

# Co2mmunity: Community Energy Projects

Community energy projects offer enhanced production of renewable energy from local sources (wind, solar, biomass, hydropower, geothermal) through active participation of local communities. Together, citizens co-finance, co-develop, and co-operate renewable energy plants, and foster sustainable energy distribution.

## 1. Title of the project \*

Implementation of biomass heating system in Alvitas community building

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## 2. Country \*

Lithuania

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## 3. Location (city, village, etc.), address \*

Alvitas village, Vilkaviškis regional municipality

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## 4. Short description of the project (3-5 sentences) \*

The country side community of Alvitas was lent the former building of Alvitas library for community needs. The building was not used for some time, cold, with outdated boiler and thus had very limited use. Biomass boiler was adapted for the use of straw fuel due to the fact that rural community could afford to use straw, which was usually left in the fields. The aims of the project were reducing heating costs, reducing environment pollution and using the residues of straw for local farmers, which earlier was used in the fields.

The project was performed together with buildings renovation project, where the old windows were replaces and some repairs done.

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## 5. Type of community

Urban

Rural

## 6. Type of project \*

Renewable electricity

Renewable heat source

Energy efficiency or energy saving (renovation of buildings etc.)

New technology piloting

Other: \_\_\_\_\_

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## 7. Technologies \*

- Bio CHP plant
- Biogas reactor
- Biomass boiler
- Central heating system
- Demand response automation system
- District heating network
- Electric battery
- Electric vehicle charging station
- Energy efficient windows, insulation etc.
- Heat pump for heating and/or cooling
- Internet application related to energy system or service
- Micro-grid
- Solar heat collectors
- Solar PV system
- Thermal storage
- Wind turbines
- Other: \_\_\_\_\_

## 8. System / service / outcome pictures (please write a link(s) to pictures)

[www.vilkaviskiovg.lt/modules/download.php?file\\_id=986](http://www.vilkaviskiovg.lt/modules/download.php?file_id=986)

## 9. Ownership model

- Fully financed and owned by a community
- Received financial support for investment and fully owned by a community
- Participation through buying shares
- Co-operative membership
- Participation through aggregator or other energy service provider (individual contract)
- Other: \_\_\_\_\_

## 10. Main stakeholders of the project

Alvitas Village community;  
Patunkiškės Village Community;  
Čičkai Village Community.  
Vilkaviškis municipality

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11. How was the project funded? (several answers possible)

- Community funds
- Bank loan
- Subsidies
- Government grant
- Municipal grant
- European funding
- Crowdfunding
- Other: Small projects programme of the World Environment foundation

12. Type of benefits and investment motives

- Direct income from selling energy
- Energy and cost savings
- Income from shares
- Climate and environmental benefits
- Adoption of new or smart technologies
- Improvement of indoor air quality or other living conditions
- Improvement of local economy
- Increase of community resilience
- Other: Applying old building for community needs

13. How was the rest of the community involved in the project? (several answers possible)

- Participated in discussions
- Opposed the project
- Supported the project
- Participated in the decision-making
- Received a revenue share
- Was not involved in any discussions

14. Did you receive help from any organisation, public institution or other similar project? If yes, from whom and how did they help you?

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15. Lessons learnt (NIMBY, institutional barriers, financial barriers, regulative barriers, etc.). How the project became successful after all? Any advices for other community energy project managers?

Cooperation with Agriculture department of the Municipality and Unions of Farmers, Rural Communities.

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## 16. Website link

<http://www.santaka.info/?sidx=2208>

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## 17. Contact information \*

Alvito g.7 Alvitas, Šeimenos sen., Vilkaviškio r. sav.

Phone: (370 612) 12742

E-mail: [alvitokrastas@gmail.com](mailto:alvitokrastas@gmail.com)

Chairman - Mrs. Angelė Blažaitienė

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## Technical and economic details

Technical and economic details of community renewable energy project.

**TECHNICAL DETAILS: 1. System size or purchase volume (kW, MW, amount of units): \***

n/a

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**2. System installation or product adoption time: month/year \***

2005

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**3. Expected system or service lifetime**

15 years

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**4. Energy production or savings/year**

n/a

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**5. Who is taking care of the Operation and Management?**

Community members

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**ECONOMIC DETAILS: 1. Investment or purchase cost:**

12164 Eur

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**2. Operation and Management cost/year**

n/a

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3. Total amount of subsidies received

12164

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4. Economic feasibility: Internal Rate Of Return (IRR), Net Present Value (NPV), Payback Period

n/a

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