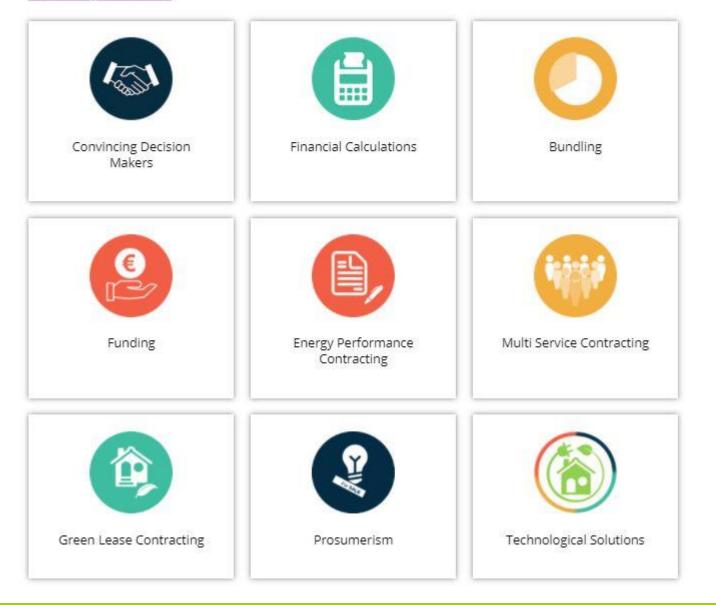
Examples from BSR

- Pilot projects in several countries
- International presentations of E4B and specific tools
- E4B EE investments reported by all countries



Toolbox EFFECT4buildings Combined Guide





Specific value for BSR

- User-friendly tools and instruments targeted at public building managers in BSR
- A well-established network (partners/ stakeholders)
- E4B tool evaluation, autumn 2020
- > 94 % will implement 1-3 tools in near future
- > 26 % will implement EPC within 2 years

Further needs

- Dissemination of results
 - 34 % want to know more about EPC
- Training courses for stakeholders
- Increase knowledge, build capacity
- More testing and pilot projects
- Best practise and success stories

www.effect4buildings.se

www.innlandetfylke.no/E4B





Contact

Liv R. Lindseth, LinKon AS Contracted by Innlandet County Council

innlandetfylke.no/E4B effect4buildings.se

liv@linkon.no +47 95 22 04 82