

# 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 \*

Herbal Dessication building using solar collectors for the Full House Community in Panara

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## 2. Country \*

Lithuania

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

Panara Village, Varėna Regional Municipality

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

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## 5. Type of community



## 6. Type of project \*



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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)

[http://www.pnb.lt/projektai/mpp/veikla3/images/veikla\\_80.JPG](http://www.pnb.lt/projektai/mpp/veikla3/images/veikla_80.JPG)

## 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

Full House Community (Catholic religious community, aiming to provide social and psychological rehabilitation to people with alcohol and drug addictions), funded by charity and community means;  
Consultants – owner of Organic farm Sinkevičius; Dzūkija National Park, Botanical Garden of Kaunas Vytautas Magnus University; University of Agriculture; Chamber of Agriculture;  
Project implemented by the members of the Full House Community with Consultants.

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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: UNDP Global Environment Facility Small Grants Programme (GEF SGP)
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## 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: Enabling local business
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## 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?

A number of consultants (owner of Organic farm Sinkevičius; Dzūkija National Park, Botanical Garden of Kaunas Vytautas Magnus University; University of Agriculture; Chamber of Agriculture) participated in the project.

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?

A big number of stakeholders were interested in the success of the project, including the Catholic church, which has significant influence in supporting local business.

16. Website link

<http://www.pnb.lt/content.php?page=projektai/mpp/veikla3/index>

17. Contact information \*

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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): \*

140 m<sup>2</sup> solar collectors with annual heat generation 127,750 kWh. 2 heat storage tanks, each 1,000 ltr.

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

2008 year

3. Expected system or service lifetime

N/A

4. Energy production or savings/year

127,750 kWh/year

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

Full House Community

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

155,236 Euro total, including 22,011 Euro installations costs

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

10,137 Euro (full O&M, building+installations)

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**3. Total amount of subsidies received**

155236

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

N/A

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