

# 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 \*

Bostadsrättsföreningen Lyckansberg

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## 2. Country \*

Sweden

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

Växjö

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

The housing association Lyckansberg's solar cell plant started to produce electricity on April 8, 2018. The plant generates electricity for common purposes, such as lighting, laundry cabins, sauna and other functions in the association hall, giving the same amount of electricity consumed in one year (approximately 55,000 kWh). The repayment period is estimated to be approximately 12 years and the guaranteed lifespan of the solar cells is 25 years.

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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)

<https://www.hsb.se/contentassets/d92bb2a335624da5aa03895d84df2fa4/den-storre-ytan-med-solceller..png>

## 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

The housing association Lyckansberg, PV solar cell installer, Elbolaget, etc.

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: \_\_\_\_\_

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?

- HSB Sydost

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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?

- Anchoring work in the board and association important. - Workgroup is required. - Economy; many uncertainties, unclear and bad rules. - Good inquiries are a prerequisite. - Handbook is requested! - Complicated with electricity for housing.

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16. Website link

<https://www.hsb.se/sydost/brf/lyckansberg/miljo/solceller/>

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17. Contact information \*

Anders Lundgren

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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): \*

53 kW

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

1 month

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3. Expected system or service lifetime

25 years

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4. Energy production or savings/year

53 000 kWh/year

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

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ECONOMIC DETAILS: 1. Investment or purchase cost:

800 000 SEK

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2. Operation and Management cost/year

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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

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