Smart-BEEjS Project Update

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ACHIEVEMENTS

In WP3 we summarised in D3.2, the drivers of **silo thinking** in the context of Positive Energy Districts (PEDs), providing recommendations to address those silos. In parallel, WP6 submitted D6.2 in which we codified a collection of **20 Business Model approaches** to three **archetypes** of value generation at district level.

WP3 & WP6 in collaboration and with support from all ESRs completed **42 interviews** to establish the baseline for the foresight exercise and the context for the **Digital Round Table** (D3.4) under the activities of the 2nd Winter School. The Digital round Table took place on 19 March 2021.

In WP4, we identified the context that frames the development of potential PEDs (D4.2) in a selection of European cities (Frankfurt, Vienna, Nottingham and Torres Vedras). This framework serves as the base for further techno-economic analyses of these areas.

In WP5 we are working on two deliverables. The first defines a standardised method to evaluate the impacts of PEDs in three main dimensions: environmental, economic and social (D5.2). The second, identifies the most important factors to incorporate when designing policies that might tackle the energy poverty phenomenon through the creation of PEDs.

FORESIGHT INTERVIEWS

ESRs are now inviting relevant stakeholders to participate in the foresight interviews (D6.3) which are scheduled to be conducted by mid June 2021.

'HELP ME' VIDEO & BOOKLET

The kick-off meeting to detail the tasks and timeline for D3.3. will be held on Tuesday, 25th May 2021.

PUBLICATIONS

A target to submit to, and participate in, at least 1 conference per ESR in 2021.

SYNERGIES

Be aware of material generated at the WP level, available to be used for individual PhDs.

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WORK PLAN

(a) The material collected from the interviews (WP6) will be compiled in a foresight report (D6.4) and will also inform the design of an online tool for new venture propositions (D6.5).

(b) Based on D3.2, D3.4 and the other deliverables submitted across the WPs, D3.3 will design a user-friendly booklet and short video with key tips for personal-led interventions to address energy justice issues within PEDs.

"***Please support*** *us by suggesting relevant stakeholders from your network to invite for the foresight interviews. Priority categories: Policy-makers (local authorities, regulators); Business sector/ industry representatives; Technological experts/ researchers; Citizens' groups; and, Environmental NGO's/ energy justice networks*"

The WP6 Team

TRAINING PLAN Autumn 2021

Writing retreat – Place TBC
Oct 2021
A one-week long action-based workshop, led by our Profs and external speakers, developing a draft collaborative output.

KEY PRIORITIES:

01

Support Foresight Exercise

02

Discussion for next training activity & collaborative output

03

Completion of first two WP5 deliverables

04

Work on and submit relevant conference papers

COLLABORATIVE OUTPUT AIM

An edited Book of collected papers, based on WP material and ESRs individual PhD activities. Requires discussion for pre-even requirements; event structure and invited speakers; post-event follow-up.

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Business Models and Consumers' Value Proposition for PEDs

Value Generation by PEDs: Best Practices Case Study Book (D6.2)

By: Derkenbaeva, Erkinai; Heinz, Helen; Lopez Dallara, Maria Lujan; Mihailova, Darja; Galanakis, Kostas; Stathopoulou, Eleni

The EU's Strategic Energy Technology (SET) Plan proposes the development and implementation of Positive Energy Districts (PEDs) to facilitate the transition towards a climate neutral energy system. At their core, PEDs create value across three *sustainability dimensions*: environmental, social, and economic. Innovative business models – the business configurations in which value is created, delivered, and captured – are integral to leveraging these contextual characteristics in order to achieve the goals of PEDs.

This study aims to identify best practice business models for energy generation, distribution, and management in the context of PEDs, and categorise them into archetypes. This allows us to codify the opportunities available and illustrates the different priorities that might emerge leading also to socially inclusive propositions.

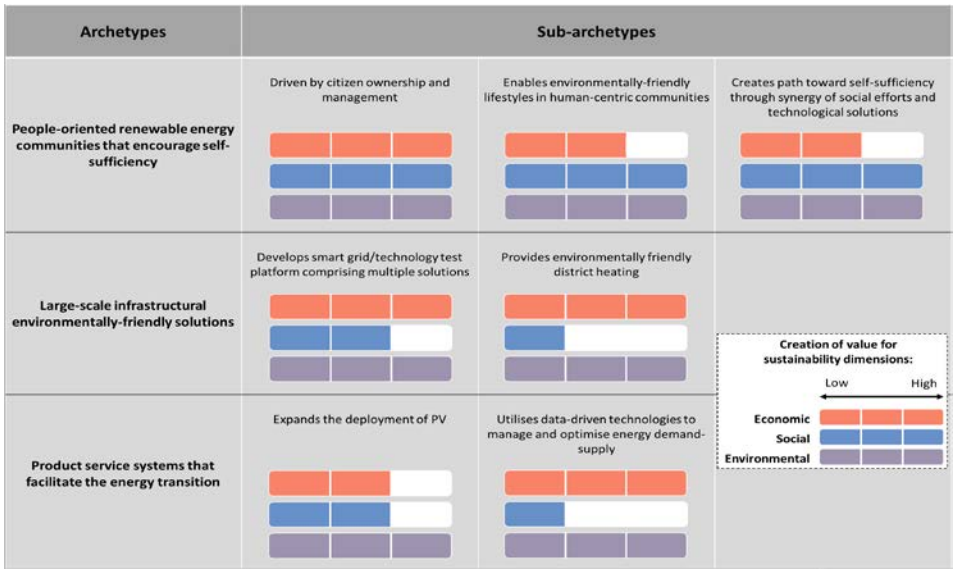

Figure 1. Summary of identified archetypes and sub-archetypes of business model opportunities in PEDs

To achieve this, we developed a conceptual framework drawn on the sustainable business models literature to determine the extent to which the value dimensions of business models address the economic, social, and environmental dimensions of sustainability. We apply the conceptual framework to a set of selected European cases and identify the following business model archetypes of PEDs and PED-like projects.

We found that the aims of the business models under the archetypes and sub-archetypes vary in their priorities. The "People-oriented renewable energy communities that encourage self-sufficiency" archetype is heavily focused on creating value for the community, while the other two archetypes are more centred on creating environmental and economic value. Nevertheless, all cases, to a varying extent, highlight the importance of delivering value in the social dimension and illustrate that the outcomes of renewable energy projects need to go beyond creating just environmental and economic benefits, by also creating benefits for citizens and society.

The identified archetypes and their sub-archetypes are multi-dimensional in their value creation but create a common understanding of the diversity of opportunities that are available in designing a business model which creates social, environmental, and economic value for PEDs or PED-like projects. Further, the key features of the sub-archetypes demonstrate which business model elements are critical in achieving their aims and this can also determine the source and magnitude of investment dedicated to the development of a PED.

You can access deliverable D6.2, here

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