

Interreg
Baltic Sea Region



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Evropské seskupení pro územní spolupráci
Europejskie Ugrupowanie Współpracy Terytorialnej



Fotowoltaika dla wszystkich - PV 4 All

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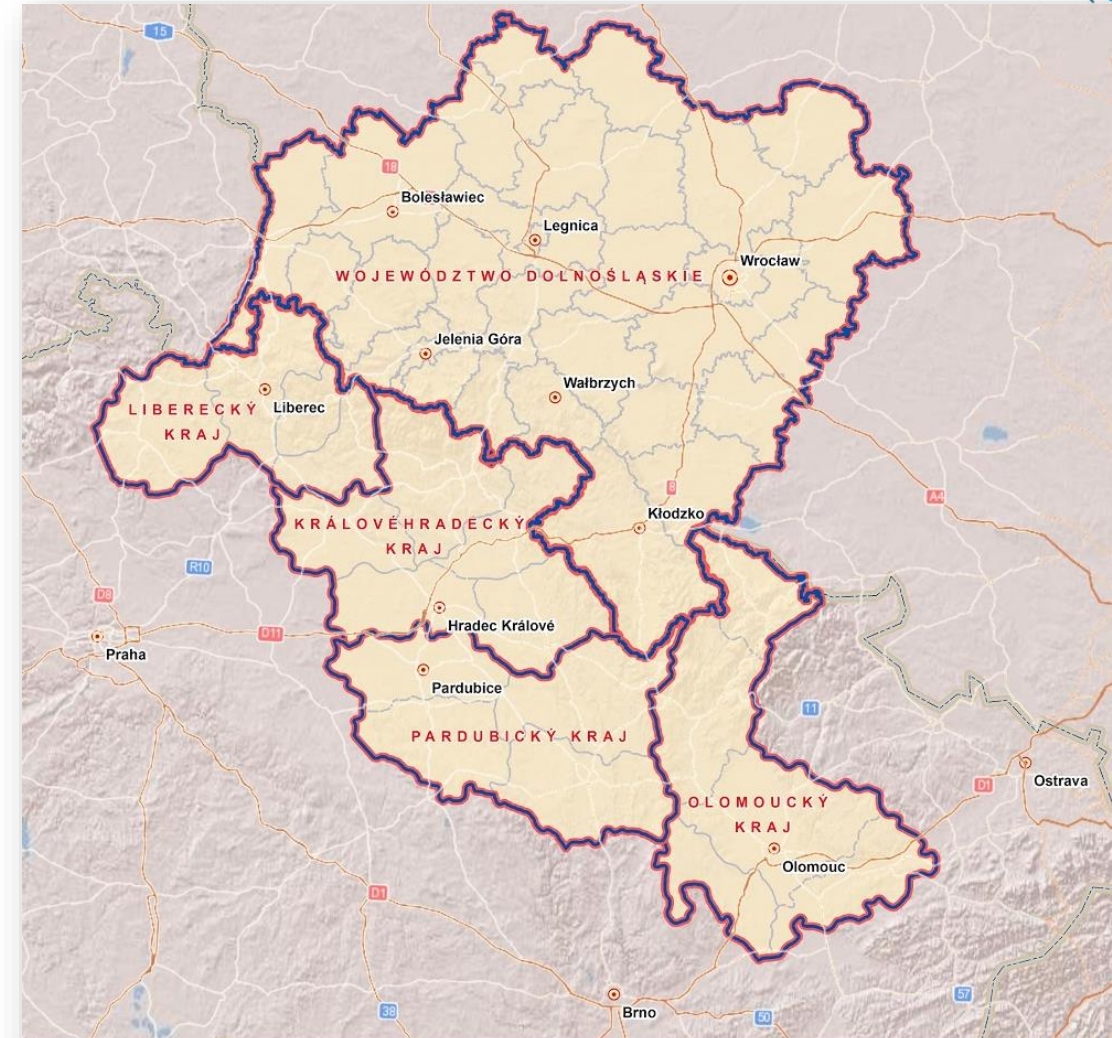
<http://www.euwt-novu.eu>

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Członkowie Ugrupowania

- Województwo Dolnośląskie
- Kraj Liberecki
- Kraj Kralowohradecki
- Kraj Pardubicki
- Kraj Ołomuniecki
- Euroregion Nysa
- Euroregion Pogranicza Czech Moraw i Ziemi Kłodzkiej – Euroregion Glacensis
- Euroregion Nisa
- Stowarzyszenie Gmin Polskich Euroregionu Glacensis



Realizowane projekty



Interreg Czechy-Polska

1. Wspólnie rozwiążemy problemy
 2. Jak ratujecie u Was?
 3. Akcent@net
4. Wykształcenie nie zna granic
5. Lecznictwo uzdrowiskowe na pograniczu czesko-polskim i jego wkład w rozwój regionalny – Spa 4 development
6. W kontakcie-Współpraca przygraniczna mimo przeszkód
7. Droga S3/D11 – nasz wspólny priorytet
 8. 15 lat razem
 9. Wspólnie dla Ukrainy

Interreg Europa Środkowa

1. BOOSTEE-CE - Boosting energy efficiency in Central European cities through smart energy management
2. TARGET CE - Capitalizing and exploiting energy efficiency solutions throughout cooperation in central european cities
3. Living border regions CE

Interreg Region Morza Bałtyckiego

1. PV 4 All

Interreg



Współfinansowane
przez Unię Europejską

Czechy - Polska

Interreg
CENTRAL EUROPE



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 **Interreg**
Baltic Sea Region



Photovoltaics for All



- **Okres realizacji projektu:**
01.10.2022 - 01.10.2024 (24 miesiące)
- **Budżet: 41 108,80 €**

- **Lawaetz-Foundation (Niemcy)**
- **EUWT NOVUM**
- **Sustainable Business Hub Scandinavia AB (Szwecja)**
- **Lithuanian Energy Institute (Litwa),**
- **Centre for Energy, Construction, Architecture and the Environment Ltd. (Niemcy),**
- **Benet Solutions Oy - Central Finland Energy Agency (Finlandia)**



LIETUVOS
ENERGETIKOS
INSTITUTAS



Lawaetz-Stiftung





 **Sustainable Business Hub**

 **Lawaetz-Stiftung**

 **ZEBAU**

 **BENET** 



Central Finland Energy Agency

 **LIETUVOS RESPUBLIKOS ENERGETIKOS MINISTERIJA**

 **NOVUM**

Panele fotowoltaiczne typu plug-in



Wyzwania

- Niski poziom pozyskiwania energii odnawialnej, w tym przypadku fotowoltaiki
- Uzależnienie od paliw kopalnych
- Rosnące koszty energii
- Długi proces wdrażania
- Brak akceptacji
- Brak zaangażowania obywateli oraz lokalnej społeczności

Rozwiązania





- Instalacje mniejszej mocy wykorzystywane przez właścicieli mieszkań/najemców
- Fotowoltaika typu plug-in dla małych i prostych inwestycji
- Ponowne wykorzystanie paneli ze względów środowiskowych
- Kompleksowe doradztwo i wsparcie / „Przewodniki energetyczne” dla fotowoltaiki




Atlas możliwości dla fotowoltaiki na małą skalę w pięciu krajach partnerskich - Niemczech, Finlandii, Litwie, Polsce i Szwecji

Part 2: Atlas (Selected projects)




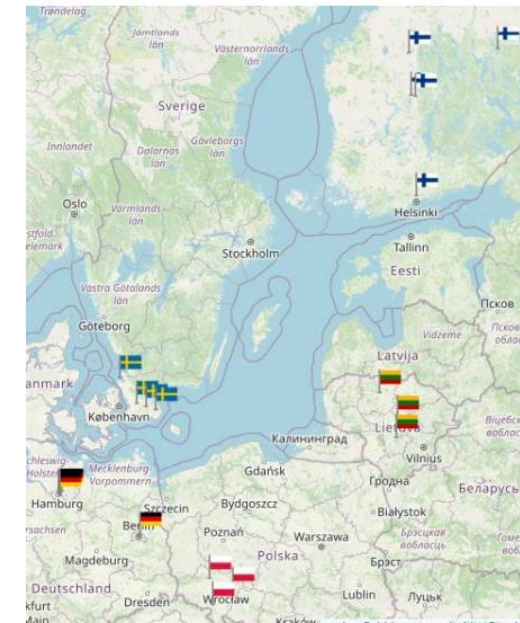


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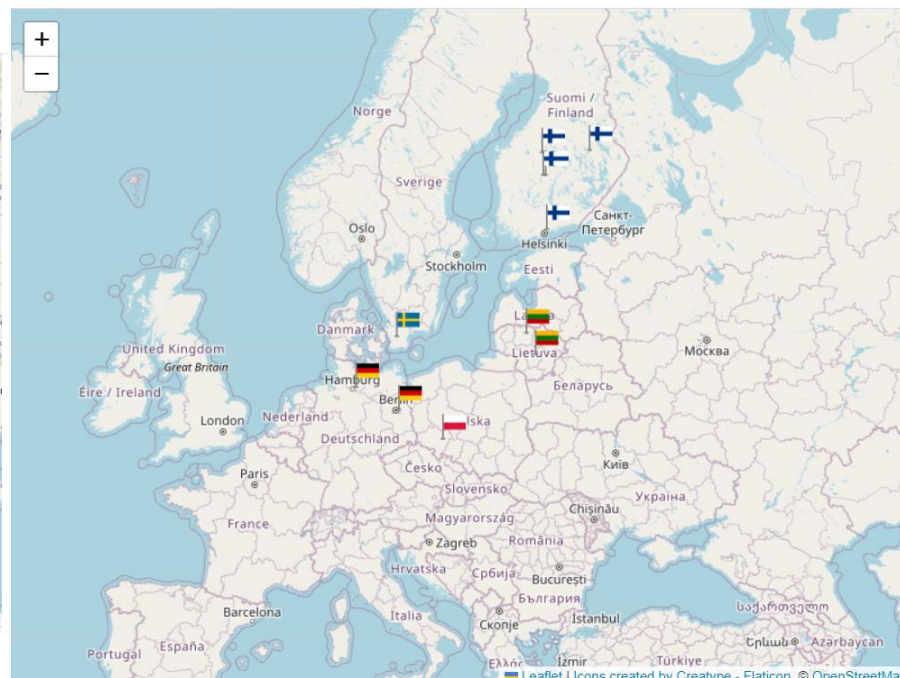

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Country	Poland 02
Title	Wroclaw University of Economics
Address	A dormitory of the Wroclaw University of Economics
Type of energy	Photovoltaic system
The purpose of installation	Investing in your own photovoltaic system will bring tangible economic benefits, contribute to reducing the carbon footprint on the environment. Photovoltaic technology is the answer to specific problems like overpricing and environmental pollution
Ownership	State
Technical aspects	The flat roof with roofing felt received 40 kWp, i.e., 117 photovoltaic panels. The photovoltaic system was protected according to the high standard of Multisun. The safety index is influenced using low-voltage technology from the manufacturer of the SolarEdge inverter, high-end protection and arresters from the manufacturer DEHN, and automatic fire circuit breakers. The whole project has been checked and approved by a fire expert.
Economic aspects	By producing its own energy, the University of Economics will gain savings of up to PLN 26,000 on its electricity bill annually.
Short description and interesting details	This is a pilot project commissioned by the Wroclaw University of Economics. The photovoltaic system was built on one of the dormitories in the city centre, a 10-minute drive from the Central Railway Station.
One- max. two photos, if available	





Atlas możliwości dla fotowoltaiki na małą skalę w pięciu krajach partnerskich - Niemczech, Finlandii, Litwie, Polsce i Szwecji



Atlas možnosti dla fotowoltaiki na małą skalę w pięciu krajach partnerskich - Niemczech, Finlandii, Litwie, Polsce i Szwecji

Country	Germany 01
Title	"2ndlifesolar"; recycling and reuse of retired PV/solar panels
Address	Hamburg, Germany
Type of energy	Self-sufficiency for production by using recycled PV-panels
The purpose of installation	Reuse of old panels to create new systems by much lower costs
Technical aspects	377 panels on a total area of 625m ² to produce up to 97.6 kW _p /a 40% self-sufficiency, power-storage is planned
Economic aspects	Pilot project for utilization of recycled panels (2020) In comparison to every year's power costs, 8000€ profit, counting in feed-in tariff. next step is providing power for e-mobility to reduce CO ₂ up to 32t/a
Short description and interesting details	First ever build "Recycling PV-System" on HME's (big local waste disposal company) rooftop. This company does reuse, repair and disposes retired systems in a real circular economy, without export to other countries.
One- max. two photos, if available	 

Country	Finland 02
Title	Dairy farm
Address	Kyyjärvi, Finland
Type of energy	52 kWp PV-system
The purpose of installation	Electricity for milk cooling and milking robots.
Technical aspects	Solar PV with installed capacity 52 kWp; Module type 310 Wp x 168 pcs. Annual electricity generation appr. 810 kWh/1 kW installed.
Economic aspects	Estimated payback during installation (2020) was 8-10 years, in current conditions and electricity prices could be 6-7 years.
Short description and interesting details	1 milking robot which operating 23 h/day and 1 h for washing. Milk must be cooled + 4 °C and in summer season fans cooling building. Modules have installed on the roof, east-south slope 132 pcs and north-west slope 36 pcs. The electricity production time is in mid of summer about 15 - 17 h.
One- max. two photos, if available	 



Toolbox – czyli skrzynka narzędziowa

30 September 2023

Toolbox PV4 All – Draft
First version

Germany

Information on local Summer Festivals (Germany)	
Target Group	
Tenants in socially disadvantaged neighborhoods	
Potential of target group	
Saving money for people with financial issues / empower more people to act proactively in the energy transition	
Issue	
In Germany Hard to reach as topics around energy transition attracts mainly people with financial capital/own real estate/higher education degrees	
Activity	
Short description Being visible with the topic in a context near the target group on a communication level coordinated according to the target group: providing low level information on summer festivals in the neighborhoods	
Responsible institution	
No explicit responsibility known	
Relevant partners	
<ul style="list-style-type: none"> Local associations local NPOs local administration that work with topics around climate change/energy transition or even in a social way in these districts	
Resources needed	
<ul style="list-style-type: none"> time of people to prepare information and to be present at the festivals if possible, use demonstrative models to attract attention and get people engaged, e.g. a plug-in PV module with a connected power consumer such as a microwave, lamp, etc. 	
Obstacles, barriers and restrictions	
Information is only the first step, as also small power plants such as balcony power plants are too expensive for lots of people from the target group	
Piloted in PV4All > outlook to second version	Yes / no
Title of the local implementation	Implementing country
Short description after implementation	
Recommendations	

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Finland

Educational webinars for pVs (Finland)	
Target Group	
Stakeholders, residents, landlords, property owners, municipal representatives	
Potential of target group	
Co-operation	
Issue	
Educational webinars	
Activity	
Examples of topics: Purchasing solar electricity for a small house (detached house), advantages and obstacles Purchasing solar electricity for townhouses and apartment buildings (housing companies and rental houses), advantages and obstacles Points to consider when purchasing small solar power systems.	
Responsible institution	
Benet Solutions	
Relevant partners	
<ul style="list-style-type: none"> Motiva Finnish Clean Energy Association (Lähienergiailitto) Finnish Solar Energy Association (Sary, Aurinkoenergiayhdistys ry) Regional Council of Central Finland (Keski-Suomen liitto) City of Jyväskylä (Jyväskylän kaupunki) JVA (Jyväskylän vuokra-asunnot) KOVA ry 	
Resources needed	
<ul style="list-style-type: none"> A computer and internet 	
Obstacles, barriers and restrictions	
Coordinating schedules and maintaining public interest	
Piloted in PV4All > outlook to second version	Yes / no
Title of the local implementation	Implementing country
Short description after implementation	

<https://interreg-baltic.eu/project/pvforall/>

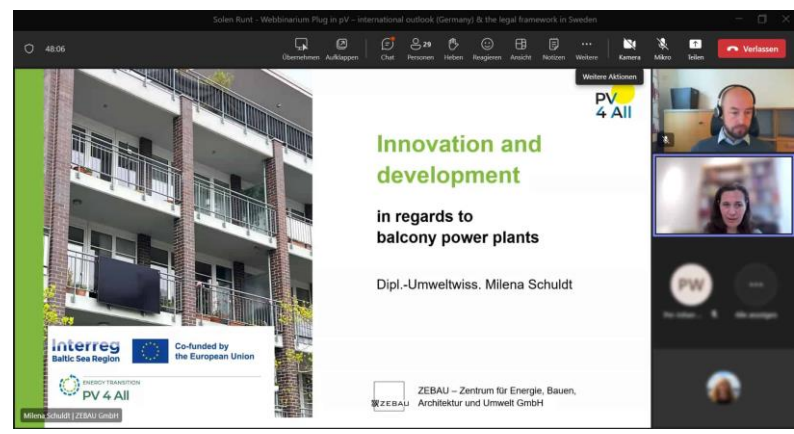
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Wizyty studyjne



Seminaria





WEBINARIUM ONLINE

**DOBRE PRAKTYKI W DOBIE ZMIAN KLIMATYCZNYCH
POLSKA-CZECHY- NIEMCY
WYMIANA DOŚWIADCZEŃ**



8 marzec 2024
10:00



**Tłumaczenie spotkania na
języki: polski, czeski, niemiecki**

REJESTRACJA

● monika.kozlowska@euwt-novum.eu



Dziękuję bardzo za uwagę

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