

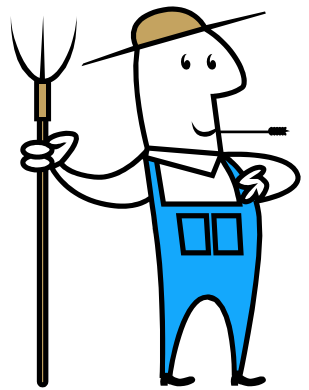


Energigården

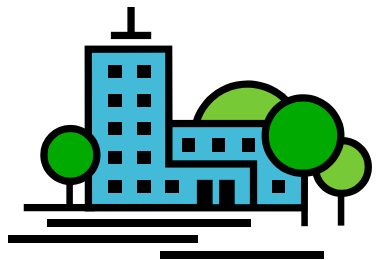
Energigården

- The program was established in august 2005
- Energigården - the driving force to develop the market for farmers to deliver kWh to end users.
- Financing: County administrative board, LRF, Region Västra Götaland

Farmer/agri company



Customer



Coordination:

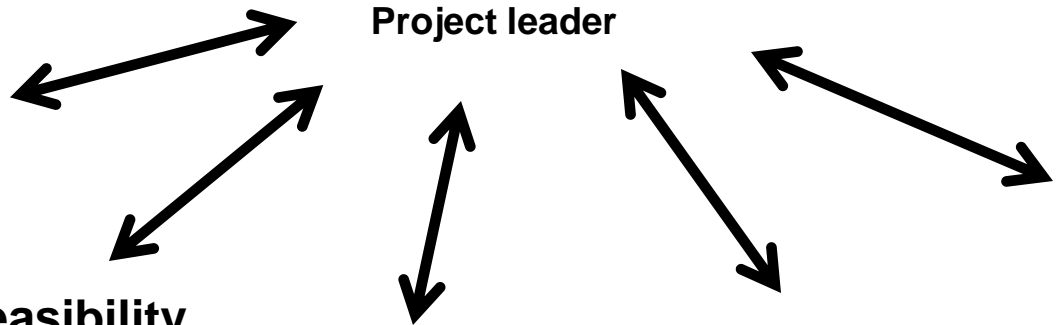
- Network
- Communication
- Project initiation
- Seminars

Studies/ analyses



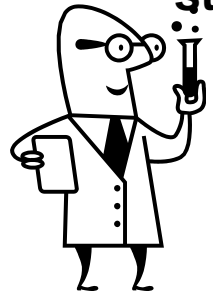
Steering Committee

Project leader



Training & business development

Feasibility studies



Technology development
Project initiation



Information, advisory service





Energigården

Goals



- National goal 20 TWh renewables in year 2020. We want farmers in Västra Götaland to produce 5 TWh of those.
- That would be replacement of 3-4 billions Sek (2005) wearth of fossile fuels.



Energigården



Effects on employment in VGR

5 TWh renewable energy includes:

- 500-600 millions Sek investments per year until 2020
- 4 000 new jobs until 2020
- 2 600 for constructions
- 1 400 jobs are then to keep the production. Farming, transports, processing, maintenance etc.



Energigården

Project actors



- **LRF, The Federation of Swedish Farmers**
- **Lantmännen**
- **County administrative board**
- **Biological vocational college in Skara, BYS**
- **Fjäderfäcentrum**
- **ÄFAB**
- **SP, Technical Research Institute of Sweden**
- **Regional Energy Agency of West Sweden**
- **Agricultural second uppendary schools in Region Västra Götaland**
- **TRAAB**
- **Grön affärsutveckling Norra Bohuslän**
- **Göteborg Energi**
- **Chalmers university of technology**
- **Swedish Rural Economy and Agricultural Societies of Skaraborg, Sjuhärad and West**
- **LRF Konsult**
- **KanEnergi Sweden AB**
- **Green 4U**
- **IVL, Swedish Environmental Research Institute**
- **Biogas Väst**
- **JTI, Swedish Institute of Agricultural and Environmental Engineering**
- **SLU, Swedish University of Agricultural Sciences**
- **Ethics & Energy**
- **Södra**
- **Vattenfall Power Consultant**
- **Odling i Balans**
- **Cellma AB**



Energigården



Environment VGR

5 TWh reduction of fossile fuels means 1,1 miljoner tons of carbon dioxide per year.

That is 11 % of current situation in Västra Götaland



Energigården



Target group

Everybody involved from producer to end consumer of energy.

Focus on farmers, researchers, advisers, producers of equipment and municipalities.



Energigården



Local meetingplaces

Energigården should create places for target groups to meet each other and talk.

- How is the situation in the area?
- Different alternatives to use renewable sources?
 - What are the potential in the area?
- What are the questions? Lack of knowledge?
 - Action plan



Energigården



New education

We started a new national based education in august 2006. Biotechnical education

Producer, adviser, salesman, installer, retailer

Head of production on biogas facilities



Energigården



Operational plan 2009-2011

Ongoing work

Activities and subjects	Energy efficiency	Solid biofuel	Liquid biofuel	Biogas	Sun, wind, water
<i>A. Information</i>					
<i>B. Competence development</i>					
<i>C. Technique development</i>				Biogas Väst	
<i>D. Energy transition of society</i>					



Energigården



Energigårdens mission

- Create networks and local arenas to promote development in the area of renewable sources.
- Be a center of competence, somebody to ask, we should know what's going on.
- Lead the way to practical action, budgets, analyzes, proof.
- Set focus on the entrepreneurs initiatives – good examples
- Coordinate development resources.
 - Create action!!



Energigården



Contact

www.energigarden.se

Thanks for your time!