

# 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 Städte Elmshorn & Schenefeld GbR

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## 2. Country \*

Germany

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

Schenefeld, Elmshorn, Holm

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

The citizens' project consists of four photovoltaic systems on the school and kindergarten in Elmshorn (construction phase 1), on the building yard in Schenefeld and on the sports hall in Holm (construction phase 2). The concept of the citizen solar plants works like this: Citizens set up an operator's company large plants and operate them on rented roofs. 100% of the electricity generated in this way is sold to the local grid operator. With their investment, the investors generate an attractive return.

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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)

1: 204x BP Solar 3170 NR 170W) panels and 3x SMA inverters; 2: 192x BP Solar 3170 NR (170W) panels and 3x SMA inverters; 3: 307x IBC Solar Yingli 180? (180W) panels and 6x SMA inverters; 4: 360x IBC Solar YL 180P-23b (180W) panels and 6x SMA inverters;  
<http://www.buergersolar.org/ebs-elmshorn.htm>; <http://www.buergersolar.org/drk-kita.htm>; [http://www.buergersolar.org/bauhof\\_old.htm](http://www.buergersolar.org/bauhof_old.htm);  
<http://www.buergersolar.org/holm.htm>

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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

17 members; ProBürgerSolar

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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: N/A

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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: \_\_\_\_\_

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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?

N/A

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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?

N/A

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## 16. Website link

<http://www.buergersolar.org/start.htm>; <https://www.abendblatt.de/region/pinneberg/article107535155/Nun-zapfen-auch-die-Schenefelder-die-Sonne-an.html>

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## 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): \***

1: 55,26 kWp; 2: 32,64 kWp; 3: 55,26 kWp; 4: 64,8 kWp (4 plant systems);

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

05/2008, 07/2009 and 12/2009

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**3. Expected system or service lifetime**

N/A

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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?**

ProBürgerSolar

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

Citizen investment - one share = 1350€

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2. Operation and Management cost/year

N/A

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3. Total amount of subsidies received

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

N/A

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