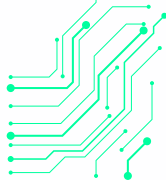




The primary objective is to enhance the PV self-consumption within energy community users by implementing incentivisation mechanisms through messages and the utilization of tokens via Distributed Ledger Technology (DLT) and smart contracts. The BC2 focuses on identifying and implementing the most effective strategies to maximise the benefits and minimise the costs associated with self-consumption for prosumers within energy communities and the broader energy system. Additionally, the BC supports energy efficiency by using an App that provides tips on both optimised self-consumption of DER and how to reduce the energy demand.



## THE ROLE OF DISTRIBUTED LEDGER TECHNOLOGIES AND MEASUREMENT REPORTING VERIFICATION



To implement this BC2 with DLT, InEExS is using the Energy Web Chain, a blockchain-based platform supporting the development of energy sector applications. The Energy Web Token (EWT) is the native token of the platform, used to secure the network. The EWT can also enable smart contracts that automate the execution of agreements and payments based on predefined rules and conditions. DLT can enable the development of a user reward system that is transparent, secure, and decentralised.

Measurement Reporting Verification (MRV) is used for measurement, reporting and verification of the data in the residential households. The concept is used to monitor and evaluate climate action and its impact on greenhouse gas emissions. MRV can be applied to support and assess the optimization of self-consumption of DER in energy cooperatives for the target group of residential households.

### TARGET GROUPS

Energy communities or energy cooperatives that can pool resources, share costs and benefits, and provide services to their members and the grid.



**Crevillent, Spain**

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[www.ieecp.org/projects/ineexs](http://www.ieecp.org/projects/ineexs)

Use and follow #InEExS on  
social media:



### BENEFITS



Reduced energy bills for the households, increase in the consumption of PV produced in their municipality and improvement of their energy efficiency.



Reduced energy losses in the electricity system and a reduction of CO2 emissions.



Increased financial muscle for the energy community and no up-front investment from energy consumers needed.



Improved energy literacy of the households thanks to the interactive platform.



Innovation in the energy system and more flexibility to adapt to the market needs and requirements.