

Interregional Conference Eupen

Workshop 4 :

Collaboration of SE Cooperatives with municipalities :
best practices and participation to the REScoop MECISE project



“This project has received funding from the *European Union’s Horizon 2020 research and innovation programme* under grant agreement No 649767”.

Presentation Overview

I. The work in communal schools

- a. Raising awareness at the wind farm of Waimes
- b. Working in school classes
- c. Technical devices for raising awareness : small investment – big returns

II. The energy efficiency audits in Waimes

- a. Auditing the school buildings
- b. Comprehensive energy auditing

III. The wind farm project in the municipalities of Amel & Büllingen



“This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 649767”.



Who is *Courant d'Air* ?

- Founded at the end of **2009**,
1600 cooperators
- Cooperative company with limited liability and a social purpose
- **Citizen participation** in the wind farm of Waimes and in sustainable energy projects
- **Two 2,3 MW wind farms in Waimes**
 - 9.000 MWh/year
 - Electricity for +/- 2.600 households
- **One 2,3 MW wind turbine in Wahlain**
in collaboration with the cooperatives *Nosse-Moulin* and *Vents d'Houyet*
- The reasons for **citizen participation** :
 - A wind farm impacts the living conditions of a municipality's inhabitants
 - The exploitation of a wind resource must benefit the citizens since it is a natural resource
 - Wind energy is not easily accessible for individual citizens (in comparison to photovoltaic energy)
 - Participation allows the citizens to get the right to speak, to be involved in decision-making and to identify with the project



I. Raising awareness in schools

- Raising awareness at the wind farm of Waimes
- In 2015 and 2016, the *Courant d'Air* team welcomed 11 classes (= 220 pupils) during the Mobility Week. The pupils were encouraged to come to the wind farm by bike.
- Since 2011, over 20 classes and groups have attended



I. Raising awareness in communal schools

Working in school classes

- Thanks to a co-funding through the LEADER project, *Courant d'Air* could kick off the „Hunt on Joules“-project
- Aim: Raising the pupils' awareness to the issue of energy saving and reducing the school building's energy consumption by 15 to 25 %
- Pupil made audit and action plan on the school's heating, lighting and electrical devices
- Project time-span : 2016-2021



I. Raising awareness in communal schools

Technical devices for raising awareness

- Creation of the Transmedia platform „GENERATION ZERO WATT“
- Installation of smart meters et smart thermometers



GENERATIONZEROWATT SCHÜLER
Jagd auf die Energiefresser!

[Home](#) [G-Book](#) [Teilnehmer/Smartmeter](#) [Videos](#) | [Anmeldung](#) [Lehrer](#)

Vom 8. November 2016 bis zum 8. März 2017 sind die Schüler die **ENERGIEJÄGER DER SCHULE.**

Von Animatoren begleitet, werden sie eine **JAGD AUF VERSCHWENDETE ENERGIEN** eröffnen und versuchen, anhand von Messinstrumenten den Energieverbrauch der Schule um mindestens 10% zu senken.

[Jagd auf die Energiefresser - Leaderprojekt 14-20 \(Courant...](#)

[Leaderprojekt - Jagd auf die Energiefresser \(Courant d'Air...](#)



GENERATIONZEROWATT SCHÜLER
Jagd auf die Energiefresser!

[Home](#) [G-Book](#) [Teilnehmer/Smartmeter](#) [Videos](#) | [Anmeldung](#) [Lehrer](#)

AKTIVITÄTEN

 @gzw-admin postete ein Update vor 1 Stunde, 33 Minuten · 

Courantd'Air optimiert die Beleuchtung in den Büros, indem einzelne Leuchten abgeschaltet werden.
Die Generation ZeroWatt ist nicht nur in den Schulen aktiv 🍌



WER IST ONLINE

 **MITGLIEDER**

[Neu](#) | [Aktiv](#) | [Beliebt](#)

 @gzw-admin
aktiv vor 3 Minuten

Benutzername

Passwort

Angemeldet bleiben

ANMELDEN

I. Raising awareness in communal schools

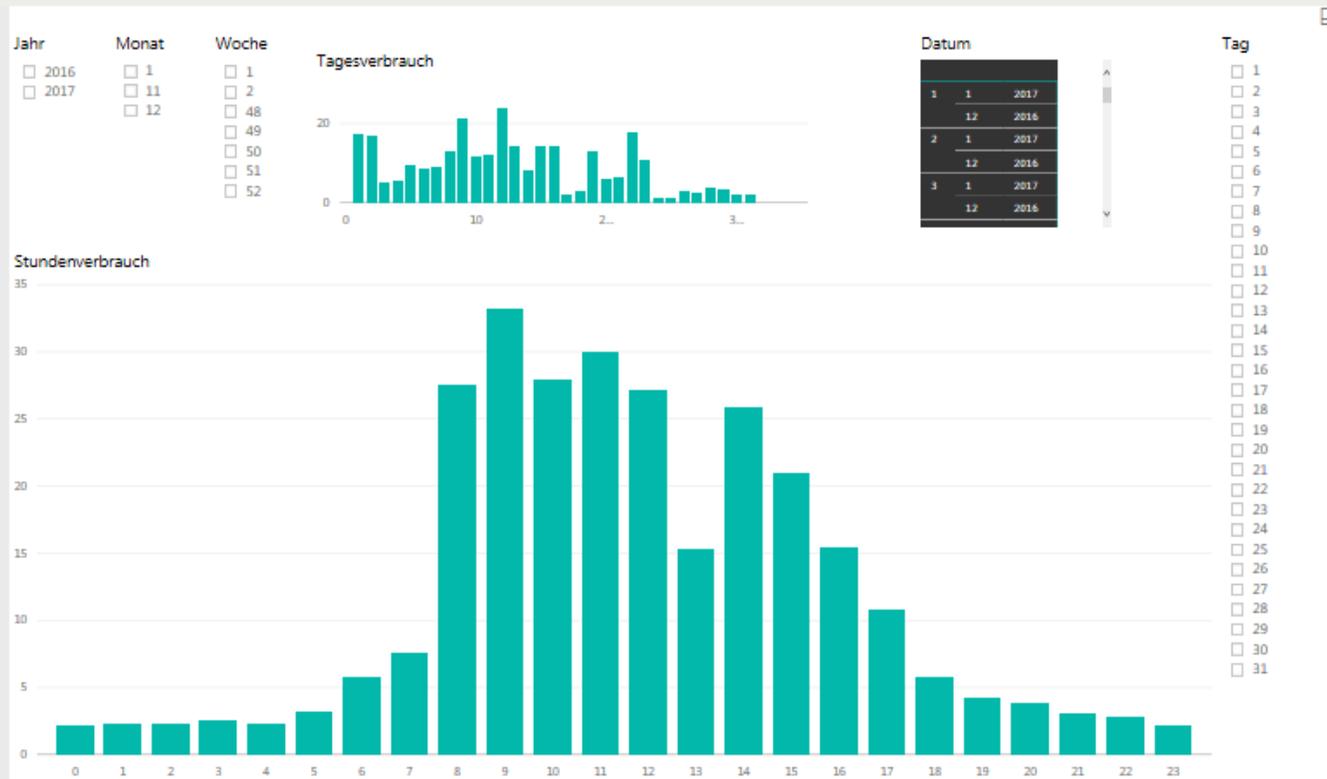


GENERATIONZEROWATT SCHÜLER

Jagd auf die Energiefresser!

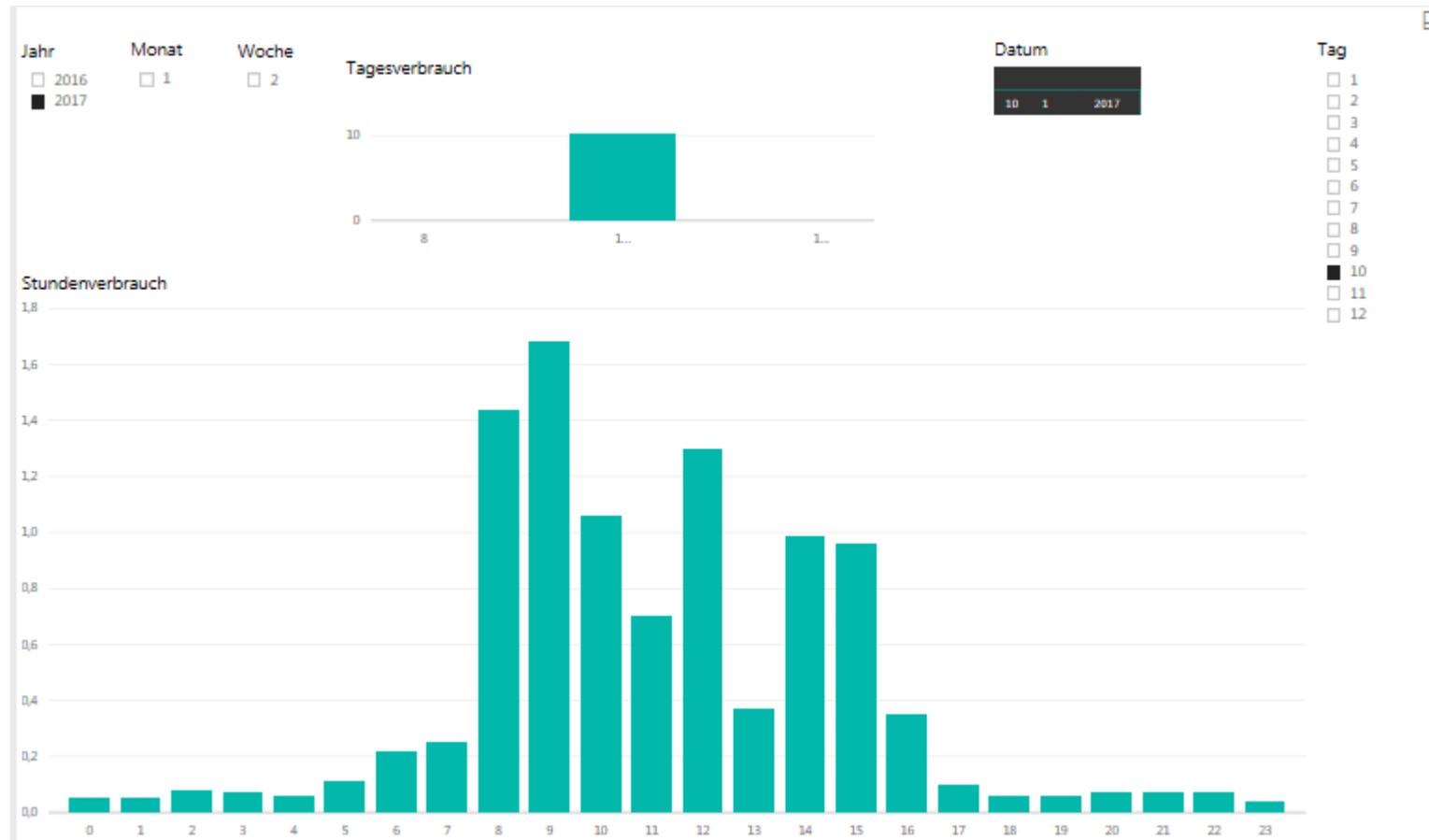
[Home](#) [G-Book](#) [Teilnehmer/Smartmeter](#) [Videos](#) | [Anmeldung](#) [Lehrer](#)

SMARTMETER BORN (ZUGANGSDATEN ERFORDERLICH)



I. Raising awareness in communal schools

Technical devices for raising awareness



I. Raising awareness in communal schools

Technical devices for raising awareness :
small investment – big returns

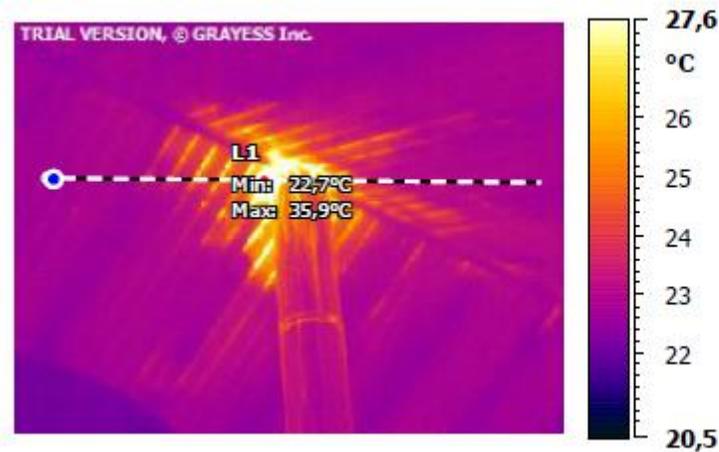
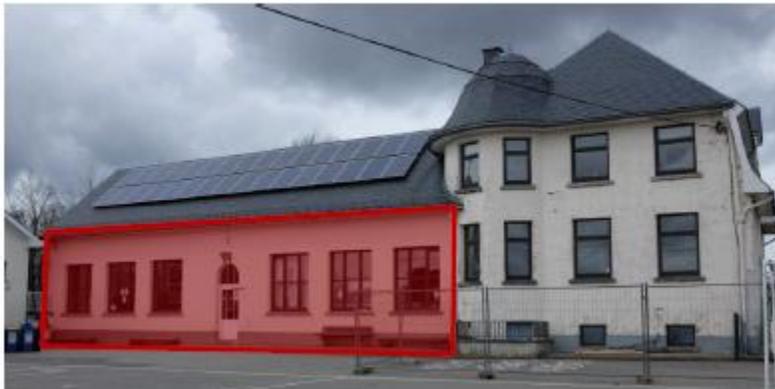


II. The energy efficiency audits in the communal schools of Waimes

Implementation of 14 audits as a compensation measure for the wind farm tax on the wind farm of Waimes.

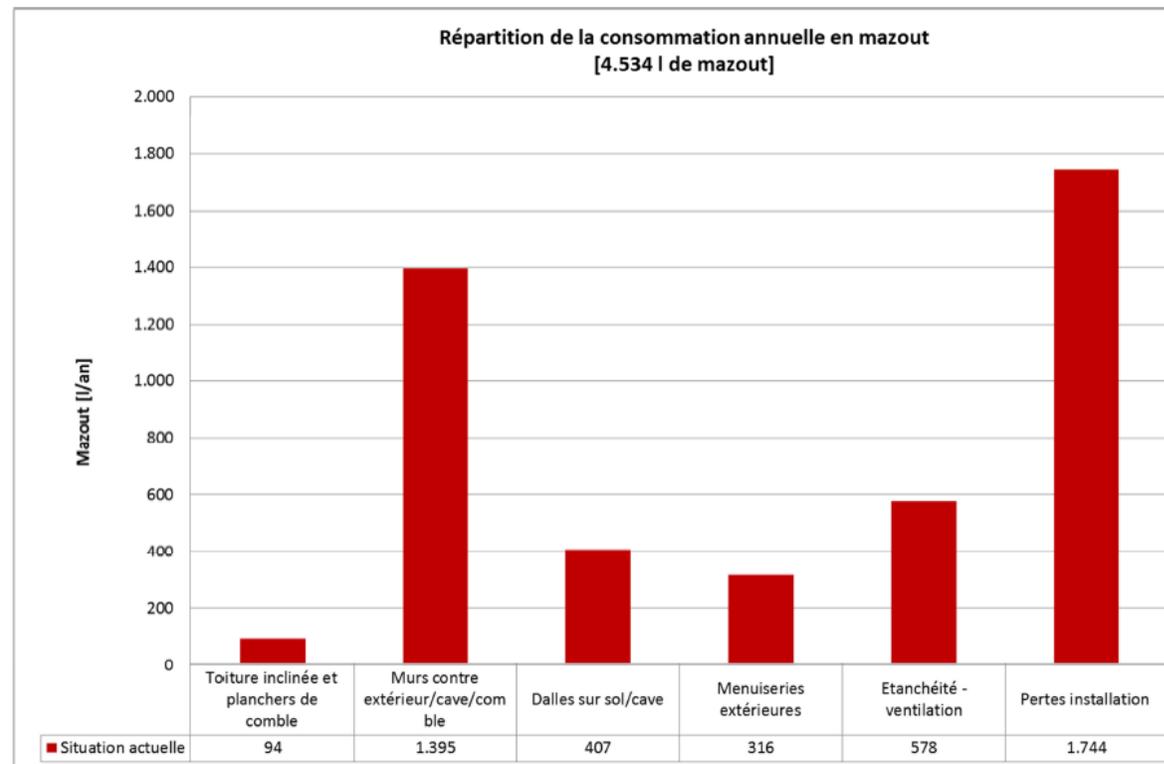
The municipality of Waimes has subscribed to the Pollec programme and must write its PAED (French for *Action Plan for Promoting sustainable Development*)

This is the first of a set of measures the aim of which is to counsel the municipality in making its choices regarding the energy efficient renovation of its buildings.



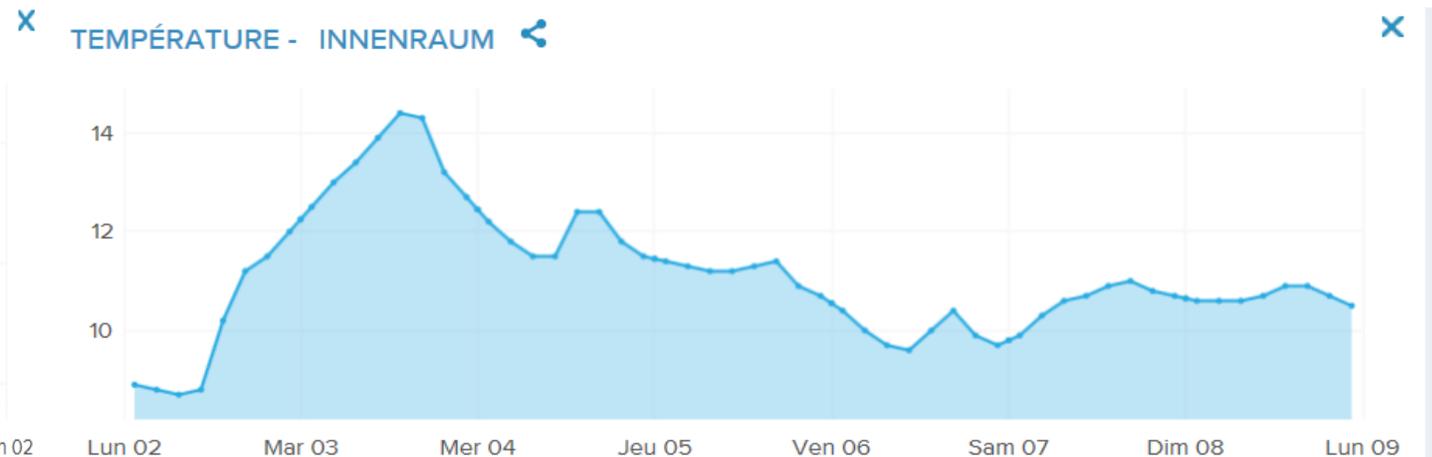
II. The energy efficiency audits in the communal schools of Waimes

	kWh/an	%	l mazout/an
Toiture inclinée et planchers de comble	940	2	94
Murs contre extérieur/cave/comble	13.947	31	1.395
Dalles sur sol/cave	4.073	9	407
Menuiseries extérieures	3.157	7	316
Etanchéité - ventilation	5.783	13	578
Pertes installation	17.438	39	1.744
Total	45.338	100	4.534



II. The energy efficiency audits in the communal schools of Waimes

- Comprehensive monitoring of energy consumption in all communal schools
- Electricity: smart meters
- Heating: oil discharge meters, remote control of the time programmers
- Comfort: T° and CO2 (under study)
- Provision of a platform for the remote controlling and (monthly, weekly or annual) reporting



III. The wind farm project in the municipalities of Amel & Büllingen

Project starting point

- Project including 6 wind turbines on communal grounds.
Determination of both municipal councils
- Tender for developing the wind farm
- Tender documents eliciting citizen and communal participation in the wind farm operation
- Bid weighting taking the project's financing, quality and communal participation into consideration

III. The wind farm project in the municipalities of Amel & Büllingen

Project current situation

- The cooperative *Ecopower* was chosen as the project developer
- The cooperative *Courant d'Air* will organise the project's citizen participation
- The municipalities of Amel and Büllingen will purchase up to 60 % of the wind farm, the remainder will be ownership of the cooperatives *Ecopower* and *Courant d'Air*
- The project is to a 100 % in the hands of citizens
- The cooperative *Courant d'Air* will ensure the project's management

III. The wind farm project in the municipalities of Amel & Büllingen

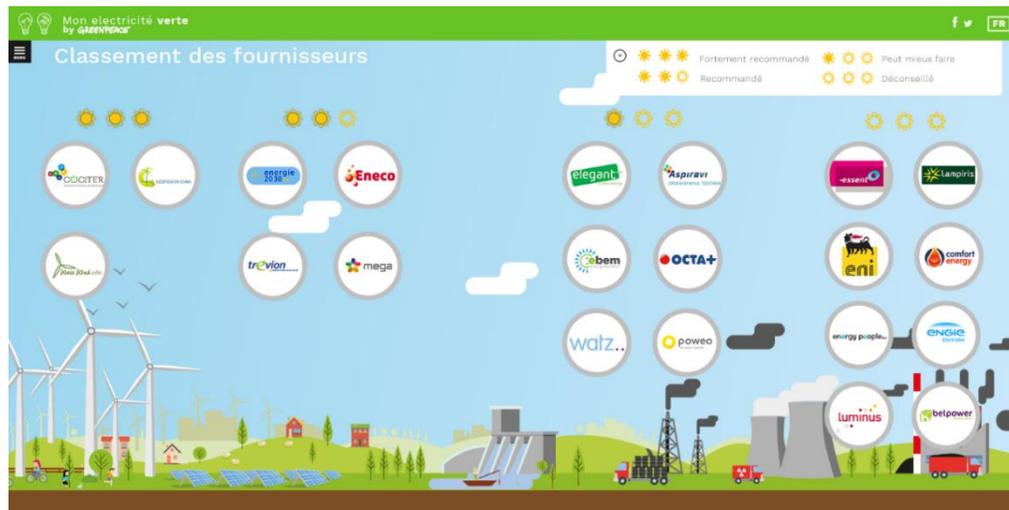
The business model's peculiarity

- Mutualisation of farm costs and revenues. Risk reduction for all partners
- The partners will be able to operate the wind turbines in a fully independent way. No need for an operating company means:
 - Each partner is in charge of financing its wind turbine(s)
 - Each partner manages as it sees fit the benefits from operating its wind turbine(s)
 - While preserving their independence, the involved cooperatives put their skills and expertise at the disposal of the municipalities
 - Finalization of the engineering studies before work is undertaken on site
 - Managing the building site
 - Managing the farm operation
 - Possibility of funding assistance

III. The wind farm project in the municipalities of Amel & Büllingen

The business model's peculiarity (end)

- The cooperatives deliver services to the citizens (joint buying,...) and allow the citizens to become actors of the energy transition
- Reflects another understanding of democracy (what can I do to help the community ?....)
- Counseling work on wind farms and other sustainable energy projects undertaken by municipalities
- Action to raise awareness to the issues of the energy transition
- Possibility for the communal residents to purchase green electricity produced by the wind farm via the power supplier COCITER- the power supplier created by 10 citizen cooperatives among which is *Courant d'Air*
- Are part of the wider movement of the territories in transition and work together with other local actors. (*FahrMit* , *Cap Terre*, *Financité*,)



Thank you for your attention.



“This project has received funding from the *European Union’s Horizon 2020 research and innovation programme* under grant agreement No 649767”.

