

Smart Microgrids, Local Energy Communities & NRGCoin

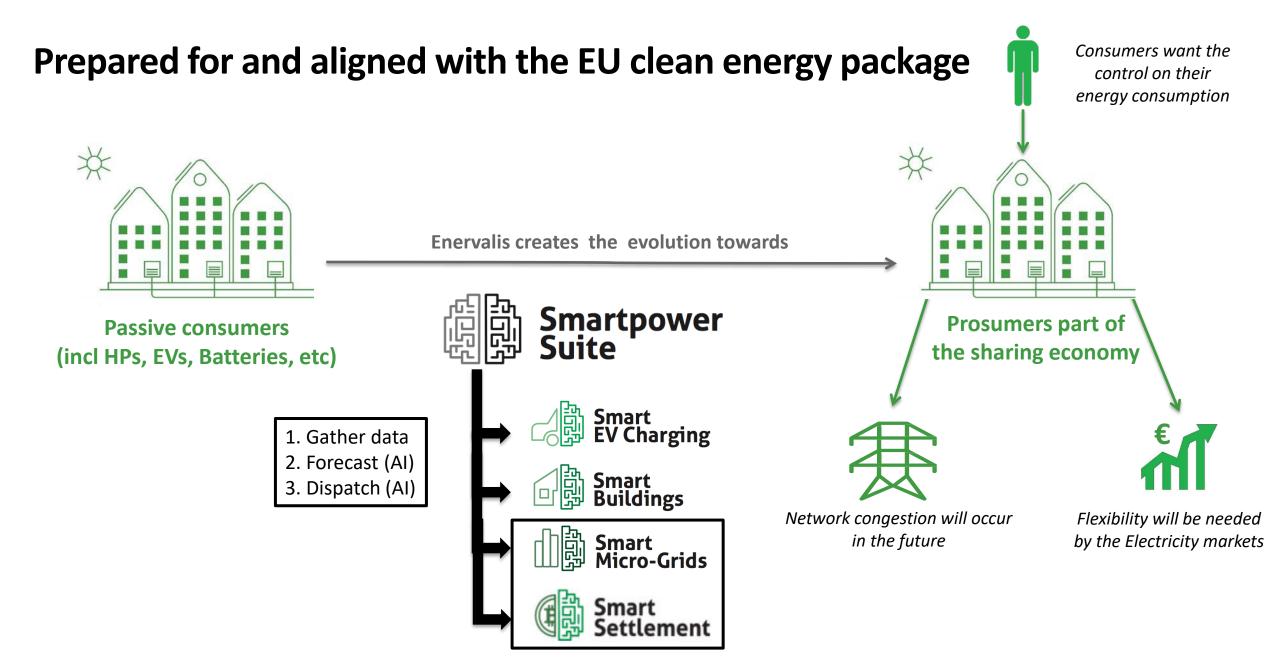












Smart Grid challenges



Traditional support policies for renewables are **inadequate**.



Grid infrastructure **not designed** for decentralized generation.



Renewables will raise electricity **costs** and cause grid **instability**.

We need better support for renewables!

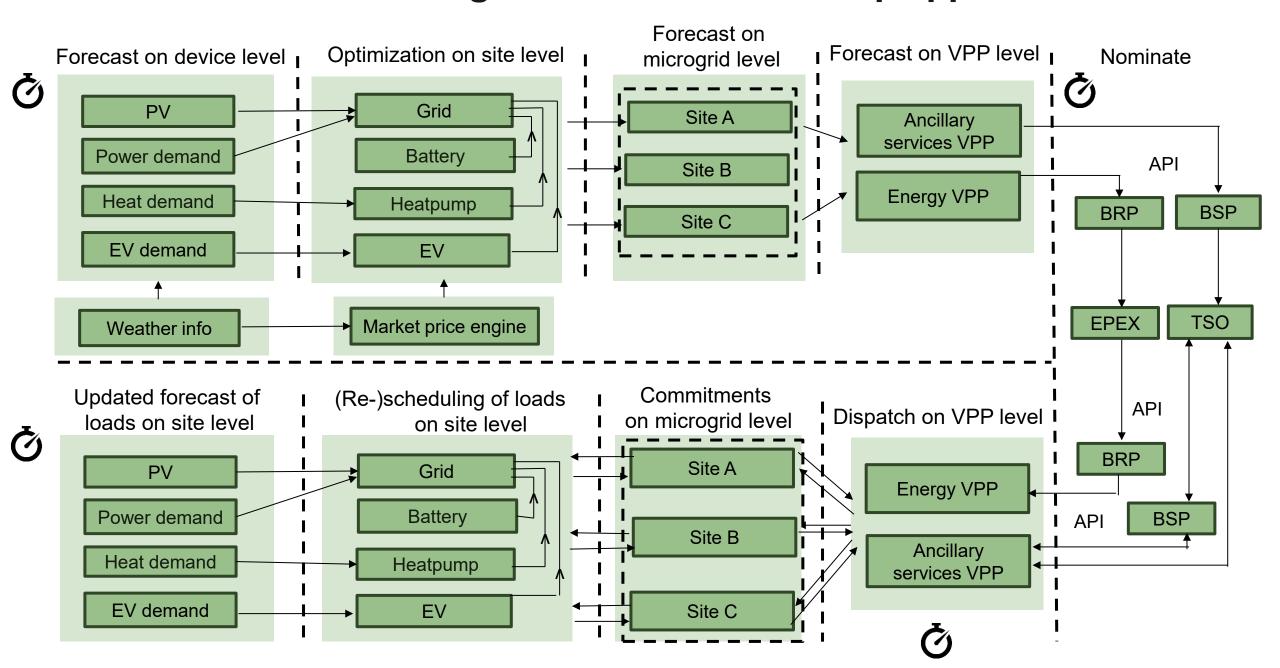
Incentivize local green consumption!

A bottom-up approach is required!



Advanced microgrid control: a bottom-up approach



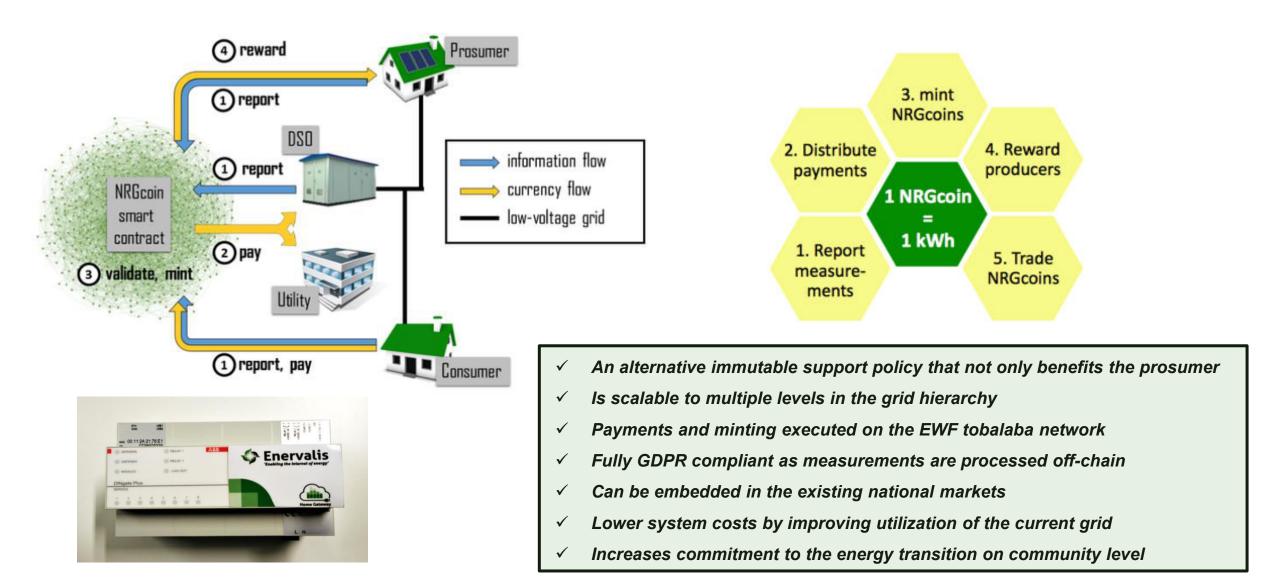




NRGcoin



a Blockchain-based support policy for renewable energy fit for Local Energy Communities



Enervalis

RFI Development and integration 'Market Service app' for local energy markets

Stedin and Energy21 designed the Layered Energy System (LES) based on the USEF framework. LES is a communitybased market model that offers solutions to a variety of existing and future problems resulting from the energy transition. The next step in development of the Layered Energy System is doing a proof of concept in a real life local market setting. The project is looking for technology partners.

Proof of concept in real life local market setting

Together with technology partners ABB and Enervalis, Stedin has found a location (Hoogdalem) in its grid area where a group of households are willing to participate in the first pilot project. Advanced technology, such as Heat pumps, Batteries, PV, internet-connected appliances (e.g. Laundry machines), is present in these houses enabling a full test of all functions of the Layered Energy System.

The project is looking for a partner who is capable of developing, and integrating the necessary 'Market Service app' on the Energy Web Foundation Blockchain. The market-service app has 3 goals:

- It matches local demand and supply of energy (through bids) in a market program (load profile)
- It brings together national and local need of flexibility (through flex offers and orders)
- It is able to process the effect of ordered flex into the market program (load profile)

The application will be a proof of concept and must be compatible with the blockchain of the Energy Web Foundation Tobalaba test network.

ENERGY BIDS FOR 19/10/2018



2nd part of the tender was also granted To Enervalis and now live in our portal



No subsidies were needed as available technology!