ENERGY VALUE CAPTURE

Energy communities strive to become financially self-sustainable or at least try to find avenues which can support them financially. Key element to achieve this is to find and incorporate monetization mechanisms to their business. This core area provides various mechanisms through which energy related benefits can be monetized.

REVENUES FROM ENERGY SERVICES

DESCRIPTION

With the pattern "revenues from energy services" the community generates income from selling mobility, heating, electricity and/or energy management services to the community members.

Community members will pay for the services (different tariff schemes are possible) allowing the community to compensate their costs.

IMPLEMENTATION REFERENCE

- Electricity, heat &/ or mobility services for community members (Ecopower, Feldheim)
- Selling local green electricity (Quartierstrom / WEW Walenstadt
- Smart charging as service (Greenflux)
- Acquire locally produced electricity or share/sell the energy surplus generated by PV plant within the community (Prosume, Entelios)

SAVING ENERGY COSTS

DESCRIPTION

With the pattern "saving energy costs" communities focus not on generating revenue but rather on reducing the costs for the community and its members. Costs saving measures can be smart energy management, energy efficiency or sufficiency measures, self-consumption, reducing peak consumption or shifting demand to low-tariff times.

IMPLEMENTATION REFERENCE

- Savings on electricity bills (Green Energy Cooperative, Comunidades Energeticas)
- Save energy through energy management (Tieto Evry, Alpiq, Entelios)
- Savings to commercial and industrial customers (Cut Energy, Open Energi)

REVENUE FROM EXTERNAL SERVICES

DESCRIPTION

Adopting the pattern "revenue from external services" energy communities can improve their financial balance by providing services outside of the local community with their assets.

Common external revenue streams are: providing balancing power, redispatch capacities, spot market trading.

IMPLEMENTATION REFERENCE

- Selling of green power as retailer (Som Energia, Ecopower)
- Spot market (Sonnen Community, Kiwipower)
- Primary balancing power market (Open Energi, Kiwipower)
- Secondary balancing power market (Tiko)
- DSO peak shaving + local grid management (Kiwipower, Alpiq Green Battery)
- Ancillary services (Equigy)
- VGI valorization on markets with revenue sharing (Nuvve)
- Price forecasting (Entelios)

COMMUNITY INVESTING

DESCRIPTION

The pattern "community investing" describes the financial involvement of community members through shares, memberships, taxes or fees. This pattern will be attractive for models that focus on centralised services that bring benefits to all community members but are not well-suited for one-on-one payments.

Community investing will particularly revolve around: storage, demand shifting, conversion for seasonal storage and platform services.

IMPLEMENTATION REFERENCE

- Membership for attractive energy services (Otzi)
- Invest in community to gain benefits (Ecopower, Vandebron, Energy Revolt)

DATA VALORIZATION

DESCRIPTION

With the pattern "data valorisation" communities use monitoring activities related to energy consumption, generation, technology and behaviour to valorise the gained data.

The data can be on the community or individual level and usages of the data may vary between different purposes.

IMPLEMENTATION REFERENCE

- Provide data to service developer in domain of energy forecasting & health (ITI smart home)
- Most of the living labs provide data as product (see implementation references under the pattern "become a living lab")