



Alternatives for the Energy Sector in Greece - European and Global context

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Who is who?

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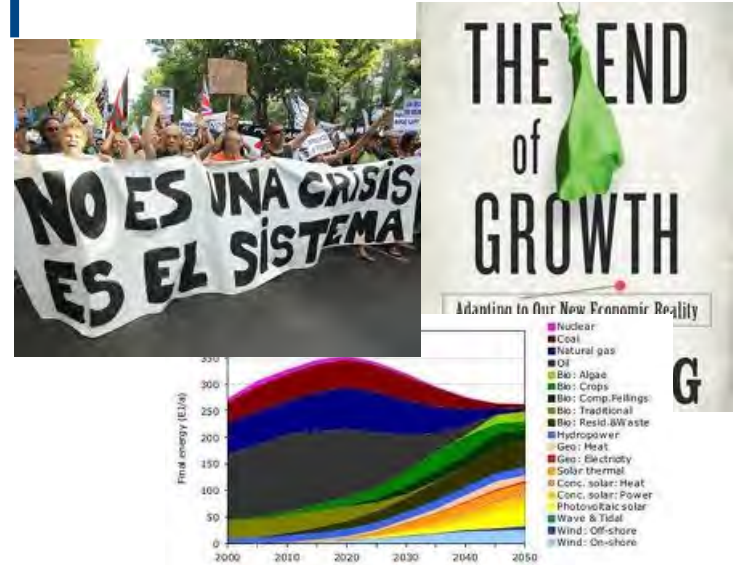
- Flanders, Belgium, master mechanical engineering
- active in renewable energy sector since 1995
 - EUREC Agency : European renewable energy researchers network
 - Ecopower : Flemish renewable energy cooperative
 - REScoop.eu : federation of groups and cooperatives of citizens for renewable energy in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



Energy in the context of world-wide Crises

In the context of crises:

- financial crisis
- economical crisis/system crisis
- environmental crisis/energy crisis
- social crisis



Energy will become one of the major issues of the coming decades.

We will face an **energy transition** from

- fossil/nuclear fuels towards renewable energy
- centralised to decentralised production
- spoiling energy to rational energy use

Goals regarding Energy and Climate

- EU
 - EU 20-20-20 Climate and energy package
 - Reduce emissions of greenhouse gases by 20%
 - Improve energy efficiency by 20%
 - Cover 20% of energy demand from renewable sources
 - EU 2050 Roadmap
- UN
 - Climate convention 1992
 - Kyoto protocol 1997
 - UN proclaimed 2012 international year of cooperatives as well as year of sustainable energy for all



Opportunity for citizens

Citizens and communities have now the opportunity to take up a role in their future energy production and supply

They will anyway as:

- consumer
- taxpayer
- money-saver



Renewable Energy Sources Cooperatives - REScoops - are the ideal enterprise for citizens to take an active role in the energy transition.

Background: citizens in action



A Belgian REScoop: Ecopower



- Belgium (Flanders)
 - ° 1991 (NGO TSAP, Leuven, ° 1985)
 - 45.000 cooperative members
 - 45 million € equity
- Production:
- Wind: 13 turbines, ~25 MW
 - PV: > 250 installations, ~ 2,25 MW
 - Small hydro: restoration of 3 watermills, 0,1 MW
 - Plant oil cogeneration 1 plant, 0,25 MWe, 0,3 MWth
 - 11 years: 6%, 1 year: 4% dividend
 - Support of Walloon REScoops (7 x 2,3 MW wind turbines)

A Belgian REScoop: Ecopower



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

* Uitzonderd 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

- ~100 million kWh
- 1,2 % of households in Flanders
- ~35.000 customers
- ~5.000 new customers each year
- fairest and greenest electricity and best customer service on the market
- effectively links renewable energy and rational use of energy
- average consumption dropping continuously: 38% in 5 years !
- without customers with PV-installations (8809): 3096 kWh (-20%)
- very simple tariff

A REScoop best practice: EW Schönau



atomstromlos.
klimafreundlich.
bürgereigen.

- triggered 1986 by Chernobyl accident
- 1997 take-over local grid
- 1998 supply of Schönauer customers exclusively with electricity from renewable energy and cogeneration
- 1999 national supplier of clean electricity
- by 2012 operating 7 grids
- 2014 Berlin grid?
- shareholders: 1830
- customers electricity: approx. 130.000, natural gas: approx. 8.300
- subsidized new, ecological electricity production units: some 1950
- PV, cogeneration, biogas, small hydro

A REScoop best practice: Middelgrunden



- 20 wind turbines,
 - 10 northern owned by DONG Energy 10 southern owned by Middelgrunden Wind Turbine Cooperative
 - world famous, most photographed
 - story of Danish people investing savings in wind-power told over and over again
-
- private partnership formed May 1997, by working group for wind turbines at Middelgrunden
 - following success of Lynetten Windpower (www.lynettenvind.dk)
 - aim to produce electricity through the establishment and management of wind turbines on Middelgrunden shoal
 - shareholders own a share corresponding to 1/40500 of the partnership per share

A REScoop best practice: Energy4all



- created due to daily enquiries received from people looking to replicate the success of Baywind, the UK's first community-owned wind farm (www.baywind.coop)
- works primarily with community groups and landowners, to develop renewable energy projects wholly or partially owned by a community co-operative
- created a 9 step stones guideline for groups planning to set up a wind project
- provides a package of sector, admin, and financial services to Coops in return for an annual fee





Federation of groups and cooperatives
of citizens for Renewable Energy in Europe

- Practical application of the 7 cooperative principles
- 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

REScoop 20-20-20 IEE project

Project partners support groups and cooperatives of citizens to go together for renewable energy

Over 1000 REScoops in Europe?

Middelgrundens Vindmøllelaug



Cooperatives as part of the energy solution. in the USA

Did you know
Electric Cooperatives ...



- Are located in 80% of the nation's counties
- Are the largest electric utility network in the nation
- Total more than 930 local systems in 47 states
- Have 40 million member-owners
- Distribute power over 2.4 million miles of line
- Serve 75% of the U.S. land mass
- Own \$112 billion in generation, transmission, and distribution assets
- More than 80% of all local electric co-ops offer electricity generated from renewable sources?

Touchstone energy cooperatives (USA)



What Makes Our Cooperatives Different?

'Touchstone Energy co-ops are owned by the members they serve and are committed to providing reliable electricity at the lowest price possible. In short, co-ops “look out” for the members they serve.'

<http://www.youtube.com/watch?v=tenKnlx4ouY>

More information on REScoop 20-20-20

For more information or contact have a look at

www.rescoop.eu

www.facebook.com/pages/REScoopeu/198522540221034

or subscribe to our news alert

Partners

www.ecopower.be/index.php/english

www.energy4all.co.uk/

www.middelgrunden.dk/middelgrunden/?q=en/node/35

Thank you



REScoop 20-20-20 project partners support groups and cooperatives of citizens for renewable energy.
Contact us for support! www.rescoop.eu