



Regulatory Frameworks for Community Energy

31 August 2023

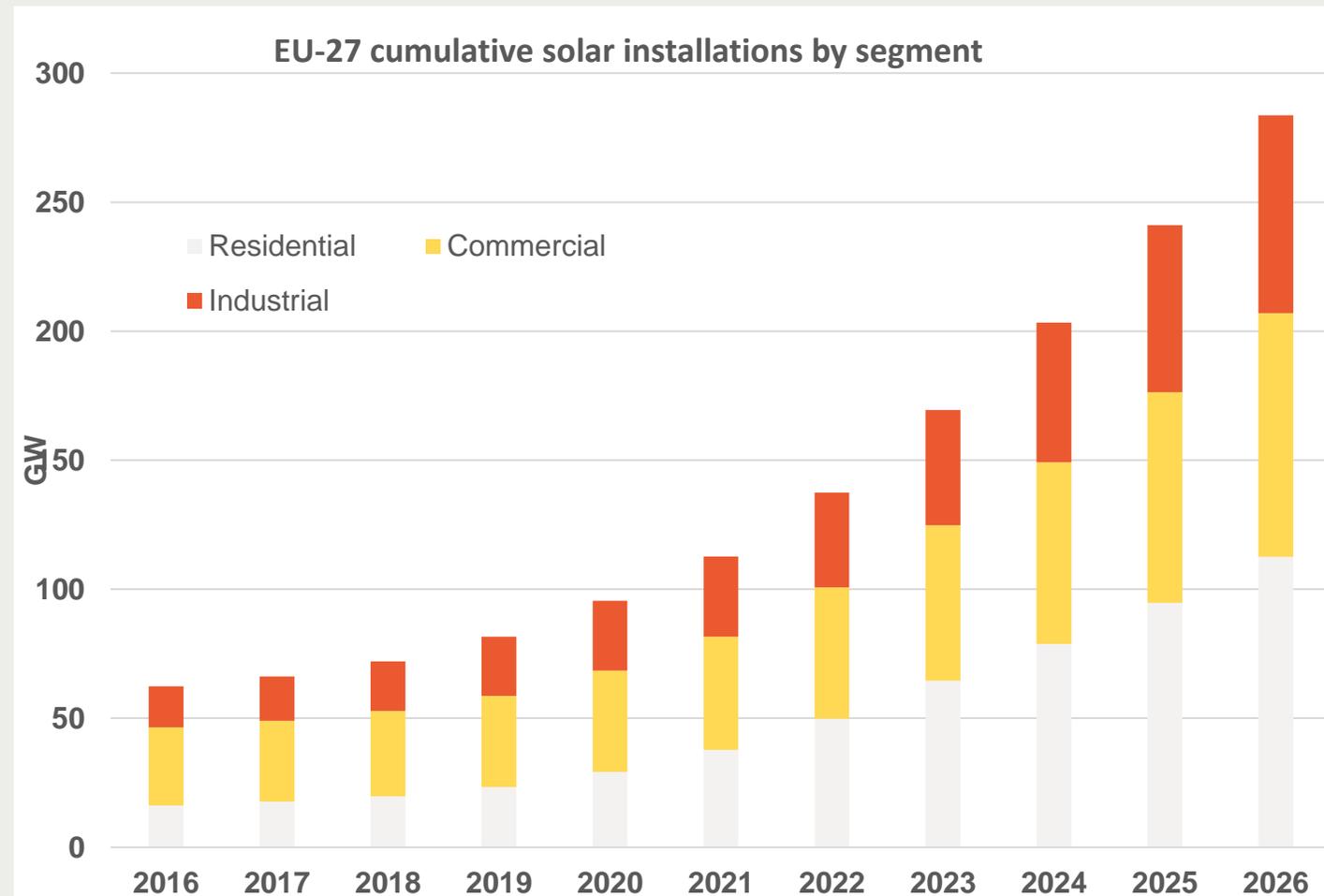
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Demand for solar reached new heights in 2022

- **Europeans ran for solar to protect themselves against high energy prices**
- Annual solar installation growth increased from 9 % (2021) to 48 % (2022) in the commercial and industrial sector and by 42 % (2022) in the residential sector
- 2022 cumulative installations power the equivalent of 41 million homes



The solar market is booming

But the existing frameworks have problems

50% of citizens are excluded

Multi-dwelling units

Unsuitable roofs

We shouldn't subsidise forever

Feed-in tariffs

Solar is CAPEX intensive

Grid congestion

Net-metering + net-billing congest grids

Limited self-consumption potential

Demand for grid electricity remains





Imagine you have an apple tree

Your big apple tree produces more apples than you need

Your friend loves apples but doesn't have a tree

You 'share' apples with her



Energy sharing is a bit like that. But instead of apples, we're talking about electricity.

Real-word example: GD Feirense energy sharing



- **Solar panels (645 kWp) on GD Feirense football stadium** in Santa Maria da Feira, Portugal.
- **85% of the produced energy will be shared with families and corporates located in a 4 km radius.** The fee is expected to be 30% lower than the energy rate of market suppliers.
- **Greenvolt Comunidades**, a Portuguese solar supplier, implemented all administrative, commercial and technical steps for consumers.

Energy Communities vs. Energy Sharing

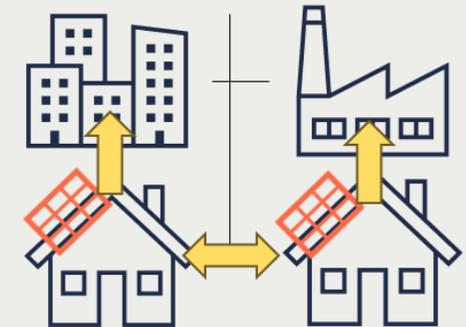
In Energy Communities citizens organize themselves for a non-profit activity

They're like **your organic, non-profit food cooperative** – you own and manage the cooperative without going through a store.

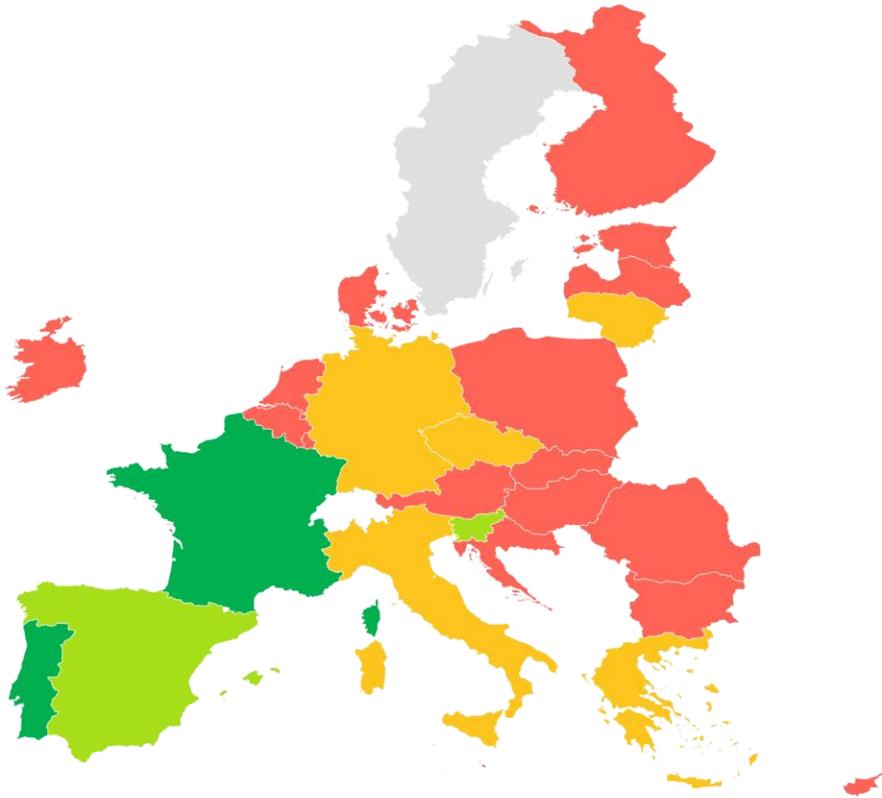


In Energy Sharing individuals trade electricity – extending rooftop PV self-consumption

They're like **your organic food shop** – a way of organising food production to value local, organic food.



Very few countries allow for energy sharing or collective self-consumption



- **Dark green:** France and Portugal have very developed frameworks
- **Light green:** Spain and Slovenia have limited frameworks
- **Yellow:** frameworks mostly limited to multi-apartment buildings
- **Red:** No dedicated frameworks for electricity sharing beyond building premises

Final grade 0 1.5 3

An EU-wide framework is now under discussion in the EU Electricity Market Design

Who may participate?



Participation should be **open to households, SMEs, large companies and public bodies.**

Participants should have the right to delegate administration and ownership to a **commercial third party.**

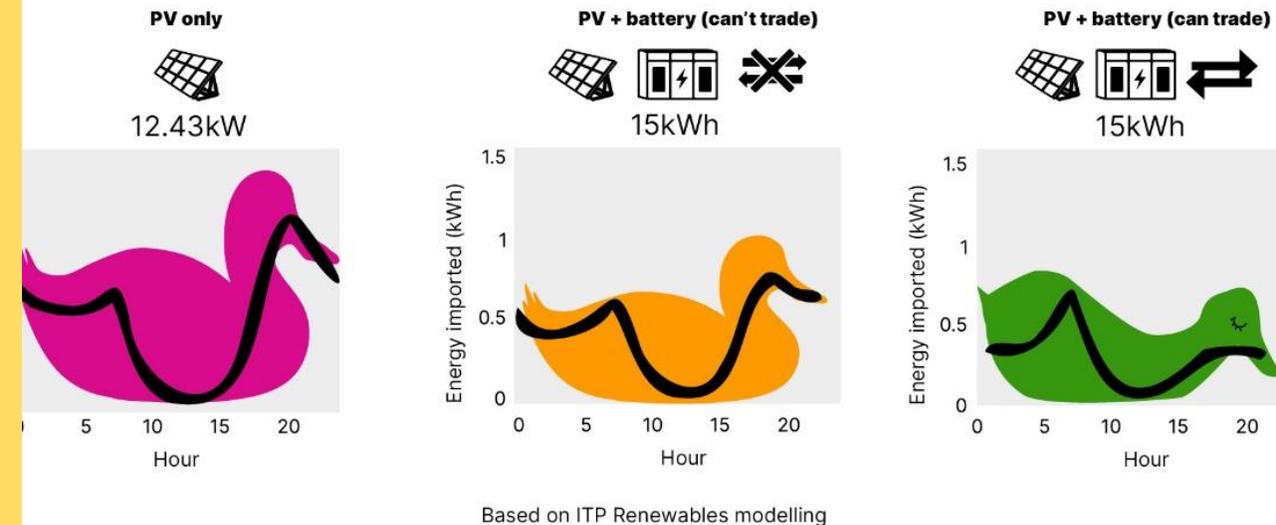
Energy sharing should be limited to **5 MW per individual generation capacity.**

Grid operators are key facilitators

- **On the balance sheets:** account for energy produced in one location to another location
- Forward calculation to sharing participants and suppliers
- Allow for static and dynamic sharing coefficients
- **Collaborate with energy sharing operators**
- Dedicated, cost-reflective grid tariffs: remunerate third parties which mitigate grid congestion
- Communicate congestion-related data to such parties

Import from wider grid

For the average household in the modelled suburb



Integration with suppliers



Energy Sharing vs. Traditional Supply

- Energy sharing is different from supplier activities.
- **Registered electricity suppliers should keep the balancing responsibility** for consumers participating in energy sharing.
- Electricity suppliers shall refrain from compensation payments and charge only limited, proportionate additional costs.

Financing Conditions



Who bears the risk?

- Gov'ts can set up de-risking schemes, i.e. guarantees
- Professional actors can use equity finance or green bonds
- Leverage energy-as-a-service companies

REGULATORY FRAMEWORK FOR ENERGY SHARING

SolarPower Europe White Paper



[Click here → SolarPower Europe.
2023. Regulatory Framework for
Energy Sharing](#)

Details for practical implementation

... in our report on energy sharing

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Thank you for engaging

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