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 *

BÜRGERSOLAR Neustadt in Holstein eG

2. Country *

Germany

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

Neustadt in Holstein

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

The BÜRGERSOLAR Neustadt in Holstein eG consists of the projects fire station and stone camp school. The plant at the fire station has a capacity of 98.73 kWp and was commissioned in June 2010. The annual plant yield amounts to approx. 90,000 kwh depending on sunshine duration. The electricity revenues can be used to supply around 30 households with electricity for one year.

The Steinkampschule plant has an output of 57.12 kWp. Since its commissioning in April 2012, the yield has been around 51,400 kWh, depending on sunshine duration. The electricity revenues can be used to supply around 18 households with electricity for one year.

5. Type of community

- (●) Urban
- ( ) Rural

6. Type of project *

- [x] 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
- [x] Solar PV system
- [ ] Thermal storage
- [ ] Wind turbines
- [ ] Other: _____

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

http://buergersolar-neustadt.de/html/bilder_feuerwehr.html; http://buergersolar-neustadt.de/html/bilder_steinkampschule.html

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

56 members

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
- [x] Other: N/A

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?

N/A

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?

N/A

16. Website link

http://buergersolar-neustadt.de

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): *

98,73 kWp and 57,12 kWp (2 plants systems), 48 households supplied

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

17.11.2009 (foundation), 06/2010 and 04/2012 (operation)

3. Expected system or service lifetime

N/A

4. Energy production or savings/year

90000 kWh and 51400 kWh

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

N/A

ECONOMIC DETAILS: 1. Investment or purchase cost:

Total investment - 280.000€ (first project); citizen investment - one share = 1000€, max. 25.000€.

2. Operation and Management cost/year

N/A

3. Total amount of subsidies received

0

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

N/A