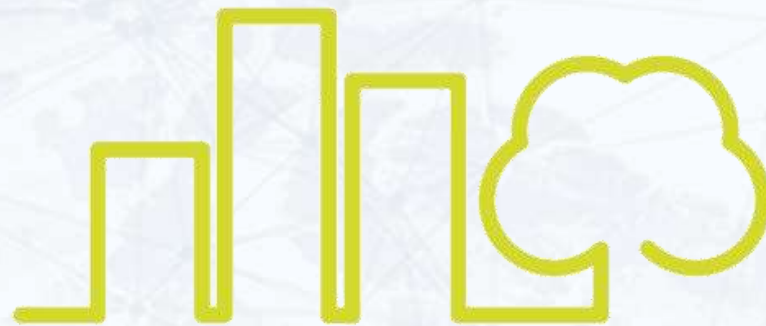


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# The NRG2peers H2020 project towards a new generation of P2P local energy communities in EU



**SUSTAINABLE  
PLACES 2020**

October 27-30, 2020  
Digital Event



This project has received funding from the European Union's H2020 framework programme for research and innovation under grant agreement no 890345.



# NRG2 PEERS



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**Project Coordinator**

Project Manager and Researcher  
Huygen Engineers and Consultants



# Towards a new generation of EU peer-to-peer Energy Communities facilitated by a gamified platform and empowered by user-centred energy trading mechanisms and business models



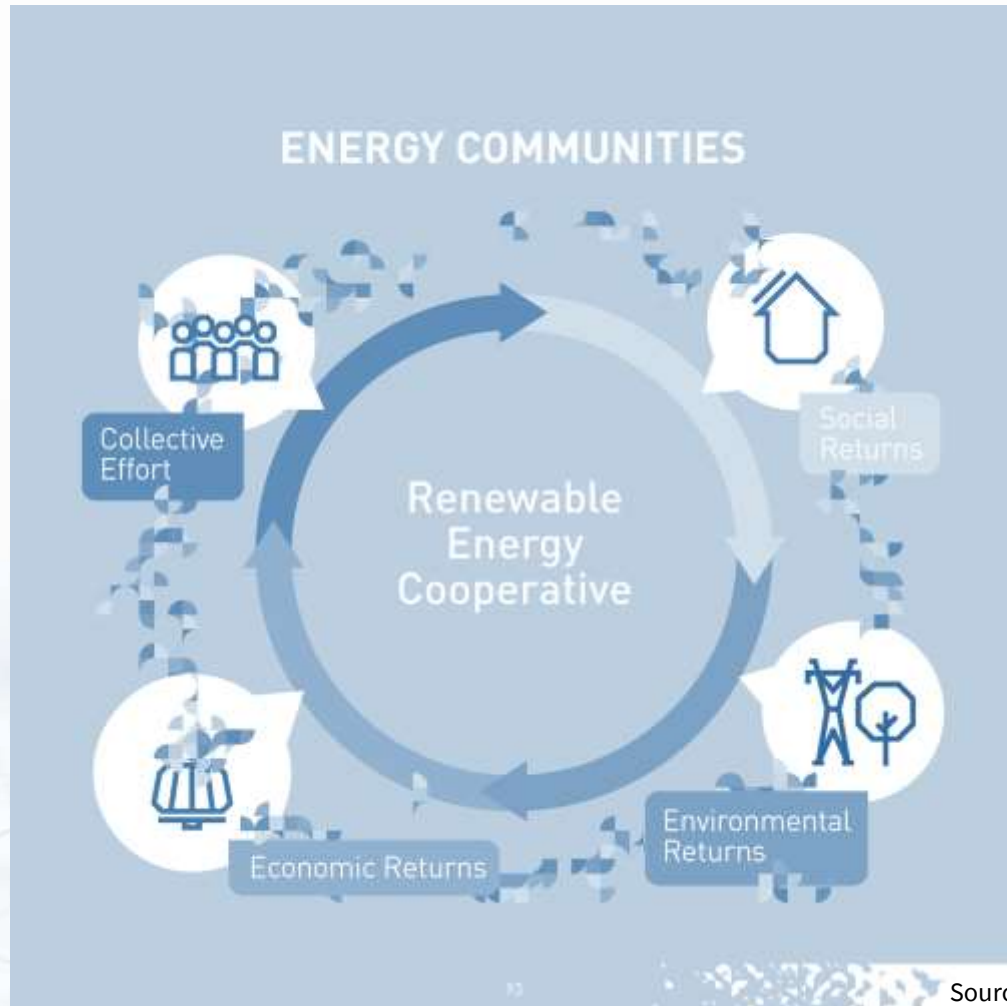
Source image: [LINK](#)

*“I want Europe to become the first climate-neutral continent in the world by 2050. To make this happen, we must take bold steps together. Our current goal of reducing our emissions by 40% by 2030 is not enough []. It means change. All of us and every sector will have to contribute, [] to the way each and every one of us travels and lives. Emissions must have a price that changes our behaviour. This is the European way: [] **we leave nobody behind. And we offer perspectives.**”*

***Opening Statement in the European Parliament Plenary Session - Ursula von der Leyen***

***President of the European Commission***

# Overarching Challenges for EU Energy Communities



There is still a need for clear guidance, education, and support with respect to the methodologies and current practices for the **set-up** and **take-off** of successful energy communities, both on a local and at the EU level

One of the main obstacles is users' **understanding and acceptance of collective actions** in energy communities and benefits of smart grids

The **concept of energy community** is still not completely clear yet for most of the stakeholders

Source image: [LINK](#)

# NRG2peers will ensure the next generation of energy communities to become:



**User-friendly** and **attractive**, reflecting the smart dimension of the community;



**Cost-effective** and **reliable**



**Self-sufficient** and **interactive** for the grid, resolving issues such as access the grid and grid reluctance for the customers on the network;



**Compliant with EU and MS legislations** in order to instil trust in the market and incite investments in energy efficient buildings;



**Supported in decision making**, especially on adoption of RES, better purchases and guiding building users towards more sustainable behaviour patterns;

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# NRG2peers will ensure the next generation of energy communities to become:



**Objective 1:** Stimulating and enabling the co-creation, strengthening and widespread implementation of the new generation of peer-to-peer energy communities the EU.



**Objective 2:** Enhancing the new peer-to-peer energy communities to be more attractive, practical, reliable, understandable and desirable by a holistic and user-centred approach.



**Objective 3:** Making the new energy communities easily accessible for minimum 10.000 residential customers and a wide range of stakeholders



**Objective 4:** Demonstrate that collectively organized peer-to-peer energy-related actions are financially viable and attractive at the community level, by testing the NRG2peers approach and evaluating outcomes of ongoing, complementary P2P / energy trading projects with the consumer-members and relevant regional stakeholders of the Pilot Communities.

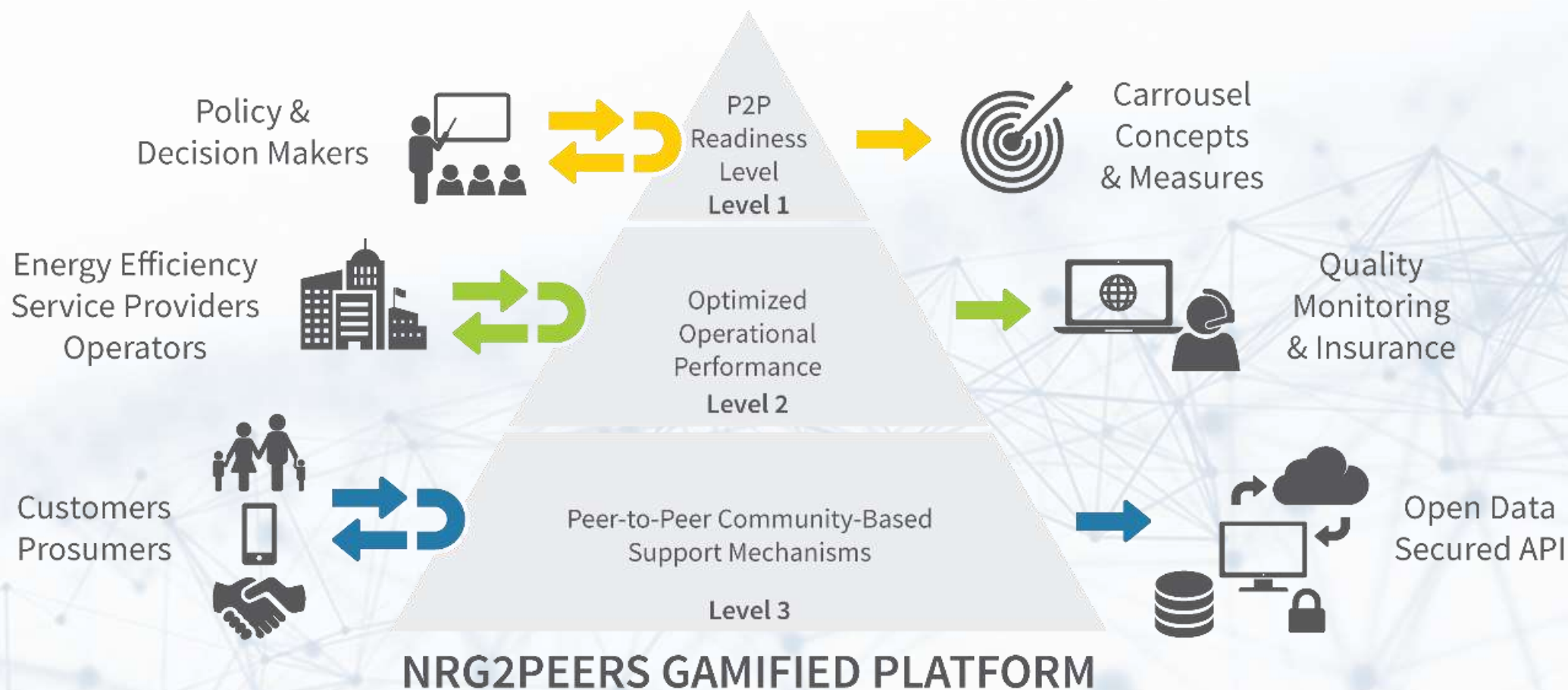


**Objective 5:** To foster the EU-wide uptake of peer-to-peer energy communities by motivating and activating EU interest groups and national certifying and standardisation bodies

# The NRG2peers peer-to-peer Readiness Framework: 5 indicators



# The NRG2peers platform: 3 level of support mechanisms





# The NRG2peers demonstrators: 9 pilots communities

## SchoonSchip Community, Amsterdam, NL

Residential units: 46  
Tot net floor area: 5100 m<sup>2</sup>

## Into the Woods Community, Amsterdam, NL

Residential units: 51  
Tot net floor area: 6630 m<sup>2</sup>

## Hoog Dalem community, NL

Residential units: 13  
Tot net floor area: 2080 m<sup>2</sup>

## De Ceuvel Community, Amsterdam, NL

Residential units: 46  
Tot net floor area: 5100 m<sup>2</sup>

## Woerden community, NL

Residential units: 4680  
Tot net floor area: 6630 m<sup>2</sup>

## San Bernardino Community, Milano IT

Residential units: 450  
Tot net floor area: 10350 m<sup>2</sup>

## Luce Community, SI

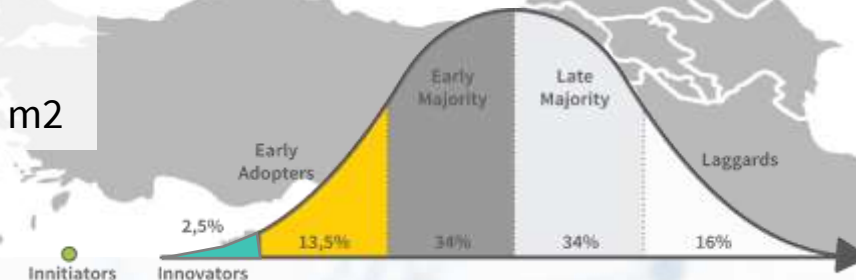
Residential units: 9  
Tot net floor area: 1503 m<sup>2</sup>

## Alginet Community, Valencia ES

Residential : 250  
Tot net floor area: 31250 m<sup>2</sup>

## Perugia, IT

Residential units: 30  
Tot net floor area: 1000 m<sup>2</sup>



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# The NRG2peers CSA collaborative effort: 15 EU partners

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THANK YOU FOR  
YOUR ATTENTION!

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