

Author(s)	Georgios Yiasoumas, Venizelos Efthymiou
Affiliation(s)	FOSS Research Centre of Sustainable Energy, University of Cyprus
Presenting Author	Georgios Yiasoumas
Title of Presentation	DATA CELLAR: Data Hub for the Creation of Energy communities at Local Level and to Advance Research on them
Oral or Poster Presentation?	Presentation

Summary:

A greener energy system is crucial for the future prosperity and livability of European citizens. This requirement is at the heart of the DATA CELLAR approach where Local Energy Communities (LECs) have been recognized by the European Commission as a pivotal measure to play a key role in driving the EU's energy transition. At the same time, the digitization of the EU energy system and the proper exchange of data between energy actors appear crucial to foster the exchange of best practices and the creation of a knowledge community to tackle one of our society's most pressing global crises: climate change.



Figure 1: DATA CELLAR Rationale

In this context, DATA CELLAR aims to implement a collaborative platform that will provide an interoperable and secure energy data space capable of delivering access to datasets and AI models to serve and support the spread of ECs in the European Union, leveraging on experience gained in the development of other EU projects.

DATA CELLAR will create a decentralized data space to store streams or historical data coming from private metering, but it will also provide a data federation integrating data coming from both external companies and EU federation spaces. The data space will be populated by a series of services dedicated to energy utilities, ECs, private businesses, and citizens. Furthermore, DATA CELLAR will provide a decentralized and open marketplace for energy datasets and pre-trained AI models to serve and support LECs.