

Action plan

County of Blekinge, Sweden

Action plan Enerselves Energy Agency of Southeast Sweden

Enerselves project, Policy instruments for energy self-consumption in buildings, have the aims to:

- Promote new policies or improve existing policies to support the integration of renewable energy into buildings for self-consumption financed by the Structural Funds and other EC instruments.
- Design policies to promote only those renewable energies for self-consumption technologies with greater benefits in each region.
- Support the integration of RES in buildings

Produced by each region, the **action plan** is a document providing details on **how** the lessons learnt from the cooperation will be exploited to improve the policy instrument tackled within our region. It specifies the nature of the actions to be implemented, their timeframe, the players involved, the costs and funding sources.

In Sweden, geothermal energy for heat and solar cells for electricity generation is generally the most profitable alternative for own energy production for self-consumption in buildings. In a more large-scale perspective, biofuel is the best solution for district heating. The use of geo-energy is currently common in Sweden and we therefore see that the action plan should focus on measures that stimulate investments in solar energy production and storage. In the agricultural industry, we also see a potential for biogas production of heat and / or electricity for agricultural buildings. A strong wish from our stakeholders is also to build a platform for knowledge sharing and for the development of joint learning projects.

Part I – General information

Project: Enerselves

Partner organisation: Energy Agency for southeast Sweden

Country: Sweden

NUTS2 region: Skåne och Blekinge

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Part II – Policy context

The Action Plan aims to impact:

<input type="checkbox"/>	Investment for Growth and Jobs programme
<input checked="" type="checkbox"/>	European Territorial Cooperation programme
<input type="checkbox"/>	Other regional development policy instrument

Name of the policy instrument addressed: ERDF Skåne and Blekinge the low-carbon economy.

Part III – Details of the actions envisaged

Measures to influence content in the ERDF

ACTION 1: ERDF Definition of priorities

1. Background

Energy Agency of Southeast Sweden has, by the help of ENERSELVES been able to take part of the meetings of the regional group of stakeholders for energy issues "Klimatsamverkan Blekinge". This regional group consists of, among other, regional authorities, responsible for energy actions plans. Our influence of these action plans will make it possible for us, also to influence which areas to be prioritized by the ERDF. It is an important tool to influence the priorities in the ERDF for Skåne and Blekinge, which do not have clear priority for energy production for self-consumption or storage in the current program period 2014-2020. Our aim is to influence the priorities with in the ERDF. We can also see that our partner regions in Europe design their calls in a different way. It's obvious that a higher level of investment is accepted in projects regarding low-carbon economy in other countries. Therefor we would like to enhance the possibility to allocate more support to investments related to implementation of new technology, demonstration sites etc. Other regions also have calls that are designed toward a certain kind of measures and different calls can have different alignments. That would probably make it more attractive to search for support from the ERDF. In addition, our engagement in the group "Klimatsamverkan Blekinge", will also give an influence on the content in coming programme periods.

2. Action

- Influence and inform relevant actors, for example The Swedish Agency for Economic and Regional Growth, Region Blekinge, The County Board about the benefits with energy production for self-consumption and energy storage with the objective to have priorities for prosumers and energy storage. Meetings and dialogue with relevant actors, among other in Klimatsamverkan Blekinge.
- Participate in Klimatsamverkan Blekinge's official group and preparation group to be able to influence and participate in the work with the new climate and energy strategy.
- Monitor and respond to relevant referrals in Blekinge related to the topic.

3. Players involved

Energy Agency of Southeast Sweden, The Swedish Agency for Economic and Regional Growth, Region Blekinge

4. Timeframe

2018-2020

5. Costs

Included in the work with ENERSELVES

Suggestion of actions that could result in an application to ERDF low carbon economy

ACTION 2: Application of a project for establishment of a network/platform about energy in buildings to enhance cooperation in Blekinge

1. Background

The experience gained from stakeholders is that there is currently no platform for knowledge building and exchange of experience between major property owners in Blekinge. The stakeholder meeting in Enerselves have shown us that there is a need to meet regularly to exchange experiences. Among other, we organised a stakeholder meeting on May 8 2018 in the city of Karlshamn, in the framework of ENERSELVES, where one important topic for the day concerned the establishment of a network about energy in buildings in Blekinge. Other stakeholder meeting we have organised, some of them in collaboration with other partners, have also partly had the purpose to discuss the establishment of such a platform. Thanks to meetings and other in the framework of ENERSELVES, the decision for an application could be taken. Many stakeholders also find it difficult to apply for contributions from the ERDF low carbon economy fund. Through a platform we can find new ideas and develop new common learning and demonstration projects. We can also work together with

financing and applications from ERDF or other funding resources. Funding of projects is an important issue and it is interesting to compare with financing opportunities in the other Enerselves regions. Our stakeholders that joined us during the exchange experience in the interregional events have seen differences between how the ERDF funding is used in different countries. A conclusion is that we need to get better in Sweden to use ERDF for more construction related projects and production of renewable energy.

The University of Blekinge has research in renewable energy linked to transport. A development towards cooperation with property owners and research focused on renewable energy in buildings would be desirable. There is also an energy cluster in the county of companies that offer energy-efficient solutions for both energy efficiency and renewable energy production. We would like to enhance more cooperation to achieve a result with sustainable and energy smart buildings.

2. Action

Step 1. June 2018 - February 2019

Do a preliminary study on how to build a platform for collaboration on energy issues in buildings, mapping of which areas are interesting to work with for stakeholders in Blekinge.

Step 2 Make an application to the Regional Fund to run a network / platform during the period of 2019 - 2021. The purpose of the network is to build skills on smart buildings and own energy production among property owners and suppliers, to support information about funding opportunities, to develop and run various learning projects and to take joint project applications.

3. Players involved

Energy Agency for southeast Sweden coordinating the platform. Active partners in a platform will be municipalities and municipal housing companies, Blekinge University of Technology, Netport Energy cluster and Region Blekinge. Other public estate owners and energy companies will be invited to the platform. Private estate companies and companies within the energy sector will be invited to educations and to participate in new projects.

4. Timeframe

Step 1. Preliminary study June - December 2018, reporting and application latest February 2019

Step 2. Work with developing and managing the platform 2019 - 2021 if the application is granted.

5. Costs

The budget for step 1 is 18 000 Euro.

The budget for step 2, compilation of the application, is included in step 1.

6. Funding sources

Step 1 is financed 50 % ERDF and 50 % from Region Blekinge development fund.

Step 2 ERDF 50%, relevant municipalities and the County Administrative Board altogether 50%.

ACTION 3: Application of a project "Sol i Syd 2.0"

1. Background

Energikontor Sydost has been one of the partners in the project "Sol i Syd" (Sun in the South). Some of the meetings and workshops during the lifetime of ENERSELVES have been co-organised by ENERSELVES and Sol i Syd. By discussions in these two projects and in the regional group of stakeholders "Klimatsamverkan Blekinge" it has been decided to go on with a new application, based on outcomes from the first one and actions in ENERSELVES. Through "Sol i Syd 1.0" opportunities are created to work to strengthen the solar cell industry and to increase the interest of architects to integrate solar energy into new real estate, including through competence development. In the project, training will also be carried out for companies that want to invest in solar systems to strengthen their skills as clients and meetings with network companies to discuss how information about rules for connection can be clarified. Through the County Administrative Board of Skåne and Blekinge, the possibilities for regional environmental objectives related to the share of solar energy are investigated and through up-to-date monitoring of the number of installed solar cell installations in Skåne and Blekinge, current and credible energy statistics can be communicated and monitored.

2. Action

Now a new application is being planned to further develop "sun in the south" in a new phase of the project. The main target group for educational activities is real estate owners.

3. **Players involved**

Energy Agency for Skåne – project coordinator
Energy Agency for southeast Sweden – project managing together with Energy Agency for Skåne
County administrative boards in Blekinge and Skåne participating in and promoting the project
Real estate owners, companies working with solar systems, rescue services, construction companies as targets for education events.

4. **Timeframe**

Application period December 2018 - February 2019. (2019-2021 for implementation of the project)

5. **Costs**

The applied budget for the project will be appr. Euro 500 000.

6. **Funding sources**

We will apply for ERDF 50% and regional fundings (Region of Blekinge and/or Skåne) 50%.

Suggestion of actions with other financing than ERDF low carbon economy

ACTION 4: Stimulate farmers to invest in biogas and solar energy production for agricultural buildings

1. **Background**

Regional stakeholders have got impressions from ENERSELVES study visits and presentations on interregional events, and events in the region organised in the framework of ENERSELVES. One topic is to stimulate housings and businesses with big areas of their roofs to install photovoltaics. The impressions from other regions in the ENERSELVES consortium have been important, seen e.g. from the IR Surveys, since Sweden is a low developed country regarding photovoltaics. In the counties of Blekinge and Kalmar there is a lot of farmers. In the region there is, according to a regional biogas alaysis, a potential for producing biogas on either on farm level or as common projects with several farmers. Within the agricultural sector there are also many buildings with large roof surfaces that could be used to produce solar energy. Together with the county government in Kalmar we would develop a concept for seminars with examples of best practise from biogas plants on farm level, information about solar energy and financing solutions. It is important to stimulate and promote an interest among farmers. There is for example a rather new plant at a farm in Köpingsvik that are producing both electricity and heat for the buildings in the farm. Those farmers could be part of a campaign to inspire other farmers.

2. **Action**

Developing a concept for seminar about biogas and solar energy adapted for farmers
Promote and conduct at least one seminar in Blekinge
Follow up the seminars with offering energy advice to the participants

3. **Players involved**

Energy Agency for southeast Sweden coordinating the seminars together with the county government
Local energy and climate advisors in the municipalities of Blekinge, being a cooperation partner when we should organize the seminars and advisors to interested farmers
The organization LRF is important to invite to a dialogue about the event
Farmers that will be invited

4. **Timeframe**

Late autumn 2018 – 2019

5. **Costs**

Working time within the Enerselves project
Minor costs for lecture, venue and food.

6. **Funding sources**

Enerselves and resources from the municipal energy and climate advisors

ACTION 5: Application of a project “Climate ambassadors”

1. The background

In the exchange with the other regions within ENERSELVES, regional we and regional stakeholders have compared, among other things, legislations, grant opportunities and conditions for individual households to become prosumers. We have found that both economic instruments and other efforts are needed to encourage individual households to invest in solar energy. Based on these discussions which have been based from ENERSELVES interregional and regional events, it has been decided to go on with an application for a new project. Together with Studieförbundet, Ronneby municipality, Olofströmshus and the local energy and climate advisors, Energy agency for Southeast Sweden discusses opportunities to raise households' interest in energy issues.

The project will concern energy advising and climate coaching for households.

Climate Ambassadors are a climate and lifestyle enhancement in the private sector's most carbon-consuming area; the car, the steak, the residence and the consumption. It is directly linked to the efforts of many municipalities to become fossil-free until 2030/2050 and the work on sustainability in vision 2030. Blekinge's regional climate and energy strategy also focuses on engaging more people/actors in the energy transition focusing on the consumer perspective and supporting behavioural change in individuals.

Previously similar projects in Sweden where combined energy advice with climate coaching has reduced private carbon emissions while strengthening the quality of life, hope and environmental motivation.

- Participants get practical climate advice, both in groups and individually, on how they can change their lives to become CO₂ low-cost consumers.

- Participants get mental coaching to optimize and rejoice to top-up and achieve their goals. The mental tools take participants from a state of environmental gain to a sense of hope and confidence in the future.

The method is conducted in a study group for support and community. The climate ambassadors allow participants to learn about the energy solutions. Within the framework of Enerselves, Energy Agency of Southeast Sweden sees that we can support the development of advice linked to the residence. Here are opportunities to look at energy efficiency and opportunities for individual households or residential areas to become prosumers.

2. Action

- Producing educational material, preparing study meeting with 2 different groups of households.
- Advertise and recruit participants
- Working with two schools/preschools in the actual municipalities to develop energy lessons
- Phase with study meetings, energy advisory meetings and mental coaching with every participating household, energy meetings to putting up individual climate objectives in a short term and in the term of 10 years and identifying measures.
- Evaluation of how much the participating household's climate impact has decreased

3. Players involved

Studieförbundet (project coordinator)

Energy Agency of Southeast Sweden support with expertise about energy and climate questions, developing educational material together with Studieförbundet.

The municipality of Ronneby and the municipal housing company Olofströmshus, promoting the project and helping us to recruit schools and participants), advisory service from the local energy- and climate advisors.

4. Timeframe

Development of project idea and application: End of 2018

Implementation, if granted: 2019

5. Costs

The applied budget for the project will be appr. Euro 75 000.

6. Funding sources

The national funding scheme “Klimatklivet” 70 %, local financing from the municipalities Ronneby and Olofström 30 %.

ACTION 6: Stimulate associations for cooperative housings to invest in solar energy production

1. Background

Regional stakeholders have got impressions from ENERSELVES study visits and presentations on interregional events, and events in the region organised in the framework of ENERSELVES. One topic is to stimulate housings and businesses with big areas of their roofs to install photovoltaics. The impressions from other regions in the ENERSELVES consortium have been important, seen e.g. from the IR Surveys, since Sweden is a low developed country regarding photovoltaics. The power production in Sweden is traditionally large scaled, where around 90 % of the production originates from nuclear and large scaled hydro power stations. Photovoltaics counts for less than 1 % of the Swedish power production. It means that most of the potential is unused. However, the interest for implementation of photovoltaics is growing, and the number of installations is increasing, especially in the south parts of the country. Cooperative housings have often big areas on the roofs of their buildings, and in addition, need of the produced power in common premises and household appliances, e.g. washing machines. Furthermore the implementation of photovoltaics on the roofs for these associations implies publicity since the cells can have big dimensions and are seen by many people and several members in the associations are involved.

2. Action

Developing a concept for seminar about solar energy adapted for associations for cooperative housings
Promote and conduct at least one seminar in Blekinge
Follow up the seminars with offering energy advice to the participants

3. Players involved

Energy Agency for southeast Sweden coordinating the seminars.

4. Timeframe

Late autumn 2018 – 2019

5. Costs

Working time within the Enerselves project
Minor costs for lecture, venue and food.

6. Funding sources

Enerselves and regional actors.

Signatures:

The partner responsible for drafting the ENERSELVES regional action plan of Blekinge county

CEO Christel Liljegren

Date:

The Head of the Managing authority of the Regional Operational program of Skåne-Blekinge 2014 – 2020 confirming acknowledgement of the current action plan

Mr Henrik Berven

Date: