REScoops

Mobilising European Citizens to Invest in Integrating RES

Technology Challenges and Regional Approaches for Integrating Renewables and Energy Security

Brussels, 28 May 2015

Karel Derveaux
Ecopower - REScoop.eu

Who ?

Karel Derveaux

- Flanders, Belgium, master mechanical engineering
- active in renewable energy sector since 1995
  - EUREC Agency : European renewable energy researchers network
  - Ecopower : Flemish renewable energy cooperative
  - REScoop.eu : federation of groups and cooperatives of citizens for renewable energy in Europe

Opportunity for citizens

Citizens have now the opportunity to take up a role in their future energy supply.

Citizens will pay anyway as:

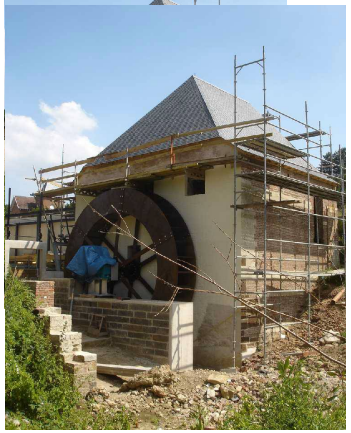
- Consumer
- Taxpayer
- Money-saver on the bank

Because Renewable Energy Sources are a “common good”, Energy Cooperatives – REScoops - are the ideal enterprise for citizens to take an active role in the energy transition where RES will play a major role.

Citizens have the choice now to act or not. Joining forces in REScoops citizens become effective and competent actors in the energy sector as

- Producers of RES
- Grid Operators
- Suppliers

Ecopower – developer & investor



- Belgium (Flanders)
- founded in 1991
- Now ~50.000 cooperative members
- 50 million € equity

Investments:

- Wind: ~35 MW
- PV: many sites (> 250),~ 5,4 MW
- Small hydro: restored historic watermills, (~100 kW)
- Wood pellet production : 40.000 tons/y
- Micro cogen on vegetable oil: 0,25 MWe, 0,3 Mwth
- Support start-up of others REScoops (f.i. REScoops in Wallonia 7 x 2,3 MW wind turbines, Enercoop France supply activity)

Ecopower – RES supplier electricity and fuel

Dienstverlening energieleveranciers

	Score Op basis van het aantal klachten	Aantal klachten	Telefoons beantwoord binnen 60 sec.	Kosten vervroegde stopzetting
Ecopower	★★★★★	1 op 23.800	98%	0 euro
Electrabel	★★★★★	1 op 4.900	80%	50 tot 75 euro
Luminus	★★★★	1 op 3.225	80%	50 tot 75 euro
Ebem	★★★★	1 op 1.875	95%	0 euro
Belpower	★★★	1 op 1.495	98,76%	50 tot 75 euro
Nuon	★★	1 op 980	onbekend	50 tot 75 euro
Lampiris	★★	1 op 775	98%	50 tot 75 euro*
Essent	★	1 op 525	onbekend	50 tot 75 euro

*Uitgezonderd bij een nieuw contract

Year	Average consumption
2006	3.909
2007	3.331
2008	3.063
2009	2.985
2010	2.819
2011	2.421

- supply to members only
- ~100 GWh electricity
- ~1,4 % of households in Flanders
- ~47.000 customers
- fairest and greenest electricity and best customer service on the market
- linear tariff without fixed part
- average consumption per customer dropped 38% in 5 years ! (4500 → 3096 kWh)
- customers encouraged to install PV (~9000) reduces av. consumption further: <2400 kWh
- wood pellets for domestic heating after implementing domestic EE and RES measures (solar SHW)
- effectively linking renewable energy and rational use of energy

Renewable energy coops joining forces

REScoop20-20020: IEE project (April 2013 – March 2015)

In every Member State similar cooperatives of citizens where found to exchange experiences. Over 2400 initiatives exist all over Europe

Middelgrundens Vindmøllelaug

EMES European Research Network

RESCOOP.BE
FEDERATIE VAN VERENIGINGEN EN COÖPERATIES VAN BURGERS VOOR HERNIEUWBARE ENERGIE UIT BELGIË

Energy4All

avanzi

ODE

Ecopower cvba

EWS ElektrizitätsWerke Schönau
atomstromlos. klimafreundlich. bürgereigen.

enercoop L'ENERGIE MILITANTE

COOPERATIVES europe

CONFCOOPERATIVE

ALIENERGY
Argyll, Lomond & the Islands Energy Agency

somenergia

courant d'air

The role of REScoops in RES integration

- Producers RES-e: grid injection; typically coop owned wind farms and PV power plants; f.i. hundreds of small coops of in DK and D. Ownership of over 35% of installed RES capacity in hands of private individuals !
- Distribution Grid Operator:
  *historically created energy coops to bring electricity to less populated regions; f.i. In South Tyrol (I)
  *recently new local REScoops buy back the grid to ensure transformation allowing large scale integration of RES; f.i. Schönau, Berlin, Hamburg
- e-Supplier: take care of grid balancing: adding hydro power with balancing capacity in portfolio, buying balancing services
- District Heating : over 50 DH coops in AT using wood fuel for heat and cogen; in DK over 300 DH coops, electric heating is added to help grid stability by absorbing excess electricity.

More information on Ecopower or REScoop.eu

For more information or contact have a look at
www.ecopower.be
www.rescoop.eu
www.facebook.com/pages/REScoopeu/198522540221034
or subscribe to our news alert

Thank you for your attention !

Federation REScoop.eu

Federation of groups and cooperativesof citizens for Renewable Energy in Europe:

- Strict application of the 7 ICA principles in practice
- Supporting local communities
- Clean, affordable energy supply for all
- Citizen's role in production, distribution and supply
- Sharing of experience
- Mutual practical and organisational support
- Creation of cooperative investment fund
- Creation of pan-European sustainable energy supplier
- Lobby local, regional, national, European and international authorities

REScoops financing the energy transition

- Collaboration between REScoops and local authorities, i.p. municipalities signatories of the Covenant of Mayors, giving access to EU structural funds
- Combining RES and EE developments in one single investment scheme leading to stable and bankable projects
- Financial collaboration between REScoops: loans, joint development, joint investments, bridging periods with too many or too few projects, kick-starting new REScoops, etc.
- Bundling projects from REScoops enables to reach an investment size eligible for financing with help from EIB, EBRD, etc.

REScoop MECISE

H2020 project – topic EE20

Well estabished REScoops in B, FR, SP and UK

•develop, finance, build and operate RES jointly with EE projects

•facilitate citizens and local authorities to invest in RES and EE

•set up dedicated RES and EE financing structures for REScoops and local authorities