

Energy Communities

from multiple perspectives

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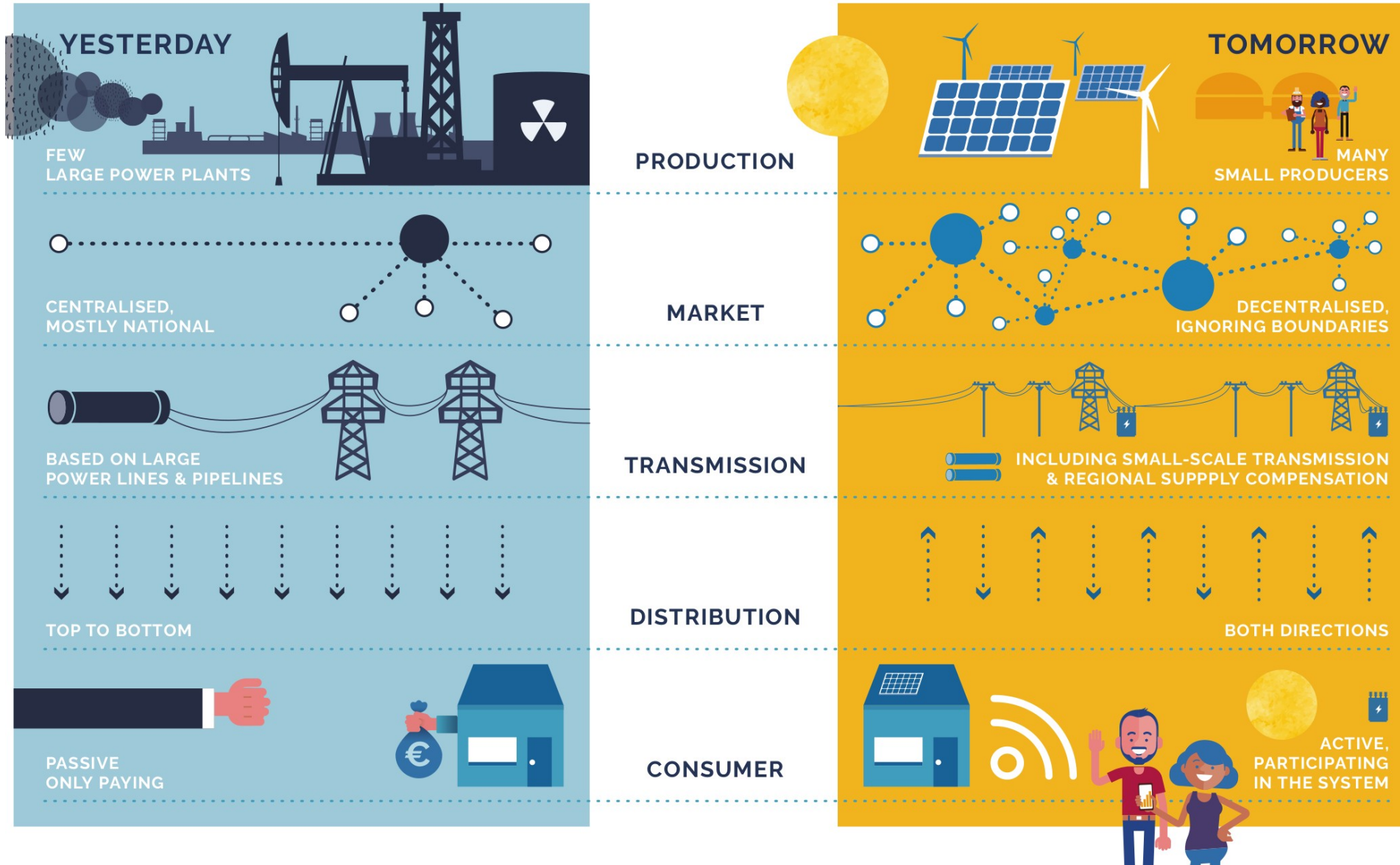
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Agenda

- 1. Context: Climate Change+ Energy System transformation**
- 2. Energy Communities: different perspectives**
- 3. Projects in Portugal and wider Europe**

Context: Ongoing energy system transformations



Energy Communities from multiple perspectives

**Energy
Communities**

Concept

Social

Legal

**Tecnical-
Económicoal**

Primeira comunidade de energia nasce em Miranda do Douro. Governo quer mais, para ajudar a baixar fatura da luz

Bárbara Silva
24 Agosto 2021



Inaugurado primeiro projeto em Miranda do Douro, que vai baixar gastos energéticos em 10% face ao preço de mercado. Galamba revela que mais comunidades de energia serão aprovadas em breve no país.

AMBIENTE

A primeira comunidade energética do Porto vai nascer na Asprela

A REVOLUÇÃO ENERGÉTICA ESTÁ A CHEGAR AOS BAIRROS: DAS COMUNIDADES DE ENERGIA RENOVÁVEL AOS BAIRROS DE ENERGIA POSITIVA

Publicado por Filipa Cardoso | Ago 27, 2021 | Energia, Notícias, Tendências urbanas



The idea

“refers to people in a community cooperating on energy issues.”



Cooperation

Colective Action

Energy Sector Activities

Social Perspective



Decision Process

Energy as commons

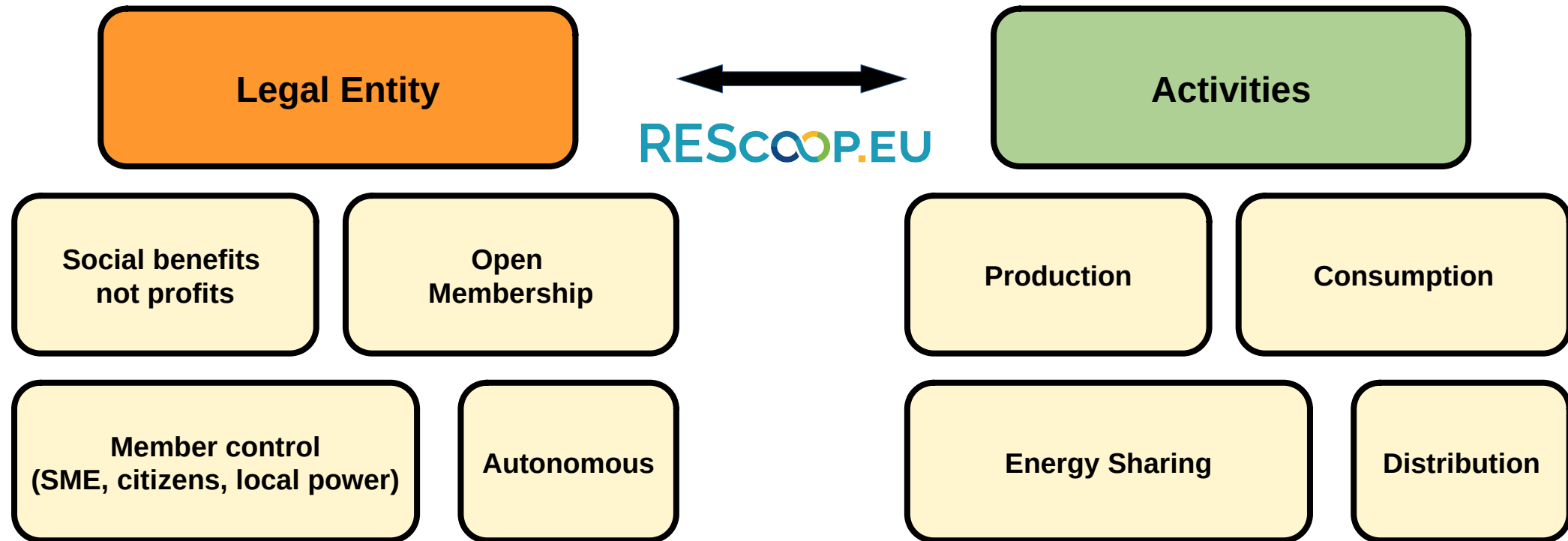
Energy Democracy

Other questions:
Energy poverty,
gender, race

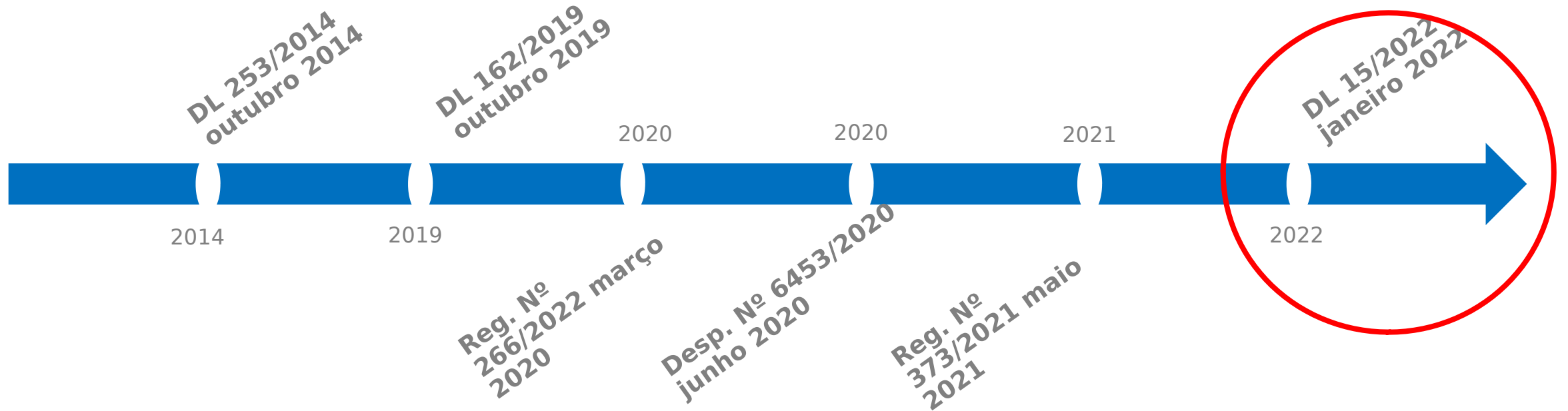
Legal Perspective (UE)

Clean Energy Package: RED II + MIED

Renewable Energy Communities + Citizen Energy Communities



Legal Perspective (Portugal)



Colective Entity

Open Membership

**Economic, social and
environmental benefits**

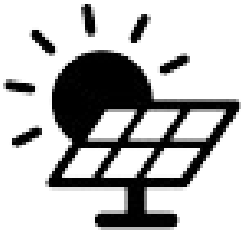
Legal Perspective (Portugal)



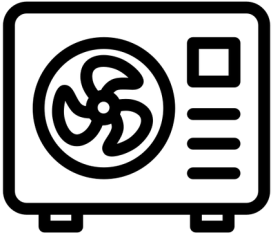
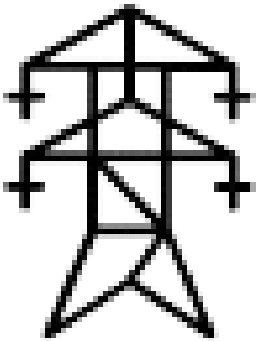
Technical - Economical perspective

Activities

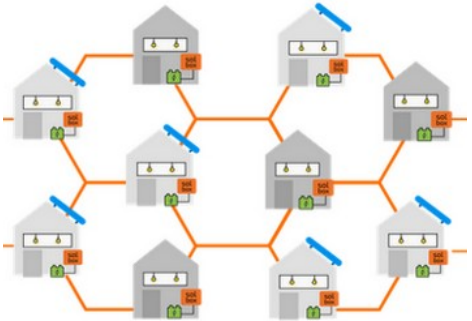
Production



Distribution



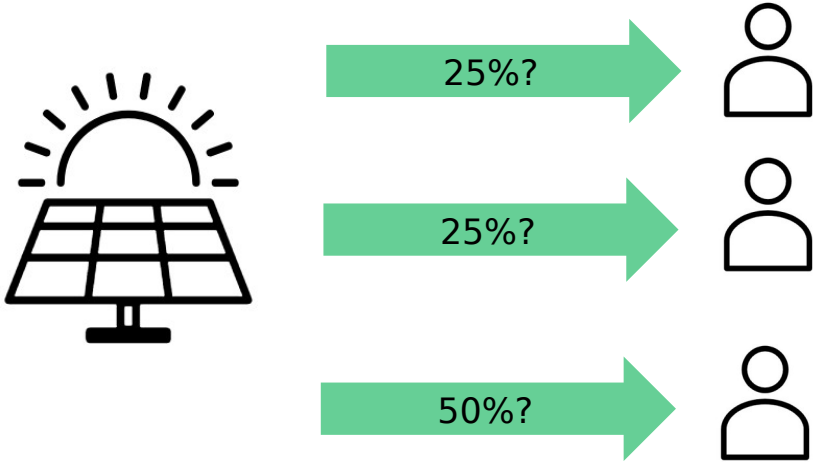
Energy Sharing



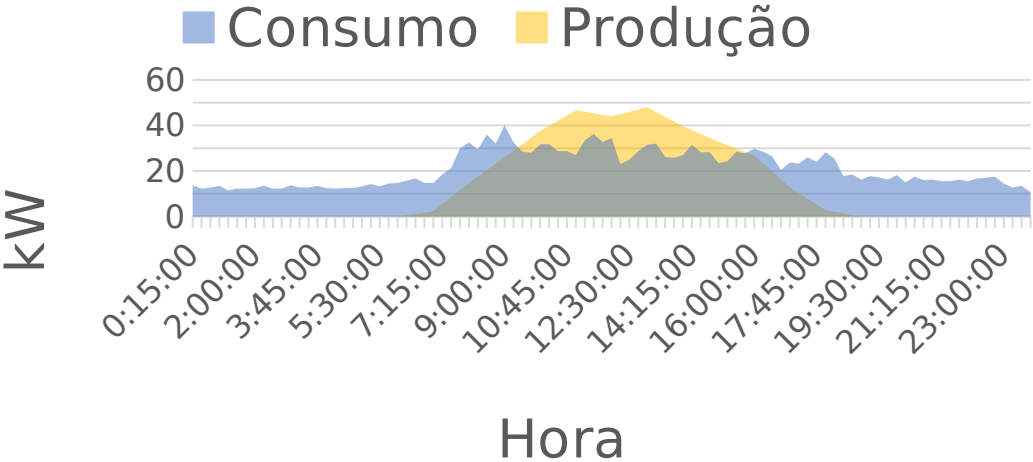
Consumption

Collective Self-Consumption

**Activity:
Collective Self-Consumption**



- 1. Available space for a PV system
- 2. 2+ CPE
- 3. Proximity
- 4. Smart-Meters
- 5. Internal regulation
- 6. EGAC
- 7. Sizing and instalation project



Projects



Projects



HYPERION (Athens, Grécia)
First Energy Community in Athens
(Electra Energy Coop)

Projects



Comunidad Energética de Monachil (Granada)
Cooperation between the municipality and a local
cooperative offering energy excess to families
living in energy poverty

Projects



REPOWERING LONDON (UK)

Support for the creation community energy projects on social housing

COOPERATIVA DE CAR-SHARING (Bélgica)
E-car sharing cooperative founded in 2015 operating a fleet of 74 electric cars. Also uses a cooperative management platform



Projects



Aldeia de São Luís (Alentejo):
120kW system: 75k€ from participatory budget (kindergarten, school, public buildings)

Ilha da Culatra (Algarve):
Pilot project involving university, municipality, local association

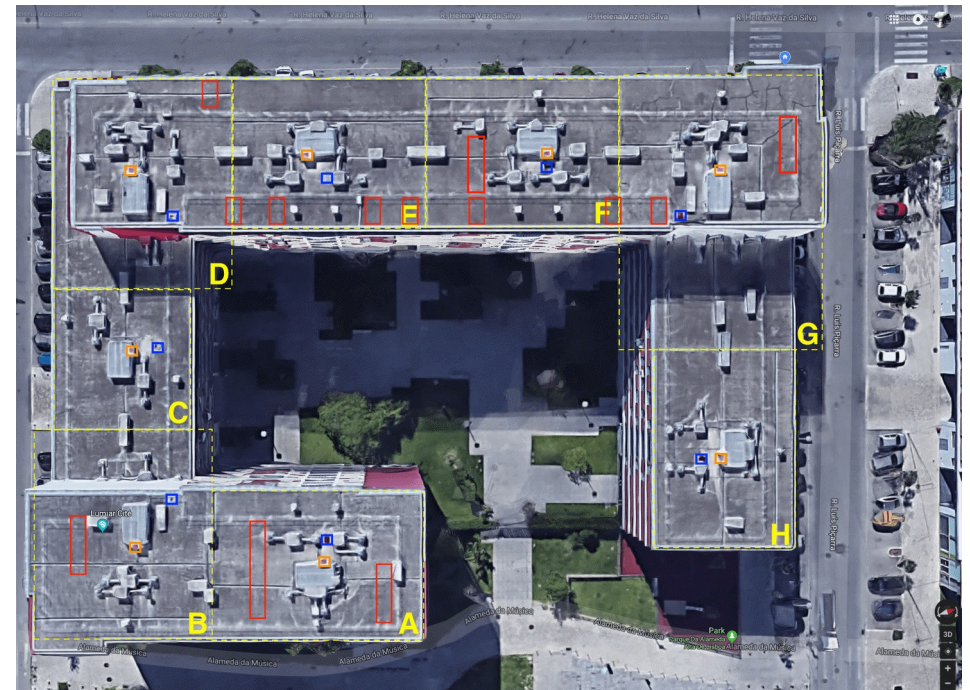


Projects

Vila Boa do Bispo parish



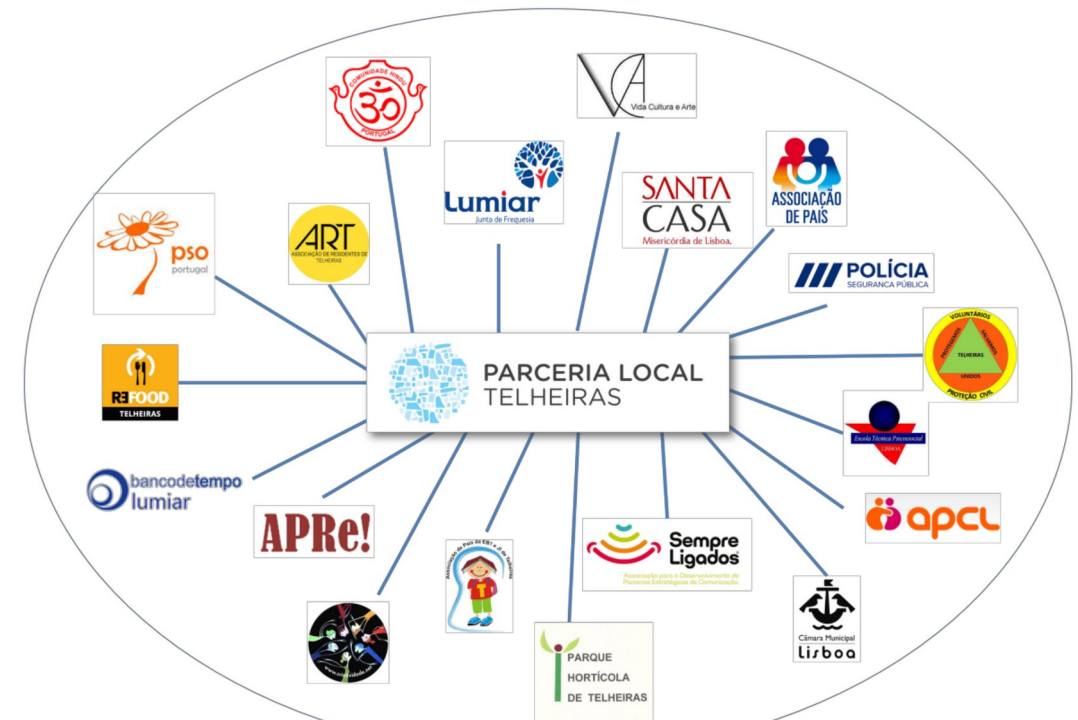
Alta de Lisboa



BAIRRO DE TELHEIRAS, LISBOA

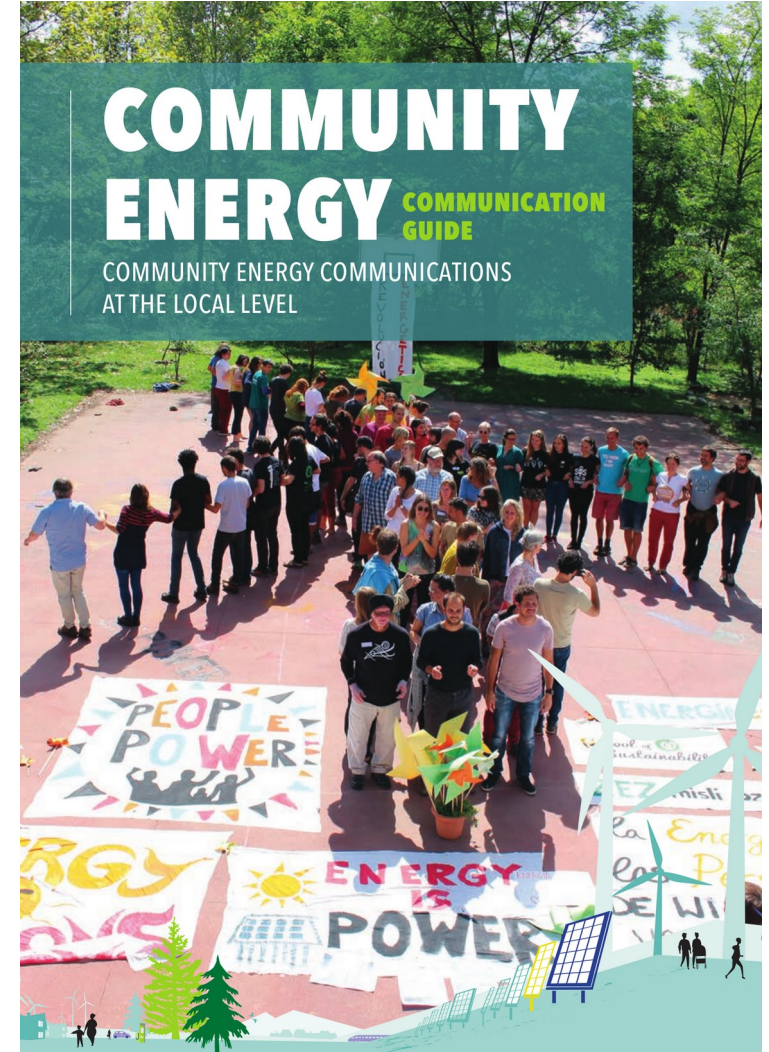


Localização do bairro de Telheiras em Lisboa, Portugal



A Parceria Local de Telheiras junta mais de 20 entidades locais desde 2013

Practical guides



Thank you !

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