

## Solar panels and cogeneration for Weidenaar Meat

60% of Weidenaar's energy use is generated by the company itself, by producing renewable energy from solar panels and combined heat and power (CHP).



### **Description of the case study:**

Using energy consciously is part of Weidenaar's approach to corporate social responsibility. Since April 2010 there are solar panels on the roof of Weidenaar's building. The energy produced here is mainly used in the company's own production departments.

The 68 DEC Risun PV solar panels on the roof provide an annual yield of more than 13,000 kWh. Through a data network, the output of the solar panels can be visualised.

In addition to the solar panels, Weidenaar also generates energy through cogeneration (combined heat and power, CHP). The cogeneration plant has a heat buffer of 2,000 litres, and produces 70 kW of electrical power and 115 kW of thermal power. Residual heat that is released during the production process is used for the heating of the meat drying chambers, and to heat cleaning water.

Other sustainable solutions applied by Weidenaar include minimising road transport by only using meat from the Netherlands and by combining the distribution of the products to supermarkets with other companies that supply to the same retailers.

### **What was the type of green solution? Please select the type of solution.:**

Technology/Product [1]

### **What does the featured solution contribute to?:**

Resource efficiency

### **Which technology area(s) does the case study belong to?:**

Energy production [2], Alternative energy [3], Solar energy [4]

### **How was the green solution financed?:**

Private funds [5]

### **Emission reductions description:**

The CHP plant alone leads to a reduction of more than 360 tonnes of CO<sub>2</sub> emissions per year.

### **Energy consumption description:**

60% of Weidenaar energy use is generated by the company's own solar panels and CHP plant.

### **Technical and capacity requirements?:**

Weidenaar outsourced the installation and implementation of the CHP and solar panels to external companies. Multi Tech Service Niawier arranged this together with Mensonides Installatie and Buderus. Therefore, Weidenaar did not suffer from major problems in the process.

### **Regulatory framework prerequisites and constraints?:**

The purchase and installation of solar panels and CHP has been arranged without interference by the government. There has been virtually no contact with governments.

### **Partners:**

Company name

- [Weidenaar's family business](#) [6]

### **Relationship type:**

Company that went 'green' by adopting the green solution

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### **Links**

[1] <http://greeneconet.eu/type-green-solution/technologyproduct>

[2] <http://greeneconet.eu/technology-area/energy-production>

[3] <http://greeneconet.eu/technology-area/energy-production/alternative-energy>

[4] <http://greeneconet.eu/technology-area/energy-production/alternative-energy/solar-energy>

[5] <http://greeneconet.eu/financing/private-funds>

[6] <http://greeneconet.eu/weidenaars-family-business>