

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 *

Hylke - Heat pump city in Europe of the year 2016

2. Country *

Denmark

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

Skanderborg

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

Hylke school, two Companies and about 25 Citizens, worked together in order to exchange their oil boilers with a district heating system based on an air sourced heat pump

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:

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)

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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

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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:

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: Saving the lokal school from being closed

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?

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16. Website link

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17. Contact information *

Skanderborg Kommune

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): *

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

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3. Expected system or service lifetime

4. Energy production or savings/year

100 ton CO2 savings per year

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

ECONOMIC DETAILS: 1. Investment or purchase cost:

2. Operation and Management cost/year

3. Total amount of subsidies received

420.000

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