



equienercoop

Société Coopérative - Junglinster





# Who are we?

- Inhabitants of the Junglinster municipality (6700 inhabitants)
- Initiated by the local energy commission on behalf of the mayor's council
- Cooperative founded by 9 citizens on 19th July, 2012
- Today number of members : 142





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Founded on 19th July, 2012

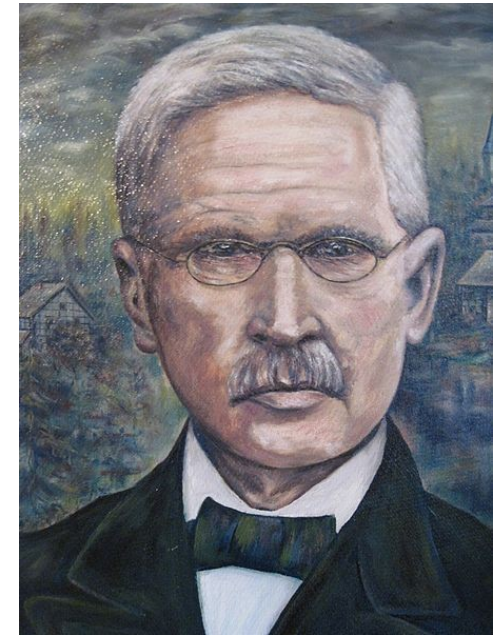


Founding members (from left to right):  
Paul Keiffer, Paul Estgen, Jean Boden, Simone  
Maillet-Polfer, Jules Muller, Stan Pieters, Gilbert Kapp,  
Christian Goebel, Romain Reitz





# EquiEnerCoop



1818-1888

- Cooperative based on Friedrich Wilhelm Raiffeisen idea, the founder of the cooperative movement of credit unions  
"The money of the village belonged to the village" (*"Das Geld des Dorfes, dem Dorfe"*)
- Self-help, self-governance and self-responsibility as a "business concept" Friendly Societies





# Definition of a cooperative



A cooperative is an autonomous association of persons united voluntarily to meet their common economic, social, and cultural needs and aspirations through a jointly-owned and democratically controlled enterprise.





# Values of a cooperative



**Co-operatives are based on the values of *self-help, self-responsibility, democracy, equality, equity and solidarity.***

**In the tradition of their founders, co-operative members believe in the ethical values of *honesty, openness, social responsibility and caring for others.***





# Principles of a cooperative



**The co-operative principles are guidelines by which co-operatives put their values into practice.**

- 1. Voluntary and Open Membership**
- 2. Democratic Member Control**
- 3. Member Economic Participation**
- 4. Autonomy and Independence**
- 5. Education, Training and Information**
- 6. Co-operation among Co-operatives**
- 7. Concern for Community**





# EquiEnerCoop



- United Nations' Year of Cooperatives – 7th July 2012
- 1st Energy cooperative run by citizens in Luxembourg
- Consider : > 580 new citizens' energy cooperatives in Germany in the past 5 years – 3 new cooperatives created per week







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## Principles of the EquiEnerCoop cooperative

- Each member has one vote, regardless of the number of shares they own in the cooperative → democratic principles → Friendly Society → Benevolent Society
- Prevents external takeovers or dominant stakeholders
- Cooperative structure allows multiple projects with the same and/or new members
- Membership shares valued at 25€
- Capital required for projects is raised through individual loans from the members to the cooperative
- Assembly general defines co-opting procedures for new membership
- Executive directors are elected by the assembly general





# Mission of the EquiEnerCoop

## Goals

- Increase the consumption of renewable energy by building local facilities
- Promote energy efficiency
- Create the possibility for local people to invest into renewable energy
- Create regional value: money spend for energy procurement stays in the region





# The mission

- Municipality made available the roofs of public buildings
- Citizens may select a PV system:
  - to operate contribute through solar energy to green energy production
  - To make an active contribution to CO2 reduction
  - To rely on sustainable and local investment with attractive interest rate
  - Together on the path of towards energy independence





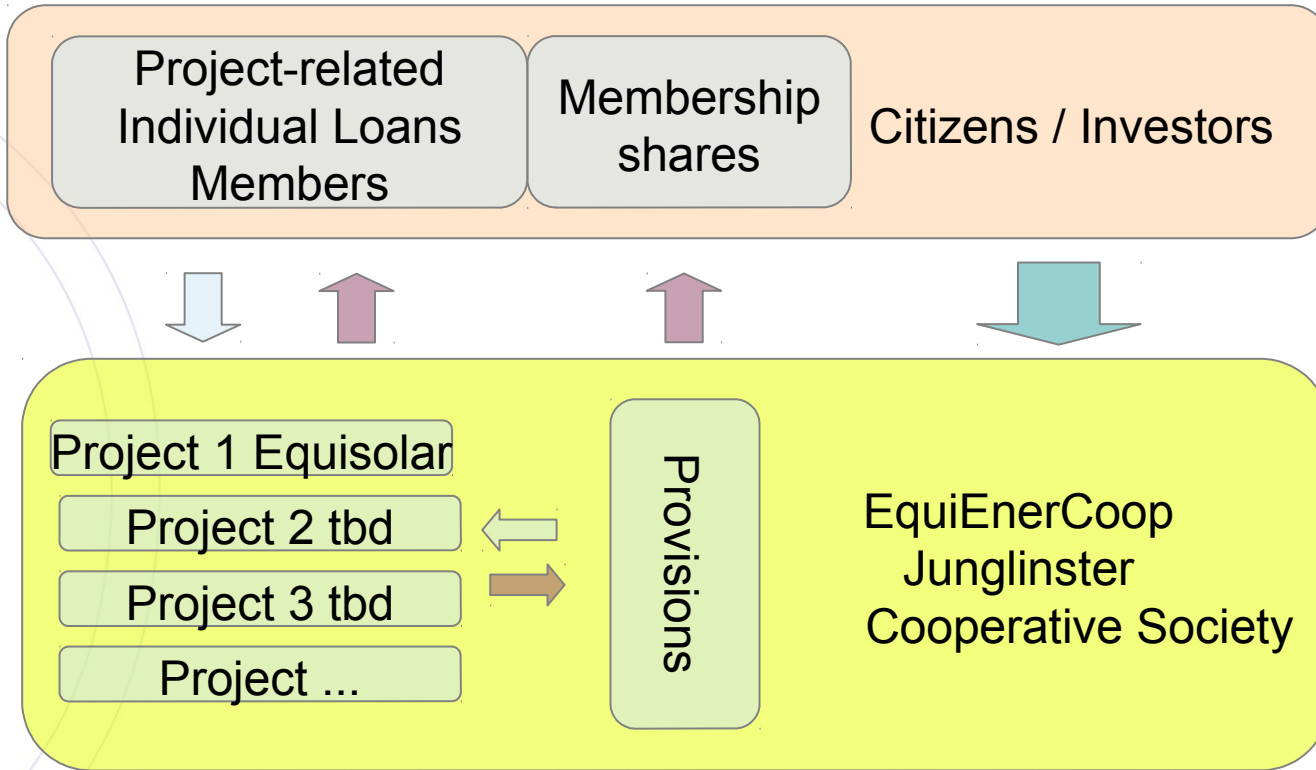
# Principles of the EquiSolar Project

- Financed by a subordinated loan granted by members
- Conservative business plan
- Conservative return on investment to members via yearly payback of the loan
- Project suits people who are looking for long-term, clean, local renewable energy investment - no place for “loan sharks”





# Principles of projects





# Project: EquiSolar 2012

- EquiSolar2012 is the first project supported through the Cooperative EquiEnerCoop
- Photovoltaic Electrical Energy Production
- Solar panels installed on municipal building roofs
- Total installed power: 139 kWp
- Expected yearly electrical power production 120.877 kWh
- *29th October 2013 to date production: 118.000 kWh*
- Municipality to provide roof of municipal buildings
- Condition: reserved for citizen of the commune of Junglinster
- Condition: 70 % of the invest covered trough member's loans



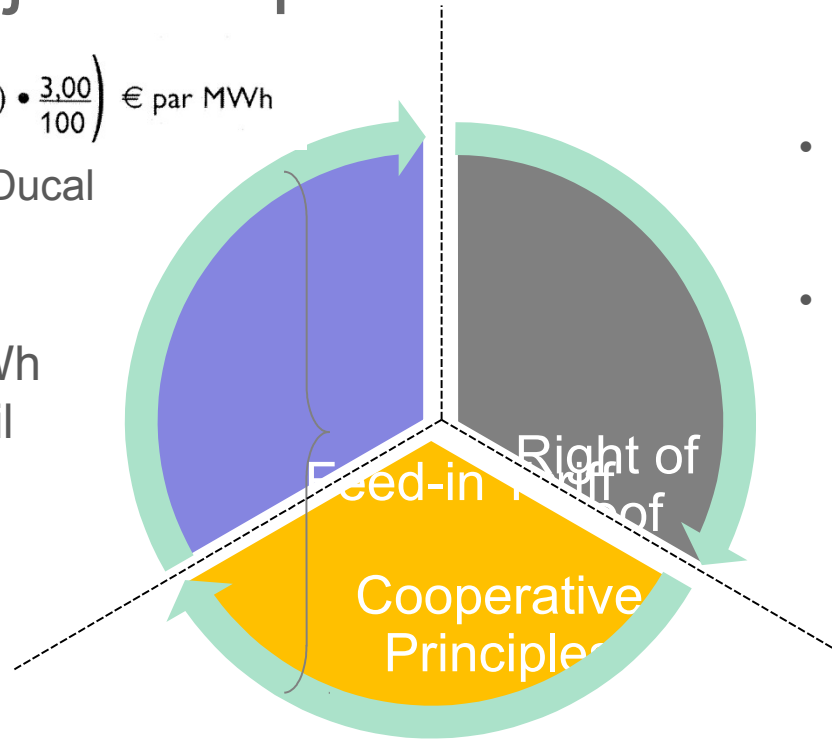


# Project: EquiSolar2012

$$TPVG_n = 370 \cdot \left(1 - (n - 2008) \cdot \frac{3,00}{100}\right) \text{ € par MWh}$$

Réglement Grand Ducal  
February 8th, 2008

32,56 €cent /KWh  
Guaranteed until  
2027



- Municipality provides the surfaces of 4 roofs of public buildings
- Right of roof contract signed with EquiEnerCoop



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# Project: EquiSolar2012

Roofs

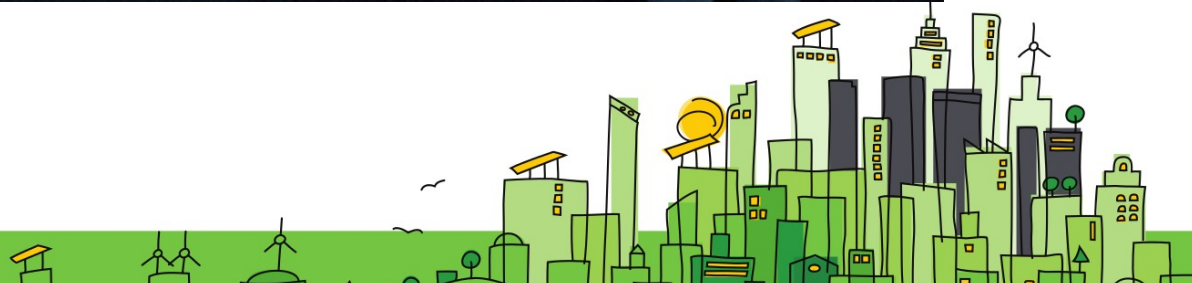
South







# Project: EquiSolar 2012, Depot





# Financials



ETIKA supported our project with a interest subsidise of 0,6%

ETIKA honored our project in the category of sustainable project



[http://www.etika.lu/spip.php?page=projetarticle&d\\_article=785](http://www.etika.lu/spip.php?page=projetarticle&d_article=785)





# Equisolar 2012 Project Values

- Regional value: money spend for energy procurement stays in the region
- Opportunity for citizen to invest in a sustainable project
- Citizen to become 'energy conscience'
- Produce electrical energy close to the consumer
- Educational spin off
- Sustainable electrical energy production, reduction of the CO2 footprint of the commune
- Challenge the energy market, consumer become entrepreneurs





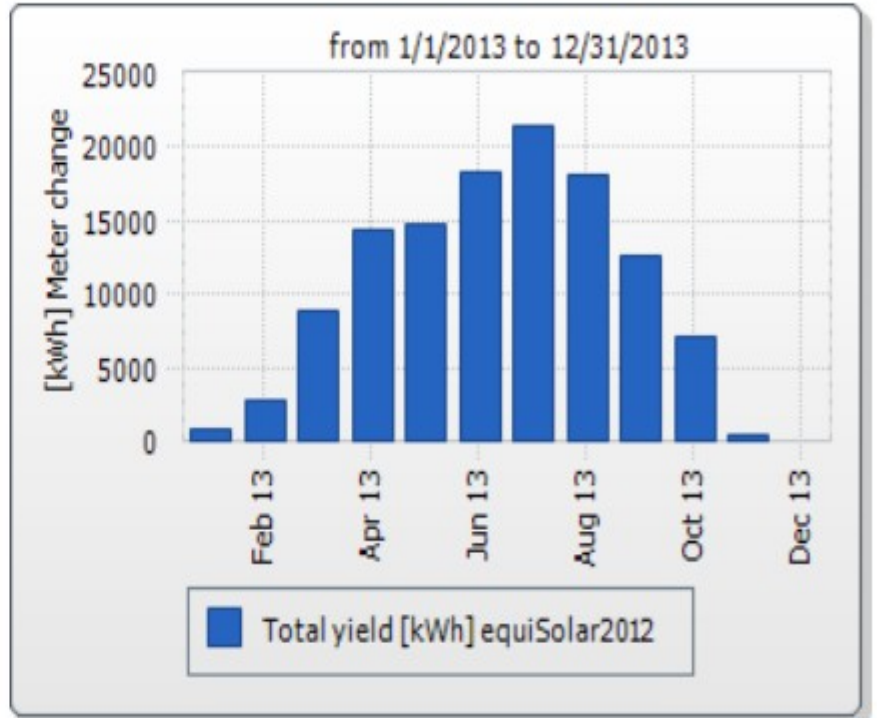
# Production 2013, Metrics

Date:  
11/4/2013

Energy:  
120,068.69 kWh



CO2 avoided:  
43,104.66 kg

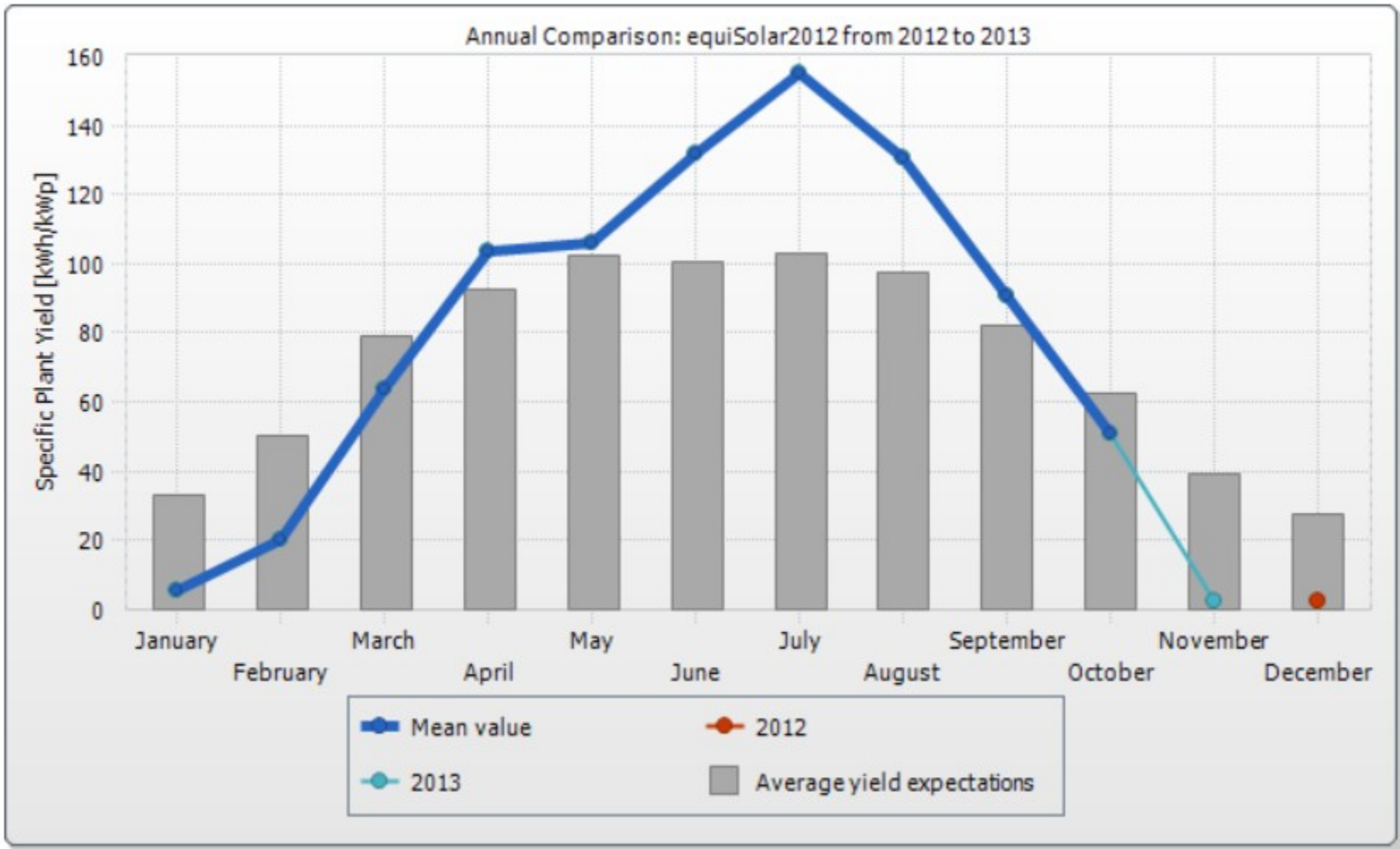


1/1/2013 - 12/31/2013





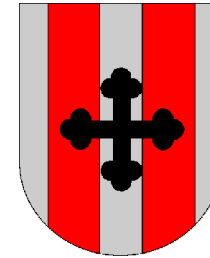
# Production 2013. Metrics





# Players in the project

- Benevolant citizens
- Open minded municipality



**KAUFMANN & BIESEN S.A.**





# Outlook, future projects

- Equisolar after 12 years and 15 years (end of feed-in tariff)
- EquiEnerCoop further projects and missions:
  - ✓ Energy saving programs
  - ✓ Stakeholder in similar projects or cooperatives
  - ✓ Analyse projects based on other technologies
  - ✓ Analyse projects according to the new feed in tariff and regulation
  - ✓ District heating system
  - ✓ Wind power, small wind-turbines,





# Questions & Answers Concerns ?



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