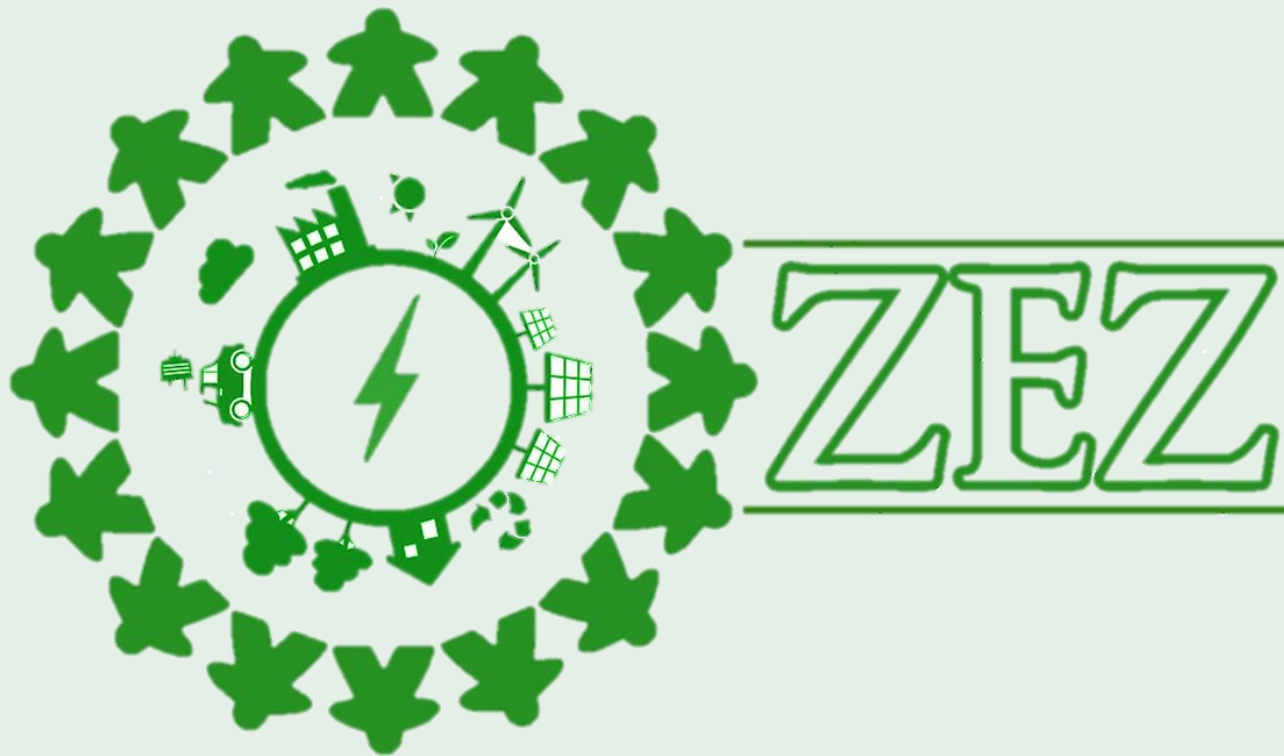


Green Energy Cooperative – Strategies for participation of citizens in RES community projects



Vienna, 11.11.2016.

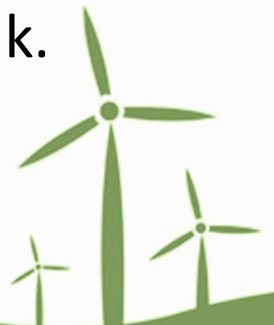
Green Energy Cooperative

Green Energy Cooperative is spinoff from UNDP Croatia office
(and started as a spin-off in UNDP project Developing energy
cooperatives in Croatia)

Promoting citizens engagement in RES community projects in
Croatia and Western Balkans.

Member of European Federation of Energy Cooperatives.

Co-founding member of Croatian Ethical Bank.



Competencies

Development of energy strategies and action plans

Innovative financing models for energy projects

Expert studies, analysis and technical due diligence

Technical and administrative assistance for local energy initiatives

European projects (Horizon2020)



Cross-cutting activities

1. Engaging with communities

Encouraging citizen participation through community energy

2. Legal framework

Recommendations for legal frameworks that encourages community power

3. Business models and social innovation

Developing effective business models for community financed energy projects



Citizen
engagement

WE Engage tool

WE Engage – online tool with social acceptance pathways for investors, developers, local communities & energy coops in RES projects

-> **Available in Croatian language! :: <http://www.we-engage.eu/hr/>**
To be considered for new RES projects in the region



Citizen
engagement

Energy advisors for energy poor households

-> Citizens taking active role in energy transition

Case study: Energy advisors in Koprivnica-Krizevci County

- 15 unemployed people trained for energy advisors
- After education, 13 people are employed by City of Krizevci for 6 months to make home-energy checks in 500 households
- Ready to be replicated and implemented at the national level
- Promotion of no-cost and low-cost energy efficiency measures



Citizen
engagement

Roundtables on community energy projects

Promoting renewable energy through DIY workshops and roundtables on community energy for citizens



Citizen
engagement

Sharing good practices

Presentation of citizen engagement activities in Croatia through various events and workshops in Energy Community region



Legal
framework

Recommendations for policy makers (1)

Recommendations on community energy for
Croatian Renewable Energy Act (2015)



**Recommendations for policy makers to encourage the
development of community and citizen owned energy
projects in Croatia**



Legal
framework

Recommendations for policy makers (2)

Examples..

- Make it mandatory in offering the possibility to citizens to own shares in new RES projects (based on good practice from Denmark and Belgium)
- Transition from current incentive schemes (Feed-in-tariff) toward schemes based on “net-metering”
- Providing a 200 MW quota for subsidizing RES projects which are community owned by citizens or local authority



Business
models

Barriers to RES

*administrative
barriers*

*technical and
technological
barriers*

*market
barriers*

*financial
barriers*



Business models

- Why innovative financing and business models to finance RES?
- Energy cooperatives
- Green energy suppliers
- RES + ESCO
- Crowdfunding for RES



Business
models

Energy cooperatives project

- Organized 20 seminars across Croatia, developed web site, Manual on setting up energy coops;
- International conference „100% renewable energy on islands” in cooperation with REScoop project;
- As a result in 2013, ten energy coops started in Croatia
- All energy coops are in early stage, and new financing and new business models needed;
- Focus of cooperatives: biomass, PV, electro mobility, biogas, wind, energy efficiency in buildings...



Business models

Energetske zadruge
Zajedničko ulaganje u održivu budućnost

POČETNA ZADRUGE NOVOSTI POLITIKA

Energetske zadruge

Što su energetske zadruge?

Energetske zadruge su udruženja lokalnih aktera (pojedinaca, kompanija, javnih ustanova, lokalnih samouprava itd.) koji zajedno razvijaju projekte obnovljivih izvora energije. Zajedničkim ulaganjem smanjuje se rizik investicije i dijeli se dobit od projekta.

Energetske zadruge promiču demokratski način odlučivanja o energetskim pitanjima. Cilj takvih zadruga je promovirati obnovljive izvore energije u vlasništvu lokalnih zajednica.



HEINRICH BÖLL STIFTUNG HRVATSKA

UNDP

ENERGETSKE ZADRUGE

EN ZAD

Energetske zadruge

★★★★☆ (7 ratings)

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Energy/Utility
Službena web stranica projekta "Osnivanje energetskih zadruga u Hrvatskoj"

818



Business
models

Alternative financing

Citizenergy – EU funded project, crowdfunding platform for renewable energy projects



Crowdfunding Academy (UNDP Croatia) – boot camp for developing projects and crowdfunding campaigns for renewable energy sources



Green energy suppliers

- Different business models are possible
- Buying and supplying RE at the same time – also through REScoops
- Opportunity for net-billing system
- Planning grid connection



Electricity Supply Ltd

Management board combines ZEF and ZEZ coop managers

Coowned by ZEF and ZEZ
Offers a service for connecting producers and consumers within ZEF and a service with outside electricity market

ZEZ is responsible for day-to-day management with ZEF supervision

Supply as non-profit service (similar to ebank)

Central hub for management of production and consumption of energy within ZEF

Business
models

RES + ESCO

Case study: Energy independent school

First ever net metering scheme in Croatia for setting up first energy independent school

Indiegogo: 10.000 USD;
total crowdfunding: 32.000 USD
Support from the local County: 45.000 USD





What's next

Plans:

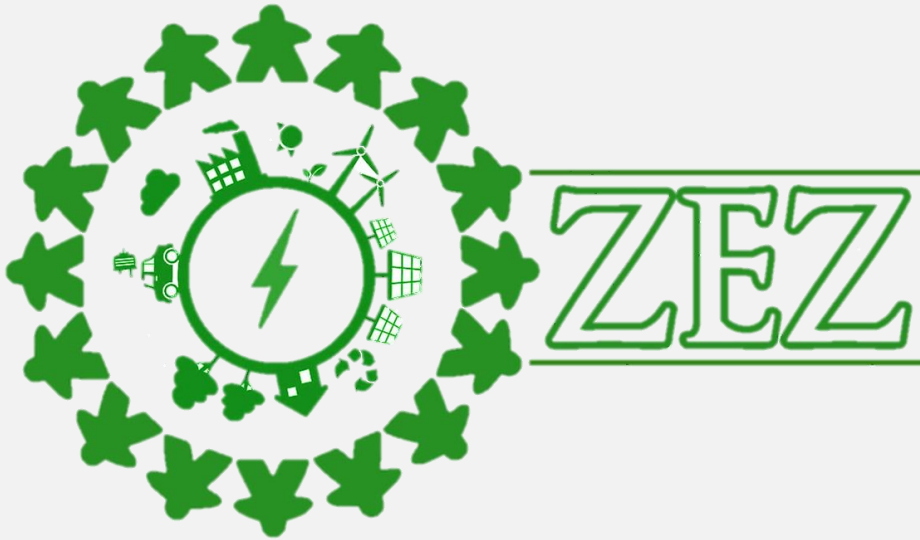
- Promotion of citizen led RES projects in Energy Community region
- Support on research on legal framework for suitable RES environment
- Application of community approach in developing RES projects in Energy Community region

Funding:

- Most of the activities are performed under EU projects and UNDP support – Funding for more research on community RES projects in Energy Community region is needed



Thank you!



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