

Can Greek citizens seize the opportunities of the energy transition through energy cooperatives?

Dirk Vansintjan
04/ 07/ 2020

Introduction

- Dirk Vansintjan
- President of REScoop.eu
- Board member of Ecopower cv (BE)
- Don't mind getting in touch afterwards
- Presentation (too long) will be made available



What is a cooperative?

- Cooperatives are people-centred enterprises owned, controlled and run by and for their members to realise their common economic, social, and cultural needs and aspirations.
- Cooperatives bring people together in a democratic and equal way. Whether the members are the customers, employees, users or residents, cooperatives are democratically managed by the 'one member, one vote' rule. Members share equal voting rights regardless of the amount of capital they put into the enterprise.

Historic perspective



Cooperatives today

- 3 million coops worldwide
- 12% of population is member of a cooperative
- Cooperatives account for 10% of jobs
- Turnover of 300 largest coops is 2,000 billion euro



What is an energy cooperative?

- Not a technical concept (not just microgrids or energy islands)
- Not restricted to a specific legal form
- Not just a way of financing energy transition projects

- It's about democratising our energy system
- It's about taking ownership of the energy transition
- It's about inclusiveness
- It's about making sure that people can share in the profits

What is an energy cooperative?

- Groups of citizens who cooperate on energy transition projects
- Projects cover both electricity, heating and cooling, or transportation
 - Production
 - Supply
 - Distribution
 - Flexibility including storage and demand response
 - Savings
 - District heating
 - Electric car sharing
 - ...



Historic perspective

- From decentralised production
- over centralised production
- to decentralised production



Historic perspective



1900



1973



1986

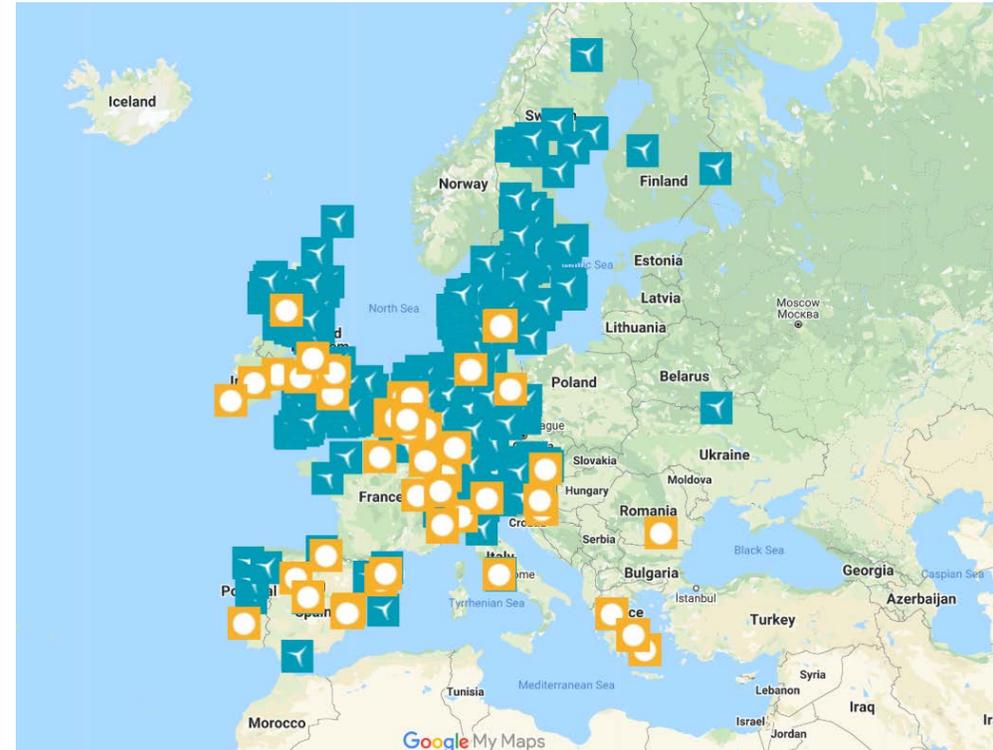


2020



Energy cooperatives today in Europe

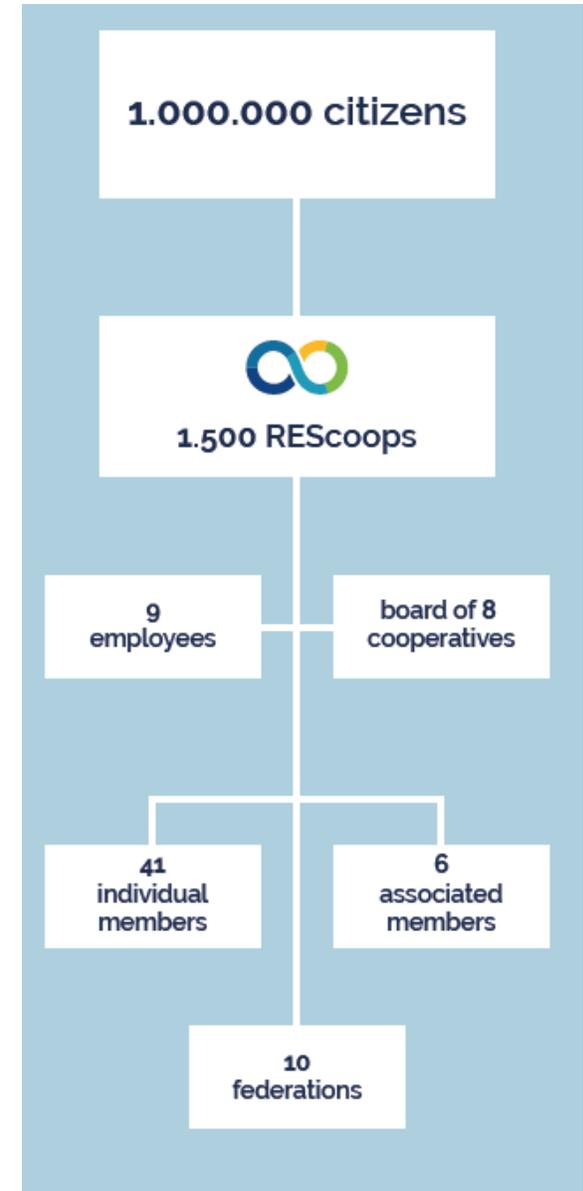
- 3.500 energy cooperatives accross Europe
- Mainly North West Europe
- Central Eastern Europe remains challenging
- Accurate data missing (national reports)



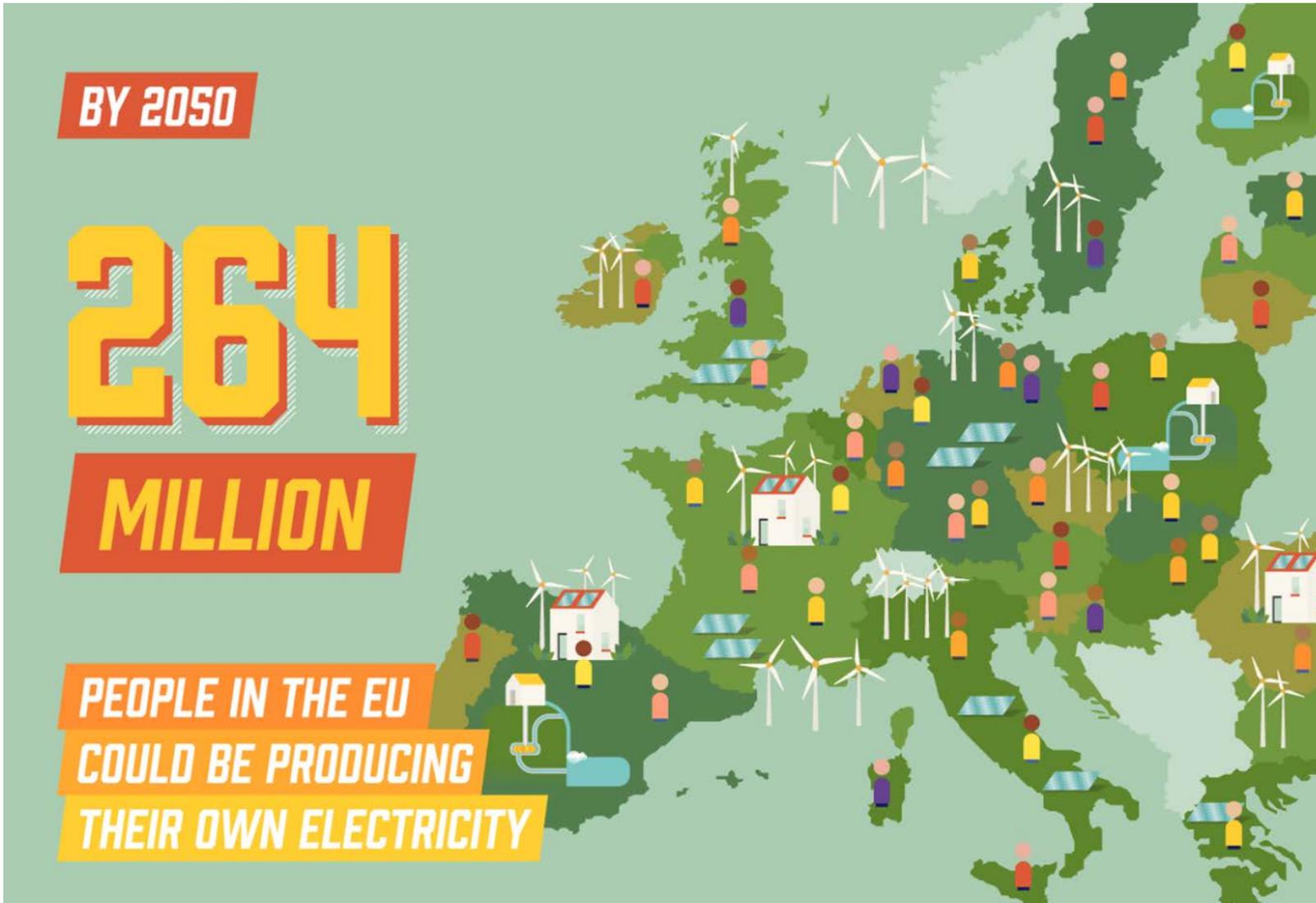
Energy cooperatives today

- Young federation
- 1 million citizens
- 1.500 energy cooperatives
- Direct or indirect representation
- Main objectives
 - Ensuring citizens' and coops voices are heard in the energy policy debates
 - Fostering international collaboration between citizen energy cooperatives
 - Helping cooperatives to grow and prosper
 - Promoting the cooperative model

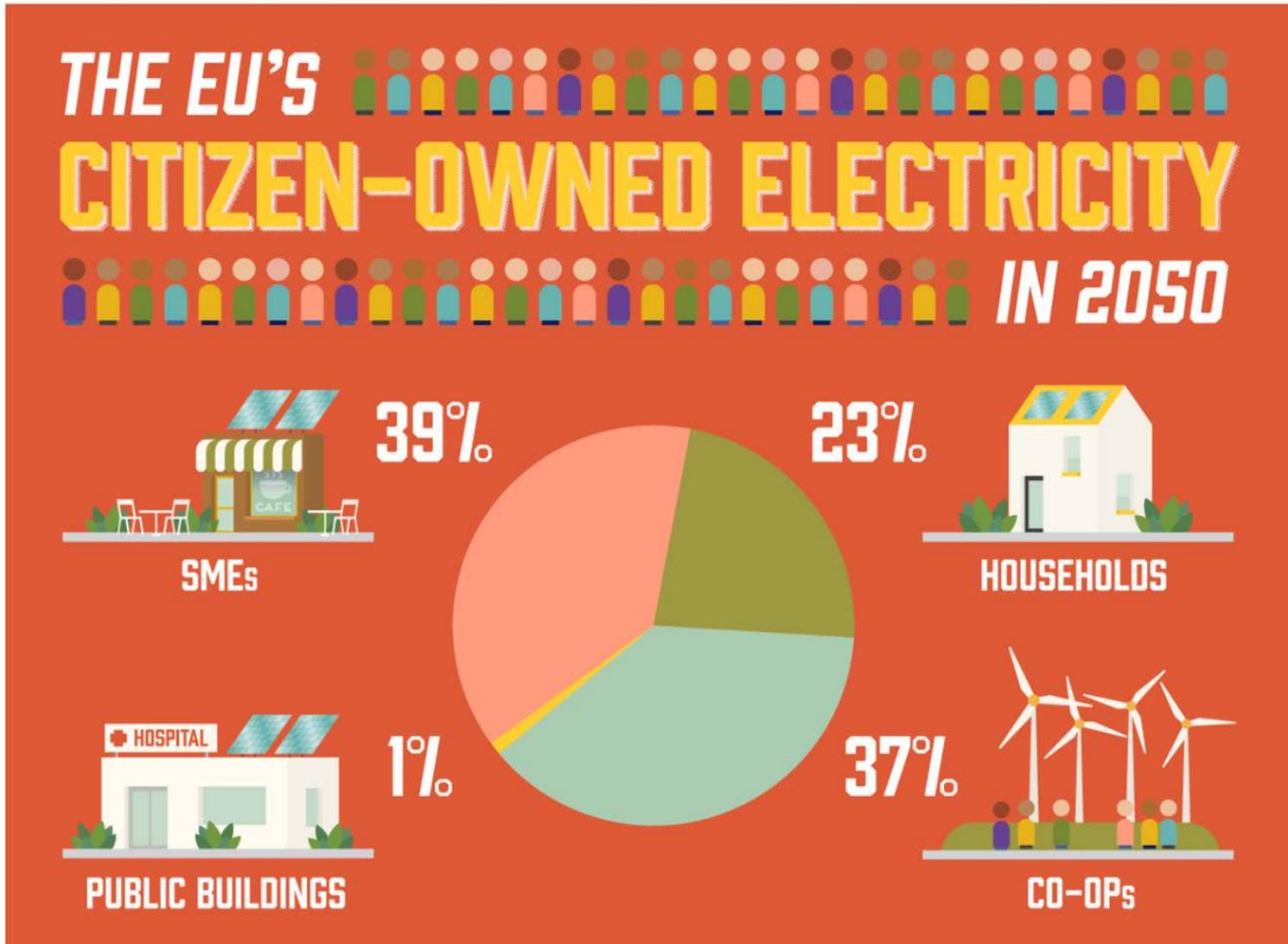
RESCOOP.EU



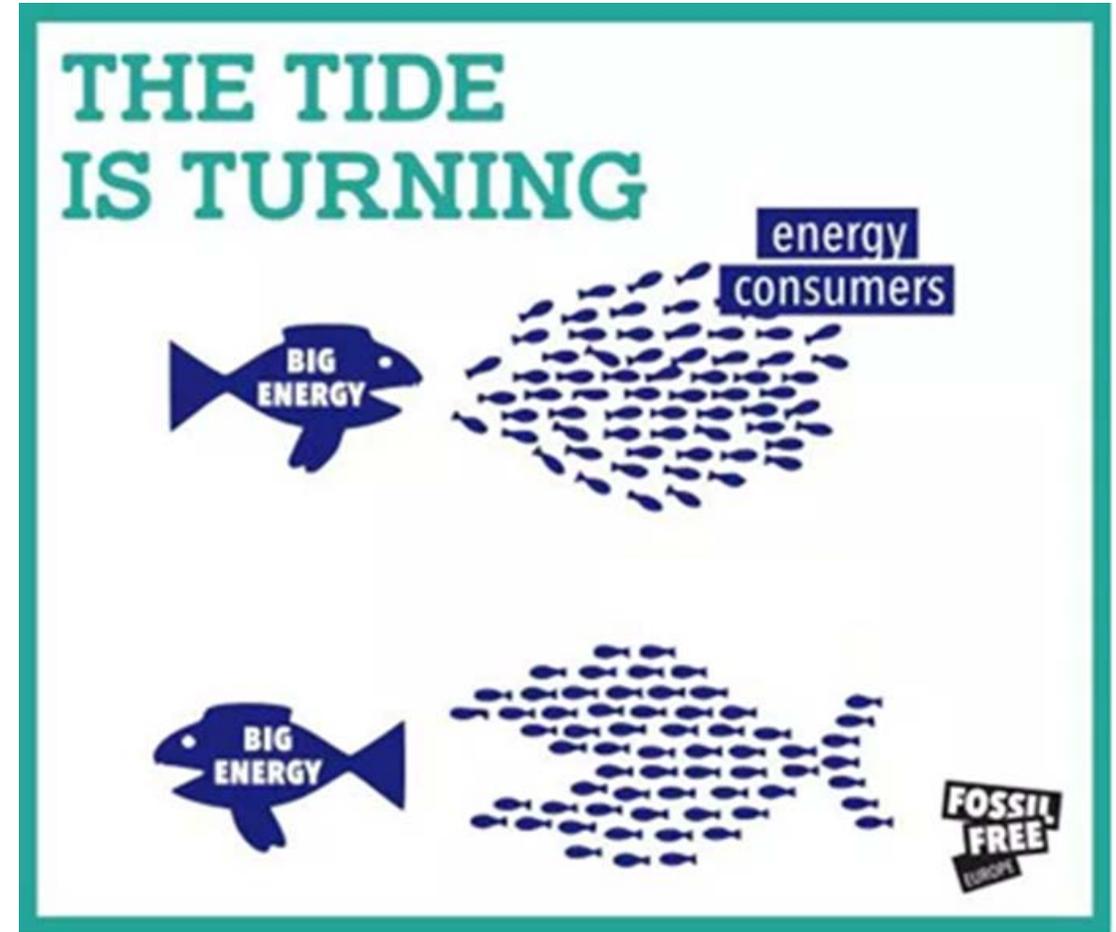
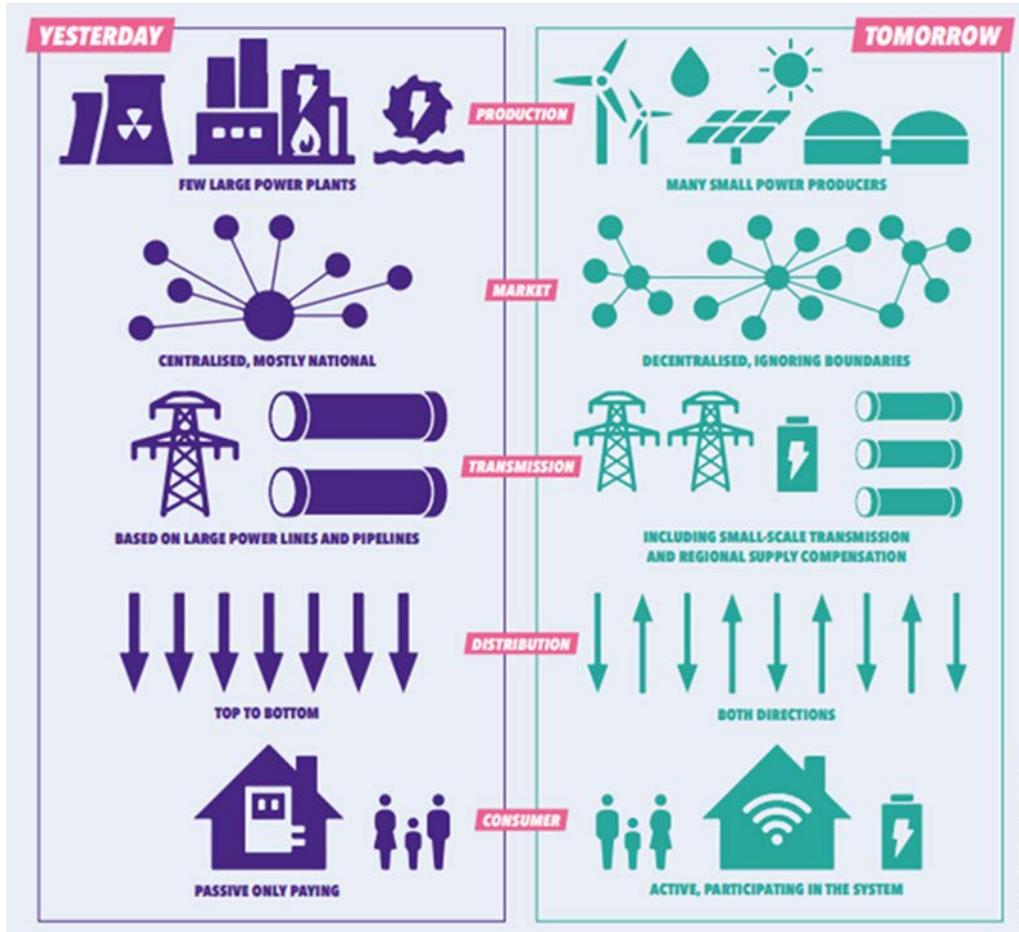
Energy cooperatives in the future



Energy cooperatives in the future



Energy cooperatives in the future

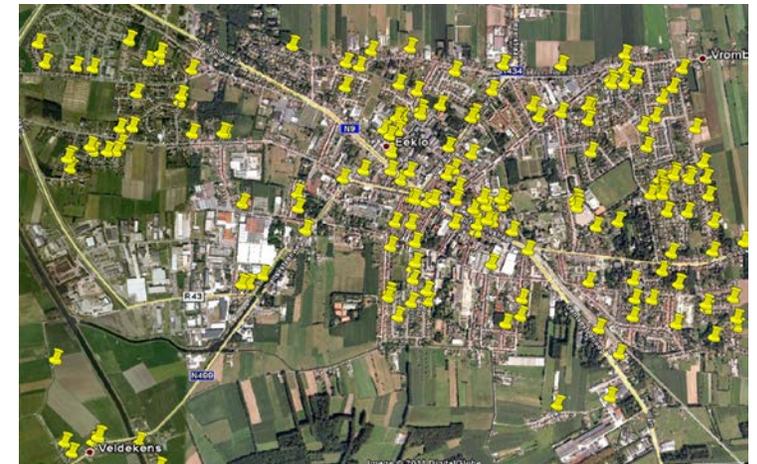


Energy cooperatives in the future



Benefits of energy cooperatives

- Fostering social acceptance for the energy transition
- Keeping individual investment and energy bills affordable
- Sharing profits with members and larger community
- Building a sense of community
- Retaining money within the local community, now leaving local economy





Activities and business models

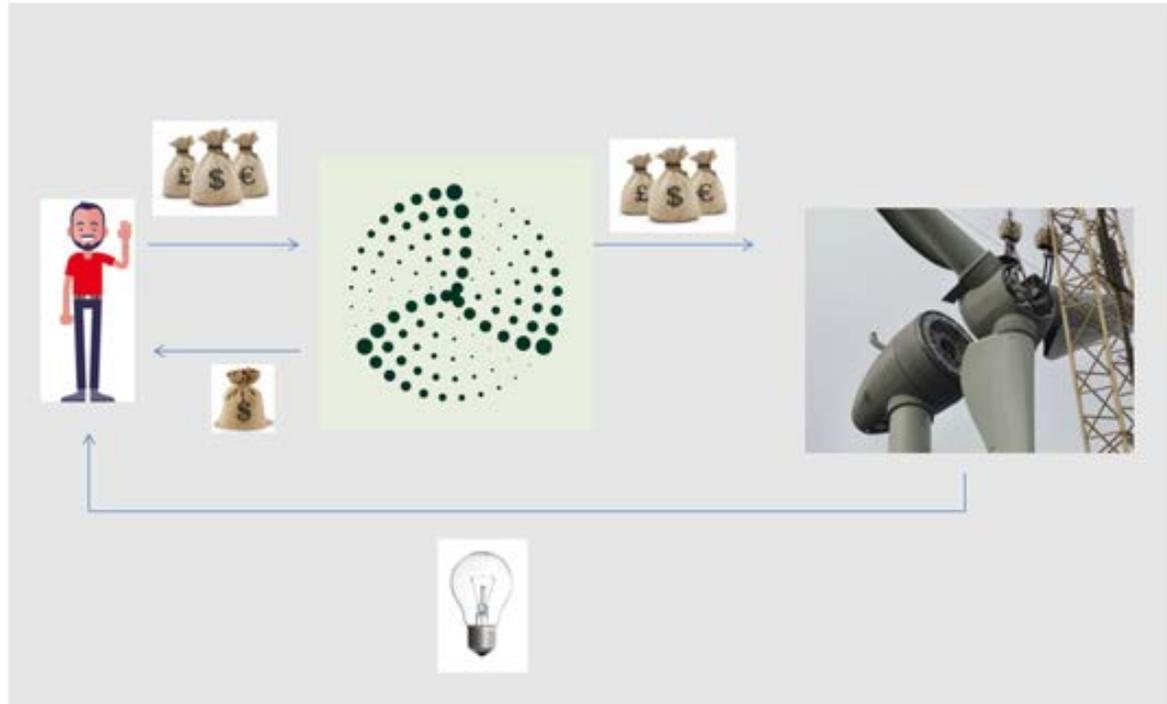
Producers of renewable energy



Suppliers of renewable energy



Producers & suppliers of RE



Distribution system operators (DSO)



Energy monitoring



Samen slimmer met energie

EnergieID helpt je met meten en opvolgen van energie, water, afval en transport, individueel én collectief.

[Aan de slag >](#)

Gebruik je al EnergieID? [Inloggen](#)

energieID

Rapporten > Elektriciteit

Algemeen overzicht | Cumulatief overzicht | Handtekening | Historisch overzicht

Maand	Werkelijk	Verwacht
jan	250	300
feb	220	280
mar	240	260
apr	180	220
mei	200	210
jun	180	250
jul	200	220
aug	150	180
sep	220	200
okt	240	230
nov	260	250
dec	280	270

Metingsovens tot 31 december 2017

Verwachtingsmodel Niet klimaatgebonden

Betrouwbaarheidsniveau Zeer betrouwbaar

Versheid -348,7 kWh -11,4%

“ One person can make a difference and everyone should try.

– John F. Kennedy

Interactive invoicing

soim energia

INFORME ENERGÉTICO INICIAL - MARZO 2018

DATOS PERSONALES
 Nombre
 Apellido Apellido
 Dirección de suministro
 CUPS ES00000000000000000000

COMPARATIVA ANUAL

4 % Ahorro económico
 8 % Ahorro energético

Cómo puedes ahorrar?

Tarifa actual: 2,0€
 Tienes contratada la tarifa sin discriminación horaria (DHO). Tienes el mismo precio durante todo el día. Utilizas un 30% de la energía en periodo Valle. Como supera el 30%, te recomendamos cambiar a la tarifa 2.0DHA con discriminación horaria. Más información aquí.

Potencia actual: 4,1 kW
 Revisa que potencia necesitas. En [valor añadido](#) tienes más información.

RECOMENDACIONES

Cambio de tarifa y potencia normalizada inferior
 10% 86,45€/año
 Clica aquí para hacer el cambio

Cambio de tarifa y potencia normalizada superior
 4% 33€/año
 Clica aquí para hacer el cambio

Soim Energía, SCLL, CIF F53081367 | Domènica Pujol de Peguera, 11 A.28 - 17003 - Girona | info@energia.com | www.energia.com

COMPARATIVA CON HOGARES SIMILARES

Esta escala muestra tu eficiencia en relación a hogares similares.

Los hogares similares son 263 viviendas.

2,000 a 2.142 kWh/año (A)
 2.145 a 2.284 kWh/año (B)
 2.285 a 2.426 kWh/año (C)
 2.429 a 2.571 kWh/año (D)
 2.572 a 2.714 kWh/año (E) **2.622 kWh/ano**
 2.715 a 2.857 kWh/año (F)
 2.858 a 3.000 kWh/año (G)

O consideramos hogares similares porque compartis estas mismas características:

- USO DE ENERGÍA ANUAL DE 3.000 a 3.000 kWh
- TARIFA SIN DISCRIMINACIÓN HORARIA (2,0 A)
- POTENCIA CONTRATADA DE 4 a 5 kW
- ZONA CLIMÁTICA Inviernos gelidos y veranos calurosos (D3)
- DEPENDENCIA CLIMÁTICA DE INVIERNO
- DEPENDENCIA CLIMÁTICA DE VERANO

QUÉ ES INFOENERGÍA

Información para la acción
 No nos interesa "mirar como lo haces", sino "qué puedes hacer para mejorar". Queremos que puedas reducir potencia, cambiar tarifas, invertir en renovables, autoproducción y ahorro energético.

Informes periódicos
 6 Informes periódicos que recibirás por e-mail con información práctica para ahorrar energía y dinero.

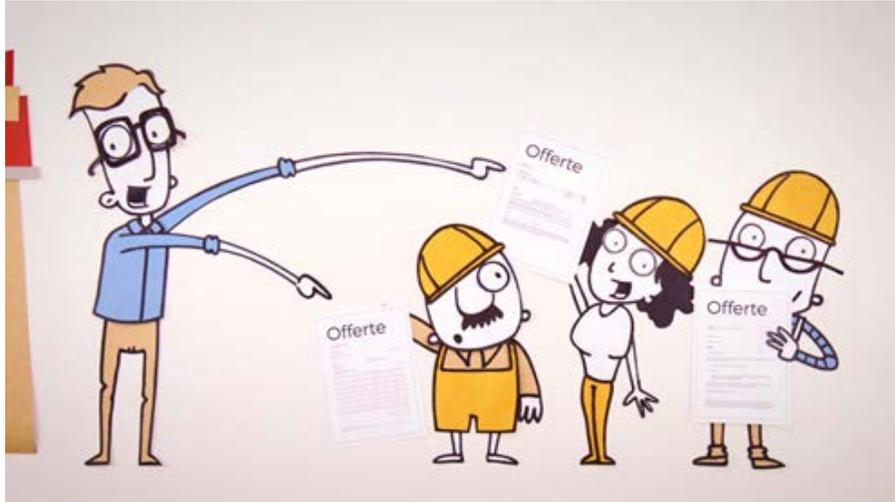
Un espacio en la Oficina Virtual
 Con más información sobre el uso horario en caso de disponer de un contador con telegestión activada.

MÁS INFORMACIÓN >>>

La información de Infoenergía nunca coincidirá con los datos de facturación. Los Informes utilizan datos horarios o mensuales basados en meses naturales, en cambio, las facturas se generan con otros periodos y datos de origen.

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Collective home retrofits



Training programmes



GENERATION ZERO WATT

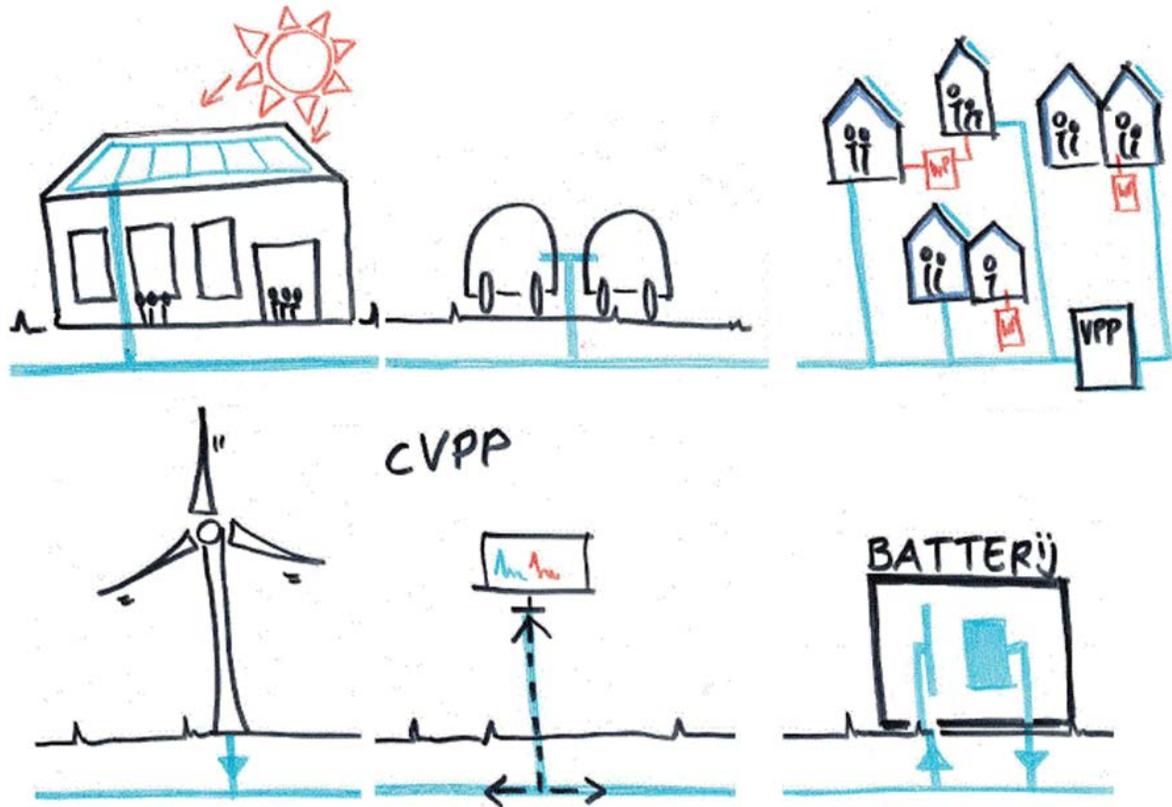
[Accueil](#) [Déroulement](#) [Boîte à outils](#) [Pré-inscription](#) [Contact](#)



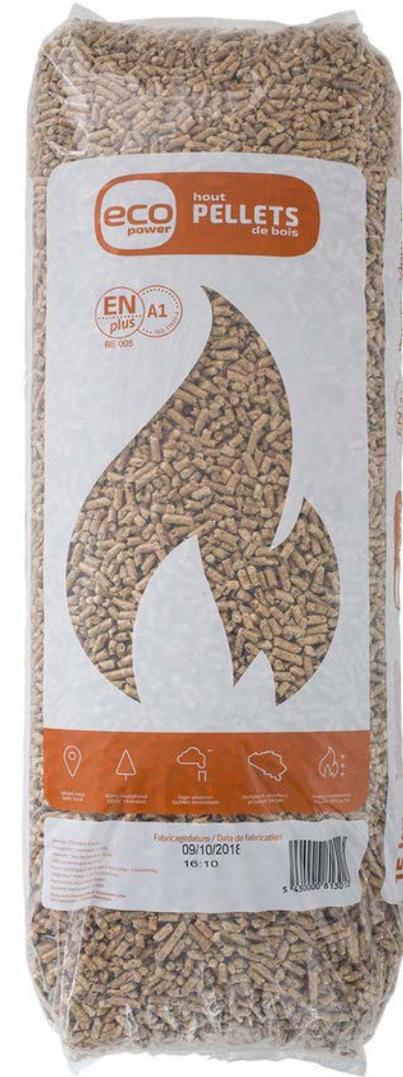
Public street lighting



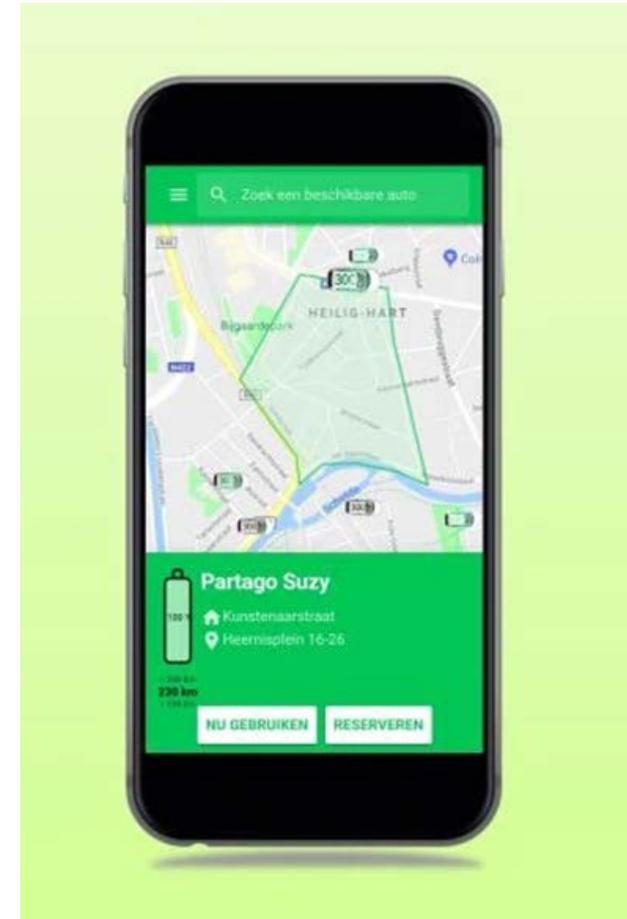
Flexibility, demand response and VPP



Heating



Transportation





Financing and ownership models

Crowdfunding categories

Donation

No ownership

No payback

Loans

No ownership

Payback

Low risk

Low return

Green bonds

Equity

Ownership

No payback

High risk

High return

Balance sheets

Assets

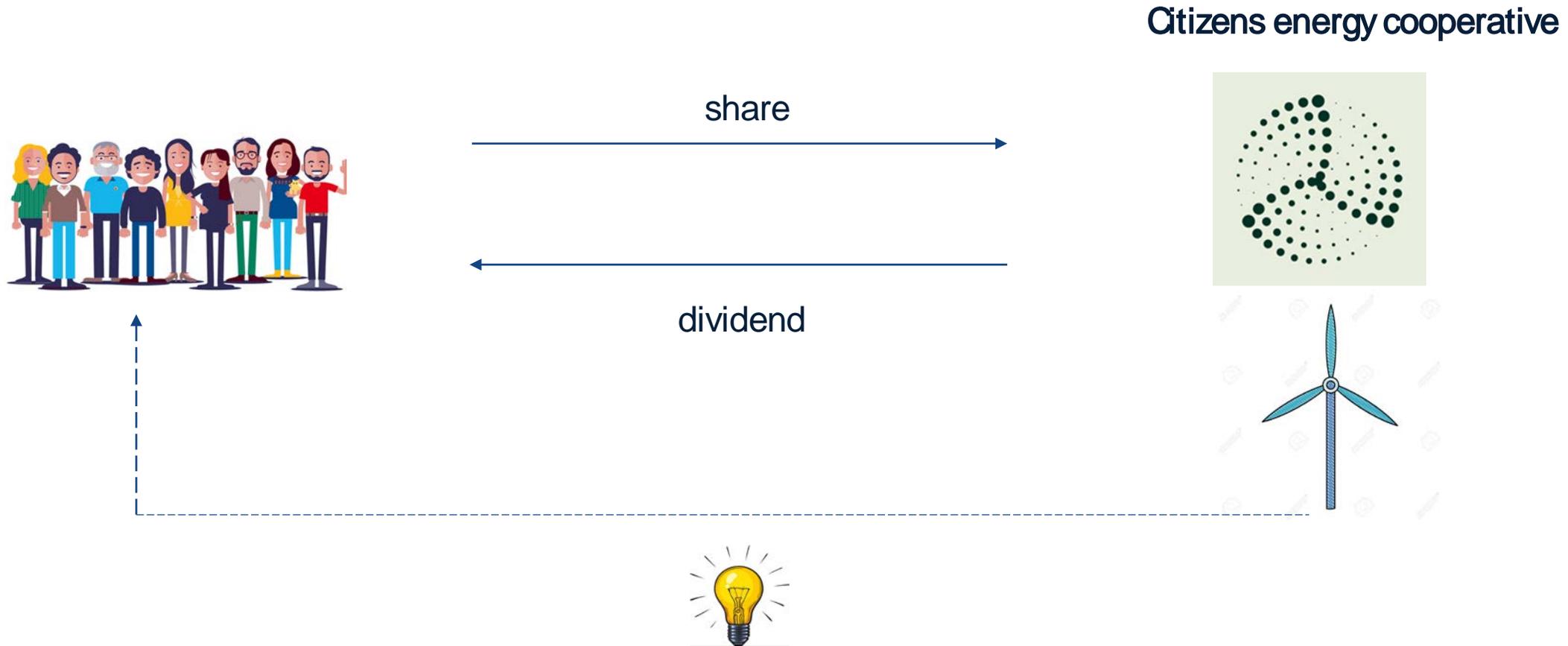


Equity & liabilities

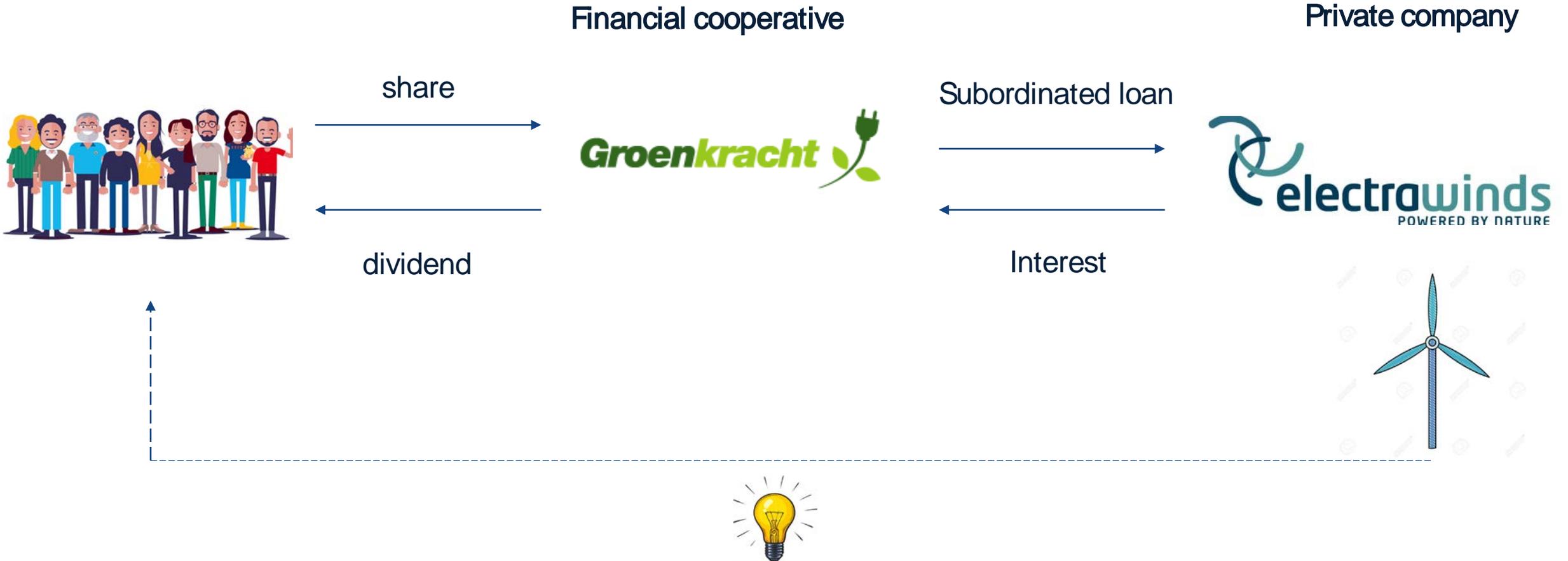
- Equity Capital
- Mezzanine
- Subordinated loans
- Loans

Picking order

Citizens own the installations



Citizens own a subordinated loan



Not always easy to distinguish



share



dividend



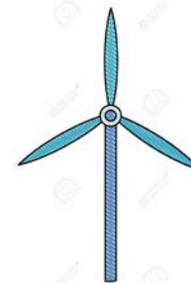
loan



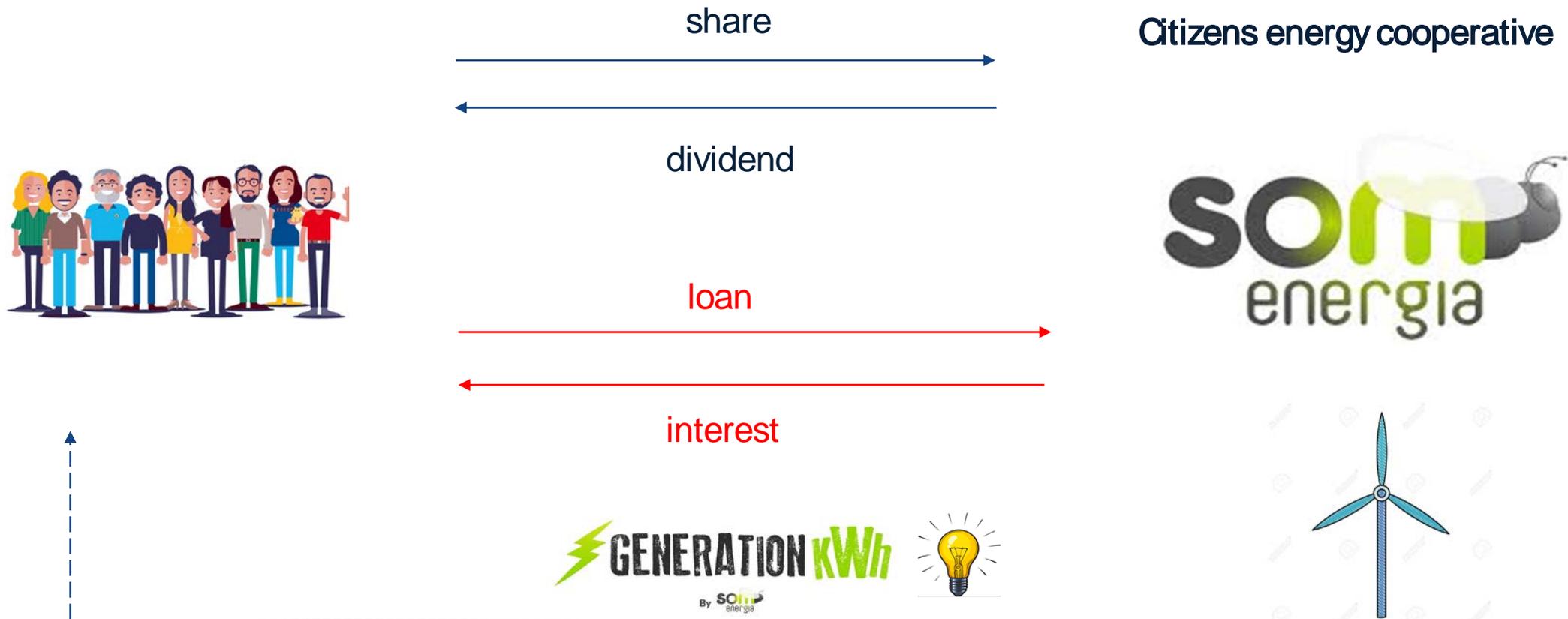
interest



Citizens energy cooperative



Not always easy to distinguish



Share offers

Project specific



Not project specific



Share offers



100% COMPLETADO



Alcolea del Río
Alcolea del Río (Sevilla)

Coste del proyecto
2.000.000€

Estado
Generando kWh

MÁS INFORMACIÓN



100% COMPLETADO



Planta Fotovoltaica Fontivsolar
Fontiveros (Ávila)

Coste del proyecto
800.000€

Estado
Generando kWh

MÁS INFORMACIÓN



Planta Fotovoltaica La Serra
Anglesola (Lleida)

Coste del proyecto
1.800.000€

Estado
En trámite administrativo

MÁS INFORMACIÓN

Inversión prevista para los 3 proyectos: 4.600.000€

Objetivo actual: 4.600.000€ hasta 30/06/2020

Aportación actual 4.259.150€ de 4.600.000€

APORTAR

Legal entities operating several projects

One legal entity



Several legal entities



RESCOOP.EU

Return on investment

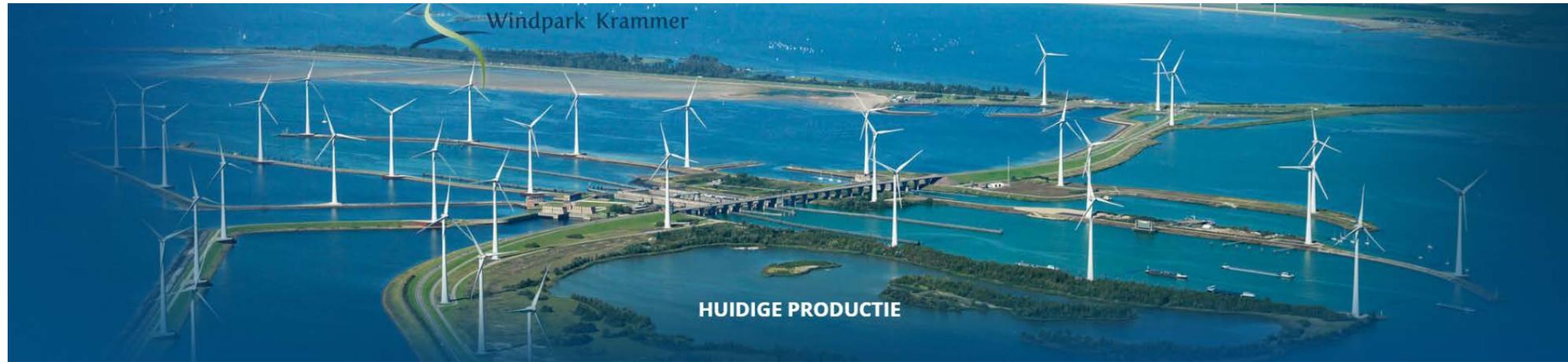
A variety of possibilities

- Regular dividend
- Season ticket or ...
- Lower energy price
- Charity
- Public buildings
- Fighting energy poverty
- ...



Financing needs of energy cooperatives

Doing big projects



LID WORDEN
VAN



Lees verder

LID WORDEN
VAN



Lees verder

PARTNER



Giving commercial projects back to citizens



Providing seed capital



loan



loan



guarantee



REScoop MECISE sce

REScoop.EU

REScoop.eu (Europe)
www.rescoop.eu



Ecopower (Belgium)
www.ecopower.be



Courant d'Air (Belgium)
www.courantdair.be



Enercoop (France)
www.enercoop.fr



Som Energia (Spain)
www.somenergia.coop



Energy4All (United Kingdom)
www.energy4all.co.uk



REScoop
MECISE



Collaborations with local authorities

Sustainable Development Goals

SUSTAINABLE DEVELOPMENT GOALS



Covenant of Mayors



- Lack of expertise
- Lack of funds to accelerate the energy transition
- Capacity constraints
- Insufficient support for RES projects

Natural allies

- **European**
 - Scotland: 1GW by 2020 – 2GW by 2030
 - Netherlands: wind and solar 50% owned by citizens
- **Regional Belgium**
 - Wallonie: 24,99% citizens, 24,99% councils
 - Flanders
- **Provincial Belgium**
 - East Flanders: 20% citizens + councils
 - Limburg: 20% citizens + councils
- **Local Belgium**
 - Laarne
 - Kuurne
 - Eeklo



Collaborations

- Public ownership
- Private ownership
- Public-private ownership
- Public-community ownership



Public-community ownership models



Public-community ownership models



Collaborations with local authorities



Collaborations with local authorities

**KLIMAAT
SCHOLEN** 2050

HOME ZON OP JOUW SCHOOL? ENERGIEMONITORING VERBRUIK MINDER INFO CONTACT

RESCOOPS EN KATHOLIEK ONDERWIJS VLAANDEREN PRESENTEREN

KLIMAATSCHOLEN 2050



Zon op jouw school?

Plaats zonnepanelen op de schooldaken waarbij ouders, grootouders, oud-leerlingen,.... investeren in de installatie!

[LEES MEER](#)



Energiemonitoring

Benieuwd naar jouw energieverbruik? Start nu de gratis energiemonitoring en hou je verbruiken nauwkeurig bij. Automatisch!

[LEES MEER](#)

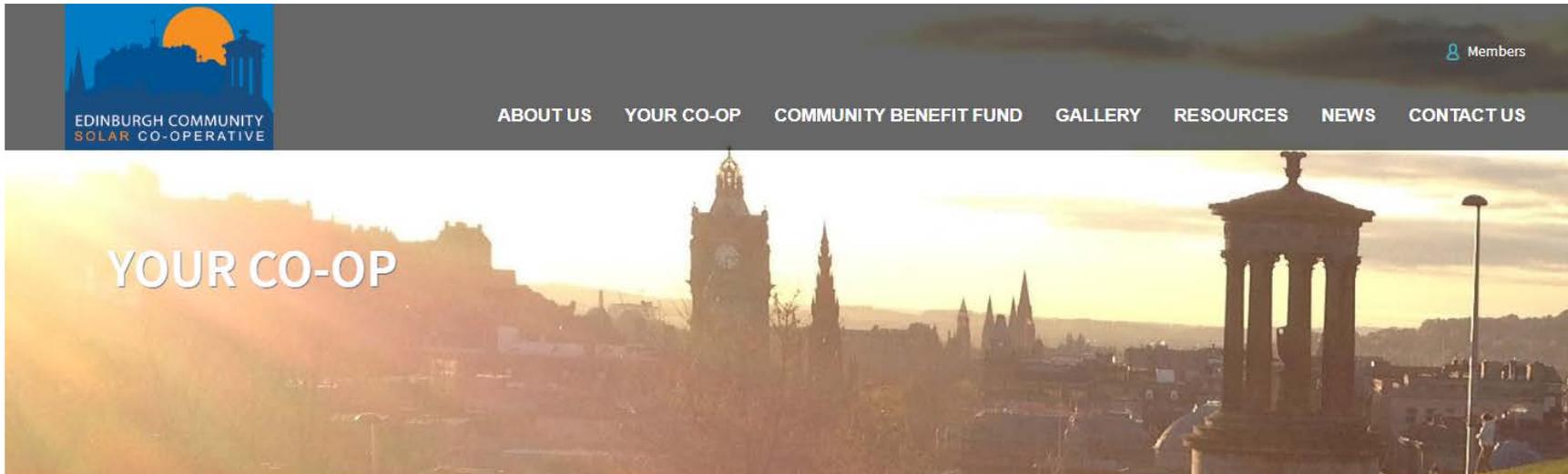


Verbruik minder!

Heeft jouw school torenhoge energiekosten? Met begeleiding en energiecoaching kan je er iets aan doen.

[LEES MEER](#)

Collaborations with local authorities



Edinburgh Community Solar Co-operative (ECSC) is a Society that is guided by the [Principles of Co-operation](#) and owned by its members. It offers Edinburgh residents an opportunity to own the generation of clean, green, renewable energy. Members elect directors and each member has one vote regardless of the number of shares held. Members are protected by limited liability and are only obliged to contribute the initial cost of their shares.

As a Community Benefit Society, Edinburgh Community Solar Co-operative is governed by [Rules](#) which are approved by and registered with the [Financial Conduct Authority](#).

The Society is run by a [Board of Directors](#). The Board works with [Energy4All](#) who carry out the day to day running of the ECSC, and City of Edinburgh Council who own the buildings our solar panels are hosted on. We want to ensure that local people share in the benefits from the project through an ethical investment.

A registered society is the legal entity which enables the community to own assets such as a solar scheme. The society subscribes to co-operative values which include

- a commitment to equality, fairness, honesty and social responsibility
- It also follows key principles such as operating in a democratic manner (one member one vote – regardless of how large or small a member's

IN THIS SECTION

- > [How it Works](#)
- > [Rules](#)
- > [F.A.Q's](#)
- > [Solar Panel Locations](#)



What can local authorities do?

- Join REScoop.eu and become part of a movement
- Recognize role of energy cooperatives in tomorrow's energy system
- Give visibility to energy cooperatives and emphasize benefits
- Consider citizen participation in public tenders

What can the Greek government do?

continue support of energy communities

- design and adopt specific measures (enabling framework REDII)
- transposition guidance document



What can the Greek government do?

don't overwhelm and
overrule the local
people and local
authorities

=

recipe for failure of
energy transition

Home / News / Politics / Greece / Tinos: Riot police uses force against locals protesting wind turbines



TINOS: RIOT POLICE USES FORCE AGAINST LOCALS PROTESTING WIND TURBINES

🕒 May 20, 2020 📁 Greece 💬 2 Comments

👍 Like 180

🐦 Tweet

📌 Bewaren

➦ Share

🗨️ 12

Riot police moved against residents of the island of Tinos protesting against the installation of windmills in Prasa area of the island in the Aegean Sea..

What can the Greek government do?

let them design their own
transition plan

leave profits locally

=

guarantee of successful
energy transition

- 50% offered to local
stakeholders (NL)



What can Greek local authorities do?

- Adopt energy communities in their local strategies
- Get in touch with your citizens
- Facilitate set-up of “energy community”
 - Facilitate a secretariat for the volunteers
 - Provide subsidies (‘citizen budget’)



What can the Greek citizens/ communities do?

embrace the model
energy transition
=
a unique chance



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