



FlexiBIT

presented by

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Who are you, and what is your organization's area of expertise?

Dr. Dimitrios Papadaskalopoulos

At the University of Patras, we specialize in modelling, analyzing and designing electricity markets, with a particular focus on the role of energy storage, flexible demand and energy communities.



What is your vision for FlexBIT?

Our vision for FlexBIT is to deliver a holistic framework for aggregating and optimally exploiting distributed flexibility resources of different types within residential, tertiary and industrial buildings. We believe that by combining technical solutions with appropriate market designs and regulatory changes, we can contribute significantly to the project's success and help shape a sustainable energy future.



What specific role does your organization play in FlexBIT?

In FlexBIT, our organization is responsible for quantifying the overall economic value of flexibility in the European electricity market. This involves a comprehensive review of the design of different market segments (wholesale energy, retail energy, ESO and DSO flexibility) in the project's focus countries, as well as the application of an advanced optimization model factoring the synergies and conflicts among these market segments.



What are the key outcomes your organization hopes to achieve in FlexBIT?

Through our involvement in FlexBIT, we aim to contribute to the wider integration of distributed flexibility resources (within residential, tertiary and industrial buildings) in the European electricity market. This aim involves deriving optimal trading strategies and proposing new market designs, which will enable flexibility owners to maximize their profitability.



Why is FlexBIT important for Europe's energy transition?

FlexBIT is essential for Europe's energy transition, considering the challenges introduced by the massive integration of renewable energy sources and the electrification of transport and heat sectors. The project addresses technical, market and regulatory challenges associated with the exploitation of distributed flexibility, enabling a cost-effective transition towards the zero-carbon future.



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