



RESCOOP EU

European federation of groups and cooperatives
of citizens for renewable energy

**Common and public goods in the hands of citizens
for the benefit of their communities**

Sifnos, Greece, September 6th 2014

Dirk Knapen

RESCOOP.eu - REScoop.be



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Who

Dirk Knapen



REScoop.be,
Federation of groups and cooperatives of citizens for renewable energy

“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.”

REScoop.eu



- European federation with partners from European project REScoop 20-20-20
- Inventory of REScoops, businessmodels and financing schemes
- Offering services to members: lobbying, financing, energy supplier, balancing
- Sifnos Island Green Energy Cooperative one of 15 pilot projects



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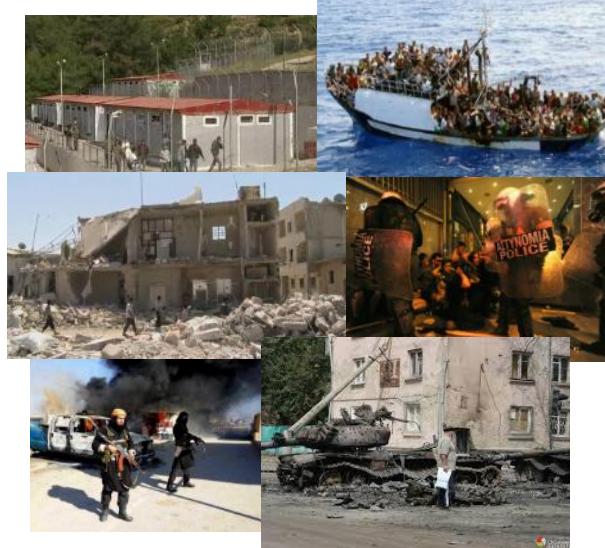


World suffering from growing pains

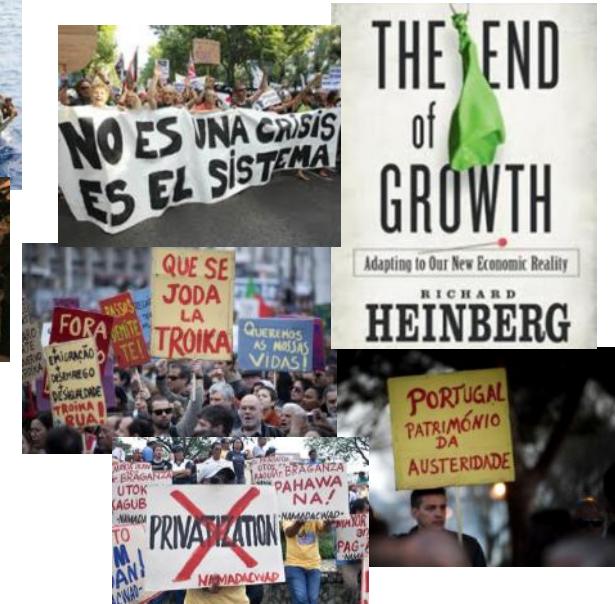
Ecological deterioration



Cultural frictions



Unfair distribution



Earth Overshoot Day 2014 august 19th

Growing out of crisis without hurting others or the environment, now or in the future, here or elsewhere, is no longer an option unless...
based on the single outside source we have ... the SUN

growing organic food, using renewable energy, harvesting materials (sinks for CO₂)



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Common and public goods

Common goods

- free by nature (land, beaches, forests, sun, wind, water, sea, rivers,...)
- free right of access for everyone
- no legal owners



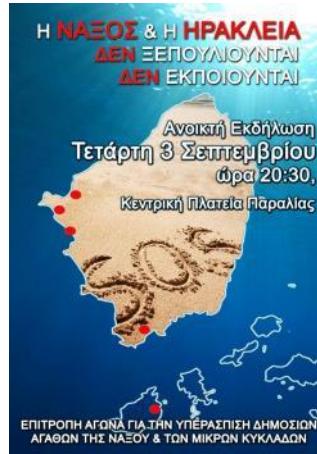
Public goods

- paid for by taxpayers or consumers
- public services
(roads, railways, airports, ports, water distribution, telecommunication and electricity grids, high tension lines, public buildings, schools hospitals,...)
- owned by citizens collectively



Neither of both should be privatized

Citizens claim them



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Common and public goods for the benefit of local communities

Turning reaction into action



<http://omikronproject.gr/grassroots>

136 Thessaloniki water



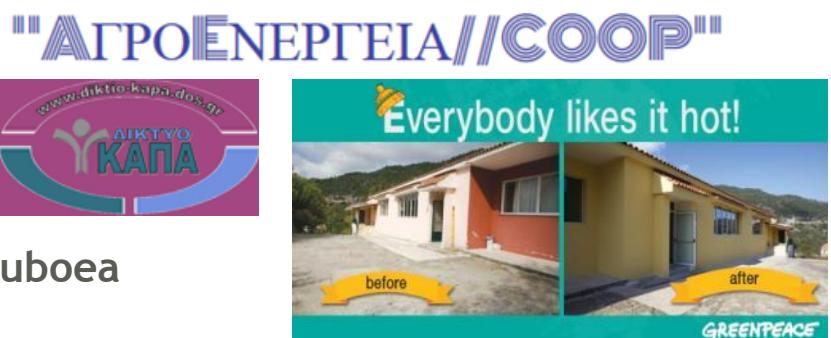
Alternative Festival of Solidarity & Collaborative Economy
3rd edition Athens 10-11-12 October



- Energy cooperatives
- Sifnos Green Energy Cooperative
- Agro energy cooperative Lamia

Kapa-cooperatives network

**Greenpeace crowdfunding school in Stropones, Euboea
40,000 € collected in 2 months time**



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Common and public goods for the benefit of local communities

Turning reaction into positive action



RE-connecting citizens
renewables as levers for local development

Harvesting values for the benefit of local communities

- harvesting : preparing, supporting, nurturing, protecting
- values :
 - resilience, self confidence, peace, solidarity, social cohesion, local employment, security of supply, price stability, energy autonomy, healthier environment, reduced climate impact, ...
 - 100% sustainable energy supply > 90 € per inhabitant per month



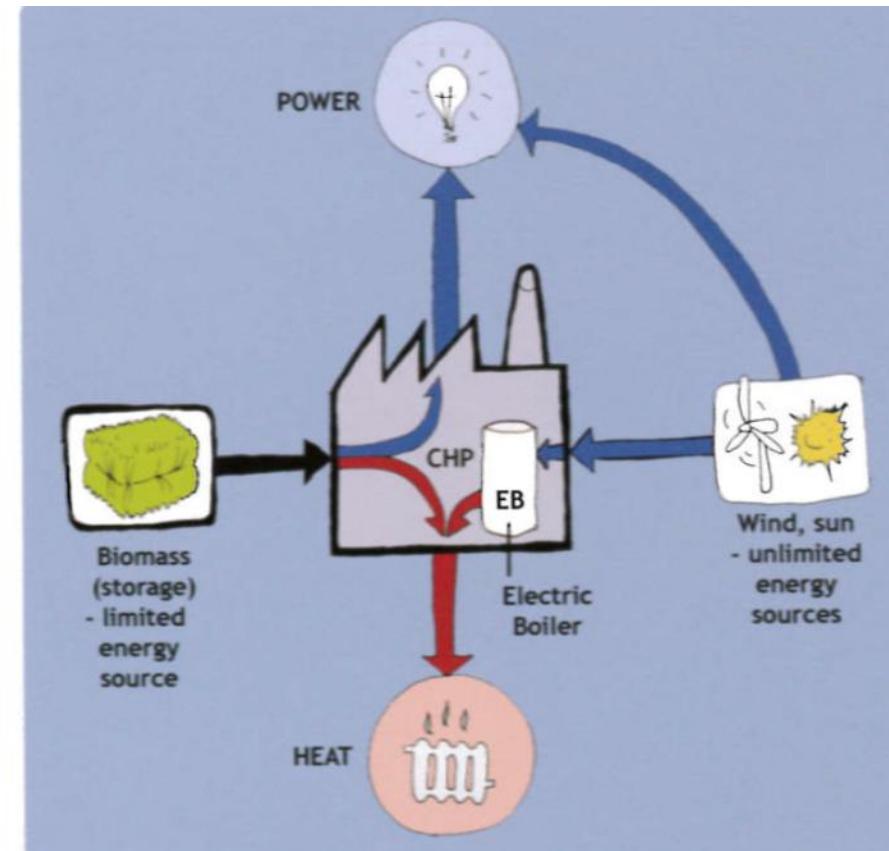
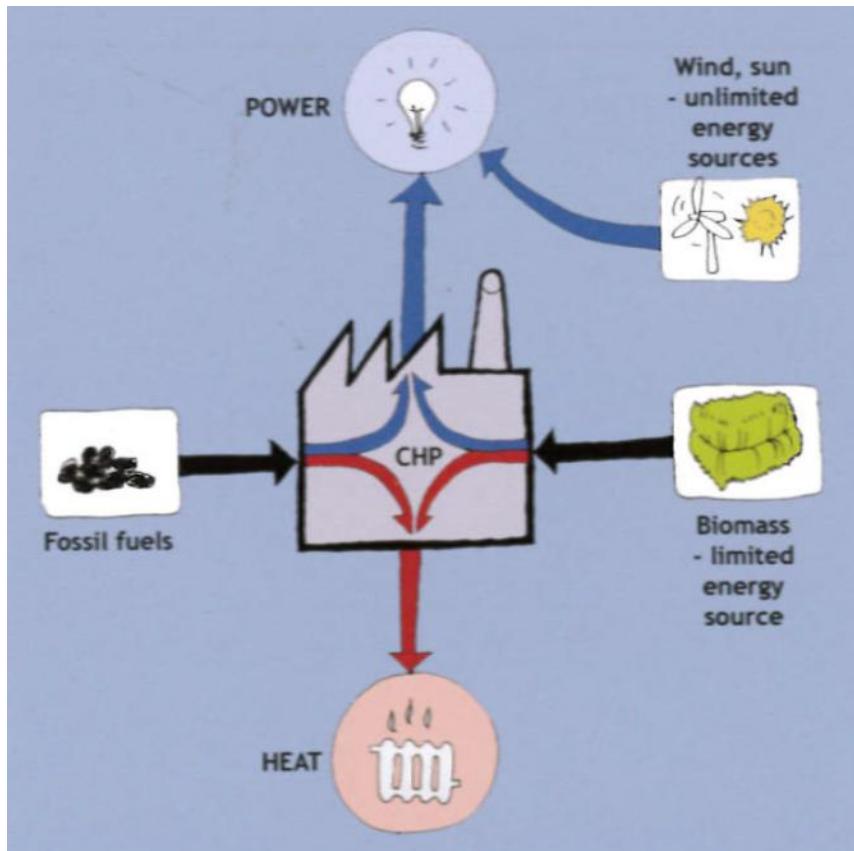
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Sustainable energy supply system



4' www.youtube.com/watch?v=Zw8sWR5uohk

18' www.youtube.com/watch?v=sosx7o3GU88

Website <http://green.thisted.dk/?lang=en>

www.kombikraftwerk.de/fileadmin/Kombikraftwerk_2/English/AEE_Press_Release_Kombikraftwerk2_okt13.pdf



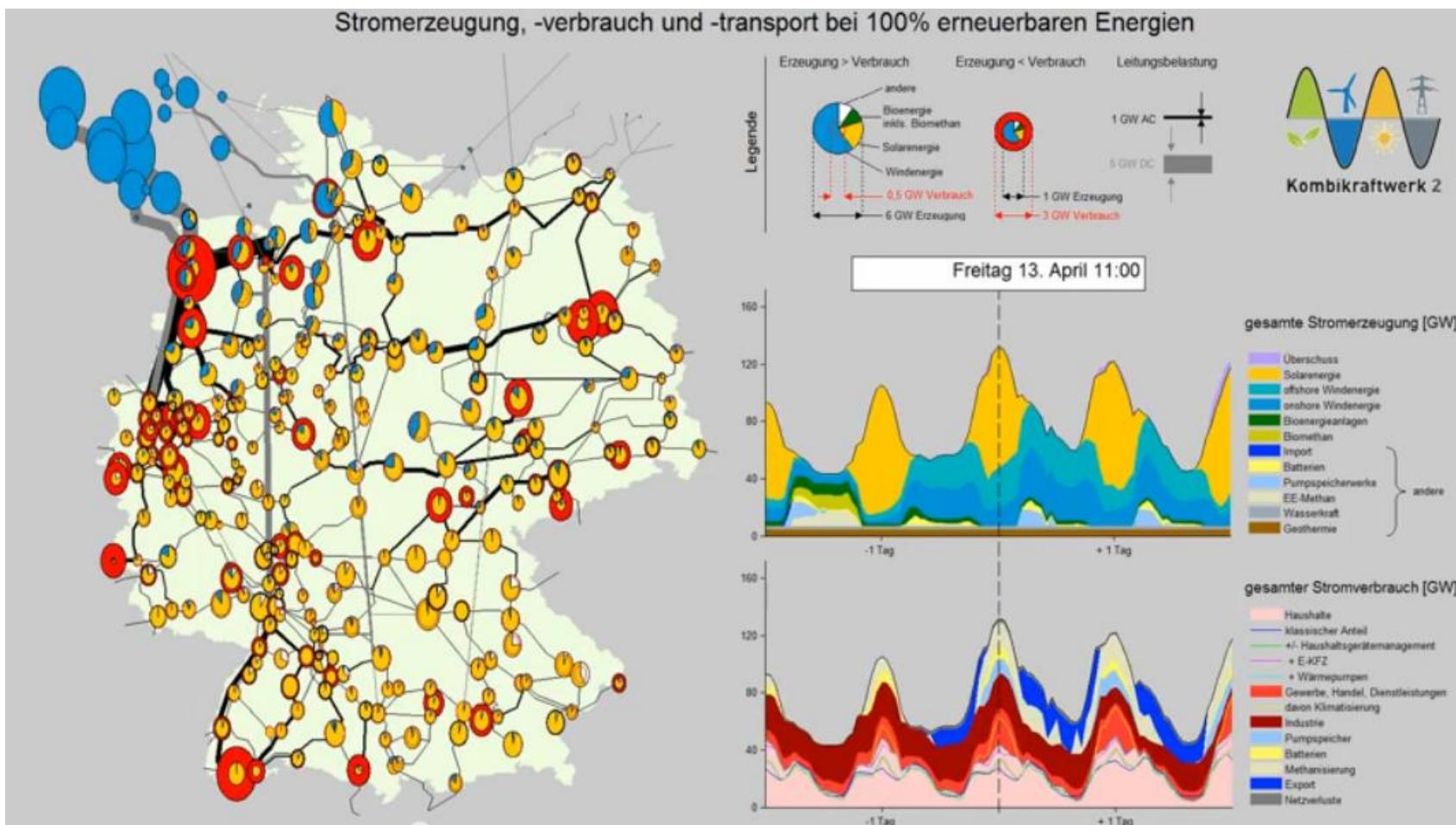
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Power flows in 100% scenario



www.kombikraftwerk.de/100-prozent-szenario/das-100-erneuerbare-energien-szenario.html



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Future options

	Andros - Tinos Scenario 1 Interconnection with the continent	Islands not connected to the mainland Scenario 2 Island self-sufficient grid
Cost of production/market	35 €/MWh	> 250 €/MWh
Energy paid by consumers	95 €/MWh	95 €/MWh
Mainland subsidy/MWh		> 155 €/MWh
Future	<ul style="list-style-type: none"> - Security of supply depending on reliability of European power plants (nuclear Belgium) - Back-up microgrids for hospitals, telecommunication, security services - Competition threshold set by continental hydropower, coal, lignite, nuclear - Market value 35 €/MWh - All technologies need subsidies - Cost of connection and subsidies for production plants paid for by citizens (EU or Greek state subsidies or energy bills) - Competitive bidding usually resulting in wealthy investors collecting subsidies facilitated by (Andros, Naxos, Paros, Tinos 220 MW wind concessions) - Profit-oriented approach with little consideration for people and planet - Risk of losing solidarity 	<ul style="list-style-type: none"> - Security of supply depending on the sun coming up in the morning - Local community microgrids able to work independently (Storm Sandy) - Competition threshold set by consumer prices, renewables cheaper than oil - Market value 95 €/MWh - (Renewable) energy technologies are economically viable - Limited need for and cost of grid extension - Need for balancing through demand side management, dispatchable production, storage, integration of power, heating and cooling and of transport - Sufficient back-up already available - People and community approach aiming at long term common well-being. Revenues flow back to local community. More respect for community and local environment
Subsidy to renewables	60 €/MWh	



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Reclaiming island self-sufficiency

Keep values local

Go 100 % local sustainable energy supply

Use what you already have

- Buildings as storage for heat and cold
- Daily (organic) waste collection, recycling

Demand side management

- Agreements with hotel and restaurant owners, potters,...
- Move power station units closer to consumers and valorize leftover heat

Add dispatchable production with benefits

- Biogas valorizing organic waste flows, waste water treatment, slaughterhouse,...

Add storage

- Improve energy efficiency of buildings
- Electric vehicles

Integrate power, heating and cooling and transport



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Action

Start small

Involve citizens

Demonstrate that you mean well

Civilization = care for the defenseless

Take everybody along

Build trust - be transparent



Schools are an excellent place combining

- buildings that often could use some renovation
- authorities that need to save money
- contact with future generations and their families
- wonderful communication basis for results



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Further action

Use momentum

Create people's bank?

- NewB bank in Belgium “An other bank is possible”
Project went public 2013
First night 10,000 people interested 200,000 € collected
By now 47,000 supporters, 2.7 million € collected
- E-banka and Open Source Bank, Croatia

Create people's green energy supplier?

Cooperative green energy suppliers all over Europe linking green energy producers with customers

- Som Energia, Spain, 2010 (17.000 customers)
- Enercoop, France, 2005 (18.000 customers)
- EWSchönau, Germany, 1994 (150.000 customers)
- Ecopower, Belgium, 1991 (40.000 customers)



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More information

Greek projects

<http://omikronproject.gr/>

www.136.gr/

www.festival4sce.org/

www.sifnosislandcoop.gr

www.agroenergy.coop/

<http://diktio-kapa.dos.gr/>

www.sxoleiomas.org/eng/

www.mobilisationlab.org/crowdfunding-keeps-kids-warm-in-greece-and-shows-the-way-forward/

www.mobilisationlab.org/in-greece-crowdfunding-is-more-than-a-fundraising-tool/

www.regions2020.eu/cms/assets/Uploads/Resources/130226-GP-CRES-buildings-schools.pdf



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More information

International

www.solarundspar.de/

www.indiegogo.com/projects/energy-independent-school

www.solarschools.org.uk/

www.solarcity.com/company/givepower

www.newb.be

www.ebanka.eu/

www.opensourcebank.net/

www.go100percent.org

100% renewable energy communities

www.renewable-world.org/

tackling poverty through renewable energy



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More information on REScoop

For more information or contact have a look at

www.rescoop.eu

www.facebook.com/pages/REScoopeu/198522540221034

or subscribe to our news alert

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www.rescoop.be

<http://communitypower.eu/>

<http://citizenergy.eu/>

www.sustainableislands.eu/

www.islepact.eu/



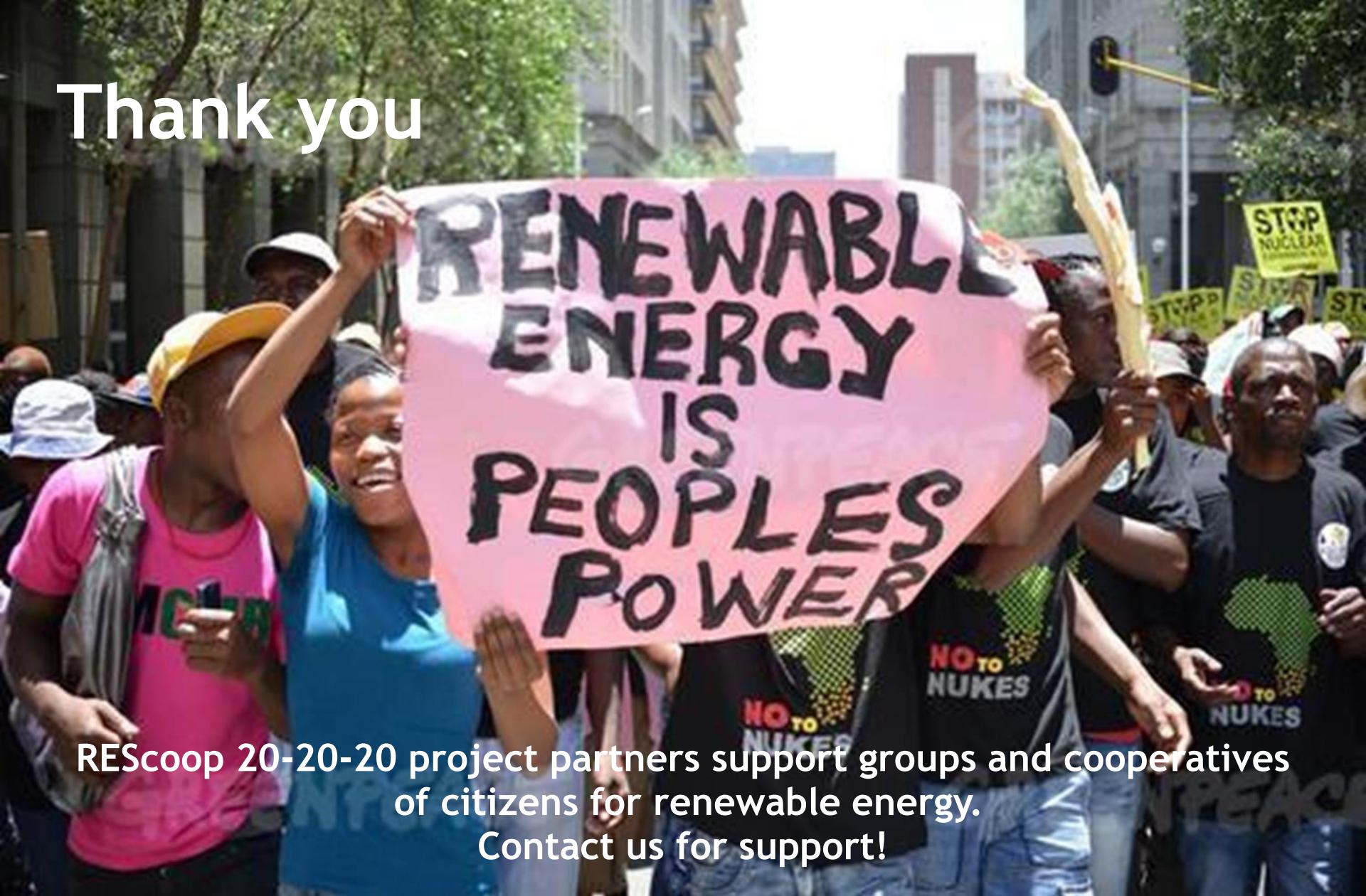
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Thank you



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



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