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LOCAL ENERGY COMMUNITIES

Exploring Research, Technologies and Regulations for Their Implementation in Europe

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Technology

The main benefit of LECs from the technological perspective is the flexibility services that they could bring.

However LECs are still facing some challenges even if one statement came from the participants: *“the technologies are there and the time is now to implement LECs.”*

One of the challenges is related to cybersecurity. Indeed, software will be needed to operate LECs. It will be necessary to have data on the consumption and the profile of people to operate the LECs in the most efficient way. However, the data and systems should be protected to avoid any cybersecurity issues.

The technology there should be easy to use and safe. Without that, it will be very complicated to involve citizens in LECs.

The grids need to be adapted for the interaction.

Some risks were identified. One is privacy. The second one is the supply of raw materials since these raw materials are needed to have the necessary technology in LECs.

To solve these challenges, we need data and info exchanges to operate LECs in the right way. Moreover, training in technology use and maintenance are needed. The recycling perspective should be studied to take into consideration the potential circular aspects of LECs.

The participants highlighted the importance of all energy vectors and technologies to allow the development of LEC.

From the participant’s perspective, LECs need a scale for successful business cases due to the development costs.